Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221

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NMED
Hazardous Waste Bureau

Mr. John E. Kieling, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Subject: Information Requested by the New Mexico Environment Department During the September 11-12, 2013, Inspection of the WIPP Facility

Dear Mr. Kieling:

The purpose of this letter is to provide information requested by the New Mexico Environment Department (NMED), Hazardous Waste Bureau during the inspection of the Waste Isolation Pilot Plant (WIPP) Facility in Carlsbad, New Mexico, conducted on September 11-12, 2013.

Accompanying this letter is a binder of numerically labeled envelopes, containing the documentation requested in the NMED Inspection Item Table, (a copy of the Table is inserted in the front of the binder). Please note the training documentation requested is considered Personally Identifiable Information and is being sent via email with a password protected file to Ms. Trais Kliphuis.

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

If you have any questions, please contact Mr. George T. Basabilvazo, Director of the Office of Environmental, Safety and Health, at (575) 234-7488.

Sincerely,

Jose R. Franco, Manager
Carlsbad Field Office

Robert L. McQuinn, Project Manager
Nuclear Waste Partnership LLC

Enclosure

cc: w/o enclosure
T. Kliphuis, NMED *ED
T. Blaine, NMED ED
CBFO M&RC
*ED denotes electronic distribution

1403157

CBFO:OESH:GB:MN:14-1410:UFC 1200.00

2012 WIPP Inspection-Items: NMED Request Description (14 Items)
Dates of Inspection: September 11-12, 2013

1. Information and data regarding any derived waste that has been generated and accumulated in the WHB from December 13, 2012 to September 11, 2013. Permit Condition II.C.5.

2. Documentation regarding all Occurrence Reports (except counterfeit parts) from December 13, 2012 to September 11, 2013.

3. Copies of waste manifests of CH shipments with payloads disposed of from April 1, 2013 through May 15, 2013, of all RH shipments received from December 13, 2012 through February 15, 2013. In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection.

4. Documentation demonstrating that the storage capacities of the Parking Area Unit and Parking Area Surge Storage (from Table III.A.2) and WHB Units [CH Bay Storage Area, CH Bay Surge Storage Area, Derived Waste Storage Area, RH Bay, Cask Unloading Room, Hot Cell, Transfer Cell, and Facility Cask Loading Room] (from Table III A.1) were not exceeded during the entire month of April, 2013.

5. Generate and provide a histogram from the WWIS database, plotting number of containers versus number of days in storage, demonstrating whether storage times were ever exceeded from December 13, 2012 to September 11, 2013.

6. Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachments E, L, N, N1, and O. Radiological instruments are not considered demonstration of permit compliance.

7. Names for fifteen individuals (three from each position) in the following positions: Hazardous Waste Workers, TRU Mixed Waste Handlers, Facility Shift Engineers, Facility Shift Managers, and Central Monitoring Room Operators. Inspector is requesting such information as to verify training and qualification are current.

8. Copies of any coordinating agreements specified in the Contingency Plan, Section F-6, that were revised from December 13, 2012 through September 11, 2013. Provide a copy of the current Contingency Plan as well, as of September 11, 2013.

9. Complete copy of the WWIS Data Change Log from April 1, 2013 to May 15, 2013.

10. Maps of waste disposal location and quantity from April 1, 2013 to May 15, 2013 as specified in Permit Condition 4.8.2.

11. Analytical laboratory results of Panel 6 disposal room VOC monitoring for all of April, 2013 of any one round, both paper and as an electronic spreadsheet.

12. List of names for four personnel (one from each position) on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current. Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013.

13. Provide data to ensure that compatibility was being reviewed for the overpacking of multiple waste streams into a single payload container (Reference: DOE letter received by NMED on August 1, 2013, to John Kieling, Chief Hazardous Waste Bureau, NMED from J. R. Stroble Director, National TRU Program , CBFO).

14. Provide monitoring data, calculations, and any records that demonstrate compliance for the decay heat limit found in the Permit, Section A2-1, *"The thermal loading from RH TRU mixed waste shall not exceed 10 kilowatts per acre when averaged over the area of a panel, as shown in Permit Attachment A3, plus 100 feet of each of a Panel's adjoining barrier pillars."* The compliance dates are for the most recent annual summary of total decay heat for waste emplaced at WIPP

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

1.a Information and data regarding any derived waste that has been generated and accumulated in the WHB from December 13, 2012 to September 11, 2013. Permit Condition II.C.5. [*sic*] *Section 2.3.5* [2 pages]

Nuclear Waste Partnership LLC

A URS-led partnership with B&W and AREVA

OP:13:02061
UFC:2300.00

INTER-OFFICE CORRESPONDENCE

DATE: September 18, 2013

FROM: R. M. Britain LOCATION: Waste Operations

TO: S. L. Travis LOCATION: Site Environmental Compliance

SUBJECT: RESPONSE TO NMED REQUEST

In response to providing a documented answer to Question Number One (below) for the NMED 2012-2013 WIPP Inspection- items: There has been no derived waste generated or accumulated in the Waste Handling Building (WHB) from December 13, 2012 to September 11, 2013.

1. Information and data regarding any derived waste that has been generated and accumulated in the WHB from December 13, 2012 to September 11, 2013. Permit Condition II.C.5.

If you need further information, please contact me at Extension 8738.

CM

cc: T. A. Batchelder ED
R. M. Britain ED
S. B. Jones ED

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

1.a Information and data regarding any derived waste that has been generated and accumulated in the WHB from December 13, 2012 to September 11, 2013. Permit Condition II.C.5. [*sic*] *Section 2.3.5* [2 pages]

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

2.a Documentation regarding all Occurrence Reports (except counterfeit parts) from December 13, 2012 to September 11, 2013. [93pages]

Initial Update:	02/13/2013	17:20 (ETZ)
Latest Update:	02/13/2013	17:20 (ETZ)
Final:	02/13/2013	17:20 (ETZ)

3. Significance Category: 4

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: UH06/Bld 311/31-H-005

7. UCNI?: No

8. Plant Area: Waste Hoist

9. Date and Time Discovered: 02/11/2013 14:15 (MTZ)

10. Date and Time Categorized: 02/11/2013 15:42 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
02/11/2013	14:23 (MTZ)	Lina Pacheco	CBFO/FR
02/11/2013	14:15 (MTZ)	Paul Paneral	NWP/FSM
02/11/2013	14:21 (MTZ)	Jeff Knox	NWP/FMD
02/11/2013	14:28 (MTZ)	Scott Kennedy	NWP/FM
02/11/2013	14:36 (MTZ)	James McCormick	NWP/NSM

13. Subject or Title of Occurrence:

EM-CBFO--NWP-WIPP-2013-0001 NOTIFICATION/FINAL

Occurrence Report
After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office Nuclear Waste Partnership

(Site) (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0001

Performance Degradation of Waste Hoist Head Rope

2. Report Type and Date: NOTIFICATION/FINAL

	Date	Time
Notification:	02/13/2013	17:20 (ETZ)

18. Activity Category:

02 - Maintenance

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19. Immediate Actions Taken and Results:

Upon discovery of the displaced wire on Head Rope 3, the Waste Hoist Operator stopped the inspection and placed the hoist in a safe configuration.

Appropriate Facility Operations and Engineering personnel began an evaluation to determine the cause and extent of damage.

A Non-Conformance Report (NCR) hold tag (NCR FY2013-13) was issued and placed on the conveyance removing it from operation.

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20. ISM:

6) N/A (Not applicable to ISM Core Functions as determined by management review.)

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21. Cause Code(s):

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22. Description of Cause:

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23. Evaluation (by Facility Manager/Designee):

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

Performance Degradation of Waste Hoist Head Rope

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14. Reporting Criteria:

4A(2) - Performance degradation of any Safety Class SSC when not required to be operable.

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15. Description of Occurrence:

On February 11, 2013, during a normal weekly preventive maintenance inspection of the Waste Hoist conveyance head ropes, Maintenance Technicians observed that one wire on head rope Number 3 was displaced approximately 12-16 inches in length outside the rope lay. The displacement is estimated to be as much as a quarter of an inch. Head rope Number 3 is one of six 1-3/8 inch diameter steel ropes that suspend the conveyance from the hoist. The nominal length of the head rope is about 2,300 feet. The section where the displacement occurred is located approximately 1,500 feet from the rope end located at the top of the conveyance.

Upon discovery the technicians immediately notified the Waste Hoist Operator who stopped the operation and placed the hoist in a safe configuration. Facility Operations and engineering personnel were notified and an evaluation to determine cause was begun. Currently a hold tag and an NCR tag are placed on the conveyance removing it from operation until the head rope is replaced. A spare head rope is on site for immediate replacement.
The waste hoist conveyance did not contain any radioactive materials and was not required to be operable as Safety Class equipment.

OTHER DETAILS:
Per the WIPP Documented Safety Analysis (DSA), the waste hoist head ropes are part of the Safety Class structure of the waste hoist system. Waste hoist head rope number three is one of six ropes used in the safe operation of the waste shaft conveyance and counterweight. Any two of the six head ropes can support the weight of the shaft conveyance, counterweight and maximum conveyance load. Damage to hoist rope number 3 does not indicate the waste hoist is not fully capable of performing the safety function as described in the DSA accident analyses.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Maintenance Shutdown - Non-Waste Handling Mode

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26. Lessons Learned:

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27. Similar Occurrence Report Numbers:

EM-CBFO--WTS-WIPP-2011-0004

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28. User-defined Field #1:

29. User-defined Field #2:

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30. HQ Keyword(s):

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31. HQ Summary:

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32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

EM-CBFO--NWP-WIPP-2013-0002 NOTIFICATION/FINAL

Occurrence Report

After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office Nuclear Waste Partnership

(Site) (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. **Occurrence Report Number:** EM-CBFO--NWP-WIPP-2013-0002

Tenant failed to follow work instructions as written

2. **Report Type and Date:** NOTIFICATION/FINAL

	Date	Time
Notification:	02/19/2013	18:55 (ETZ)

Initial Update:	02/19/2013	18:55 (ETZ)
Latest Update:	02/19/2013	18:55 (ETZ)
Final:	02/19/2013	18:55 (ETZ)

3. Significance Category: 4

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: EXO Experiment/Underground/63-UPS04/2

7. UCNI?: No

8. Plant Area: Underground

9. Date and Time Discovered: 02/14/2013 12:09 (MTZ)

10. Date and Time Categorized: 02/14/2013 15:43 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
02/14/2013	12:15 (MTZ)	Kenny Padilla	CBFO/FR
02/14/2013	12:20 (MTZ)	Jeff Knox	NWP/FMD
02/14/2013	12:09 (MTZ)	Paul Paneral	NWP/FSM
02/14/2013	12:16 (MTZ)	Scott Kennedy	NWP/FM

13. Subject or Title of Occurrence:

Tenant failed to follow work instructions as written

14. Reporting Criteria:

10(2) - An event, condition, or series of events that does not meet any of the other reporting criteria, but is determined by the Facility Manager or line management to be of safety significance or of concern for that facility or other facilities or activities in the DOE complex.
The significance category assigned to the management concern should be based on an evaluation of the potential risks and impact on safe operations. (1 of 4 criteria - This is a SC 4 occurrence)

15. Description of Occurrence:

On February 14, 2013, a Nuclear Waste Partnership, LLC (NWP) maintenance craftsman was dispatched to perform an inspection of the Enriched Xenon Observatory (EXO) work area. When the craftsman arrived, the EXO Person In Charge (PIC) asked the craftsman how to address work instruction issues in Work Order 1213548. The PIC explained that certain steps in the work instructions were redundant and not needed. The craftsman told the EXO PIC that if the steps could not be worked as written, a Work Change Notice would have to be performed before proceeding further. Upon review of the work instructions, it was discovered that the redundant steps had been skipped and work was performed after the skipped steps. The NWP Maintenance Engineer was notified and the work was suspended. The NWP Facility Manager (FM) was notified at 1215 hours. A debrief was conducted at 1400 hours. The NWP FM categorized the occurrence as a Management Concern based on the results of the debrief.

DESCRIPTION and SEQUENCE OF EVENTS:
Work Order 1213548 was prepared to provide vendor with support to replace batteries in the Enriched Xenon Observatory (EXO) Uninterruptable Power Supply, 63-UPS04/2. The work would be performed over several days.

During the week of January 28, 2013, the initial work package walk-down was performed and the EXO PIC noted that there were steps in the work package that appeared to be redundant. Specifically, step 8.3.2 initiated steps to restore and re-energize the UPS after battery replacement had been completed. Subsequent steps beginning with 8.5.2 through 8.8.2 dealt with de-energizing and performing a lockout/ tagout (LOTO) on the UPS to replace the protective covers, removing the LOTO and re-energizing the UPS. The EXO PIC thought that the steps, 8.5.2 through 8.8.2 were redundant because the protective covers needed to be re-installed before the UPS was re-energized in previous steps beginning with 8.3.2 through 8.4.2 although there were no specific steps to reinstall the protective covers prior to re-energizing the UPS. The EXO PIC informed the NWP planner that the redundant steps should be removed.

On February 4, 2013, in a subsequent work package walk-down with a NWP Zone 1 Maintenance Engineer (ME), the EXO PIC noted that the redundant steps were still present in the work package and

notified the ME that the redundant steps should be removed.

On February 10, 2013 the work package was released for work. A task preview was performed by NWP personnel but only covered the hazards associated with the work and did not review all of the work steps.

On February 13, 2013, the UPS batteries had been replaced and the field work proceeded to section 8.3, EQUIPMENT AND POWER LINEUP, of the work package. This work involved removing the LOTO and bringing the UPS online per the UPS procedure. As part of this activity, the protective covers of the UPS were re-installed although there were no specific instructions to do this. At step 8.4.2, the UPS was returned to normal operation. The next section in the work package was 8.5, Equipment Testing. The purpose of Section 8.5 through steps 8.8.2 was to de-energize the UPS, apply a LOTO and reinstall the protective covers. The EXO PIC was surprised to see that these steps were still in the work package. The EXO PIC thought that he had the authority to N/A steps in the work package although he did not know the specific procedure for doing this. The work package steps were not marked but were bypassed. The field work proceeded to steps 8.8.3 through 8.8.6, Operational Testing.

On February 14, at approximately 7:30, a maintenance craftsman was dispatched to perform a workplace inspection and was consulted by the EXO PIC about how to address an issue with the work package. Certain steps in the work package were intentionally skipped because they were thought to be redundant and not needed. The work package reflected that additional work was performed after the skipped steps. The craftsman advised the EXO PIC that the work could not proceed because the work was not being performed as written. The underground (U/G) ME was notified and the work was subsequently suspended. At approximately 11:30, U/G Services was notified. The Central Monitoring Room (CMR) was notified at 12:09. A debrief was scheduled for 14:00 that day. The event was categorized based on information identified during the debrief.

FACTS/CAUSAL FACTORS:
- The recommendations of the EXO PIC were not incorporated because the recommendations were not consistent with the vendor's statement of work. The work could have been performed as written.
- The vendor's statement of work was not specific to the configuration of the EXO UPS. This allowed the vendor latitude in replacing the protective covers. This contributed to the EXO PIC believing that steps 8.5 through 8.8.2 were redundant.
- The Task Preview was conducted by the NWP craftsmen but not by the EXO personnel who could have identified the condition prior to starting work.
- The EXO PIC did not exhibit knowledge of the expectation to stop work if a work package could not be performed as written.
- It is uncommon for EXO personnel to work to NWP work packages.
- It is uncommon for EXO to perform work on NWP work packages un-accompanied by NWP personnel.
- The EXO PIC did not have Conduct of Operations Training
- The skipping of the steps in the work package did not introduce a hazard to personnel since the energy isolation steps were provided to allow safe reinstallation of the protective covers which were already installed (without specific work instructions). In the previous performance of this work activity, the

23. Evaluation (by Facility Manager/Designee):

24. Is Further Evaluation Required?: No

25. Corrective Actions
Local Tracking System Name: IMPS

26. Lessons Learned:

27. Similar Occurrence Report Numbers:

EM-CBFO--WTS-WIPP-2010-0005

28. User-defined Field #1:

29. User-defined Field #2:

30. HQ Keyword(s):

31. HQ Summary:

32. DOE Facility Representative Input:

33. DOE Program Manager Input:

steps were deleted by a Work Change Notice to that work package.
- The event was categorized as an ORPS reportable, Management Concern, 10(2)4 because of the failure to follow work instructions as written.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply

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18. Activity Category:

06 - Facility/System/Equipment Testing

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19. Immediate Actions Taken and Results:

Work was stopped when Underground Maintenance discovered the issue.

Appropriate notifications were made to the Central Monitoring Room, Facility Representative and Nuclear Waste Partnership (NWP) Management.

A Debrief was conducted at 1400 hours. ORPS categorization was made based on information identified in the Debrief.

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20. ISM:

4) Perform Work Within Controls
5) Provide Feedback and Continuous Improvement

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21. Cause Code(s):

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22. Description of Cause:

Initial Update:	06/20/2013	21:20 (ETZ)
Latest Update:	06/20/2013	21:20 (ETZ)
Final:	06/20/2013	21:20 (ETZ)

3. Significance Category: 3

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: WH02/411/41-T-152, 411-HS-098-008

7. UCNI?: No

8. Plant Area: CH Bay/SW Dock

9. Date and Time Discovered: 05/06/2013 09:49 (MTZ)

10. Date and Time Categorized: 05/06/2013 10:15 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
05/06/2013	10:25 (MTZ)	Lina Pacheco	CBFO/FR
05/06/2013	09:49 (MTZ)	Mike Proctor	NWP/FSM
05/06/2013	10:06 (MTZ)	Scott Kennedy	NWP/FM
05/06/2013	10:05 (MTZ)	Jeff Knox	NWP/FMD

13. Subject or Title of Occurrence:

Management Concern: Improper Switch Operation

EM-CBFO--NWP-WIPP-2013-0003 FINAL

Occurrence Report
After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office Nuclear Waste Partnership

(Site) (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0003

Management Concern: Improper Switch Operation

2. Report Type and Date: FINAL

	Date	Time
Notification:	05/08/2013	18:20 (ETZ)

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14. Reporting Criteria:

10(2) - An event, condition, or series of events that does not meet any of the other reporting criteria, but is determined by the Facility Manager or line management to be of safety significance or of concern for that facility or other facilities or activities in the DOE complex.
The significance category assigned to the management concern should be based on an evaluation of the potential risks and impact on safe operations. (1 of 4 criteria - This is a SC 3 occurrence)

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15. Description of Occurrence:

On May 6, 2013 at approximately 0915 hours, a Nuclear Waste Partnership (NWP) Safety Engineer and NWP Safety Representative were evaluating waste package placement in a waste handling dock located inside of the waste handling bay.
After the evaluation concluded (0930 hours), the Safety Engineer noticed an unfolded pocket knife inserted between a dock gate control pushbutton and the metal control pushbutton housing. Approximately ½ inch of the knife tip was wedged between the gate lowering button and pushbutton housing to hold the button in the engaged position.
There are two dock gate control pushbuttons used to lower or raise the dock gates. These pushbuttons are a "momentary" type control that requires the operator to depress and hold the button in until the gates come to the complete raise/open or lower/closed position.
The Safety Engineer took photographs and the required notifications were made. The Facility Manager categorized the issue as a reportable occurrence at 1015 hours.

A Root Cause Analysis will be conducted.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply

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18. Activity Category:

03 - Normal Operations (other than Activities specifically listed in this Category)

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19. Immediate Actions Taken and Results:

Pictures were taken immediately upon discovery.

Central Monitoring Room (CMR) was notified. CMR Operator made the appropriate notifications.

A Conduct of Operations work pause was held with the waste handling crew by Waste Operations Manager and Operations Manager to discuss and stress the seriousness of the event, the necessity to follow procedures and Conduct of Operations compliance.

As part of the investigation process, employee interviews were conducted.

A Senior Supervisor Watch was initiated.

A Communication Bulletin was provided to all employees that stressed procedural compliance, tampering with equipment and management's expectations.

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20. ISM:

1) Define the Scope of Work
4) Perform Work Within Controls
5) Provide Feedback and Continuous Improvement

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21. Cause Code(s):

A3B4C02 - Human Performance Less Than Adequate (LTA); Work Practices LTA; Deliberate violation
-->couplet - A4B1C01 - Management Problem; Management Methods Less Than Adequate (LTA); Management policy guidance / expectations not well-defined, understood or enforced

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22. Description of Cause:

A3B4C02 - A Waste Handling Technician (WHT) deliberately jammed the switch, used to lower the TRUDOCK gates, in the actuated position with a knife blade.
This cause is being addressed by corrective actions 1, 2, 4, 5, 7, 8, 15 and 16.
Note: Disciplinary actions were administered in accordance with Human Resources policies.

A4B4C01 - The WHT that jammed the "lower" switch in the actuated position did not follow the specific requirements in two separate procedures and did not employ proper Conduct of Operations principles in the execution of the task of closing the TRUDOCK gate. This indicated that

communication and enforcement of performance expectations from management to workers on the floor is Less Than Adequate.
This cause is being addressed by corrective actions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and 18.

EXTENT OF CONDITION
Based on a review of WIPP Forms (Issues Management Process) and previous ORPS reportable events, deliberate violation of procedural requirements by WIPP personnel is a relatively rare occurrence. A previous case of a momentary switch being bypassed has not been documented.
During interviews with the Waste Handling Technicians, Waste Handling Engineers and Waste Handling Crew Managers they stated that this is not a common practice. The WHT that jammed the switch in the actuated position stated that he was shown how to do this by a WHT who is no longer with the WIPP project.
The prevalence of momentary switches in the waste handling process was reviewed. This was accomplished by a walkthrough of the Contact Handled (CH) and Remote Handled (RH) bays while accompanied by a representative of Waste Operations. Momentary switches are used in several applications in waste handling operations in both the CH and RH Bays. These include:
Rollup Doors – operators must remain on station to close all rollup doors in the CH and RH Bays. The open button for the rollup doors may be released, and the door will proceed to the full up position, without the operator remaining on station after the door has traveled upward approximately two feet.
Facility Transfer Vehicles (FTVs) – The FTVs travel preprogrammed routes, but a WHT must walk alongside the FTV while holding down a "dead man" switch or the FTV will stop.
Power operated tornado doors - Use momentary switches that require an operator to be on station while opening and closing the doors.
Momentary switches are also used on the crane control pendants used in the WH Bays.

INVESTIGATION and ANALYSIS METHODOLOGY
Investigation was performed using WIPP Procedure (WP) 15-MD3102, Event Investigation and WP04-IM1000, Issues Management Processing.
Root and Apparent causal analysis/methodology described in WP13-GM1001, Root Cause Analysis; WP15-PA.02, Cause Analysis Guidance; Barrier analysis, Missed Opportunity Matrix, and the DOE Causal Analysis Tree, as described in DOE O 232.2, Occurrence Reporting and Processing of Operations Information, Attachment 5 were used to determine causes and corrective actions for this event.

ISM SUMMARY
ISM Code 4, Perform Work Within Controls – Employee did not follow procedural requirements and proper Conduct of Operations principles during TRUDOCK gate operation.
ISM Code 5, Provide Feedback and Continuous Improvement – The Root Cause Analysis (RCA) determined that communication and enforcement of performance expectations from management to workers on the floor was less than adequate.

HUMAN PERFORMANCE IMPROVEMENT (HPI) ANALYSIS
Analysis based on the application of HPI principles was performed. The analysis indicated that the

operator chose to take a risk contrary to approved procedures. This at-risk behavior was taken without consideration of the consequences or severity of the outcome. At-risk behaviors generally occur when a person believes that they have control over the risk and have a perception that they have something to gain by the risk. In this event, the operator was hurrying through an activity at the end of shift although there was no indication of pressure from their supervisor. Because at-risk behaviors are not always penalized with an event or personal injury, first line managers and those in supervisory capacities must remain aware of the circumstances under which at-risk behavior are more likely to occur. Personnel are also more likely to avoid at-risk behavior if managers and supervisors continuously reinforce that those behaviors are not acceptable under any circumstances.

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23. Evaluation (by Facility Manager/Designee):

The causes identified for this event were attributed to an employee deliberately violating procedural requirements and management policies regarding procedural compliance and Conduct of Operations principles were not fully understood by employees and/or enforced by management. Due to the nature of the occurrence, senior management directed a formal Root Cause Analysis (RCA) to be performed. Causes identified in the RCA and associated corrective actions address the Human Performance and Management Problems. These actions will be tracked and trended through the site's Issues Management Processing System. The deliberate violation was addressed through disciplinary actions administered in accordance with Human Resource policies.

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

1. Initiate an initial Conduct of Operations pause with on-shift A-Crew to address the procedure compliance issue. Pause will be led by Operations Manager and Waste Disposal Manager. This action was completed on 5/6/13.
This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 05/06/2013	**Tracking ID:** ACT13-087-2

2. Conduct a second Conduct of Operations pause with all Waste Disposal crews (Contact Handling (CH) A and B Crews and Remote Handling (RH) Crew). This pause will be led by the Waste Disposal Manager, followed by the Operations Manager, Project Manager and Carlsbad Field Office (CBFO). This action was completed on 5/8/13.
This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 05/08/2013	**Tracking ID:** ACT13-087-3

3. Operations and Human Resources (HR) management will conduct an Event Investigation. The investigation will include interviews with all personnel involved individually through two rounds of interviews.
Note: Prior to additional interviews and investigation, an individual came forward and admitted to procedural non-compliance. This action was completed on 5/7/13.
This corrective action addresses cause code A3B4C02.

Target Completion Date: 05/07/2013	**Tracking ID:** ACT13-087-4

4. Conduct a Root Cause Analysis.
This action was completed on 6/20/13.
This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 06/20/2013	**Tracking ID:** ACT13-087-5

5. Issue a WIPP Hot Topic communication to all employees describing the event and emphasizing procedural compliance expectations. This action was completed on 5/7/13.
This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 05/07/2013	**Tracking ID:** ACT13-087-6

6. Project Manager will issue a letter to all WIPP managers emphasizing expectations on procedural compliance. This action was completed on 5/8/13.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 05/08/2013	**Tracking ID:** ACT13-087-7

7. Provide information in the Hot Topic and Project Manager's letter to all employees through the WIPP's Barrier Busters (floor level employee-driven communication).
These actions were completed on 5/17/13.
This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 05/17/2013	**Tracking ID:** ACT13-087-8

8. Operations Manager will include a Conduct of Operations emphasis on procedure compliance in the May Operations' Periodical. This action was completed on 5/29/13.
This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 05/29/2013	**Tracking ID:** ACT13-087-9

9. Operations Manager will present the Zero Tolerance Policy for Procedure Non-Compliance to Operations at the May's First Line Leadership briefings. Two briefings were completed on 5/22/13 and 5/29/13.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 05/29/2013	**Tracking ID:** ACT13-087-10

10. Operations issue CH & RH Senior Supervisory Watch (SSW) and Facility Operation's Rounds. These actions were completed on 5/8/2013 through 5/20/2013.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 05/20/2013	**Tracking ID:** ACT13-087-11

11. Interview CH Waste Disposal first line supervision to evaluate their qualifications, knowledge and capability to safely and compliantly manage the personnel within their purview, and to ascertain any knowledge or tolerance of past unacceptable or improper practices (latent organizational weaknesses). Based on interview evaluation, establish organizational and individual(s) corrective actions. This action was completed on 5/16/2013.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 05/16/2013	**Tracking ID:** ACT13-087-12

12. Interview the remaining first line supervision in Operations to evaluate their qualifications, knowledge and capability to safely and compliantly manage the personnel within their purview, and to ascertain any knowledge or tolerance of past unacceptable or improper practices (latent organizational weaknesses). Based on interview evaluation, establish organizational and individual(s) corrective actions.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 07/31/2013	**Tracking ID:** ACT13-087-13

13. Strengthen the qualifications for the subject matter experts (SMEs) responsible to observe and sign-off employees' qualification cards, for both exempt and non-exempt. In addition, evaluate reducing the number of SME's to a select group to drive consistency. Prerequisite is that SME's must demonstrate proficiency/understanding in ConOps.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 09/30/2013	**Tracking ID:** ACT13-087-14

14. Environment Safety and Health, Central Characterization Program, Business Administration/ Chief Financial Officer and Quality Assurance management will interview their first line managers to ascertain any knowledge or tolerance of past unacceptable or improper practices (latent organizational weaknesses), and their knowledge and capability to safely and compliantly manage the personnel within their purview. Based on interview evaluations, establish organizational and individual(s) corrective actions.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 09/30/2013	**Tracking ID:** ACT13-087-15

15. Establish a communications process for personnel to report latent organizational weaknesses and issues (to include anonymously) using the WIPP Safety Hotline.
This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 07/31/2013	**Tracking ID:** ACT13-087-16

16. Enhance WIPP's Conduct of Operations training and refresher training to include:
- Increased emphasis on procedure adherence;
- Zero tolerance for knowingly and willingly violating procedures;
- Discussion of Latent Organizational Weaknesses and how they can deteriorate Conduct of Operations;
- Stress accuracy and consistency in use of operating/narrative logs;
- Need to submit maintenance Action Requests promptly to drive timely resolution;
- Requirement to include all involved personnel in the debrief and/or critique process to assure their statements and perspectives are acquired; and
- Importance of Scene Preservation.

This corrective action addresses cause codes A3B4C02 and A4B1C01.

Target Completion Date: 09/30/2013	**Tracking ID:** ACT13-087-17

17. Include Scene Preservation discussion in the June 2013 First Line Leadership meetings with Operations Managers.
This corrective action does not address a cause code.

Target Completion Date: 06/30/2013	**Tracking ID:** ACT13-087-18

18. Provide independent Corporate mentors in the field to focus on Conduct of Operations during waste handling, work planning and maintenance execution.
This corrective action addresses cause code A4B1C01.

Target Completion Date: 07/08/2013	**Tracking ID:** ACT13-087-19

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26. Lessons Learned:

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27. Similar Occurrence Report Numbers:

NA--SS-SNL-2000-2009-0007
EM-ID--BBWI-RWMC-2001-0007
SC-OAK--LBL-EHSS-2001-0001

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28. User-defined Field #1:

29. User-defined Field #2:

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30. HQ Keyword(s):

01E--Inadequate Conduct of Operations - Operations Procedure Noncompliance
12B--EH Categories - Conduct of Operations
14E--Quality Assurance - Work Process Deficiency

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31. HQ Summary:

On May 6, 2013, a Nuclear Waste Partnership (NWP) Safety Engineer and NWP Safety Representative were evaluating waste package placement in a waste handling dock located inside of the waste handling bay, when the Safety Engineer noticed an unfolded pocket knife inserted between a dock gate control pushbutton and the metal control pushbutton housing. Approximately ½ inch of the knife tip was wedged between the gate lowering button and pushbutton housing to hold the button in the engaged position. There are two dock gate control pushbuttons used to lower or raise the dock gates, the pushbuttons are a "momentary" type control that requires the operator to depress and hold the button in until the gates come to the complete raise/open or lower/closed position. The Safety Engineer took photographs and required notifications were made.

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32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

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34. Approvals:

Approved by: KENNEDY, SCOTT J., Facility Manager/Designee
Date: 06/20/2013
Telephone No.: (575) 234-8434

Initial Update:	05/09/2013	15:27 (ETZ)
Latest Update:	05/09/2013	15:27 (ETZ)
Final:	05/09/2013	15:27 (ETZ)

3. Significance Category: 4

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: HV06/Bld 458/45-B-408

7. UCNI?: No

8. Plant Area: Security Building

9. Date and Time Discovered: 05/07/2013 09:30 (MTZ)

10. Date and Time Categorized: 05/07/2013 13:09 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
05/07/2013	10:38 (MTZ)	Scott Kennedy	NWP/FM
05/07/2013	10:38 (MTZ)	Wes Bryan	NWP/WCM
05/07/2013	10:30 (MTZ)	Mike Proctor	NWP/FSM
05/07/2013	10:36 (MTZ)	Jeff Knox	NWP/FMD
05/07/2013	10:39 (MTZ)	Ken Padilla	CBFO/FR

13. Subject or Title of Occurrence:

EM-CBFO--NWP-WIPP-2013-0004 NOTIFICATION/FINAL

Occurrence Report

After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office — Nuclear Waste Partnership

(Site) — (Contractor)

Name: KENNEDY, SCOTT J
Title: FACILITY MANAGER — **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE — **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: — **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0004

Vendor failed to follow prescribed hazardous electrical energy control process

2. Report Type and Date: NOTIFICATION/FINAL

	Date	Time
Notification:	05/09/2013	15:27 (ETZ)

Vendor failed to follow prescribed hazardous electrical energy control process

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14. Reporting Criteria:

2E(3) - Any failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout, hazardous energy control program).

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15. Description of Occurrence:

On May 7, 2013, at 0815 hours, vendors arrived at the site to perform work on a Heating, Ventilation and Air Conditions (HVAC) unit. The vendors interfaced with a Security Officer at the gate house and then proceeded to work on the HVAC unit without required oversight by the Nuclear Waste Partnership (NWP) assigned Subcontract Technical Representative (STR). When the STR arrived at the work location and discovered work had commenced prior to approval, work was suspended. A subsequent Debrief was conducted where it was determined that the vendor did not follow the NWP prescribed Hazardous Energy Control Process.

DETAILS:
May 7, 2013
At 0715 hours, Work Control Document 1301320, 45B408 Replace Condenser was scheduled to work at the NWP Plan of the Day scheduling meeting.

At 0815 hours, the vendors (Trane, E&C Trane and Sun City Electrical) arrived at the site to perform work on a Heating, Ventilation and Air Conditions (HVAC) unit. The vendors interfaced with a Security Officer at the gate house and then proceeded to work on the HVAC unit located on the west side of Building 458. This area is outside the WIPP Property Protection Area (defined by the WIPP fence).

At 0930 hours, the STR arrived at the work location and suspended the work and escorted the vendors to the Maintenance Trailer.

At 1030 hours, the STR notified the Central Monitoring Room (CMR) and the Facility Shift Manager (FSM). The FSM secured the suspended work location and took photographs.

At 1038 hours, the Facility Manager (FM) was notified. The FM requested vendor employee statements and scheduled a Debrief at 1200 hours.

At 1200 hours, the Debrief was held.

At 1309 hours, the Debrief revealed that the vendors performed work, without required oversight by the Nuclear Waste Partnership (NWP) assigned Subcontract Technical Representative (STR), which resulted in the vendor executing work that did not follow the NWP prescribed Hazardous Energy Control Process. The FM determined this issue was a reportable occurrence based on that information.

At 1544 hours, the FM entered this issue into the Issues Management system and directed a causal analysis to be performed. A formal Corrective Action Plan will be developed based on the results of the causal analysis.
NOTE: This Significance Category 4 report will be final upon submittal but will be revised to incorporate the identified causes and corrective actions.

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16. Is Subcontractor Involved? Yes

Name: Trane, E&C Trane and Sun City Electrical

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply.

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18. Activity Category:

02 - Maintenance

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19. Immediate Actions Taken and Results:

Work was stopped upon discovery and the vendor(s) escorted to the Maintenance trailer.

The Central Monitoring Room (CMR) and Facility Shift Manager (FSM) were notified.

The FSM secured and photographed the scene.

The FSM notified the Facility Manager, Facility Manager Designee and the DOE Facility Representative.

A Debrief was scheduled and conducted at 1200 hours.

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20. ISM:

3) Develop and Implement Hazard Controls
4) Perform Work Within Controls
5) Provide Feedback and Continuous Improvement

21. Cause Code(s):

22. Description of Cause:

23. Evaluation (by Facility Manager/Designee):

24. Is Further Evaluation Required?: No

25. Corrective Actions
Local Tracking System Name: IMPS

26. Lessons Learned:

27. Similar Occurrence Report Numbers:

EM-CBFO--WTS-WIPP-2012-0011
EM-CBFO--WTS-WIPP-2012-0005
EM-CBFO--WTS-WIPP-2012-0004

28. User-defined Field #1:

29. User-defined Field #2:

30. HQ Keyword(s):

31. HQ Summary:

32. DOE Facility Representative Input:

33. DOE Program Manager Input:

EM-CBFO--NWP-WIPP-2013-0005 NOTIFICATION/FINAL

Occurrence Report

After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office Nuclear Waste Partnership

(Site) (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0005

Failure to follow prescribed hazardous electrical energy control process - Fire Panel

2. Report Type and Date: NOTIFICATION/FINAL

	Date	Time
Notification:	05/14/2013	16:43 (ETZ)

Initial Update:	05/14/2013	16:43 (ETZ)
Latest Update:	05/14/2013	16:43 (ETZ)
Final:	05/14/2013	16:43 (ETZ)

3. Significance Category: 4

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: FP03/474C/474C-FP-096-01

7. UCNI?: No

8. Plant Area: Haz Mat Area

9. Date and Time Discovered: 05/09/2013 11:30 (MTZ)

10. Date and Time Categorized: 05/10/2013 19:15 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
05/09/2013	13:32 (MTZ)	Jeff Knox	NWP/FMD
05/09/2013	13:32 (MTZ)	Ken Padilla	CBFO/FR
05/09/2013	11:30 (MTZ)	Dale Parrish	NWP/FOM
05/09/2013	13:30 (MTZ)	Scott Kennedy	NWP/FM

13. Subject or Title of Occurrence:

Failure to follow prescribed hazardous electrical energy control process - Fire Panel

Initial Update:	07/11/2013	16:47 (ETZ)
Latest Update:	07/11/2013	16:47 (ETZ)
Final:	07/11/2013	16:47 (ETZ)

3. Significance Category: 3

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: 534/Underground office/bulkhead

7. UCNI?: No

8. Plant Area: Underground

9. Date and Time Discovered: 05/30/2013 14:50 (MTZ)

10. Date and Time Categorized: 05/30/2013 15:28 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
05/30/2013	15:18 (MTZ)	Erin Preciado	CBFO/FR
05/30/2013	14:50 (MTZ)	Joe Bealler	NWP/FSM
05/30/2013	15:11 (MTZ)	Jeff Knox	NWP/FMD
05/30/2013	15:12 (MTZ)	Scott Kennedy	NWP/FM

13. Subject or Title of Occurrence:

Receptacle connection penetrated by a self-tapping screw

EM-CBFO--NWP-WIPP-2013-0006 FINAL

Occurrence Report
After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office Nuclear Waste Partnership

(Site) (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0006

Receptacle connection penetrated by a self-tapping screw

2. Report Type and Date: FINAL

	Date	Time
Notification:	06/03/2013	18:06 (ETZ)

26. Lessons Learned:

Verbatim compliance with approved Work Control Documents and procedures is essential to ensure that critical steps/actions are not missed, worker safety is not compromised, and plant equipment is properly maintained.

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27. Similar Occurrence Report Numbers:

EM-CBFO--NWP-WIPP-2013-0004
EM-CBFO--WTS-WIPP-2012-0011
EM-CBFO--WTS-WIPP-2012-0005

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28. User-defined Field #1:

29. User-defined Field #2:

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30. HQ Keyword(s):

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31. IIQ Summary:

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32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

5/9/13:
- Issue was discovered during work order review and close-out process.
- Notified NWP management and CBFO FR.
- Performed document review and interviewed (on-shift) employees involved in the event. Note: Some employees involved were not on-shift when the issue was discovered and had to be interviewed when they returned on 5/10/13.
- A critique was scheduled for 5/10/2013 to assure involved personnel were present.

5/10/13:
- Conducted Critique at 0900 hours.
- Categorized event at 1915 hours.
- As part of the initial evaluation, a number of previous Fire Panel PMs were reviewed. There was no indication of LOTO not being performed on those reviewed.

5/11/13:
- Initiated a LOTO Safety Pause. All scheduled operating groups performing LOTO conducted a safety pause with on-shift personnel and will follow-up with other oncoming shifts.

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20. ISM:

4) Perform Work Within Controls

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21. Cause Code(s):

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22. Description of Cause:

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23. Evaluation (by Facility Manager/Designee):

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

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14. Reporting Criteria:

2E(3) - Any failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout, hazardous energy control program).

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15. Description of Occurrence:

On April 25, 2013, Maintenance personnel performed annual Fire Panel Preventive Maintenance (PM) activities in Building 474C without implementing the required lockout/tagout (LOTO). On May 9, 2013, during the work package review and closure process, a Work Control employee identified missing LOTO information in the PM work order. Initially the issue was thought to be a missing LOTO record, as the LOTO was not entered in the Facility Operations (Fac Ops) Tagout Index. The Work Control employee contacted the Fac Ops Manager to assist in locating the missing record. The LOTO Control Sheet and the prepared DANGER tag, to support implementation of PM work order, were located and indicated that the LOTO had not been authorized.

A Causal Analysis will be conducted and a Corrective Action Plan will be developed based on the results of the Causal Analysis. This final report will be revised after Causes and corrective actions have been identified.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply.

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18. Activity Category:

02 - Maintenance

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19. Immediate Actions Taken and Results:

4/25/13:
- Issue occurred.

14. Reporting Criteria:

2E(2) - Any unexpected discovery of an uncontrolled electrical hazardous energy source (e.g., live electrical power circuit, etc.). This criterion does not include discoveries made by zero-energy checks and other precautionary investigations made before work is authorized to begin.

15. Description of Occurrence:

On May 30, 2013, at approximately 1430 hours, underground maintenance technicians were installing a condensate discharge pan assembly underneath a through-the-wall mounted air conditioner located in an underground bulkhead. The technicians were using four self-tapping screws to secure the frame of the drip pan assembly onto the sheet metal outside the bulkhead using a battery operated drill. When the third screw was being installed it penetrated a strain relief connector attached to a 110 volt electrical outlet (i.e. duplex) located on the inside of the bulkhead. A pop was heard and a circuit breaker tripped. Prior to the installation, the technicians had not inspected the inside of the bulkhead to see what could be affected when the screws penetrated the sheet metal bulkhead.

No personnel came in contact with hazardous energy or sustained injury.

A Root Cause Analysis will be conducted.

DETAILS:
On 5/30/13, at approximately 1130 hours, an Operations Safety professional noted a concern with a condensate discharge from a wall mounted air conditioner located outside the Mining Managers' office area. The Mining Manager's office area is located in the underground inside a mined out area with a sheet metal bulkhead across the mined out end. The condensate had dripped on an electrical junction box located below the air conditioner. The Safety professional spoke with the Repository Projects Manager and suggested that a condensate discharge/drip pan be installed under the air conditioning unit to direct the condensate away from the junction box.
The Repository Projects Manager asked the Maintenance Engineer (ME) to prepare a Work Control Document (WCD) to fabricate a drip pan and informed a Mining Manager (MM) of the plan. The ME prepared a Fix-it-Now (shop work) WCD to fabricate a drip pan. The MM contacted one of the technicians that typically fabricate and install bulkheads and together they evaluated the air conditioner installation and discussed fabrication of a drip pan.
The Fix-it-Now WCD was completed and two technicians were assigned to commence work in the shop to fabricate the drip pan. Fabrication of the pan was completed at approximately 1400 hours. Based on verbal instruction from the ME, the technicians believed that the work scope also included installation of the drip pan and transported the pan assembly to the bulkhead. The MM intended the work to be limited to fabricating the condendsate discharge pan assembly but had not made this clear to the technicians. The MM hadn't expected the technicians to complete the fabrication so quickly and assumed they would

stop work after completing the fabrication.
When the incident occurred, the ME, MM and the Repository Projects Manager were inside the Mine Manager's office. The ME and Repository Projects Manager were reviewing the Work Control procedure (WP 10-WC3011) and discussing what the next step in the drip pan installation process would be. They recognized that Fix-it-Now WCD was limited to shop work fabrication and that the installation process would require an Expedited WCD.
At approximately 1430 hours, the maintenance technicians arrived at the bulkhead and began the installation by positioning the drip pan assembly under the air conditioner (outside the bulkhead) and then began fastening the assembly using the four self-tapping screws. A battery operated drill was used to set the screws through the frame of the drip pan assembly and into the sheet metal of the bulkhead. The maintenance technicians had not inspected the inside of the bulkhead/Mining Manager's office prior to installation to see what would be affected when the self-tapping screws penetrated the bulkhead.
The first two screws were installed without incident. When the third screw was being installed it penetrated the sheet metal bulkhead and a strain relief connector attached to a 110 volt electrical outlet (i. e. duplex) located on the inside of the bulkhead. A pop was heard and a circuit breaker tripped. The MM came out of the Mining Manager's office area and stopped the installation.
The electrical outlet circuit was locked and tagged out of service. Required notifications were made.
At 1541 hours, the Mining Operations Manager conducted a Debrief.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply

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18. Activity Category:

02 - Maintenance

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19. Immediate Actions Taken and Results:

Work was stopped.

Performed a lockout/tagout on the affected system.

Required notifications were made to the Central Monitoring Room, Facility Shift Manager, Facility Manager and Facility Representative.

A Debrief was conducted.

Developed a WIPP Initial Notification Report (WINR) and sent to applicable Carlsbad Field Office (CBFO) and Nuclear Waste Partnership (NWP)management.

Entered the occurrence into the WIPP Issues Management process.

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20. ISM:

1) Define the Scope of Work
2) Analyze the Hazards
3) Develop and Implement Hazard Controls
4) Perform Work Within Controls
5) Provide Feedback and Continuous Improvement

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21. Cause Code(s):

A1B3C01 - Design/Engineering Problem; Design / documentation LTA; Design/documentation not complete
A3B1C01 - Human Performance Less Than Adequate (LTA); Skill Based Errors; Check of work was LTA
--->couplet - A4B1C01 - Management Problem; Management Methods Less Than Adequate (LTA); Management policy guidance / expectations not well-defined, understood or enforced
--->couplet - A4B4C01 - Management Problem; Supervisory Methods LTA; Tasks and individual accountability not made clear to worker
A4B1C04 - Management Problem; Management Methods Less Than Adequate (LTA); Management follow-up or monitoring of activities did not identify problems
A4B3C06 - Management Problem; Work Organization & Planning LTA; Planning not coordinated with inputs from walkdowns/task analysis
A4B3C11 - Management Problem; Work Organization & Planning LTA; Inadequate work package preparation
A5B4C01 - Communications Less Than Adequate (LTA); Verbal Communications LTA; Communication between work groups LTA
A6B1C02 - Training deficiency; No Training Provided; Training requirements not identified
A6B1C03 - Training deficiency; No Training Provided; Work incorrectly considered "skill-of-the-craft"

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22. Description of Cause:

A1.B3.C01 Design/Engineering Problem: Design/Documentation Less Than Adequate – Design/ documentation not complete less than adequate. Measurements were taken to fabricate a drain pan;

however, no analysis or validation of the design was completed. Fabrication was completed without a sketch. Technician 1 decided to screw the drain pan into the bulkhead wall, but the Maintenance Engineer had considered hanging the drain pan from the Air Conditioning unit with chains.
This cause code is addressed by corrective action 6.

A3.B1.C01 Human Performance Less Than Adequate: Skill Based Error – Check of work was less than adequate. Even though a design or work package was not completed for use by the technicians, they should have evaluated the work area before completing blind penetrations to the bulkhead. Additionally, after work was stopped following the circuit breaker tripping, the drain pan was taken down and then reinstalled.
This cause code is addressed by corrective action 7.

A4.B1.C01 Management Problem: Management Methods Less Than Adequate – Management policy guidance/expectations not well-defined, understood or enforced. Technicians 1 and 2 were verbally authorized to conduct work without having a completed Fix-It-Now work package completed.
This cause code is addressed by corrective actions 1, 2, 3, 8, 10 and 12.

A4.B1.C04 Management Problem: Management Methods Less Than Adequate – Management follow-up or monitoring of activities did not identify problems. Technicians 1 and 2 were verbally released to fabricate a drain pan, but felt there was authorization also for installation.
This cause code is addressed by corrective action 9.

A4.B3.C06 Management Problem: Work Organization & Planning Less Than Adequate – Planning not coordinated with inputs from walk-downs/task analysis. Technicians 1 and 2 were verbally authorized to conduct shop work without a completed Fix-It-Now work package. A completed Fix-It-Now package would have included a task preview/pre-job briefing that should have identified the hazard associated with blind penetrations into the bulkhead.
This cause code is addressed by corrective actions 6, 7, 10 and 11.

A4.B3.C11 Management Problem: Work Organization & Planning Less Than Adequate – Inadequate work package preparation. Work was verbally authorized and released without a completed Fix-It-Now package in place. On the draft package, the scope of the project was inadequate stating only, "Use of Shop Equipment (Drain Pan for AC)."
This cause code is addressed by corrective action 9.

A4.B4.C01 Management Problem: Supervisory Methods Less Than Adequate – Tasks and individual accountability not made clear to worker. Technician 1 felt he had authorization from the Mining Manager to not only fabricate but also to install the drain pan, all without an approved work document. Additionally, Technician 2 was asked by Technician 1 to help with the installation and assumed that all proper paperwork was in place.
This cause code is addressed by corrective actions 2 and 10.

A5.B4.C01 Communication Less Than Adequate: Verbal Communication Less Than Adequate – communication between work groups less than adequate. Management instructions to craft personnel did

not convey the scope of work to be accomplished. If the management expectation was that only fabrication of the drain pan was authorized, craft personnel did not understand that direction. Following the tripping of the circuit breaker and the stop work, craft personnel unscrewed the drain pan from the bulkhead without direction. When the Mining Manager stated the scene should be preserved, the technicians reinstalled the drain pan.
This cause code is addressed by corrective action 10.

A6.B1.C02 Training Deficiency: No Training Provided – Training requirements not identified. During the personnel interviews, a specific question was asked of each of the interviewees, "Have you been trained/briefed on procedure WIPP Procedure (WP) 10-WC3011, Work Control Process?" The Mining Manager and Maintenance Engineer said they were familiar with the procedure; however, the two craft personnel said they were not familiar with the procedure or the Fix-It-Now process. In either case, the requirements of the procedure were not followed.
This cause code is addressed by corrective actions 2, 3, 4, 12 and 13.

A6.B1.C03 Training Deficiency: No Training Provided – Work incorrectly considered "skill of the craft". By definition, Fix-It-Now which is a subset of Minor Maintenance considers the task to be low hazard, simple, routine, and performed frequently, among other criteria. Neither Technician 1 nor Technician 2 had either fabricated or installed a drain pan in the past. Although the task itself is fairly simple, it is not frequent.
This cause code is addressed by corrective actions 2, 3, 5, 12 and 13.

EXTENT OF CONDITION
During interviews as part of this investigation, craft personnel indicated there is general confusion about when a completed work control document, whether complete work package for Type 1, 2, or 3 Work; or a Fix-It-Now package, must be completed before work is initiated. This particular work scope was initiated without a completed package. Even though a Cognizant Operations Manager (COM) release is not required for a Fix-It-Now package, the Work Release Authority Matrix in WIPP Procedure 10-WC3011, exempts the approval, "...provided scope has been clearly defined and bounded; hazards have been analyzed for the identified activities."
Craft personnel stated they are conducting other work scope in the Underground Welding Shop without paper work in place. One of the tasks is cutting up bulkheads.

INVESTIGATION and ANALYSIS METHODOLOGY
Investigation was performed using WIPP Procedure (WP) 15-MD3102, Event Investigation and WP04-IM1000, Issues Management Processing.
Root and Apparent causal analysis/methodology described in WP13-GM1001, Root Cause Analysis; WP15-PA.02, Cause Analysis Guidance; Barrier analysis, Missed Opportunity Matrix, and the DOE Causal Analysis Tree, as described in DOE O 232.2, Occurrence Reporting and Processing of Operations Information, Attachment 5 were used to determine causes and corrective actions for this event.

ISM SUMMARY
ISM Code 1, Define the Scope of Work – Scope of work was verbalized and not defined in a written

work package.
ISM Code 2, Analyze the Hazards – Work package was not developed to identify hazards. Technicians did not evaluate work area for hazards prior to commencing work.
ISM Code 3, Develop and Implement Hazard Controls – Work Control procedure did not clearly identify levels of work. Work package was not written prior to commencing work.
ISM Code 4, Perform Work within Controls – Mining Manager, Maintenance Engineer and Technicians did not follow the work control process which would have identified controls within the work package versus inadequate verbal instructions.
ISM Code 5, Provide Feedback and Continuous Improvement – The Root Cause Analysis (RCA) determined that communication and enforcement of performance expectations from management to workers was less than adequate.

HUMAN PERFORMANCE IMPROVEMENT (HPI) ANALYSIS
Was the behavior intended? YES
- The Mining Manager (MM) felt that he was authorized to release Technician 1 to fabricate the drain pan without the Fix-It-Now package being completed based on his knowledge of WIPP Procedure (WP) 10-WC3011.
- Technician 1 felt he was authorized by the MM to fabricate and install the drain pan.
- Technician 2 felt he would not have been asked to help install the drain pan if all paper work was not in place, even though there was no task preview/pre-job briefing.
Were the consequences intended? NO
- Even without a completed Fix-It-Now package that would have included a task preview/pre-job briefing, Technician 1 and Technician 2 did not inspect the area of the installation of the drain pan before making blind penetrations into the bulkhead.
Employee Impaired? NO
- There is no indication that any of the personnel involved in this event were impaired.
Did Employee Violate Requirements? YES
- The MM verbally released craft personnel to conduct work without a completed Fix-It-Now package which would have included a task preview/pre-job briefing.
- Technician 1 and Technician 2 conducted work without an approved Fix-It-Now package which would have included a task preview/pre-job briefing.
- Following the MM calling for a stop work, the drain pan was taken down and then reinstalled by craft personnel for scene preservation with direction from the MM.
Were the Requirements Known and Accurate? NO
- During interviews with Technician 1 and Technician 2, they stated they were not familiar with WP 10-WC3011 which includes a responsibility for Implementing Work Group Worker/Craft, which includes, "Participates in a pre-job brief and does not perform work until properly briefed and the scope of work and hazard control strategies are clearly understood."
- The MM verbally released the craft personnel to work on the drain pan without a completed Fix-It-Now package, which would have included a task preview/pre-job briefing. The MM thought he was authorized by WP 10-WC3011 to release the work.
- Requirements for stop work are taught to all employees as part of Conduct of Operations and in General Employee Training; however, the drain pan was taken down and reinstalled after the work was

stopped.
Organizational Weakness
- A method of ensuring all personnel working to WP 10-WC3011 had a complete and accurate understanding/knowledge/training to prepare/conduct Fix-It-Now packages was not in place.
- Corrective actions or lessons learned from previous similar events were not communicated or addressed to a breadth that may have prevented this event.

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23. Evaluation (by Facility Manager/Designee):

FINAL 7/10/13 - The Root Cause Analysis report was issued on 7/3/13. The Corrective Action Plan was approved and issued on 7/9/13. Causes and associated corrective actions have been incorporated into this report.

The following missed opportunities were identified during the investigation and Root Cause Analysis that would have prevented this occurrence:
- A written work package was not completed before the work was initiated which would have required a task preview, pre-job briefing and area walk down.
- Neither Technician involved in the occurrence had performed this type of work.
- If an appropriate work package had been developed and the steps followed as written, the occurrence would have been prevented.
- The Mining Manager (MM) was assisting in an area he was unfamiliar with. The MM had been working in the fabrication shops for the last couple of years and was unfamiliar with new work control processes.
- Technicians did not conduct a work area inspection prior to making blind penetrations.

The corrective actions will adequately address the causes and missed opportunities identified in this report.

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

1. Require that all Mining Department Fix-It-Now, Minor Maintenance, and Expedited Work Control Documents that are issued to the field include a second-level check at the point of release by a manager above the first line manager level for a period of time determined by Operation's management.
This corrective action addresses cause code A4.B1.C01.

Target Completion Date: 08/13/2013	**Tracking ID:** ACT13-100-2

2. First line Mining Department managers perform a Monitored Operational Evolution (MOE) assessing compliance of their crews with WIPP Procedure (WP) 10-WC3011, Work Control Process. This action has been completed in-the-field and is ready to be processed.
This corrective action addresses cause codes A4.B1.C01, A4B4C01, A6B1C02 and A6B1C03.

Target Completion Date: 07/31/2013	**Tracking ID:** ACT13-100-3

3. Operations Department conduct a Self-Assessment reviewing WP 10-WC3011, Work Control Process, compliance in potentially isolated sub-organizations such as fabrication shops, maintenance shops, Environmental and Geotechnical support, and Science and Experimental support to examine adequacy of training and extent of condition. As appropriate, identify corrective action(s) to address any findings.
This corrective action addresses cause codes A4.B1.C01, A6B1C02 and A6B1C03.

Target Completion Date: 09/08/2013	**Tracking ID:** ACT13-100-4

4. Provide supplemental briefings on WP 10-WC3011, Work Control Process, requirements to Mining Department supervisors and crews. The topic is Work Control Governing Documents, where to find them and, in general what they contain. This corrective action addresses cause code A6.B1.C02.

Target Completion Date: 07/26/2013	**Tracking ID:** ACT13-100-5

5. Provide supplemental briefings on WP 10-WC3011, Work Control Process, requirements to Mining Department supervisors and crews. The topic is Requirements Associated with the Various Types of Work Control Documents.
This corrective action addresses cause code A6.B1.C03.

Target Completion Date: 08/03/2013	**Tracking ID:** ACT13-100-6

6. Provide supplemental briefings on WP 10-WC3011, Work Control Process, requirements to Mining Department supervisors and crews. The topic is Appropriate Use of Task Analysis, Design, or Sketches to Identify Work Scope.
This corrective action addresses cause codes A1.B3.C01 and A4.B3.C06.

Target Completion Date: 08/10/2013	**Tracking ID:** ACT13-100-7

7. Provide supplemental briefings on WP 10-WC3011, Work Control Process, requirements to Mining Department supervisors and crews. The topic is Walk-Down and Workability Review Requirements Prior to Starting Work.
This corrective action addresses cause codes A3.B1.C01 and A4.B3.C06.

Target Completion Date: 08/17/2013	**Tracking ID:** ACT13-100-8

8. Provide supplemental briefings on WP 10-WC3011, Work Control Process, requirements to Mining Department supervisors and crews. The topic is Work Authorization and Work Release Requirements.
This corrective action addresses cause code A4.B1.C01.

Target Completion Date: 08/24/2013	**Tracking ID:** ACT13-100-9

9. Provide supplemental briefings on WP 10-WC3011, Work Control Process, requirements to Mining Department supervisors and crews. The topic is Scope and Work Boundary Definition and Stop Work Emphasis if Work Control Documents cannot be executed as planned or written.
This corrective action addresses cause codes A4.B1.C04 and A4.B3.C11.

Target Completion Date: 08/31/2013	**Tracking ID:** ACT13-100-10

10. Provide supplemental briefings on WP 10-WC3011, Work Control Process, requirements to Mining Department supervisors and crews. The topic is Task Preview and Pre-job Briefing Requirements as contained in WP 04-AD3030, Pre-Job and Post-Job Reviews.
This corrective action addresses cause codes A4.B1.C01, A4.B3.C06, A4.B4.C01 and A5.B4.C01.

Target Completion Date: 09/07/2013	**Tracking ID:** ACT13-100-11

11. Safety and Health Department evaluate and implement a permit process for blind penetrations.
This corrective action addresses cause code A4B3C06.

Target Completion Date: 10/08/2013	**Tracking ID:** ACT13-100-12

12. Rewrite/streamline the Work Control process to more clearly show levels of work.
This corrective action addresses cause codes A4B1C01, A6B1C02 and A6B1C03.

Target Completion Date: 08/31/2013	**Tracking ID:** ACT13-100-13

13. Develop/provide training to all affected groups on process changes resulting from rewriting/streamlining the Work Control process.
This corrective action addresses cause codes A6B1C02 and A6B1C03.

Target Completion Date: 10/31/2013	**Tracking ID:** ACT13-100-14

26. Lessons Learned:

27. Similar Occurrence Report Numbers:

SC-ORO--ORNL-10WEST-2009-0009
NA--PS-BWP-PANTEX-2012-0048
SC-ORO--ORNL-X10CHRIDGE-2012-0001

28. User-defined Field #1:

29. User-defined Field #2:

30. HQ Keyword(s):

01A--Inadequate Conduct of Operations - Inadequate Conduct of Operations (miscellaneous)
01O--Inadequate Conduct of Operations - Inadequate Maintenance
01P--Inadequate Conduct of Operations - Inadequate Oral Communication
07D--Electrical Systems - Electrical Wiring
08J--OSHA Reportable/Industrial Hygiene - Near Miss (Electrical)
12B--EH Categories - Conduct of Operations
14E--Quality Assurance - Work Process Deficiency

31. HQ Summary:

On May 30, 2013, underground maintenance technicians were installing a condensate discharge pan assembly underneath a through-the-wall mounted air conditioner located in an underground bulkhead and a self-tapping screw accidentally penetrated a strain relief connector attached to a 110 volt electrical outlet (i.e. duplex) located on the inside of the bulkhead. They heard a pop and a circuit breaker tripped. Prior to the installation, the technicians had not inspected the inside of the bulkhead to see what could be affected when the screws penetrated the sheet metal bulkhead. No personnel came in contact with hazardous energy or sustained injury. A root cause analysis will be conducted.

32. DOE Facility Representative Input:

33. DOE Program Manager Input:

34. Approvals:

Approved by: KENNEDY, SCOTT J., Facility Manager/Designee

Date: 07/11/2013

Telephone No.: (575) 234-8434

EM-CBFO--NWP-WIPP-2013-0007 FINAL

Occurrence Report

After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office Nuclear Waste Partnership

(Site) (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0007

Incorrect O-rings installed on port plugs, TRUPACT-II, Unit 164 & Unit 174

2. Report Type and Date: FINAL

	Date	Time
Notification:	06/05/2013	18:00 (ETZ)

Initial Update:	06/14/2013	10:30 (ETZ)
Latest Update:	07/18/2013	18:59 (ETZ)
Final:	07/18/2013	18:59 (ETZ)

3. Significance Category: 3

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: Packaging/TRUPACT-II/Unit 164 & Unit 174

7. UCNI?: No

8. Plant Area: N/A

9. Date and Time Discovered: 06/03/2013 09:30 (MTZ)

10. Date and Time Categorized: 06/03/2013 10:58 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
06/03/2013	09:31 (MTZ)	Jeff Knox	NWP/FMD
06/04/2013	10:10 (MTZ)	Lina Pachedo	CBFO/FR
06/04/2013	10:07 (MTZ)	Erin Preciado	CBFO/FR
06/03/2013	10:40 (MTZ)	Lina Pacheco	CBFO/FR
06/04/2013	09:33 (MTZ)	Hardy Bellows	NWP/FM
06/03/2013	09:30 (MTZ)	Paul Paneral	NWP/FSM
06/03/2013	10:11 (MTZ)	Hardy Bellows	NWP/FM

06/04/2013	09:33 (MTZ)	Paul Paneral	NWP/FSM
06/04/2013	09:33 (MTZ)	Jeff Knox	NWP/FMD

13. Subject or Title of Occurrence:

Incorrect O-rings installed on port plugs, TRUPACT-II, Unit 164 & Unit 174

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14. Reporting Criteria:

8(2) - Any deviation that would require a written report to the Nuclear Regulatory Commission (per 10 CFR Section 71.95) or to DOE HCO/NNSA CO (per DOE O 460.1C or DOE O 461.1B), namely:
a) Instance in which there is a significant reduction in the effectiveness (as defined by the certificate holder) of any approved fissile or Type B packaging during use.
b) Discovery of a defect with safety significance (as determined by the certificate holder) in a fissile or Type B packaging, after first use (by any shipper).
c) Instance in which the conditions of approval in the Certificate of Compliance (or equivalent) were not performed in making a shipment.

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15. Description of Occurrence:

On June 3, 2013, at 0930 hours, and on June 4, 2013 at 0933 hours, the WIPP Transportation Packaging Manager notified the Facility Shift Manager (FSM) that incorrect O-rings installed on TRUPACT-II Unit 164 and Unit 174 respectively, were not compliant with the Nuclear Regulatory Commission (NRC) issued Certificate of Compliance (71-9218, Revision 20) for radioactive material packages and that Unit 164 & Unit 174 had been used to make radioactive shipments.
Note: TRUPACT-II, both Unit 164 and Unit 174 had passed the required leak test prior to shipment. Neither O-rings were credited as containment boundaries. There was no release, Permit violation or injury as a result of these NRC noncompliances.

TRUPACT-II Unit 164 DETAILS:
On June 1, 2013, during waste handling processing, at the Waste Isolation Pilot Plant (WIPP), of a loaded waste shipment from Idaho National Laboratory (INL), an Inner Containment Vessel (ICV) Seal Test Port Plug O-ring was found to be damaged on TRUPACT-II Unit 164. When replacing the damaged O-ring, it was discovered that this O-ring and the O-ring on the ICV Inner Vent Port Plug were of incorrect size. The ICV Seal Test Port Plug O-ring was installed on the ICV Inner Vent Port Plug and vise-versa. The O-rings were replaced with correct O-rings, via approved work instructions, and the unit continued to be processed.

On June 3, 2013, at approximately 0930 hours, an NRC screen was performed to determine if the incorrect O-rings were compliant with the NRC issued Certificate of Compliance when the waste

shipment was made. The NRC screen identified that the O-rings were not compliant during shipment and that this noncompliance would require a written report to the NRC per 10 CFR Section 71.95. Required notifications were made to WIPP personnel. The Facility Manager categorized the issue based on the results of the NRC screen.

On June 3, 2013, Mobile Loading Unit personnel were notified and instructed to re-verify compliance of O-rings on three in-process shipment, one at LANL and two at INL.

TRUPACT-II Unit 174 DETAILS:
On June 1, 2013, during waste handling processing, at INL, of a loaded waste shipment from ANL, an Inner Containment Vessel (ICV) Seal Test Port Plug O-ring was found to be installed on the ICV Inner Vent Port Plug on TRUPACT-II Unit 174. The O-ring was replaced with correct O-ring, via approved work instructions, and the unit continued to be processed. A Noncompliance Report (NCR), INL-0069-13 was generated documenting the condition.

On June 3, 2013, Transportation Packaging Engineer contacted affected personnel at INL and ANL to discuss the issue. INL and ANL personnel were already aware of the issue and initiated necessary steps to ensure and re-verify that any and all in-process TRUPACT-II units have compliant O-rings installed on corresponding parts.

On June 4, 2013, at approximately 0933 hours, an NRC screen was performed to determine if the incorrect O-rings were compliant with the NRC issued Certificate of Compliance when the waste shipment was made. The NRC screen identified that the O-rings were not compliant during shipment and that this noncompliance would require a written report to the NRC per 10 CFR Section 71.95. Required notifications were made to WIPP personnel. The Facility Manager categorized the issue based on the results of the NRC screen. Development of a WIPP Form (Issues Management) was initiated to track the required NRC and occurrence reporting actions.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply

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18. Activity Category:

10 - Inspection/Monitoring

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19. Immediate Actions Taken and Results:

For TRUPACT-II Unit 164:
Replaced O-rings in Unit 164 per written work instructions.

Performed Nuclear Regulatory Commission screen.

Made appropriate notifications to Carlsbad Field Office (CBFO) and Nuclear Waste Partnership (NWP) personnel.

Developed and submitted a WIPP Form (13-101) into the Issues Management Processing System.

Contacted responsible personnel at Los Alamos National Laboratory and Idaho National Laboratory to re-verify that any and all in-process units have compliant O-rings.

For TRUPACT-II Unit 174:
Replaced O-ring in Unit 174 per written work instructions.

Performed Nuclear Regulatory Commission screen.

Made appropriate notifications to Carlsbad Field Office (CBFO) and Nuclear Waste Partnership (NWP), personnel.

Developed and submitted a WIPP Form (13-102) into the Issues Management Processing System.

Contacted responsible personnel at affected facilities to ensure actions were taken to re-verify that any and all in-process units have compliant O-rings.

Generated Noncompliance Report (NCR), INL-0069, to document the condition.

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20. ISM:

3) Develop and Implement Hazard Controls
4) Perform Work Within Controls
5) Provide Feedback and Continuous Improvement

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21. Cause Code(s):

A5B2C04 - Communications Less Than Adequate (LTA); Written Communication Content LTA; Equipment identification LTA
A4B1C09 - Management Problem; Management Methods Less Than Adequate (LTA); Corrective action for previously identified problem or event was not adequate to prevent recurrence

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22. Description of Cause:

A5B2C04, Equipment Identification Less Than Adequate – TRUPACT- II operators are unable to reliably differentiate the between the two types of O-rings once they are removed from their identifying packages. The O-ring packages are clearly marked with part description and part number, however, the O-rings themselves are not individually marked to indicate any differences. DOE/CBFO 02-3183, CH Packaging Program Guidance and DOE/CBFO 02-3184, CH Packaging Operations Manual provide operational requirements for preparing waste packages for shipment. During performance of these procedures, each O-ring is removed, inspected, and re-installed. The removed components are placed on a shadow board which provides segregation of the parts and a visual reference for size. There is no other in-process method for personnel to independently determine the identity of an O-ring once it has been removed from the original packaging.
This cause is addressed by corrective action 1.

A4B1C09, Corrective actions for previously identified problem or event was not adequate to prevent recurrence – Implementation of the improved shadow board was not effective in identifying that the units had the wrong O-rings installed prior to shipment.
Causal Factor 1 – It was identified that if the smaller O-ring has been installed in place of the larger O-ring, when the small O-ring is removed from the plug it can fit in the shadow board groove intended for the larger O-ring and will maintain that dimension for up to 10 minutes.
This cause is addressed by corrective actions 2, 3, 4 and 5.
Causal Factor 2 – The training on the improved shadow boards was not effective in that it did not communicate the expectation that "all" components would be placed on the shadow boards at the same time" for visual comparison.
This cause is addressed by corrective actions 2, 3, 4 and 5.

EXTENT OF CONDITION
Analysis of this event indicated that the error precursors for this Root Cause exist at both WIPP and at generator sites, where TRUPACT-II Waste Packages are processed. Waste handling at generator sites is performed in accordance with DOE/WIPP-02-3183 and DOE/WIPP-02-3184. At WIPP, TRUPACT-II waste packages are prepared for empty shipment to the waste generator sites in accordance with technical procedure WP 05-WH1015, Preparation of CH Packaging for Empty Shipment which implements the DOE requirements.

INVESTIGATION and ANALYSIS METHODOLOGY
Investigation was performed using WIPP Procedure (WP) 15-MD3102, Event Investigation and WP04-IM1000, Issues Management Processing. Root and Apparent causal analysis/methodology described in WP13-GM1001, Root Cause Analysis; WP15-PA.02, Cause Analysis Guidance; WHY analysis, Missed Opportunity Matrix, and the DOE Causal Analysis Tree, as described in DOE O 232.2, Occurrence Reporting and Processing of Operations Information, Attachment 5 were used to determine causes and corrective actions for this event.

ISM SUMMARY

ISM Code 3, Develop and Implement Hazard Controls – The use of shadow boards as a control were not completely effective as a stand alone control.
ISM Code 4, Perform Work within Controls – Operators were unable to reliably differentiate between the two O-rings.
ISM Code 5, Provide Feedback and Continuous Improvement – Management did not communicate the expectation that all components would be placed on the shadow board at the same time for visual comparison. Operators did not identify the difficulty in using shadow boards or visually inspecting damaged O-rings.

HUMAN PERFORMANCE IMPROVEMENT (HPI) ANALYSIS
Processing waste shipments is a complex operation requiring multiple interfaces of skilled personnel, equipment, and management. This creates error likely situations that are mitigated by multiple tiers of controls (defense-in-depth) that are designed to help limit the likelihood of error or to identify errors before they result in a noncompliant condition. HPI analysis of this event indicated missed opportunities that could have mitigated the error precursors or identified the error prior to shipping a noncompliant package.
HPI analysis identified that a key error precursor common to these events is the two types of O-rings are of a similar size, are not uniquely marked, and are not visually discernible. Because of the similarities between the O-rings, the processes for operators to positively identify the O-rings for Vent Port Plugs and Seal Test Port Plugs have not been effective for all operators. The O-rings are of similar diameter and cross-sectional diameter and are not uniquely marked except for the package labeling. When separated, it is virtually impossible to visually tell them apart without the use of a dimensional measurement or other operator aid; thus, if an error occurs during removal, inspection, or installation of these O-rings, either at WIPP or a generator site, the error is not likely to be identified.

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23. Evaluation (by Facility Manager/Designee):

UPDATE 6/14/13 - Deleted the following statement from the Description of Occurrence section because the date was incorrect and the remaining text was redundant: On June 1, 2013, the Transportation Packaging Engineer notified Idaho National Laboratory personnel of the issue and instructed them to take the necessary steps to ensure and re-verify that any and all in-process units have compliant O-rings installed on corresponding parts.

FINAL 7/18/13 - The Root Cause Analysis Rport (RCAR) was issued on July 10, 2013. The Corrective Action Plan (CAP) was approved on July 18, 2013. The identified causes and associated corrective actions have been incorporated into this final report.

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24. Is Further Evaluation Required?: No

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25. Corrective Actions

Local Tracking System Name: IMPS

1. Procure and distribute for use to Package users Inner Containment Vessel (ICV) and Outer Containment Vessel (OCV) seal test port plug O-rings that are of a visually different color.
This corrective action addresses cause code A5B2C04.

Target Completion Date: 09/03/2013	**Tracking ID:** ACT13-101-2

2. Revise DOE/CBFO 02-3184, CH Packaging Operations Manual to require a 10 minute minimum time from the removal of all Inner Containment Vessel (ICV) and Outer Containment Vessel (OCV) O-rings that are required to be placed on the shadow board prior to beginning subsequent maintenance and inspection activities for the applicable ICV & OCV O-rings.
This corrective action addresses cause code A4B1C09.

Target Completion Date: 11/18/2013	**Tracking ID:** ACT13-101-3

3. Revise DOE/CBFO 02-3184, CH Packaging Operations Manual to enhance steps for O-ring removal, segregation and identification activities for the Outer Containment Vessel (OCV) and Inner Containment Vessel (ICV) O-rings that are required to be removed and placed on the shadow board during maintenance and inspection activities.
This corrective action addresses cause code A4B1C09.

Target Completion Date: 11/18/2013	**Tracking ID:** ACT13-101-4

4. Ensure that the requirements for removal, segregation and identification of all Inner Containment Vessel (ICV) and Outer Containment Vessel (OCV) O-rings that are required to be placed on the shadow board during maintenance and inspection activities are thoroughly communicated via training to all waste handling personnel qualified under the Central Characterization Program.
This corrective action addresses cause code A4B1C09.

Target Completion Date: 11/27/2013	**Tracking ID:** ACT13-101-5

5. Ensure that the requirements for removal, segregation and identification of all Inner Containment Vessel (ICV) and Outer Containment Vessel (OCV) O-rings that are required to be placed on the shadow board during maintenance and inspection activities are thoroughly communicated via training to all Nuclear Waste Partnership, LLC, waste handling personnel.
This corrective action addresses cause code A4B1C09.

Target Completion Date: 11/27/2013	**Tracking ID:** ACT13-101-6

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26. Lessons Learned:

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27. Similar Occurrence Report Numbers:

EM-CBFO--WTS-WIPP-2012-0013

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28. User-defined Field #1:

29. User-defined Field #2:

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30. HQ Keyword(s):

01S--Inadequate Conduct of Operations - Incorrect/Inadequate Installation
10D--Transportation - Notice of Violation or Noncompliance from local, state or federal agency
11N--Other - Waste Handling Operations
12P--EH Categories - Shipping QA
14E--Quality Assurance - Work Process Deficiency

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31. HQ Summary:

On June 3, 2013, and on June 4, the WIPP Transportation Packaging Manager notified the Facility Shift Manager (FSM) that incorrect O-rings installed on TRUPACT-II Unit 164 and Unit 174 were not compliant with the Nuclear Regulatory Commission issued Certificate of Compliance (71-9218, Revision 20) for radioactive material packages and that Unit 164 & Unit 174 had been used to make radioactive shipments. The O-rings in Unit 164 and Unit 174 were subsequently replaced per written work instructions and responsible personnel at affected facilities were contacted to ensure actions were taken to re-verify that any and all in-process units have compliant O-rings.

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32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

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34. Approvals:

Approved by: KENNEDY, SCOTT J., Facility Manager/Designee
Date: 07/18/2013
Telephone No.: (575) 234-8434

EM-CBFO--NWP-WIPP-2013-0008 NOTIFICATION/FINAL

Occurrence Report

After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office — Nuclear Waste Partnership

(Site) — (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER — **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE — **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: — **Date:**

(Authorized Classifier (AC))

1. **Occurrence Report Number:** EM-CBFO--NWP-WIPP-2013-0008

Failure to folllow prescribed hazardous energy control process

2. **Report Type and Date:** NOTIFICATION/FINAL

	Date	Time
Notification:	07/03/2013	15:05 (ETZ)

Initial Update:	07/03/2013	15:05 (ETZ)
Latest Update:	07/03/2013	15:05 (ETZ)
Final:	07/03/2013	15:05 (ETZ)

3. Significance Category: 4

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: 240/Bld 455/75-C-153

7. UCNI?: No

8. Plant Area: Maintenance Shop

9. Date and Time Discovered: 06/30/2013 14:30 (MTZ)

10. Date and Time Categorized: 07/01/2013 16:18 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
06/30/2013	14:30 (MTZ)	Russ Stroble	NWP/FSM
06/30/2013	14:30 (MTZ)	Scott Kennedy	NWP/FM
06/30/2013	15:15 (MTZ)	Lina Pacheco	CBFO/FR
06/30/2013	14:30 (MTZ)	Dale Parrish	NWP/FOM
06/30/2013	14:55 (MTZ)	Jeff Knox	NWP/FMD

13. Subject or Title of Occurrence:

Failure to folllow prescribed hazardous energy control process

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14. Reporting Criteria:

2F(3) - Any failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout, hazardous energy control program).

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15. Description of Occurrence:

On Sunday, June 30, 2013, while performing the monthly Lockout/Tagout (LOTO) audit, the Nuclear Waste Partnership, LLC (NWP) Facility Shift Manager (FSM) discovered that two Red Tags used in a maintenance evolution on an electric cart were missing. The FSM discovered that the maintenance had been completed and the electric cart had been returned to service but the Red Tags had not been cleared on the LOTO Control Sheet per the requirements of the site's Equipment LOTO procedure (WP04-AD3011). An investigation was initiated.
Personnel involved in the tagout and maintenance activity were not on site so a Debrief was scheduled for the next day to determine if a procedural violation had occurred.
On Monday, July 1, 2013, it was discovered that due to vacation and the holiday, personnel requested to attend the Debrief were not on site and would not return until July 10, 2013. The Debrief was rescheduled and Facility Manager categorized the issue as a reportable occurrence. When the investigation is completed, this report will be updated as necessary.
Note: No personnel were injured or exposed to any hazardous energy.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply

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18. Activity Category:

03 - Normal Operations (other than Activities specifically listed in this Category)

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19. Immediate Actions Taken and Results:

Initiated an investigation to gather associated documentation (work package, log sheets, tags) and

employee statements. Employees involved in the tagout and maintenance were not at the facility during the weekend (Sunday) so a Debrief/Critique schedule was initiated.

Made appropriate notifications to Nuclear Waste Partnership, LLC and Carlsbad Field Office (CBFO) staff.

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20. ISM:

3) Develop and Implement Hazard Controls
4) Perform Work Within Controls

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21. Cause Code(s):

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22. Description of Cause:

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23. Evaluation (by Facility Manager/Designee):

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

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26. Lessons Learned:

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27. Similar Occurrence Report Numbers:

EM-CBFO--WTS-WIPP-2012-0013

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28. User-defined Field #1:

29. User-defined Field #2:

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30. HQ Keyword(s):

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31. HQ Summary:

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32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

EM-CBFO--NWP-WIPP-2013-0009 NOTIFICATION/FINAL

Occurrence Report

After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office Nuclear Waste Partnership

(Site) (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0009

Management Concern: Fluorescent bulbs fall during compressor maintenance activities

2. Report Type and Date: NOTIFICATION/FINAL

	Date	Time
Notification:	07/09/2013	17:24 (ETZ)

Initial Update:	07/09/2013	17:24 (ETZ)
Latest Update:	07/09/2013	17:24 (ETZ)
Final:	07/09/2013	17:24 (ETZ)

3. Significance Category: 4

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: ED06/Bld 463/41-P-DP03/7

7. UCNI?: No

8. Plant Area: Compressor Building

9. Date and Time Discovered: 07/07/2013 09:45 (MTZ)

10. Date and Time Categorized: 07/07/2013 11:17 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
07/07/2013	10:52 (MTZ)	Erin Preciado	CBFO/FRD
07/08/2013	06:45 (MTZ)	Lina Pacheco	CBFO/FR

12. Other Notifications:

Date	Time	Person Notified	Organization
07/07/2013	10:10 (MTZ)	Jeff Knox	NWP/FMD
07/07/2013	10:48 (MTZ)	Scott Kennedy	NWP/FM
07/07/2013	10:24 (MTZ)	John Vandekraats	NWP/FM
07/07/2013	09:45 (MTZ)	Mark Long	NWP/FSM

13. Subject or Title of Occurrence:

Management Concern: Fluorescent bulbs fall during compressor maintenance activities

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14. Reporting Criteria:

10(2) - An event, condition, or series of events that does not meet any of the other reporting criteria, but is determined by the Facility Manager or line management to be of safety significance or of concern for that facility or other facilities or activities in the DOE complex.
The significance category assigned to the management concern should be based on an evaluation of the potential risks and impact on safe operations. (1 of 4 criteria - This is a SC 4 occurrence)

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15. Description of Occurrence:

On July 7, 2013, at approximately 0945 hours, during compressor maintenance activities, two four foot fluorescent light bulbs fell from the ceiling fixtures located inside the Compressor Building. When the floor mounted compressor was powered on excessive vibration was observed. Shortly after compressor startup, the first bulb fell from the Northeast corner of the building and then a second bulb fell from the Southeast corner of the building. Work was stopped. It appeared that a bad bearing inside the compressor may have caused excess vibration to the structure, resulting in the bulbs falling. Because the Facility Shift Manager, Facility Work Manager, Facility Engineer, Facility Technician and three Electricians were all present when the bulbs fell the event was categorized as a near miss at that time. On July 8, 2013, the occurrence was re-categorized as a Management Concern based on information gathered after the event. Although there were personnel in the vicinity, the small four foot lightweight bulbs would not have resulted in a reportable injury. The bulbs were also located inside protective plastic tubes used to protect the bulbs from breakage and contain any broken glass. If the bulbs had contacted an employee, any injury would not have resulted in an otherwise reportable event. An Engineering Evaluation has been requested to determine what type of fixtures should be used in high vibration areas.
No injuries were sustained and the proper notifications were made.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply

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18. Activity Category:

02 - Maintenance

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19. Immediate Actions Taken and Results:

Work was stopped and proper notifications were made.

Barrier was erected and signs posted to prevent entry without proper Personal Protective Equipment (PPE).

Employee statements were taken.

Broken fluorescent bulbs were removed and disposed of per site environmental procedures.

An Engineering Evaluation was requested to determine cause and actions to prevent recurrence.

Event was entered into the site Issues Management Process via WIPP Form 13-192.

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20. ISM:

2) Analyze the Hazards
5) Provide Feedback and Continuous Improvement

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21. Cause Code(s):

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22. Description of Cause:

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23. Evaluation (by Facility Manager/Designee):

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

26. Lessons Learned:

27. Similar Occurrence Report Numbers:

28. User-defined Field #1:

29. User-defined Field #2:

30. HQ Keyword(s):

31. HQ Summary:

32. DOE Facility Representative Input:

33. DOE Program Manager Input:

EM-CBFO--NWP-WIPP-2013-0010 NOTIFICATION/FINAL

Occurrence Report

After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office — Nuclear Waste Partnership

(Site) — (Contractor)

Name: KENNEDY, SCOTT J.
Title: FACILITY MANAGER — **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE — **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: — **Date:**

(Authorized Classifier (AC))

1. **Occurrence Report Number:** EM-CBFO--NWP-WIPP-2013-0010

   Failure to follow prescribed hazardous energy control process - PLD use

2. **Report Type and Date:** NOTIFICATION/FINAL

	Date	Time
Notification:	07/17/2013	15:47 (ETZ)

Initial Update:	07/17/2013	15:47 (ETZ)
Latest Update:	07/17/2013	15:47 (ETZ)
Final:	07/17/2013	15:47 (ETZ)

3. Significance Category: 4

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: WH03/534/Facility Cask Transfer Car

7. UCNI?: No

8. Plant Area: Underground

9. Date and Time Discovered: 07/15/2013 10:00 (MTZ)

10. Date and Time Categorized: 07/15/2013 10:45 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
07/15/2013	11:50 (MTZ)	Kenny Padilla	CBFO/FR
07/15/2013	10:00 (MTZ)	Scott Kennedy	NWP/FM
07/15/2013	10:00 (MTZ)	Hardy Bellows	NWP/SIM
07/15/2013	10:00 (MTZ)	Barry Brown	NWP/ESH
07/15/2013	10:00 (MTZ)	Jeff Knox	NWP/FMD

13. Subject or Title of Occurrence:

Failure to follow prescribed hazardous energy control process - PLD use

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14. Reporting Criteria:

2E(3) - Any failure to follow a prescribed hazardous energy control process (e.g., lockout/tagout, hazardous energy control program).

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15. Description of Occurrence:

On June 25, 2013, during a Carlsbad Area Office (CBFO) work order review, it appeared that on June 19, 2013, maintenance personnel performing troubleshooting activities on the Facility Cask Transfer Car, may have violated requirements in WIPP Procedure (WP) 10-AD3005, Control and Use of Maintenance Locks. On July 15, 2013, at 1000 hours, additional information gathered from June 25, 2013 was discussed and evaluated by the Facility Manager (FM), Electrical Subject Matter Expert and other staff. Based on that information, it was determined that the maintenance personnel had left their PLDs in place after the shift ended without requesting a COM LOTO and by doing so did not comply with WP 10-AD3005. At 1045 hours, the FM categorized the issue as an ORPS reportable occurrence under reporting criterion 2E(3)SC4 per WP12-ES3918. The Carlsbad Field Office Facility Representative was notified of the categorization at 1150 hours.
Note: Hazardous electrical energy had been removed from the equipment and verified through zero energy checks prior to commencing work on both days. No hazardous condition existed, no employees were injured by or exposed to hazardous electrical energy.

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply.

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18. Activity Category:

02 - Maintenance

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19. Immediate Actions Taken and Results:

The Facility Manager directed managers, first line supervision and engineers to:

- Review applicable lockout/tagout (LOTO) procedures and document review on a read and sign sheet.

- Meet with your staff and identify any recommended changes to clarify the current LOTO procedures. Document and submit the recommendations and submit provide to the FM and the Cognizant Individual responsible for procedure maintenance.

- Reinforce with your supervisors that until procedure changes are made, strict adherence to the current procedures must be maintained.

- Review all open work packages that have exceeded one shift and where a Personal Locking Device (PLD) was used on the initial shift to assure the required Cognizant Operations Manager (COM) LOTO was applied. Notify the FM of any identified noncompliance.

- Supervisors remind crafts at morning meetings and pre-jobs briefings to adhere to LOTO process requirements. Remind them to stop and ask if they are unclear concerning the requirements. These reminders will be conducted each shift beginning on 7/16/13 through 8/2/13.

- Supervisors will remind crafts daily that if work involving a PLD cannot be completed in a single shift a COM LOTO must be applied. These reminders will be conducted each shift beginning on 7/16/13 through 8/2/13.

- Supervisors will check status of LOTOs in their area of responsibility prior to the end of each shift – with increased attention on PLDs that should be converted to COM LOTOs. These checks will be conducted each shift beginning on 7/16/13 through 8/2/13.

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20. ISM:

4) Perform Work Within Controls
5) Provide Feedback and Continuous Improvement

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21. Cause Code(s):

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22. Description of Cause:

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23. Evaluation (by Facility Manager/Designee):

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

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26. Lessons Learned:

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27. Similar Occurrence Report Numbers:

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28. User-defined Field #1:

29. User-defined Field #2:

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30. HQ Keyword(s):

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31. HQ Summary:

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32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

EM-CBFO--NWP-WIPP-2013-0011

Initial Update:	08/07/2013	12:03 (ETZ)
Latest Update:	10/14/2013	17:57 (ETZ)
Final:	10/14/2013	17:57 (ETZ)

3. Significance Category: 3

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: ED04/Underground/53P-SBD04/5-CB2

7. UCNI?: No

8. Plant Area: South 90 drift

9. Date and Time Discovered: 07/17/2013 14:46 (MTZ)

10. Date and Time Categorized: 07/17/2013 16:20 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
07/17/2013	16:10 (MTZ)	Kenny Padilla	CBFO/FR
07/17/2013	14:46 (MTZ)	Mark Long	NWP/FSM
07/17/2013	15:12 (MTZ)	Scott Kennedy	NWP/FM
07/17/2013	14:53 (MTZ)	Jeff Knox	NWP/FMD

13. Subject or Title of Occurrence:

14. Reporting Criteria:

2E(2) - Any unexpected discovery of an uncontrolled electrical hazardous energy source (e.g., live electrical power circuit, etc.). This criterion does not include discoveries made by zero-energy checks and other precautionary investigations made before work is authorized to begin.

15. Description of Occurrence:

On July 17, 2013, at approximately 1330 hours, electricians performing a work area inspection for a cable relocation project in the WIPP underground identified an energized 480 volt cable. The cable had been previously tagged with an Inactivation Tag and had been thought to be abandoned. The electricians, per their Conduct of Operations training, immediately stopped work and notified Underground Services. Underground Services personnel identified the 480V power source, de-energized the cable and applied appropriate Lockout/Tagout (LOTO). It was later determined that the cable had been left in this configuration as part of work performed to support mining activities in the underground Maintenance Shop. A review of the mining support work instructions and associated LOTO information showed that the LOTO applied as part of the work instructions had been removed and the circuit breaker returned to an energized configuration.
The Facility Manager categorized the occurrence and directed an extent of condition to be conducted throughout the entire underground facility to see if any other cables were in the same uncontrolled configuration. As a result of the extent of condition, another cable was discovered in the same configuration at a different location.
Note: No personnel were injured by or exposed to hazardous electrical energy.

DETAILS
On the morning of July 17, 2013, five electricians were assigned a work package to relocate cables in the WIPP Underground in the South 90 drift between East 140 and East 300. To support the work that same morning Underground Services de-energized the circuits feeding the cables and performed a LOTO using a Cognizant Operations Manager (COM) lock. The electricians participated in a pre-job briefing, hung their personal locks on the multi-lock COM lock (at approximately 0745 hours), performed their energy checks and began to relocate two 13.8kV cables. They worked through the morning.

Upon their return from lunch the electricians progressed to a location near a cable in South 90 that had been disconnected, rolled up and hung from the rib (wall). This cable was not part of their work scope. The cable leads had been taped and a Deactivation Tag hung at the end of the cable. One of the electricians suggested that they should check the cable for energy. A scan of the cable using a non-contact voltage detector showed that it was indeed energized.

The electricians immediately stopped work per their Conduct of Operations training. The crew's electrical Maintenance Engineer observed the action and reported the energized cable to Underground Services. At approximately 1330 hours, Underground Services subsequently reported the discovery to the Facility Shift Manager (FSM). Underground Services personnel arrived at the South 90 location, traced the cable to its source, a Transfer Switch (53P-SW04-178). Underground Services placed the switch in a neutral position (off) and opened the upstream circuit breaker (53P-SBD04/5-CB2) and applied a LOTO to each.

The craft indicated that they were never exposed to hazardous energy since their precautionary area check found the energized cable prior to them working in its proximity.

It was later determined that the cable had been energized since the completion of the work control document in November 2012, it appeared that a step in the work control document had been misinterpreted and the LOTO was removed and the circuit breaker energized. A review of the work control document and associated LOTO information revealed that the LOTO was applied as part of the work instructions and that the work control instructions never requested the removal of the LOTO. The work instructions had directed the subcontractor to tape the leads of the cable and to hang an inactivation tag that identified the associated work order number and Engineering Change Order number to the cable. The tape was applied to protect the conductors while they were being removed from the enclosure and from the exposure of the elements. The tape was not applied for isolation/insulation purposes.

A copy of the work order (WO #1103917) that was developed and worked to support mining the floor in the East 300 Maintenance Shop was examined. This package included removal and relocation instructions for the cable that was later found to be energized. Also, the associated LOTO Control Sheets used by Underground Services to lock and tag and subsequently remove locks and tags were examined and reflected the as-found condition.

The work associated with the work order (WO #1103917) was performed by a NWP subcontractor. The pertinent steps in the work order associated with LOTO of the energized cable were:
- On 9/18/12 53P-SBD04/5-CB2, 53P-SBD04/4-CB9 both feeding 53P-SW04-178 were opened and locked out. 53P-SW04-178 was placed in a neutral position and also locked out (Step 8.32 of the work instructions).
- That same day the locks were cleared and the circuit breakers were closed on Circuit Breaker (CB) 2 and CB9. The clearance position showed as NORMAL (the primary feed was through CB2). (Steps 8.50.1 and 8.51 of the work instructions).
- On 9/19/12 53P-SBD04/5-CB2, 53P-SBD04/4-CB9 were again opened and locked out (Step 8.55 of the work instructions).
- That same day the locks were cleared and the circuit breakers closed. (Steps 8.58.1 and 8.59 of the work instructions).
- On 9/25/12 53P-SBD04/5-CB2, 53P-SBD04/4-CB9 were again opened and locked out (Step 8.82 of the work instructions).
- These locks were cleared on 11/2/12. CB2 was closed and CB9 was left in the open position. There were no work instructions to remove the locks. The LOTO Control Sheets identify that a contractor requested removal of the locks. Step 8.167.1 of the work order stated, "U/G Services Engineer, ensures

all temporary power alignments are operating and functioning according to normal operating parameters." This step was signed off on 11/2/12 by the same Underground Facilities Engineer that cleared the locks.

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16. Is Subcontractor Involved? Yes

Name: Budwine Electric

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply.

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18. Activity Category:

03 - Normal Operations (other than Activities specifically listed in this Category)

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19. Immediate Actions Taken and Results:

Work stopped upon discovery.

Electricians notified Underground Services and the Facility Shift Manager.

Underground Services removed power from the cable and performed an appropriate Lockout/Tagout.

The Facility Manager directed an inspection to be conducted throughout the entire underground facility to see if any other cables may have been left in the same configuration.

The Facility Manager directed a Safety Pause. A Safety Pause discussion (slide show) was developed and initiated on 7/22/13 and will continue with oncoming work crews through 7/24/13.

A Debrief was conducted on 7/18/13.

The issue was entered into the Issues Management Processing System via a WIPP Form.

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20. ISM:

1) Define the Scope of Work
2) Analyze the Hazards

3) Develop and Implement Hazard Controls
4) Perform Work Within Controls
5) Provide Feedback and Continuous Improvement

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21. Cause Code(s):

A3B2C04 - Human Performance Less Than Adequate (LTA); Rule Based Error; Previous success in use of rule reinforces continued use of rule
-->couplet - A5B2C08 - Communications Less Than Adequate (LTA); Written Communication Content LTA; Incomplete / situation not covered
-->couplet - A5B2C05 - Communications Less Than Adequate (LTA); Written Communication Content LTA; Ambiguous instructions / requirements
A3B1C01 - Human Performance Less Than Adequate (LTA); Skill Based Errors; Check of work was LTA
-->couplet - A5B2C05 - Communications Less Than Adequate (LTA); Written Communication Content LTA; Ambiguous instructions / requirements
-->couplet - A5B2C08 - Communications Less Than Adequate (LTA); Written Communication Content LTA; Incomplete / situation not covered
A4B1C07 - Management Problem; Management Methods Less Than Adequate (LTA); Responsibility of personnel not well defined or personnel not held accountable
A5B2C05 - Communications Less Than Adequate (LTA); Written Communication Content LTA; Ambiguous instructions / requirements
A5B2C08 - Communications Less Than Adequate (LTA); Written Communication Content LTA; Incomplete / situation not covered
A3B4C01 - Human Performance Less Than Adequate (LTA); Work Practices LTA; Individual capabilities to perform work LTA
-->couplet - A4B1C01 - Management Problem; Management Methods Less Than Adequate (LTA); Management policy guidance / expectations not well-defined, understood or enforced

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22. Description of Cause:

A5B2C05, 5B2C08 – EVENT 1 - WIPP Procedure (WP) 10-3011, Work Control Process, does not specifically require establishing acceptance criteria for the Cognizant Operations Manager (COM) or steps for verifying the as-left electrically safe work condition. The Work Control Document (WCD) did not specify the as-left electrically safe work condition, creating an error likely situation.
DETAILS: An interview with the Cognizant Engineer, who planned the WCD, indicated that the intent was to leave CB-2, CB-9, and Transfer Switch 53P-SW04-178 locked at the completion of the work instructions.
WP 10-WC3011 does not provide sufficient guidance for planners to ensure that an electrically safe work condition is established at the end of a WCD. Specifically this procedure does not require

establishing acceptance criteria for the COM or steps for verifying the as-left electrically safe work condition.
This cause is addressed by corrective actions 2, 3, 4 and 5.

A3B2C04, A5B2C08 – EVENT 1 – Without specific instructions in the WCD, the Underground Facility Engineer (UFE) and subcontractor electricians made a field decision based on past experiences which created an electrically unsafe work condition.
DETAILS: Without the specific guidance pertaining to the as-left condition in the Task Verification section of the WCD, the subcontracted electricians made a field decision to request clearance of the Lockout Tagout (LO/TO). In other phases of the work package it clearly states to request the clearance or to verify the LO/TO is still in place.
This cause is addressed by corrective actions 2, 3, 4 and 5.

A3B1C01, A3B2C04, A5B2C05, A5B2C08 – EVENT 1 – The UFE failed to verify the existing electrical configuration prior to energizing the circuit breaker, creating an electrically unsafe work condition.
DETAILS: The WCD did not specify acceptance criteria for the UFE or require the UFE to verify the intended system configuration at the end of the work package. It states that no equipment testing is required and directs the UFE to "ensure all temporary power alignments are operating and functioning according to normal operating parameters." Because there were no additional acceptance criteria and no verification of the engineer's intent for system configuration, the UFE interpreted the instruction to mean restore CB-2, CB-9 and the transfer switch to the original configuration. The UFE made a field decision, without consideration of the system configuration, to remove the locks on CB-2 and CB-9, leave CB-9 open, close CB-2 and align the transfer switch to normal alignment thus energizing cable 53DP049P.
This cause is addressed by corrective actions 1, 2, 3, 4 and 5.

A4B1C07 – EVENT 1 – Not all UFEs are equally proficient in performing their roles and responsibilities, particularly their role as COM for LO/TO and their responsibility for understanding and maintaining system configuration.
DETAILS: Interviews conducted by the Root Cause Analysis Team (RCAT) indicated that some UFEs believe that they provide a service to those who perform the work rather than taking ownership of the plant configuration and responsibility for acceptance of the work. Interviews also indicated that, prior to the discovery of the energized cables, some UFEs may have understood that the "normal" configuration for any panel was to have all breakers that were not under LO/TO, in the closed position. Based on those interviews the RCAT determined that there is a variance in proficiency among UFEs that greatly varies based on personal work experience in each of those roles.
This cause is addressed by corrective actions 1, 2, 3, 4 and 5.

A5B2C05 – EVENT 2 – WP 10-WC3011 does not adequately stipulate the requirements for establishing an electrically safe work condition.
DETAILS: Under Revision 27 of WP 10-WC3011, Expedited type work orders were not required to include a Cognizant Engineer in the planning phase. Therefore, the Cognizant Engineers (CE) for the Underground Ventilation System (CE-2) and the Underground Electrical System (CE-1) were not aware

of the modifications to their systems that were caused by moving the fan. WP 10-WC3011 was later revised and in Revision 28, the requirement was added for Expedited/Alteration type work packages to be planned by a Cognizant Engineer. The WCD did not specify the expected electrically safe work condition creating an error likely situation. WP 10-WC3011 does not require steps to verify the as-left electrically safe work condition.
This cause is addressed by corrective action 2.

A5B2C08 – EVENT 2 – The CE-1 did not communicate how to establish and maintain an electrically safe work condition.
DETAILS: The CE for underground ventilation (CE-2) became aware of the change to the ventilation system during the annual system walk-down. CE-2 then initiated an Engineering Change Order and notified the Underground Electrical System CE (CE-1). CE-1 recognized that the fan and controller was no longer being fed from Circuit Breaker (CB) number 3. CE-1 then initiated the appropriate engineering change orders for the electrical system and changed the applicable panel schedule to reflect that CB-3 was now a spare. The CE did not communicate to the UFE the expected electrically safe work condition.
This cause is addressed by corrective actions 2, 3, 4 and 5.

A3B2C04, A5B2C08 – EVENT 2 – When the UFE was notified of the electrical panel schedule change the UFE made a field decision to clear the LO/TO based on past experiences.
DETAILS: The UFE was notified of the panel schedule change and made a field decision, without any written direction, to clear the corresponding LO/TO with CB-3 shown in the "Open" position as indicated in the clearance section of the LO/TO Control Sheet. According to interviews with other UFEs this is a common action in response to this type of notification.
This cause is addressed by corrective actions 2, 3, 4 and 5.

A3B4C01, A4B1C01 – EVENTS 3 and 4 – Unknown person(s) closed a circuit breaker energizing an attached electrical cable creating an electrically unsafe work condition. This action was performed by unknown persons at undetermined times at two separate locations. The work was performed without proper authorization which resulted in a direct violation of the site safety requirements.
This cause is addressed by corrective actions 6 and 8.

EXTENT OF CONDITION
In analyzing the four separate situations involving energized electrical cables in the underground some common causal factors between the events were identified.
- The Direct Cause amongst all four events is that there was a failure to verify an electrically safe work condition existed prior to closing the circuit breaker; the check of the existing work conditions was less than adequate. In all four events, a circuit breaker was closed on a de-terminated electrical cable creating an electrically unsafe work condition.
- One common causal factor between Events 1 and 2 is that some post maintenance acceptance criteria in Work Control Documents are vague and in some instances do not require verification of the system configuration. Further, WP 10 WC3011 did not provide sufficient guidance requiring work control planners to state the conditions for establishing an electrically safe work environment at the end of the work.

- Based on interviews, UFEs are not required to verify system configuration when performing certain actions such as clearing LO/TO, or verifying acceptance at the completion of modification or alteration work activities, or upon the discovery of as-found conditions identified during walk downs. The review of WP 10-WC3011 indicates that the CEs are not required to specify the electrically safe work configuration at the completion of modification or alteration types of work activities, instead, a generic statement to configure the system to meet operational needs.
- WP 10-WC3011, Work Control Process, does not ensure that acceptance criteria and steps to verify the criteria are established to ensure the as-left safe work conditions.

In the Extent of Condition review the RCAT identified that because WP 10-WC3011, Work Control Process, is used extensively across the site in work planning and control, both in the Underground and on the Surface, the latent organizational weaknesses in this process may affect more than just electrical types of work. Given these facts, the RCAT believes that all types and locations of work activities on the Surface as well as in the Underground should be verified as being currently compliant with all safe work requirements.
For the behaviors associated with Events 3 and 4, which were identified as deliberate violations of safe work practices, it was determined that if the stop work and the verbatim procedural compliance requirements had been adhered to, all of these events would have been precluded.

INVESTIGATION and ANALYSIS METHODOLOGY
Investigation was performed using WIPP Procedure (WP) 15-MD3102, Event Investigation and WP04-IM1000, Issues Management Processing. Root and Apparent causal analysis/methodology described in WP13-GM1001, Root Cause Analysis; WP15-PA.02, Cause Analysis Guidance; WHY analysis, Missed Opportunity Matrix, and the DOE Causal Analysis Tree, as described in DOE O 232.2, Occurrence Reporting and Processing of Operations Information, Attachment 5 were used to determine causes and corrective actions for this event.

ISM SUMMARY
ISM Code 1, Define the Scope of Work – Work Control procedure did not specify as-left electrically safe work condition or appropriate communication actions.
ISM Code 2, Analyze the Hazards – Procedural and Work Control Documents identified hazards during the work but were not specific with as-left safe work conditions.
ISM Code 3, Develop and Implement Hazard Controls – Controls were not identified in the Work Control procedure. Employees used previous work experience to perform work.
ISM Code 4, Perform Work Within Controls – Controls were not established and resulted in Events 1 and 2. Events 3 and 4 resulted when unknown employee(s) did not use any controls or established work authorization methods.
ISM Code 5, Provide Feedback and Continuous Improvement – Adequacy of controls was not known until the first event was identified. Previous work evolutions that did not result in an event and/or lack of oversight contributed to these events.

HUMAN PERFORMANCE IMPROVEMENT (HPI) ANALYSIS
Analysis indicates that relying on field decisions is an error precursor that should be considered in providing instructions. The error opportunity exists when the worker is forced by the document to use

judgment and make a decision with little or no guidance for making the decision. To reduce the likelihood of this error, criteria should be developed that is specific, measurable, or observable; and include thorough verification and validation. This is especially true when the outcome or as-left condition is essential for establishing safe conditions or ensuring operational continuity.

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23. Evaluation (by Facility Manager/Designee):

UPDATE 8/7/13 - This update was submitted to correct information in the Details portion of the Description of Occurrence section. The initial Notification report text incorrectly stated, "The Cognizant Engineer indicated that he had directed a subcontractor to tape the leads on the cable. He also directed the subcontractor to hang the inactivation tag with the work order number with the Engineering Change order number written on it." The work instructions directed the subcontractor to tape the leads and hang the inactivation tag not the Cognizant Engineer. The work instructions also required LOTO to be applied but never requested removal of that LOTO.

UPDATE 8/27/13 - A Root Cause Analysis (RCA) was chartered for this occurrence on 7/26/13. Due to the nature of this issue, extensive research and investigation has been needed to complete the RCA. Issuance of the final RCA report has been delayed until 9/23/13. The associated Corrective Action Plan (CAP) is scheduled to complete on 10/8/13.

UPDATE 10/10/13 - The RCA report was issued on 9/25/13 and the associated CAP was approved on 10/8/13. Issuance of a final occurrence report is scheduled for 10/14/13.

FINAL 10/14/13 - As part of the investigation and RCA process an extent of condition evaluation of similar power cables in the underground was performed. During the investigation process, three additional cables were also found to be energized and in similar configurations in other areas of the underground. The four energized cable issues are identified and discussed in the Description of Cause section of this report.

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

1. Brief and re-train all Underground Facility Engineers on their role as Cognizant Operations Manager (COM) for Lockout/Tagout (LO/TO) using WP04-AD3011, Equipment Lockout/ Tagout, and their responsibility for understanding and maintaining electrically safe work using WP12-IS.03, Electrical Safety Program Manual.

   This action addresses cause codes A3B1C01 and A4B1C07.

Target Completion Date: 11/15/2013	**Tracking ID:** ACT13-201-2

2. Revise WP10-WC3011, Work Control Process, to establish acceptance criteria and include action steps to verify that when a LO/TO is removed that the equipment or system that had been locked/tagged is left in a safe condition.

   This action addresses cause codes A3B2C04, A4B1C07, A5B2C05, and A5B2C08.

Target Completion Date: 12/31/2013	**Tracking ID:** ACT13-201-3

3. Revise WP04-AD3011 to add a step in the Lockout/Tagout Clearance sections requiring the COM to determine what equipment/systems could be energized upon removal of the LO/TO and assessing system compliance with electrical safety requirements prior to lifting the COM lock.

   This action addresses cause codes A3B2C04, A4B1C07 and A5B2C08.

Target Completion Date: 12/31/2013	**Tracking ID:** ACT13-201-4

4. Include revisions to Lockout/Tagout Clearance sections of WP04-AD3011 in required reading for all Facility Shift Managers and complete the required reading review.

   This action addresses cause codes A3B2C04, A4B1C07 and A5B2C08.

Target Completion Date: 01/17/2014	**Tracking ID:** ACT13-201-5

5. Include revisions to Lockout/Tagout Clearance sections of WP04-AD3011 in required reading for all Underground Facility Engineers and complete the review by the due date.

   This action addresses cause codes A3B2C04, A4B1C07 and A5B2C08.

Target Completion Date: 01/17/2014	**Tracking ID:** ACT13-201-6

6. Human Resources develop and provide to employees a reminder briefing sheet outlining management's expectations/requirements in a General Manager's all-hands briefing. The briefing will include a discussion on procedure adherence.

   This action addresses cause code A3B4C01.

Target Completion Date: 12/15/2013	**Tracking ID:** ACT13-201-7

7. As an extent of condition action, the As Built section will perform a visual walk-down of surface site facilities to attempt to identify any energized de-terminated cables. Engineering has completed assessments of the electrical systems ED01-ED06, ED09 and ED15. For these systems, there are no temporary modifications in progress and it is believed that undocumented energized feeder cabling is unlikely. Evidence for closure will be documentation regarding which facilities were reviewed and any conditions identified.

   Does not address any cause codes at this time. This is an extent of condition action for the facilities located on the surface. If walk-downs observe energized de-terminated cables, the same actions for the underground facility will apply.

Target Completion Date: 01/17/2014	**Tracking ID:** ACT13-201-8

8. Site Operations Manager will brief Operations Department managers on expectations/ requirements and that managers evaluate employees for compliance. Briefing will also include a discussion on procedure adherence.

   This action addresses cause code A3B4C01.

Target Completion Date: 11/30/2013	**Tracking ID:** ACT13-201-9

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26. Lessons Learned:

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27. Similar Occurrence Report Numbers:

EM-CBFO--NWP-WIPP-2013-0006
EM-CBFO--NWP-WIPP-2013-0003
EM-CBFO--WTS-WIPP-2010-0006

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28. User-defined Field #1:

29. User-defined Field #2:

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30. HQ Keyword(s):

01A--Inadequate Conduct of Operations - Inadequate Conduct of Operations (miscellaneous)
01B--Inadequate Conduct of Operations - Loss of Configuration Management/Control
01M--Inadequate Conduct of Operations - Inadequate Job Planning (Electrical)
01R--Inadequate Conduct of Operations - Management issues
11G--Other - Subcontractor
12C--EH Categories - Electrical Safety
14D--Quality Assurance - Documents and Records Deficiency
14E--Quality Assurance - Work Process Deficiency

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31. HQ Summary:

On July 17, 2013, electricians performing a work area inspection for a cable relocation project in the WIPP underground facility identified an energized 480-volt cable. The cable had been previously tagged with an inactivation tag and had been thought to be abandoned. The electricians immediately stopped work and notified Underground Services. Underground Services personnel identified the 480-volt power source, de-energized the cable, and applied appropriate the lockout/tagout. It was later determined that the cable had been left in this configuration as part of work performed to support mining activities in the underground Maintenance Shop in September 2012 through November 2012. The Facility Manager directed an inspection to be conducted throughout the entire underground facility to see if any other cables were in the same uncontrolled configuration. As a result of the inspection, another cable was discovered in the same configuration at a different location. No personnel were injured by or exposed to hazardous electrical energy.

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32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

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34. Approvals:

Approved by: KENNEDY, SCOTT J., Facility Manager/Designee
Date: 10/14/2013
Telephone No.: (575) 234-8434

EM-CBFO--NWP-WIPP-2013-0012 FINAL

Occurrence Report
After 2003 Redesign

Waste Isolation Pilot Plant

(Name of Facility)

Nuclear Waste Operations/Disposal

(Facility Function)

Carlsbad Field Office | Nuclear Waste Partnership

(Site) | (Contractor)

Name: KENNEDY, SCOTT J
Title: FACILITY MANAGER **Telephone No.:** (575) 234-8434

(Facility Manager/Designee)

Name: KNOX, JEFF W.
Title: FACILITY MANAGER DESIGNEE **Telephone No.:** (575) 234-8462

(Originator/Transmitter)

Name: **Date:**

(Authorized Classifier (AC))

1. Occurrence Report Number: EM-CBFO--NWP-WIPP-2013-0012

Incorrect TRUCON Code Applied to Shipment of Contact-Handled TRU Waste

2. Report Type and Date: FINAL

	Date	Time
Notification:	08/28/2013	18:29 (ETZ)

Initial Update:	10/10/2013	19:38 (ETZ)
Latest Update:	10/10/2013	19:38 (ETZ)
Final:	10/10/2013	19:38 (ETZ)

3. Significance Category: 3

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4. Division or Project: NWP/WIPP

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: N/A - Administrative issue

7. UCNI?: No

8. Plant Area: Administrative

9. Date and Time Discovered: 08/26/2013 11:20 (MTZ)

10. Date and Time Categorized: 08/26/2013 12:16 (MTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA	NA	NA	NA

12. Other Notifications:

Date	Time	Person Notified	Organization
08/26/2013	11:20 (MTZ)	Jeff Knox	NWP/FMD
08/26/2013	13:02 (MTZ)	Randy Elmore	CBFO/SSO
08/26/2013	12:10 (MTZ)	Scott Kennedy	NWP/FM

13. Subject or Title of Occurrence:

Incorrect TRUCON Code Applied to Shipment of Contact-Handled TRU Waste

14. Reporting Criteria:

8(2) - Any deviation that would require a written report to the Nuclear Regulatory Commission (per 10 CFR Section 71.95) or to DOE HCO/NNSA CO (per DOE O 460.1C or DOE O 461.1B), namely:
a) Instance in which there is a significant reduction in the effectiveness (as defined by the certificate holder) of any approved fissile or Type B packaging during use.
b) Discovery of a defect with safety significance (as determined by the certificate holder) in a fissile or Type B packaging, after first use (by any shipper).
c) Instance in which the conditions of approval in the Certificate of Compliance (or equivalent) were not performed in making a shipment.

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15. Description of Occurrence:

On August 15, 2013, at approximately 1400 hours, during the process of evaluating and certifying seven 55 gallon drums, of Los Alamos National Laboratory (LANL) Contact Handled (CH) TRU waste for shipment from the Idaho National Lab (INL) to the WIPP for disposal, it was discovered that the seven containers had been shipped from LANL to the INL using an incorrect TRUCON code. The TRUCON code applies only during shipment. The TRUCON code stands for "TRU waste content code". The TRUCON is used to identify the shipment site and the physical and chemical form of the waste, as well as the packaging configuration (e.g., number of bag layers). All containers must have an approved content code that accurately describes the waste form and packaging configuration. A screen of the occurrence against applicable Nuclear Regulatory Commission (NRC) reporting criteria was initiated and completed on 08/22/2013. The screen identified the need to submit a written report to the NRC within 60 days. The Facility Manager was contacted and the occurrence was categorized as reportable under ORPS criterion 8(2)3 based on reporting requirements for a non-compliance with NRC issued Certificate of Compliance (71-9218, Revision 20) which requires application of the correct TRUCON code to CH TRU waste shipped in a TRUPACT-II (Type B package).

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16. Is Subcontractor Involved? No

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17. Operating Conditions of Facility at Time of Occurrence:

Does not apply

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18. Activity Category:

08B - Transportation Offsite

19. Immediate Actions Taken and Results:

Notifications were made to appropriate Central Characterization Program Management when the potential issue was discovered.

Certification of subject containers were halted.

Conducted reviews of container data to verify there were no safety concerns during transportation from Los Alamos National Laboratory to the Idaho National Laboratory.

Initiated Nuclear Regulatory reporting screening process.

Notified Facility Manager with NRC screen results.

20. ISM:

1) Define the Scope of Work
3) Develop and Implement Hazard Controls
5) Provide Feedback and Continuous Improvement

21. Cause Code(s):

A3B2C05 - Human Performance Less Than Adequate (LTA); Rule Based Error; Situation incorrectly identified or represented results in wrong rule used
-->couplet - A4B1C01 - Management Problem; Management Methods Less Than Adequate (LTA); Management policy guidance / expectations not well-defined, understood or enforced
A6B2C04 - Training deficiency; Training Methods Less Than Adequate (LTA); Inadequate presentation
A3B1C04 - Human Performance Less Than Adequate (LTA); Skill Based Errors; Infrequently performed steps are performed incorrectly
-->couplet - A4B3C04 - Management Problem; Work Organization & Planning LTA; Too few workers assigned to task

22. Description of Cause:

A3B2C05 and A4B1C01 – The Root Cause of the event is the Waste Certification Officials (WCOs) who assigned the TRUCON codes did not have the knowledge to recognize the significance of the difference between types of layers of confinement (i.e., liner bags vs. inner bags). The WCO did recognize the importance of the TRUCON code encompassing the number of layers of confinement and

believed if the layers of confinement described by the TRUCON code were equal to or greater that the layers of confinement in the container to be shipped, the TRUCON code selected would be appropriate. This cause is addressed by corrective action number 1.

A6B2C04 – The training provided to the WCOs related to the assignment of TRUCON codes consists of a "read-and-sign" of the TRUCON documents. The "read-and-sign" is documented on the WCO qualification card. In this instance, the "read-and-sign" training was not sufficient to provide the WCO the knowledge to recognize the significance of the difference between types of layers of confinement (i. e., liner bags vs. inner bags). This was especially true for a WCO that did not assign TRUCON codes as a normal duty.
This cause is addressed by corrective action numbers 2, 3 and 4.

A3B1C04 and A4B3C04 – The WCO who assigned the incorrect TRUCON code did not perform assignment of TRUCON codes as a normal, routine task. This may have contributed to the WCO's lack of recognition of the significance of different types of layers of confinement.
This cause is addressed by corrective action numbers 2, 3 and 4.

EXTENT OF CONDITION
There have been two previous instances of an incorrect TRUCON code being used for a shipment since January 1, 2008. In this time, 2,350 shipments have been made to WIPP (this does not include inter-site shipments). Using the WIPP shipments as the baseline three instances of using the wrong TRUCON code out of 2,350 shipments is an error rate of 0.13 percent.
The NWP Packaging Organization evaluated this inter-site shipment and concluded the following:
The payload consisted of two Standard Waste Boxes (SWBs) overpacking seven loaded 55-gallon drums and one dunnage drum. Five of the seven drums had two inner bag layers with the other two having one inner bag layer. Flammable Volatile Organic Compounds (FVOCs) in the headspace for all containers were less than 500 ppm. All methane measurements were below the method detection limit (MDL). The hydrogen values ranged from 89.67 ppm (MDL value) to 795.12 ppm. Even without credit for the dunnage container and conservatively assuming that all containers had two inner bag layers, decay heat limits or flammable gas generation rate limits were met for all of the containers. Note that the actual shipping time was less than 2 days against the assumption of 60 days in the gas generation analysis (as per the CH-TRAMPAC no credit is taken for the shorter shipping time).
The task of assigning a TRUCON code relies solely on the knowledge and expertise of the WCO. Most other tasks performed by the WCOs have associated barriers, such as the edit/limit checks in the Waste Data System (WDS), independent review of characterization data entry, and independent verification that there are no open Noncomformance Reports (NCRs) associated with specific containers, to limit the possibility of errors. Therefore, the extent of this condition is limited to the selection of TRUCON codes

INVESTIGATION and ANALYSIS METHODOLOGY
Investigation was performed using WIPP Procedure (WP) 15-MD3102, Event Investigation and WP04-IM1000, Issues Management Processing. Root and Apparent causal analysis/methodology described in WP13-GM1001, Root Cause Analysis; WP15-PA.02, Cause Analysis Guidance; WHY analysis, Missed Opportunity Matrix, and the DOE Causal Analysis Tree, as described in DOE O 232.2, Occurrence Reporting and Processing of Operations Information, Attachment 5 were used to determine causes and

corrective actions for this event.

ISM SUMMARY
ISM Code 1, Define the Scope of Work - Personnel did not have the knowledge to recognize the significance of the difference between types of layers of confinement.
ISM Code 3, Develop and Implement Hazard Controls - Additional training is needed to stress the significance of choosing the correct TRUCON Code and the need to have peer reviews conducted.
ISM Code 5, Provide Feedback and Continuous Improvement – Process reviews and employee input determined that procedural changes and additional training were needed. Peer reviews were also determined to be useful for identifying incorrect TRUCON Code assignments.

HUMAN PERFORMANCE IMPROVEMENT (HPI) ANALYSIS
An analysis based on the application of HPI principles was also performed. The event consequences were limited, although incorrect TRUCON Codes were used in the inter-site shipment from Los Alamos National Laboratory (LANL) to Idaho National Laboratory (INL), once this was recognized, the headspace of the container was re-sampled for flammable gases. The new flammable gas data allowed the waste to be shipped from INL to WIPP using approved TRUCON Codes. The goal of the Waste Certification Official (WCO) who assigned the incorrect TRUCON Codes was to support a shipment of waste to the INL for solid sampling. Based on interviews, the WCO was looking for a TRUCON Code that covered two layers of confinement as identified in the Real Time Radiography (RTR) data for the containers. The WCO was paying attention to the layers of confinement; the WCO did not recognize the significance of the difference between how liner bag layers vs. inner bag layers were treated in the TRUCON Document.
In terms of Error Precursors, the following were identified:

Task Demands – Confusing procedure/Vague Guidance
The TRUCON document is a complex document, the rationale and basis for the derivation of the TRUCON codes are not readily apparent based on simply reading the document. The procedure merely instructs the user to assign a TRUCON code, with no real methodology specified on how the TRUCON code should be assigned. Formal training of WCOs on the TRUCON document is a "read-and-sign" documented on their qualification cards.

Work Environment – Acceptance of "cook booking" practices
As described above, the WCO who assigned the incorrect TRUCON codes recognized the importance of layers of confinement, but did not fully understand the differences between types of confinement layers (i.e., liner bags vs. inner bags). When the WCO found a TRUCON code that encompassed the layers of confinement identified by RTR, the WCO believed that was sufficient.
Individual Capabilities – Unfamiliarity with Task/First Time
The WCO who assigned the incorrect TRUCON codes did not normally perform this task. The WCO was tasked to work inter-site shipments (an infrequent event) and would occasionally assign TRUCON codes to containers with well defined and established waste types and packaging configurations, for example, organic sludges that are repackaged and visually examined in the Advanced Retrieval Project (ARP) facility at INL.

Lack of knowledge (faulty mental model)
The WCO understood the importance that the TRUCON code encompass the layers of confinement identified for the containers, but the WCO did not recognized the impact of different types of confinement layers (i.e., liner bags vs. inner bags) on the selection of the proper TRUCON code.

Natural Tendencies/Human Nature – Assumptions (inaccurate mental picture)
The WCO assumed that if the TRUCON code encompassed the layers of confinement in the container, that the TRUCON code would be appropriate. This assumption did not take into account the differences between types of layers of confinement (i.e., liner bags vs. inner bags).

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23. Evaluation (by Facility Manager/Designee):

The Root Cause Analysis report was issued on 10/3/13 and the associated Corrective Action Plan was approved on 10/10/13. The applicable cause codes, description of causes and corrective actions have been incorporated into this report.

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24. Is Further Evaluation Required?: No

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25. Corrective Actions
Local Tracking System Name: IMPS

1. Brief Waste Certification Officials (WCOs) describing the circumstances of this event and significance of layers of confinement in selecting the correct TRUCON Code.
This corrective action addresses cause codes A3B2C05 and A4B1C01.

Target Completion Date: 10/18/2013	**Tracking ID:** ACT13-245-3

2. Develop a Training Presentation for WCOs that presents the factors involved and their significance in choosing the correct TRUCON Code. All active WCOs and WCOs in training are required to attend this training.
This corrective action addresses cause codes A3B1C04, A4B3C04 and A6B2C04.

Target Completion Date: 11/21/2013	**Tracking ID:** ACT13-245-4

3. Revise CCP-TP-030 to require a WCO peer review for TRUCON Code assignment for all inter-site shipments of TRU Waste.
This corrective action addresses cause codes A3B1C04, A4B3C04 and A6B2C04.

Target Completion Date: 11/21/2013	**Tracking ID:** ACT13-245-5

4.	Incorporate information developed for Corrective Action 2 as required training on WCO qualification card. This corrective action addresses cause codes A3B1C04, A4B3C04 and A6B2C04.	
	Target Completion Date: 11/21/2013	**Tracking ID:** ACT13-245-6

26. Lessons Learned:

27. Similar Occurrence Report Numbers:

EM-CBFO--WTS-WIPP-2012-0012

28. User-defined Field #1:

29. User-defined Field #2:

30. HQ Keyword(s):

10A--Transportation - Shipping Regulation Noncompliance
10D--Transportation - Notice of Violation or Noncompliance from local, state or federal agency
12P--EH Categories - Shipping QA
14D--Quality Assurance - Documents and Records Deficiency
14E--Quality Assurance - Work Process Deficiency

31. HQ Summary:

On August 15, 2013, Waste Isolation Pilot Plant (WIPP) personnel discovered that seven 55-gallon drums of Contact Handled TRU waste had been shipped from Los Alamos National Laboratory to the Idaho National Laboratory and on to the WIPP for disposal using an incorrect TRUCON code. The TRUCON code applies only during shipment and stands for "TRU waste content code". The TRUCON is used to identify the shipment site and the physical and chemical form of the waste, as well as the packaging configuration (e.g., number of bag layers). Certification of the drums was halted and notifications were made to appropriate Central Characterization Program Management. A written report will be submitted to the Nuclear Regulatory Commission within 60 days.

32. DOE Facility Representative Input:

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33. DOE Program Manager Input:

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34. Approvals:

Approved by: KENNEDY, SCOTT J, Facility Manager/Designee

Date: 10/10/2013

Telephone No.: (575) 234-8434

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

3. Copies of waste manifests of CH shipments with payloads disposed of from April 1, 2013 through May 15, 2013, of all RH shipments received from December 13, 2012 through February 15, 2013. In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection.

3.a <u>Copies of waste manifests of CH shipments with payloads disposed of from April 1, 2013 through May 15, 2013. [113 pages</u>] Uniform Hazardous Waste Manifests are used for tracking of shipments.

3.b All RH shipments received from December 13, 2012 through February 15, 2013.

3.c In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection.

The waste manifests requested in the September 11 and 12, 2013 WIPP Inspection-Items (item number 3), are tracked by shipper locations. Therefore the manifests requested are listed by shipper for the date ranges requested.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	1	(575) 885-6883	001600651 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.5694 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 145	1	CM	2639	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, PU-240, SOLID, OXIDE, 1.134 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 188	1	CM	2477	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.09478 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 515	1	CM	1343	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130011 TRACTOR - C - 28 TRAILER - 365
GROSS WEIGHT IN LBS: TP# 145 = 18,718 TP# 188 = 18,265 TP# 515 = 13,919
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STHART
Signature: [signature]
Month Day Year: 03 14 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAMES WITTMAN
Signature: James Wittman
Month Day Year: 03 14 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Beck
Signature: [signature]
Month Day Year: 03 15 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ID4890008952	1	(575) 885-6883	001600664 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR U.S DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, AM-241, PU-240, SOLID, OXIDE, 0.1597 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 166	1	CM	2585	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.6777 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 146	1	CM	2376	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.03215 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 515	1	CM	1321	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130024 TRAC - C - 31 TRLR - 360
GROSS WEIGHT IN LBS: TP# 166 = 18,685 TP# 146 = 17,839 TP# 515 = 13,871
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Judy Pedersen-Campbell
Signature: [signature]
Month Day Year: 03 25 13

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

INT'L

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MASON ERNEST
Signature: [signature]
Month Day Year: 03 25 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

TRANSPORTER

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Alvy Williams
Signature: [signature]
Month Day Year: 03 27 13

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575)885-6883
4. Manifest Tracking Number: 001600665 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR U.S DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, PU-240, AM-241, SOLID, OXIDE, 0.03999 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 171	1	CM	2538	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.0774 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 143	1	CM	2367	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 1.905 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 504	1	CM	1635	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130025 TRACTOR V-28 TRAILER - 374
GROSS WEIGHT IN LBS: TP# 171 = 18,602 TP# 143 = 18,048 TP# 504 = 14,376
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Richard A. NeSmith
Signature: Richard A. NeSmith
Month 03 Day 26 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Richard Godfrey
Signature: Richard Godfrey
Month 03 Day 26 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Bealler
Signature:
Month 03 Day 27 Year 13

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600666 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1954 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 145	1	CM	2293	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, SOLID, OXIDE, 0.6905 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 167	1	CM	2223	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, SOLID, OXIDE, 1.253 TBq, RADIOACTIVE YELLOW-II, T.I. 0.6, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 508	1	CM	684	K	F002	F004	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130026 TRACTOR - V26 TRAILER - 367
GROSS WEIGHT IN LBS: TP# 145 = 17,955 TP# 167 = 18,026 TP# 508 = 12,206
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

GENERATOR

Generator's/Offeror's Printed/Typed Name: Richard A. McSmith
Signature: Richard A. McSmith
Month 03 Day 26 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: PAUL WORGEN
Signature:
Month 03 Day 26 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Beeler
Signature:
Month 03 Day 28 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	1	(575) 885-6883	001600667 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, AM-241, PU-240, SOLID, OXIDE, 0.0891 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 169	1	CM	2480	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.3026 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 177	1	CM	2434	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.1517 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 514	1	CM	1322	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130027 TRAC - C - 38 TRLR - 331
GROSS WEIGHT IN LBS: TP# 169 = 18,455 TP# 177 = 18,482 TP# 514 = 13,861
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LONNEY NATE
Signature: Lonney Nate
Month 04 Day 04 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: LINDA TAYLOR
Signature: Linda Taylor
Month 04 Day 04 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: G Kessler
Signature
Month 04 Day 05 Year 13

GENERATOR / INTL / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600668 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR U.S DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.8686 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 172	1	CM	2488	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.9166 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 178	1	CM	2464	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.006546 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 513	1	CM	1265	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130028 TRAC - C -34 TRLR - 336
GROSS WEIGHT IN LBS: TP# 172 = 18,244 TP# 178 = 18,102 TP# 513 = 13,521
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LONNEY NATE
Signature: Lonney Nate
Month Day Year: 04 04 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Wendell Copeland
Signature:
Month Day Year: 04 04 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: G Kubler
Signature:
Month Day Year: 04 06 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600669 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.1126 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 207	1	CM	2336	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.1543 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 128	1	CM	2327	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.2915 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 502	1	CM	1345	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130029 TRACTOR - V - 25 TRAILER - 370
GROSS WEIGHT IN LBS: TP# 207 = 18,242 TP# 128 = 18,119 TP# 502 = 13,969
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: GARY DYE
Signature:
Month 04 Day 05 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID STARRETT
Signature:
Month 04 Day 05 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: G Kass
Signature:
Month 04 Day 06 Year 13

GENERATOR / TRANSPORTER INT'L / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ID4890008952	1	(575) 885-6883	001600670 GBF

GENERATOR

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC — U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.2775 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 137	1	CM	2485	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.6576 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 189	1	CM	2464	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.3177 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 512	1	CM	1334	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130030 TRACTOR - V24 TRAILER - 372
GROSS WEIGHT IN LBS: TP# 137 = 18,598 TP# 189 = 17,812 TP# 512 = 13,734
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: GARY Dye — Signature: [signature] — Month 04 Day 05 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: TERRY JAMES — Signature: [signature] — Month 04 Day 05 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: G Kessler — Signature: [signature] — Month 04 Day 06 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	2	(575)885-6883	001600671 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.02081 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 156	1	CM	2473	K	F001	F002	F005
						D004	D005	D008
	2. PCB Container #s ARP71144, ARP71088, ARP71094, ARP71101, ARP71162, ARP71180, ARP70900, ARP71112, ARP71104, ARP71148, ARP71159, ARP71116, ARP71154, ARP71098, Sludge, PCB Out of Service Date 8/2/2012, PCB Weight 1997.2 kg							
RQ	3. 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.02304 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 209	1	CM	2394	K	F001	F002	F005
						D004	D005	D008
	4. PCB Container #s ARP71108, ARP70947, ARP71111, ARP71142, ARP71147, ARP71133, ARP71174, ARP71150, ARP71152, ARP71007, ARP71131, ARP71182, ARP71114, ARP71109, Sludge, PCB Out of Service Date 8/8/2012, PCB Weight 1918.2 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN; RACHELLE HUBLER,
REF. SHIPMENT # IN130031 TRACTOR - C27 TRAILER - 348
GROSS WEIGHT IN LBS: TP# 156 = 18,502 TP# 209 = 18,217 TP# 503 = 13,355
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: [signature]
Month Day Year: 04 06 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Stephen M. Eagson
Signature: Stephen M Eagson
Month Day Year: 04 06 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible]
Signature: [signature]
Month Day Year: 04 07 13

GENERATOR / TRANSPORTER INT'L / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: ID4890008952

22. Page 2 of 2

23. Manifest Tracking Number: 001600671GBF

24. Generator's Name: IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.01119 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 503	1	CM	1183	K	F001	F002	F005
						D004	D005	D008
	PCB Container #s ARP71028, ARP71120, ARP71025, ARP71035, ARP71002, ARP71183, ARP71257, Sludge, PCB Out of Service Date 7/31/2012, PCB Weight 945.4 kg							

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600672 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1375 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 168	1	CM	2349	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.1714 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 152	1	CM	2263	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1853 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 501	1	CM	1337	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130032 TRACTOR - C - ~~[illegible]~~ 24 TRAILER- 369
GROSS WEIGHT IN LBS: TP# 168 = 18,305 TP# 152 = 17,909 TP# 501 = 13,827
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: [signature]
Month 04 Day 06 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael W Akins
Signature: [signature]
Month 04 Day 06 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Gary Kessler
Signature: [signature]
Month 04 Day 07 Year 13

GENERATOR / TRANSPORTER INT'L / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	1	(575)885-6883	001600673 GBF

GENERATOR

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC. — U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, AM-241, PU-240, SOLID, OXIDE, 0.02025 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 166	1	CM	2471	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.2371 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 146	1	CM	2333	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1182 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 515	1	CM	1286	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130033 TRACTOR - C38 TRAILER - 378
GROSS WEIGHT IN LBS: TP# 166 = 18,435 TP# 146 = 17,743 TP# 515 = 13,794
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: GARN Dye — Signature: [signature] — Month 04 Day 12 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Linda Taylor — Signature: [signature] — Month 04 Day 12 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: JOSEPH BEALLER — Signature: [signature] — Month 04 Day 13 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 2
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001601299 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE,
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.07591 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 149	1	CM	2570	K	F001	F002	F005
						D004	D005	D008
	2. X PCB container #'s ARP71189, ARP71265, ARP71164, ARP71188, ARP71157, ARP71106, ARP71259, ARP71097, ARP71207, ARP71121, ARP71274, ARP71107, ARP71081, ARP71208, sludge, PCB out of service date 08/08/2012, PCB weight 2093.8 kg							
RQ	3. X 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.02918 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 201	1	CM	2471	K	F001	F002	F005
						D004	D005	D008
	4. X PCB container #'s ARP71204, ARP71261, ARP71127, ARP71176, ARP71206, ARP71175, ARP71271, ARP70911, ARP71266, ARP71184, ARP71272, ARP71018, ARP71268, ARP70898, sludge, PCB out of service date 07/30/2012, PCB weight 1994.6 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130034 TRAC - V30 TRLR - 340
GROSS WEIGHT IN LBS: TP# 149 = 18,848 TP# 201 = 18,377 TP# 507 = 12,993
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Judy Pedersen-Campbell
Signature: [signature]
Month 4 Day 19 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John A Cox
Signature: [signature]
Month 4 Day 19 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1	2.	3.	4.
H132	H132	H132 4/20/13	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Pocker
Signature: [signature]
Month 04 Day 20 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	ID4890008952		001601299GBF

24. Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE,
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.03368 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 507	1	CM	936	K	F001	F002	F005
						D004	D005	D008

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

H132 4-26-13

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	1	(575)885-6883	001600675 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR U.S DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, SOLID,OXIDE, 0.7562 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 179	1	CM	2472	K	F001 F002 F005 D004 D005 D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.0815 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 196	1	CM	2456	K	F001 F002 F005 D004 D005 D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.8871 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 506	1	CM	1339	K	F001 F002 F005 D004 D005 D008
	4.					

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130035 TRAC - C34 TRLR - 364
GROSS WEIGHT IN LBS: TP# 179 = 18,270 TP# 196 = 18,035 TP# 506 = 13,875
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: GARN Dye
Signature: [signature]
Month 04 Day 12 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael L Dean
Signature: [signature]
Month 04 Day 12 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Beallor
Signature: [signature]
Month 04 Day 13 Year 13

GENERATOR
INTL
TRANSPORTER
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 2
3. Emergency Response Phone: (575)885-6883
4. Manifest Tracking Number: 001600676 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.03177 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 180	1	CM	2477	K	F001	F002	F005
						D004	D005	D008
	3X PCB Container #s, ARP71163, ARP71110, ARP70921, ARP71161 ARP71155, ARP70919, ARP71023, ARP70799, ARP71135, ARP71091 ARP71200, ARP71151, ARP71130, ARP71171, Sludge, PCB Out of Service Date 07/16/2012, PCB Weight 2001.2 kg							
RQ	3X 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.01923 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 134	1	CM	2330	K	F001	F002	F005
						D004	D005	D008
	4X PCB Container #, ARP71270, ARP71066, ARP71102, ARP71258, ARP71253, ARP71008, ARP71169, ARP71194, ARP71039, ARP71199 ARP71202, ARP71181, ARP71260, ARP71122, Sludge, PCB Out of Service Date 08/09/2012, PCB Weight 1853.8 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130036 TRACTOR - V29 TRAILER - 375
GROSS WEIGHT IN LBS: TP# 180 = 18,286 TP# 134 = 18,035 TP# 509 = 13,745
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Judy Pedersen-Campbell
Signature: [signature]
Month 4 Day 19 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: THOMAS NAVARETTE
Signature: [signature]
Month 4 Day 19 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 ~~H132~~ 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Podor
Signature: [signature]
Month 04 Day 20 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	ID4890008952		001600676GBF

24 Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26 Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 1.104 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 509	1	CM	1242	K	F001	F002	F005
						D004	D005	D008

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

HBC 11/20/13

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600677 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.2688 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 130	1	CM	2578	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.5898 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 182	1	CM	2536	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7,AM-241, SOLID, OXIDE, 0.1497 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 505	1	CM	1309	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130037 TRACTOR - C 31 TRAILER - 326
GROSS WEIGHT IN LBS: TP# 130 = 18,537 TP# 182 = 18,121 TP# 505 = 13,618
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: [signature]
Month 04 Day 20 Year 13

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Don French
Signature: Don French
Month 04 Day 20 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Pro[illegible]
Signature: [signature]
Month 04 Day 21 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600678 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-238, PU-240, SOLID, OXIDE, 0.4956 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 136	1	CM	2415	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1267 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 147	1	CM	2397	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.113 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 510	1	CM	1345	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130038 TRACTOR - C-35 TRAILER- 358
GROSS WEIGHT IN LBS: TP# 136 = 18,714 TP# 147 = 18,034 TP# 510 = 13,935
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: [signature]
Month Day Year: 04 20 13

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Brad Steinman
Signature: Brad Steinman
Month Day Year: 04 20 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

TRANSPORTER INT'L

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Proctor
Signature: [signature]
Month Day Year: 04 21 13

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600679 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.4344 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 127	1	CM	2356	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.2515 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 190	1	CM	2352	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, SOLID, OXIDE, 0.0508 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 508	1	CM	1338	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130039 TRACTOR - C - 28 TRAILER - 379
GROSS WEIGHT IN LBS: TP# 127 = 17,956 TP# 190 = 17,810 TP# 508 = 13,809
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: S.R. DANCE
Signature: S.R. Dance
Month Day Year: 04 25 13

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAMES WITTMAN
Signature: James Wittman
Month Day Year: 04 25 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4. N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ANDY COOPER
Signature:
Month Day Year: 04 26 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	2	(575)885-6983	001600680 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC — U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.02338 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 184	1	CM	2423	K	F001	F002	F005
						D004	D005	D008
	2. PCB Container #s, ARP71123, ARP71250, ARP70451, ARP71197, ARP71103, ARP71119, ARP71170, ARP71092, ARP71178, ARP71099, ARP71072, ARP71126, ARP71190, ARP71251, Sludge, PCB Out of Service Date 08/07/2012, PCB Weight 1,946.6 kg							
RQ	3. 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.01862 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 142	1	CM	2377	K	F001	F002	F005
						D004	D005	D008
	4. PCB Container #s, ARP71132, ARP70931, ARP71185, ARP71263, ARP71137, ARP70893, ARP71179, ARP71156, ARP71173, ARP71187, ARP71070, ARP71074, ARP71166, ARP71195, Sludge, PCB Out of Service Date 07/30/2012, PCB Weight 1,900.8 kg							

14. Special Handling Instructions and Additional Information
RETURNED SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130040 TRACTOR V - 24 TRAILER - 320
GROSS WEIGHT IN LBS: TP# 184 = 18,211 TP# 142 = 18,060 TP# 504 = 13,520
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: J. Pedersen-Campbell — Signature: [signature] — Month 4 Day 26 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jose A. Brito III — Signature: [signature] — Month 4 Day 26 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: A Cooper — Signature: [signature] — Month 04 Day 27 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	ID4890008952		001600680GBF

24. Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.5079 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 504	1	CM	1246	K	F001	F002	F005
						D004	D005	D008

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600682 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.8689 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 156	1	CM	2357	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, PU-240, AM-241, SOLID, OXIDE, 0.4247 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 209	1	CM	2328	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.4957 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 503	1	CM	1342	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130042 TRAC - V - 26 TRLR - 348
GROSS WEIGHT IN LBS: TP# 156 = 18,231 TP# 209 = 18,057 TP# 503 = 13,696
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Judy Pedersen-Campbell
Signature: [signature]
Month 4 Day 26 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: AUL NORDEN
Signature:
Month 04 Day 26 Year 13

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ANDY COOPER
Signature: [signature]
Month 04 Day 27 Year 13

GENERATOR / INTL / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600681 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, PU-238, SOLID, OXIDE, 0.3717 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 169	1	CM	2506	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.2866 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 177	1	CM	2362	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1455 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 514	1	CM	1240	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130041 TRACTOR - C - 30 TRAILER - 331
GROSS WEIGHT IN LBS: TP# 169 = 18,512 TP# 177 = 18,324 TP# 514 = 13,680
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: S.R. DANCE
Signature: S.R. Dance
Month 04 Day 25 Year 13

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Don French
Signature: Don French
Month 04 Day 25 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ANDY COOPER
Signature:
Month 04 Day 26 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	1	(575)885-6883	001600683 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR U.S DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.4677 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 166	1	CM	2539	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, SOLID, OXIDE, 0.8885 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 171	1	CM	2373	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, SOLID, OXIDE, 0.1004 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 512	1	CM	1332	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130043 TRAC - C - 35 TRLR - 359
GROSS WEIGHT IN LBS: TP# 166 = 18,354 TP# 171 = 18,051 TP# 512 = 13,729
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Richard A. NeSmith
Signature: Richard A. NeSmith
Month 04 Day 27 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bryan Steinman
Signature: Bryan Stein
Month 04 Day 27 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ANDY COOPER
Signature
Month 04 Day 28 Year 13

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 2
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600684 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.0361 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 185	1	CM	2404	K	F001	F002	F005
						D004	D005	D008
	2X PCB Container #s, ARP71024, ARP71062, ARP71065, ARP70856 ARP71034, ARP71036, ARP71063, ARP70770, ARP71067, ARP70913 ARP70803, ARP70809, ARP71087, ARP70642, Sludge, PCB Out of Service Date 06/18/2012, PCB Weight 1927.6 kg							
RQ	3X 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.03226 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 206	1	CM	2362	K	F001	F002	F005
						D004	D005	D008
	4X PCB Container #s, ARP70901, ARP70825, ARP71084, ARP71042 ARP71068, ARP71083, ARP70922, ARP70805, ARP71064, ARP71073 ARP71045, ARP71069, ARP71085, ARP71046, Sludge, PCB Out of Service Date 07/09/2012, PCB Weight 1885.8 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130044 TRACTOR - C - 27 TRAILER - 327
GROSS WEIGHT IN LBS: TP# 185 = 18,169 TP# 206 = 18,238 TP# 513 = 13,758
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Richard A. NeSmith
Signature: Richard A. NeSmith
Month 04 Day 27 Year 13

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STEPHEN M EASDON
Signature: Stephen M. Easdon
Month 04 Day 27 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ANDY COOPER
Signature:
Month 04 Day 28 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	ID4890008952		001600684GBF

24. Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.01256 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 513	1	CM	1372	K	F001	F002	F005
						D004	D005	D008

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600685 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, SOLID, OXIDE, 0.3438 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 186	1	CM	2347	K	F001	F002	F005
						D004	D005	D003
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.1333 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 197	1	CM	2277	K	F001	F002	F005
						D004	D005	D003
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1722 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 501	1	CM	1332	K	F001	F002	F005
						D004	D005	D003
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130045 TRACTOR - C34 TRAILER - 368
GROSS WEIGHT IN LBS: TP# 186 = 17,955 TP# 197 = 17,630 TP# 501 = 13,816
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

GENERATOR

Generator's/Offeror's Printed/Typed Name: GARY Dye
Signature: [signature]
Month 04 Day 29 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael L Dean
Signature: [signature]
Month 04 Day 29 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Podbi
Signature: [signature]
Month 05 Day 01 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ID4890008952	1	(575)885-6883	001600686 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, PU-238, SOLID, OXIDE, 0.07294 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 203	1	CM	2331	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, PU-238, AM-241, SOLID, OXIDE, 0.05321 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 164	1	CM	2207	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, AM-241, PU-240, SOLID, OXIDE, 0.4927 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 502	1	CM	1299	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130046 TRACTOR - C 33 TRAILER - 367
GROSS WEIGHT IN LBS: TP# 203 = 17,950 TP# 164 = 17,826 TP# 502 = 13,867
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: GARY Dye
Signature: Gary Dye
Month 04 Day 29 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MASON ERNEST
Signature: Mason Ernest
Month 04 Day 29 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Proctor
Signature
Month 05 Day 01 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600687 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.02534 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 172	1	CM	2446	K	F001	F002	F005
						D004	D005	D008
	2 PCB Container #s, ARP70939, ARP71041, ARP70929, ARP71040, ARP70832, ARP70896, ARP71026, ARP71053, ARP71086, ARP70915, ARP70862, Sludge, ARP71061, ARP71044, Soil, PCB Out of Service Date 07/18/2012, PCB Weight 1,847 kg							
RQ	3 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, AM-241, PU-240, SOLID, OXIDE, 0.1656 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 173	1	CM	2250	K	F001	F002	F005
						D004	D005	D008
RQ	4 3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, PU-241, SOLID, OXIDE, 0.01132 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 515	1	CM	1391	K	F001	F002	F005
						D006	D007	D008

14. Special Handling Instructions and Additional Information
RETURNED SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130047 TRACTOR V-29 TRAILER - 350
GROSS WEIGHT IN LBS: TP# 172 = 18,396 TP# 173 = 18,024 TP# 515 = 13,864
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LONNEY NATE
Signature: Lonney Nate
Month 05 Day 01 Year 13

16. International Shipments ☑ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JOE WOLF
Signature: Joe Wolf
Month 5 Day 1 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Probst
Signature:
Month 05 Day 03 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600688 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: **(208)557-6607**

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.327 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 161	1	CM	2313	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.3116 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 160	1	CM	2170	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.03687 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 506	1	CM	1339	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130048 TRACTOR - C36 TRAILER - 356
GROSS WEIGHT IN LBS: TP# 161 = 18,034 TP# 160 = 17,643 TP# 506 = 13,875
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LONNEY NATE
Signature: Lonney Nate
Month 05 Day 01 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Danny Sanders
Signature: Danny Sanders
Month 05 Day 01 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Podlic
Signature:
Month 05 Day 03 Year 13

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ID4890008952	1	(575) 885-6883	001600689 GBF

GENERATOR

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: **(208)557-6607**

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name
CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, SOLID, OXIDE, 0.036 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 144	1	CM	1724	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, SOLID, OXIDE, 0.3158 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 125	1	CM	1386	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, PU-241, SOLID, OXIDE, 0.05412 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 202	1	CM	1480	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130049 TRACTOR - C 29 TRAILER - 361
GROSS WEIGHT IN LBS: TP# 144 = 16,442 TP# 125 = 16,313 TP# 202 = 15,894
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: Verl A. Stuart
Month 05 Day 01 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James Pierce
Signature: James Pierce
Month 05 Day 01 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: MIKE Pacol
Signature: Mike
Month 05 Day 03 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	2	(575)885-6883	001600690 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, SOLID, OXIDE, 0.03465 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 180	1	CM	2104	K	F001	F002	F005
						D022	D026	D027
	2. X PCB Container #, BN10489103, Sludge, PCB Out of Service Date 11/26/2012, PCB Weight 993 kg							
RQ	3. X 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.01297 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 132	1	CM	2048	K	F001	F002	F005
						D022	D026	D027
	4. X PCB Container #, BN10489104, Sludge, PCB Out of Service Date 11/27/2012, PCB Weight 937 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130050 TRACTOR - C - 38 TRAILER - 346
GROSS WEIGHT IN LBS: TP# 180 = 17,290 TP# 132 = 17,263 TP# 134 = 16,832
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: [signature]
Month 05 Day 01 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: LINDA TAYLOR
Signature: [signature]
Month 05 Day 01 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Podo
Signature: [signature]
Month 05 Day 02 Year 13

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	ID4890008952		001600690GBF

24. Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.005607 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 134	1	CM	1863	K	F001	F002	F005
						D022	D026	D027
	PCB Container #, BN10489108, Sludge, PCB Out of Service Date 11/27/2012, PCB Weight 751.8 kg							

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600691 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, SOLID, OXIDE, 1.332 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 130	1	CM	2405	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, SOLID, OXIDE, 1.162 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 182	1	CM	2334	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.3528 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 505	1	CM	1308	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130051 TRACTOR - V - 20 TRAILER - 370
GROSS WEIGHT IN LBS: TP# 130 = 18,384 TP# 182 = 17,905 TP# 505 = 13,647
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: S.R. DANCE
Signature: S.R. Dance
Month Day Year: 05 02 13

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

INTL

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DOUGLAS FURSE
Signature:
Month Day Year: 5 2 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

TRANSPORTER

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Long
Signature:
Month Day Year: 05 03 13

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	ID4890008952	1	(575) 885-6883	001600692 GBF

GENERATOR

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC — U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, SOLID, OXIDE, 1.121 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 149	1	CM	2329	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.5052 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 201	1	CM	2329	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.3443 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 507	1	CM	1276	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130052 TRACTOR - V - 24 TRAILER - 340
GROSS WEIGHT IN LBS: TP# 149 = 18,303 TP# 201 = 18,050 TP# 507 = 13,743
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: S.R. DANCE — Signature: S.R. Dance — Month 05 Day 02 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: WILLIAM CRAIG VOIGHT — Signature: William Craig Voight — Month 5 Day 2 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Loy — Signature: [signature] — Month 05 Day 03 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 2
3. Emergency Response Phone: (575)885-6883
4. Manifest Tracking Number: 001600693 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.007791 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 167	1	CM	2000	K	F001	F002	F005
						D008	D022	D026
	2. X PCB container # BN10489105, sludge, PCB out of service date 11/26/2012, PCB weight 888.8 kg							
RQ	3. X 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID,OXIDE, 0.00743 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 200	1	CM	1952	K	F001	F002	F005
						D008	D022	D026
	4. X PCB container #BN10489106, sludge, PCB out of service date 11/27/2012, PCB weight 841.4 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130053 TRAC - C - 37 TRLR - 336
GROSS WEIGHT IN LBS: TP# 167 = 17,375 TP# 200 = 16,967 TP# 145 = 16,947
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Judy Pedersen-Campbell
Signature: [signature]
Month 5 Day 3 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Byron L. Steele
Signature: [signature]
Month 05 Day 03 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Long
Signature: [signature]
Month 05 Day 04 Year 13

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	ID4890008952		001600693GBF

24. Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, SOLID, OXIDE, 0.00933 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 145	1	CM	1907	K	F001	F002	F005
						D008	D022	D026
	PCB container # BN10489107, sludge, PCB out of service date 11/28/2012, PCB weight 796.4 kg							

32. Special Handling Instructions and Additional Information

GENERATOR

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575)885-6883
4. Manifest Tracking Number: 001600694 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.611 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 136	1	CM	2451	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.1849 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 147	1	CM	2447	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.0254 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 510	1	CM	1262	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130054 TRACTOR - C - 35 TRAILER - 357
GROSS WEIGHT IN LBS: TP# 136 = 18,794 TP# 147 = 18,145 TP# 510 = 13,752
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Judy Pedersen-Campbell
Signature: Judy Pedersen Campbell
Month 05 Day 03 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Brad Steinman
Signature: Brad Steinman
Month 05 Day 03 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Long
Signature
Month 05 Day 04 Year 13

GENERATOR / TRANSPORTER INT'L / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 2
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600695 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.009532 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 137	1	CM	2151	K	F001	F002	F005
						D008	D022	D026
	2. PCB Container # BN10489102, Sludge, PCB Out of Service Date 11/27/12, PCB Weight 1039.6 kg							
RQ	3. 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.009514 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 133	1	CM	1820	K	F001	F002	F005
						D008	D022	D026
	4. PCB Container # BN10489109, Sludge, PCB Out of Service Date 11/29/12, PCB Weight 708.8 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN; RACHELLE HUBLER,
REF. SHIPMENT # IN130055 TRACTOR - V31 TRAILER - 378
GROSS WEIGHT IN LBS: TP# 137 = 17,933 TP# 133 = 16,774 TP# 189 = 16,284
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Richard A. NeSmith
Signature: Richard A. NeSmith
Month 05 Day 04 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: TERRY JAMES
Signature: Terry James
Month 05 Day 04 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark W
Signature
Month 05 Day 05 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number ID4890008952	22. Page 2 of 2	23. Manifest Tracking Number 001600695GBF

24. Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.008024 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 189	1	CM	1738	K	F001	F002	F005
						D008	D022	D026
	PCB Container # BN10489110, Sludge, PCB Out of Service Date 11/28/12, PCB Weight 627.4 kg							

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ID4890008952	1	(575) 885-6883	001600696 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC — U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.5876 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 183	1	CM	2133	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, PU-238, AM-241, SOLID, OXIDE, 0.0519 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 187	1	CM	2041	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, AM-241, PU-240, SOLID, OXIDE, 0.03439 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 140	1	CM	1295	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130056 TRACTOR - V25 TRAILER - 329
GROSS WEIGHT IN LBS: TP# 183 = 17,678 TP# 187 = 17,319 TP# 140 = 15,946
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Richard A. NeSmith — Signature: Richard A. NeSmith — Month 05 Day 04 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Richard Dustin 5-4-13 — Signature: — Month 05 Day 04 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mark Long — Signature: — Month 05 Day 05 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600697 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, SOLID, OXIDE, 0.1452 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 170	1	CM	2223	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.1517 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 135	1	CM	2137	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.145 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 162	1	CM	1166	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130057 TRACTOR - C27 TRAILER - 347
GROSS WEIGHT IN LBS: TP# 170 = 17,905 TP# 135 = 17,518 TP# 162 = 15,726
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: [signature]
Month 05 Day 06 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Edward Armendariz
Signature: Edward Armendariz
Month 05 Day 06 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4. N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: A COOPER
Signature: [signature]
Month 05 Day 07 Year 13

GENERATOR — TRANSPORTER INT'L — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600698 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, PU-238, SOLID, OXIDE, 0.3074 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 175	1	CM	2234	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1799 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 195	1	CM	1751	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, SOLID, OXIDE, 2.724 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 178	1	CM	1300	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130058 TRACTOR - C34 TRAILER - 354
GROSS WEIGHT IN LBS: TP# 175 = 17,806 TP# 195 = 16,501 TP# 178 = 16,147
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature: Verl A. Stuart
Month 05 Day 06 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Wendell Copeland
Signature: Wendell Copeland
Month 05 Day 06 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: A COOPER
Signature:
Month 05 Day 08 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 2
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600699 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, AM-241, PU-239, PU-240, SOLID, OXIDE, 0.01914 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 127	1	CM	2368	K	F001	F002	F005
						D008	D022	D026
	3X PCB Container # BN10489100, Sludge, PCB Out of Service Date 11/29/2012, PCB Weight 1256.6 kg							
RQ	3X 2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.009433 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT # 152	1	CM	2214	K	F001	F002	F005
						D008	D022	D026
	4X PCB Container # BN10489101, Sludge, PCB Out of Service Date11/20/2012, PCB Weight 1102.6 kg							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN; RACHELLE HUBLER,
REF. SHIPMENT # IN130059 TRACTOR - V27 TRAILER - 379
GROSS WEIGHT IN LBS: TP# 127 = 17,823 TP# 152 = 17,642 TP# 508 = 12,908
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER IS WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LONNEY NATE
Signature: Lonney Nate
Month Day Year: 05 07 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Lee Matthews
Signature:
Month Day Year: 05 07 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year: ~~05 07 13~~ LDM 5/7/13

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Russ Strobl
Signature:
Month Day Year: 05 09 13

GENERATOR — TRANSPORTER INT'L — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number ID4890008952	22. Page 2 of 2	23. Manifest Tracking Number 001600699GBF

24. Generator's Name IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, SOLID, OXIDE, 0.06644 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT # 508	1	CM	930	K	F001	F002	F005
						D004	D005	D008

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600700 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, SOLID, OXIDE, 2.507 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 169	1	CM	2425	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, PU-238, SOLID, OXIDE, 0.07791 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 177	1	CM	2346	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, AM-241, PU-240, SOLID, OXIDE, 0.08229 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 514	1	CM	1254	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130060 TRACTOR - C28 TRAILER - 369
GROSS WEIGHT IN LBS: TP# 169 = 18,334 TP# 177 = 18,289 TP# 514 = 13,710
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LONNEY NATE
Signature: Lonney Nate
Month 05 Day 07 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAMES WITTMAN
Signature: James Wittman
Month 05 Day 07 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Russ Stroble
Signature: Russ Stroble
Month 05 Day 09 Year 13

GENERATOR | TRANSPORTER INT'L | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600701 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (505)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.3654 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 166	1	CM	2432	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.2556 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 171	1	CM	2384	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, SOLID, OXIDE, 0.2651 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 512	1	CM	1314	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130061 TRACTOR - C - 36 TRAILER - 362
GROSS WEIGHT IN LBS: TP# 166 = 18,349 TP# 171 = 18,263 TP# 512 = 13,880
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Gary Dye
Signature: [signature]
Month 05 Day 08 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Claude A. Berbe
Signature: [signature]
Month 05 Day 08 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Russ Stroble
Signature: [signature]
Month 05 Day 09 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (575) 885-6883
4. Manifest Tracking Number: 001600702 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC FOR THE U.S. DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, AM-241, PU-240, SOLID, OXIDE, 1.125 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 156	1	CM	2530	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-238, PU-239, SOLID, OXIDE, 2.239 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 209	1	CM	2467	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-240, AM-241, SOLID, OXIDE, 0.4031 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 503	1	CM	1235	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130062 TRAC - C - 29 TRLR - 364
GROSS WEIGHT IN LBS: TP# 156 = 18,613 TP# 209 = 18,363 TP# 503 = 13,461
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: GARN Dye
Signature: [signature]
Month 05 Day 08 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James Pierce
Signature: James Pierce
Month Day Year
Transporter 2 Printed/Typed Name:
Signature:
Month 05 Day 08 Year 13

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Russ Stroble
Signature: [signature]
Month 05 Day 10 Year 13

GENERATOR — TRANSPORTER INT'L — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of: 1
3. Emergency Response Phone: (575)885-6883
4. Manifest Tracking Number: 001600703 GBF

5. Generator's Name and Mailing Address
IDAHO NATIONAL LABORATORY FOR U.S. DEPT. OF ENERGY
850 ENERGY DRIVE
IDAHO FALLS ID 83401
Generator's Phone: (208)557-6607

Generator's Site Address (if different than mailing address)
AMWTP
HIGHWAY 20 AND VAN BUREN BLVD
SCOVILLE ID 83415

6. Transporter 1 Company Name: VISIONARY SOLUTIONS, LLC
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NUCLEAR WASTE PARTNERSHIP, LLC, FOR U.S DOE
30 MILES E. OF CARLSBAD ON JAL HIGHWAY
EDDY COUNTY NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, PU-238, PU-240, AM-241, SOLID, OXIDE, 0.1979 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 203	1	CM	2352	K	F001	F002	F005
						D004	D005	D008
RQ	2. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.4728 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9218/B(U)F-96, TRUPACT# 164	1	CM	2325	K	F001	F002	F005
						D004	D005	D008
RQ	3. UN3328, WASTE RADIOACTIVE MATERIAL, TYPE B(U) PACKAGE, FISSILE, 7, PU-239, AM-241, PU-240, SOLID, OXIDE, 0.1846 TBq, RADIOACTIVE YELLOW-II, T.I. 0.2, C.S.I. 0.0, USA/9279/B(U)F-96, TRUPACT# 502	1	CM	1341	K	F001	F002	F005
						D004	D005	D008
	4.							

14. Special Handling Instructions and Additional Information
RETURN SIGNED ORIGINALS WITHIN 30 DAYS TO GENERATOR ATTN: RACHELLE HUBLER
REF. SHIPMENT # IN130063 TRAC - V - 20 TRLR - 344
GROSS WEIGHT IN LBS: TP# 203 = 17,996 TP# 164 = 18,085 TP# 502 = 13,960
PREPARED UNDER CONTRACT # DE-EM0001467 ERI PROVIDER - WIPP CMR

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: VERL A. STUART
Signature:
Month 05 Day 09 Year 13

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DOUGLAS FORSE
Signature:
Month 5 Day 9 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Bealler
Signature:
Month 05 Day 10 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784047 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 3.185 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-134	1	CM	2082	K	F001 F002 F005 D004 D005 D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 1.657 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-125	1	CM	1878	K	F001 F002 F005 D004 D005 D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.025 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-143	1	CM	1058	K	F001 F002 F005 D004 D005 D006
	4.					

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130016, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-33, TRAILER # C-333
GROSS WEIGHT IN KILOGRAMS: TP#134 = 7841 KG, TP#125 = 7601 KG, TP#143 = 6792 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: Lance Lackas — Month 03 Day 14 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joe A Martinez — Signature: Joe A Martinez — Month 03 Day 14 Year 13
Transporter 2 Printed/Typed Name: Don French — Signature: Don French — Month 03 Day 15 Year 13

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Realle — Signature: [signature] — Month 03 Day 15 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784052 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 3.272 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-203	1	CM	1803	K	F001	F002	F004
						F005	D004	D005
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238, 3.449 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-139, HRCQ	1	CM	1759	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 5.815 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-130, HRCQ	1	CM	1605	K	F001	F002	F004
						F005	D004	D005

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130021, LANL POC: ONESIMO A. MARTINEZ (505)-231-5153, ERG #165, TRACTOR # C-35, TRAILER # V-342
GROSS WEIGHT IN KILOGRAMS: TP#203 = 7529 KG, TP#139 = 7480 KG, TP#130 = 7454 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ONESIMO A. MARTINEZ — Signature: [signature] — Month 03 Day 20 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Parker — Signature: [signature] — Month 3 Day 21 Year 13
Transporter 2 Printed/Typed Name: Brad Steinman — Signature: Brad Steinman — Month 03 Day 21 Year 13

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: G Kesh — Signature: [signature] — Month 03 Day 21 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784053 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE
U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC
U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 1.776 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-191	1	CM	1800	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239, 4.955 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-144, HRCQ	1	CM	1616	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.832 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-182	1	CM	1605	K	F001	F002	F004
						F005	D004	D005
	X							

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130022, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-26, TRAILER # V-322
GROSS WEIGHT IN KILOGRAMS: TP#191 = 7458 KG, TP#144 = 7337 KG, TP#182 = 7308 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS
Signature: Lance Lackas
Month 03 Day 21 Year 13

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

INT'L

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Parker
Signature: Parker
Month 3 Day 22 Year 13
Transporter 2 Printed/Typed Name: Tim Worden
Signature:
Month 3 Day 22 Year 13

TRANSPORTER

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

DESIGNATED FACILITY

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Prado
Signature:
Month 03 Day 22 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NM0890010515	1	(505) 667-6211	010784055 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.592 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/B(u)F-96, TP-134	1	CM	1148	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.070 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/B(u)F-96, TP-181	1	CM	963	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.066 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/B(u)F-96, TP-200	1	CM	916	K	F001	F002	F005
						D004	D005	D006
	X							

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130024, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-34, TRAILER # V-371
GROSS WEIGHT IN KILOGRAMS: TP#134 = 6907 KG, TP#181 = 6636 KG, TP#200 = 6646 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 03 Day 26 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Wendell Copeland — Signature: [signature] — Month 03 Day 26 Year 13

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Alvy Williams — Signature: [signature] — Month 03 Day 26 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784056 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239, 7.201 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-195, HRCQ	1	CM	1279	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.046 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-132	1	CM	1031	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 1.934 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-173	1	CM	987	K	F001	F002	F004
						F005	D004	D005

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130025, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-~~21~~ 22, TRAILER # V-378
GROSS WEIGHT IN KILOGRAMS: TP#195 = 6928 KG, TP#132 = 6799 KG, TP#173 = 6828 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

3-26-13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 03 Day 26 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: VINCENT D SHOAP — Signature: [signature] — Month 03 Day 26 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Alvy Williams — Signature: [signature] — Month 03 Day 26 Year 13

GENERATOR — TRANSPORTER INTL — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NM0890010515	1	(505) 667-6211	010784057 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238, 0.05369 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-170	1	CM	1800	K	F001	F002	F004
						F005	F006	F007
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 2.842 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-175	1	CM	1642	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 1.423 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-135	1	CM	1506	K	F001	F002	F005
						D004	D005	D006
	4.							

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130026, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-25, TRAILER # C-353
GROSS WEIGHT IN KILOGRAMS: TP#170 = 7614 KG, TP#175 = 7400 KG, TP#135 = 7229 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 03 Day 27 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Starrett — Signature: [signature] — Month 03 Day 27 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Joseph Beall — Signature: [signature] — Month 03 Day 27 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784058 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239, 0.03697 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-190	1	CM	1896	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 0.01324 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-142	1	CM	1107	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 1.912 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-155	1	CM	997	K	F001	F002	F005
						D004	D005	D006
	K							

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130027, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-28, TRAILER # V-330
GROSS WEIGHT IN KILOGRAMS: TP#190 = 7538 KG, TP#142 = 6830 KG, TP#155 = 6771 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: Lance Lackas — Month 04 Day 02 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GERALD BLAINE BARNES — Signature: Gerald Blaine Barnes — Month 04 Day 02 Year 13

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Proctor — Signature: [signature] — Month 04 Day 13 Year 13

GENERATOR — TRANSPORTER INT'L — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784059 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE
U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC
U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 0.2512 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-202	1	CM	1820	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 0.02624 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-161	1	CM	1649	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 0.2700 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-125	1	CM	1520	K	F001	F002	F005
						D004	D005	D006

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130028, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-27, TRAILER # V-342
GROSS WEIGHT IN KILOGRAMS: TP#202 = 7537 KG, TP#161 = 7432 KG, TP#125 = 7244 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS
Signature: Lance Lackas
Month 04 Day ~~03~~ 04 Year 13 (4-4-13)

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Parker
Signature: Rick Parker
Month 04 Day 04 Year 13
Transporter 2 Printed/Typed Name: JAMES H. SMIGIELSKI
Signature:
Month 04 Day 04 Year 13

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Podo
Signature:
Month 04 Day 04 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784060 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 0.2582 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-182	1	CM	1658	K	F001 F002 F005 D004 D005 D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 0.4495 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-160	1	CM	1618	K	F001 F002 F005 D004 D005 D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Pu238, 0.2175 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-174	1	CM	967	K	F001 F002 F005 D004 D005 D006

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130029, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-36, TRAILER # C-326
GROSS WEIGHT IN KILOGRAMS: TP#182 = 7362 KG, TP#160 = 7366 KG, TP#174 = 6752 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 04 Day 04 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Randy Anderson — Signature: Randy Anderson — Month 04 Day 04 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Probst — Signature: [signature] — Month 04 Day 05 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784061 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.930 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/B(u)F-96, TP-129	1	CM	1719	K	F001	F002	F004
						F005	D004	D005
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 3.729 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/B(u)F-96, TP-133	1	CM	1695	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 3.006 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/B(u)F-96, TP-159	1	CM	1414	K	F001	F002	F004
						F005	D004	D005

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130030, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-32, TRAILER # V-368
GROSS WEIGHT IN KILOGRAMS: TP#129 = 7647 KG, TP#133 = 7560 KG, TP#159 = 7271 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 04 Day 08 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JAMES MONTOYA — Signature: [signature] — Month 04 Day 08 Year 13

Transporter 2 Printed/Typed Name: DALE EAKIN — Signature: [signature] — Month 04 Day ~~08~~ 09 Year 13

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132 2. H132 3. H132 4. N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: ANDY BOKER — Signature: [signature] — Month 04 Day 10 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784063 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.510 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-163	1	CM	1429	K	F001 F002 F004 F005 D004 D005
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.040 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-191	1	CM	1000	K	F001 F002 F005 D004 D005 D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 3.349 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-198	1	CM	892	K	F001 F002 F005 D004 D005 D006
	X					

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130031, LANL POC: ONESIMO A. MARTINEZ (505)-231-5153, ERG #165, TRACTOR # V-26, TRAILER # C-360
GROSS WEIGHT IN KILOGRAMS: TP#163 = 7317 KG, TP#191 = 6746 KG, TP#198 = 6743 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ONESIMO A. MARTINEZ — Signature: [signature] — Month 04 Day ~~10~~ 09 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.: Rm 040913

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joe A. Martinez — Signature: [signature] — Month 04 Day 09 Year 13
Transporter 2 Printed/Typed Name: Tom Worden — Signature: [signature] — Month 04 Day 10 Year 13

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4. N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Andy Cooper — Signature: [signature] — Month 04 Day 11 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of: 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784064 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE
U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC.
U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 1.158 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-170	1	CM	1891	K	F001	F002	F004
						F005	D004	D005
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Pu238 Pu239, 7.029 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-175, HRCQ	1	CM	1229	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.046 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-132	1	CM	1043	K	F001	F002	F005
						D004	D005	D006

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130032, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-32, TRAILER # C-332
GROSS WEIGHT IN KILOGRAMS: TP#170 = 7706 KG, TP#175 = 6987 KG, TP#132 = 6811 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS
Signature: Lance Lackas
Month 04 Day 10 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DALE EAKIN
Signature: Dale Eakin
Month 04 Day 11 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Russ Stroble
Signature: Russ Stroble
Month 04 Day 11 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784065 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 1.148 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-155	1	CM	1751	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 4.279 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-161	1	CM	817	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Pu238 Pu239 Pu240, 6.482 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-160, HRCQ	1	CM	481	K	F001	F002	F005
						D004	D005	D006

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130033, LANL POC: ONESIMO A. MARTINEZ (505)-231-5153, ERG #165, TRACTOR # C-32, TRAILER # V-321
GROSS WEIGHT IN KILOGRAMS: TP#155 = 7527 KG, TP#161 = 6688 KG, TP#160 = 6318 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ONESIMO A. MARTINEZ — Signature: [signature] — Month 04 Day 16 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DALE EAKIN — Signature: [signature] — Month 04 Day 16 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: A Kessler — Signature: [signature] — Month 04 Day 16 Year 13

GENERATOR — TRANSPORTER INTL — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

 DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NM0890010515	1	(505) 667-6211	010784066 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 1.053 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-139	1	CM	1708	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 2.219 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-125	1	CM	821	K	F001	F002	~~F004~~ D006
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.084 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-197	1	CM	746	K	F001	F002	F005
						D004	D005	D006

Rw 473 per OK

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130034, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-22, TRAILER # C-344
GROSS WEIGHT IN KILOGRAMS: TP#139 = 7429 KG, TP#125 = 6633 KG, TP#197 = 6470 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 04 Day 17 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: VINCENT D SHEATS — Signature: [signature] — Month 04 Day 17 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Gary Kessler — Signature: [signature] — Month 04 Day 18 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NM0890010515	1	(505) 667-6211	010784067 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239, 5.885 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-186, HRCQ	1	CM	2010	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239, 3.328 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-203	1	CM	1598	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 4.309 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-172, HRCQ	1	CM	1643	K	F001	F002	F005
						D004	D005	D006
	4.							

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130035, LANL POC: ONESIMO A. MARTINEZ (505)-231-5153, ERG #165, TRACTOR # C-29, TRAILER # C-323
GROSS WEIGHT IN KILOGRAMS: TP#186 = 7721 KG, TP#203 = 7322 KG, TP#172 = 7448 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ONESIMO A. MARTINEZ — Signature: [signature] — Month 04 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: James Montoya — Signature: James Montoya — Month 04 Day 18 Year 13

Transporter 2 Printed/Typed Name: Gerald Blaine Barnes — Signature: Gerald Blaine Barnes — Month 04 Day 18 Year 13

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Gary Kessler — Signature: [signature] — Month 04 Day 19 Year 13

GENERATOR / TRANSPORTER / INT'L / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784068 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 11.06 TBq Solid Elemental, Radioactive Yellow-III, TI=0.5, CSI=0.0 USA/9218/ B(u)F-96, TP-137, HRCQ	1	CM	2197	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 14.35 TBq Solid Elemental, Radioactive Yellow-III, TI=0.5, CSI=0.0 USA/9218/ B(u)F-96, TP-189, HRCQ	1	CM	2235	K	F001	F002	F005
						D004	D005	D006
	3.							
	4.							

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130036, LANL POC: ONESIMO A. MARTINEZ (505)-231-5153, ERG #165, TRACTOR # C-27, TRAILER # V-365
GROSS WEIGHT IN KILOGRAMS: TP#137 = 8258 KG, TP#189 = 7960 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ONESIMO A. MARTINEZ — Signature: [signature] — Month 04 Day 23 Year 13

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Edward Hernandez — Signature: Edward Hernandez — Month 04 Day 23 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Begeller — Signature: [signature] — Month 04 Day 23 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784069 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239, 15.14 TBq Solid Elemental, Radioactive Yellow-III, TI=3.5, CSI=0.0 USA/9218/ B(u)F-96, TP-129, HRCQ	1	CM	2505	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 2.169 TBq Solid Elemental, Radioactive Yellow-III, TI=2.6, CSI=0.0 USA/9218/ B(u)F-96, TP-133	1	CM	2341	K	F001	F002	F005
						D004	D005	D006
	3.							
	4.							

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130037, LANL POC: ONESIMO A. MARTINEZ (505)-231-5153, ERG #165, TRACTOR # V-23, TRAILER # C-333
GROSS WEIGHT IN KILOGRAMS: TP#129 = 8434 KG, TP#133 = 8206 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ONESIMO A. MARTINEZ — Signature: [signature] — Month 04 Day 24 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAMES R Wilcox JR — Signature: [signature] — Month 04 Day 24 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: JOSEPH BEALLER — Signature: [signature] — Month 04 Day 24 Year 13

GENERATOR — TRANSPORTER INTL — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of: 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784070 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE
U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC.
U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 5.965 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-170, HRCQ	1	CM	2443	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239, 3.622 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-175	1	CM	2355	K	F001	F002	F005
						D004	D005	D006
	3.							
	4.							

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130038, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-38, TRAILER # C-332
GROSS WEIGHT IN KILOGRAMS: TP#170 = 8347 KG, TP#175 = 8202 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS
Signature: [signature]
Month 04 Day 24 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STAN TAYLOR
Signature: [signature]
Month 04 Day 24 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Beallier
Signature: [signature]
Month 04 Day 25 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505)667-6211	010784072 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 0.04652 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-158	1	CM	1062	K	F001	F002	F004
						F005	F006	F007
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239, 4.790 TBq Solid Elemental, Radioactive Yellow-III, TI=0.9, CSI=0.0 USA/9218/ B(u)F-96, TP-141, HRCQ	1	CM	1106	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 0.2561 TBq Solid Elemental, Radioactive Yellow-II, TI=0.8, CSI=0.0 USA/9218/ B(u)F-96, TP-188	1	CM	830	K	F001	F002	F005
						D004	D005	D006
	4.							

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130039, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-22, TRAILER # V-373
GROSS WEIGHT IN KILOGRAMS: TP#158 = 6772 KG, TP#141 = 6882 KG, TP#188 = 6554 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 04 Day 29 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: VINCENT D. SHEETS — Signature: [signature] — Month 04 Day 29 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Russ Stroble — Signature: [signature] — Month 04 Day 29 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784073 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 2.035 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-155	1	CM	1279	K	F001	F002	F004
						F005	D004	D005
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 3.839 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-196	1	CM	836	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 2.870 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-191	1	CM	785	K	F001	F002	F005
						D004	D005	D006
	X							

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130040, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-37, TRAILER # C-353
GROSS WEIGHT IN KILOGRAMS: TP#155 = 7143 KG, TP#196 = 6564 KG, TP#191 = 6531 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 04 Day 29 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JAMES HAMPTON — Signature: [signature] — Month 04 Day 30 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Podar — Signature: [signature] — Month 05 Day 01 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784074 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 2.266 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-174	1	CM	2165	K	F001	F002	F004
						F005	D004	D005
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239, 4.943 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-157, HRCQ	1	CM	1899	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Pu238 Pu239 Pu240, 3.110 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-139	1	CM	1017	K	F001	F002	F005
						D004	D005	D006
	~~4.~~							

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130041, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-32, TRAILER # V-328
GROSS WEIGHT IN KILOGRAMS: TP#174 = 7950 KG, TP#157 = 7702 KG, TP#139 = 6738 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 04 Day ~~29~~ 30 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Parker — Signature: [signature] — Month 04 Day 30 Year 13
Transporter 2 Printed/Typed Name: Don French — Signature: [signature] — Month 05 Day 01 Year 13

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Pacher — Signature: [signature] — Month 05 Day 01 Year 13

GENERATOR / TRANSPORTER INTL / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM0890010515
2. Page 1 of: 1
3. Emergency Response Phone: (505) 667-6211
4. Manifest Tracking Number: 010784075 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 3.951 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-194	1	CM	1980	K	F001	F002	F004
						F005	D004	D005
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.246 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-126	1	CM	1019	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Pu238, 4.316 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-181, HRCQ	1	CM	819	K	F001	F002	F005
						D004	D005	D006

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130042, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-28, TRAILER # C-345
GROSS WEIGHT IN KILOGRAMS: TP#194 = 7610 KG, TP#126 = 6705 KG, TP#181 = 6491 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 05 Day 01 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James Montoya — Signature: [signature] — Month 05 Day 1 Year 2013
Transporter 2 Printed/Typed Name: Mike Ramsey — Signature: [signature] — Month 5 Day 2 Year 2013

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Predor — Signature: [signature] — Month 05 Day 08 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784076 JJK

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: VISIONARY SOLUTIONS LLC — U.S. EPA ID Number: NMR000013086

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240 Pu241, 0.4071 TBq Solid Elemental, Radioactive Yellow-II, TI=0.9, CSI=0.0 USA/9218/ B(u)F-96, TP-129	1	CM	2071	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.821 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-207	1	CM	1913	K	F001	F002	F004
						F005	D004	D005
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 5.408 TBq Solid Elemental, Radioactive Yellow-III, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-128, HRCQ	1	CM	1273	K	F001	F002	F005
						D004	D005	D006

14. Special Handling Instructions and Additional Information

SHIPMENT # LA130043, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # V-27, TRAILER # V-371
GROSS WEIGHT IN KILOGRAMS: TP#129 = 7910 KG, TP#207 = 7760 KG, TP#128 = 7078 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 05 Day 02 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: James Montoya — Signature: [signature] — Month 05 Day 02 Year 13

Transporter 2 Printed/Typed Name: Richard R Perez — Signature: [signature] — Month 05 Day 03 Year 13

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mark Long — Signature: [signature] — Month 05 Day 03 Year 13

GENERATOR — TRANSPORTER INTL — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NM0890010515	1	(505) 667-6211	010784078 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ALAMOS NATIONAL SECURITY, LLC ON BEHALF OF U.S. DOE
TA-54 WEST, BLDG. 38
LOS ALAMOS NM 87545
Generator's Phone: (505)665-6037

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: LANS, LLC FOR DOE — U.S. EPA ID Number: NM0890010515

7. Transporter 2 Company Name: CAST SPECIALTY INC. — U.S. EPA ID Number: COR000206722

8. Designated Facility Name and Site Address
U.S. DEPT. OF ENERGY C/O NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES EAST OF CARLSBAD ON JAL HWY
CARLSBAD NM 88221
Facility's Phone: (575)234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 1.078 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-198	1	CM	1946	K	F001	F002	F005
						D004	D005	D006
RQ	2. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu239 Pu240, 1.957 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-163	1	CM	1377	K	F001	F002	F005
						D004	D005	D006
RQ	3. UN3328, Waste, Radioactive Material, Type B(U) Package, Fissile, 7, Am241 Pu238 Pu239 Pu240, 2.520 TBq Solid Elemental, Radioactive Yellow-II, TI=0.4, CSI=0.0 USA/9218/ B(u)F-96, TP-142	1	CM	1101	K	F001	F002	F005
						D004	D005	D006

14. Special Handling Instructions and Additional Information
SHIPMENT # LA130045, LANL POC: LANCE LACKAS (505)-699-7526, ERG #165, TRACTOR # C-~~30~~ 32, TRAILER # V-321
GROSS WEIGHT IN KILOGRAMS: TP#198 = 7708 KG, TP#163 = 7175 KG, TP#142 = 6824 KG
EMERGENCY RESPONSE INFORMATION PROVIDER: LOS ALAMOS NATIONAL LABORATORY
5/7-13

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: LANCE LACKAS — Signature: [signature] — Month 05 Day 06 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joe A Martinez — Signature: [signature] — Month 05 Day 06 Year 13
Transporter 2 Printed/Typed Name: DALE EAKIN — Signature: [signature] — Month 05 Day 07 Year 13

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4. N/A

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: ANDY COOPER — Signature: [signature] — Month 05 Day 08 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

VISIONARY SOLUTIONS, LLC.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 001077793 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-240, Am-241, Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 1.0, FISSILE EXCEPTED, USA/9218/B(U)F-96, 2.292 TBq.	1	CM	1289	K	F001	F002	F003
						F005	D005	D006
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Am-241, Pu-239, Pu-238, Pu-240 solid/oxide, RADIOACTIVE YELLOW II, TI= 1.0, FISSILE EXCEPTED, USA/9218/B(U)F-96, 1.550 TBq.	1	CM	1026	K	F001	F002	F003
						F004	F005	F007
RQ	3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-238, Am-241, Pu-240 solid/oxide, RADIOACTIVE YELLOW II, TI= 1.0, FISSILE EXCEPTED, USA/9218/B(U)F-96, 3.092 TBq.	1	CM	962	K	F001	F002	F003
						F004	F005	D004
	K							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00352. LDR NOTIFICATION ON FILE, 741# VZD-VPA-1477. ERG# 163
9B 1. TRUPACT # 184 - 7,125 KG 9B 2. TRUPACT # 148 - 6815 KG 9B 3. TRUPACT # 164 - 6,845 KG
TRACTOR V-23 TRAILER # 361 SHIPMENT # SR130005.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID M. COLE ON BEHALF OF U.S. DOE
Signature: [signature]
Month 04 Day 01 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STEVE Shikewanski
Signature: [signature]
Month 04 Day 01 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: [signature]
Month 4 Day 2 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	2	(803)725-3333	001077795 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Am-241, Pu-240, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 4.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 2.550 TBq. Also RQ (PCB).	1	CM	1141	K	F001 F002 F003 F004 F005 F007
	3X PCB Container SR57170828, Heterogeneous Debris from HB Line, PCB Out of Service Date 10/13/2005. PCB Weight = 16.3 Kg.					
RQ	3X 2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-238, Am-241, Pu-240, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.6, FISSILE EXCEPTED, USA/9218/B(U)F-96, 1.045TBq. Also RQ (PCB).	1	CM	1101	K	F001 F002 F003 F004 F005 F007
	4X PCB Container SR46050WA, Heterogeneous Debris from Mound, PCB Out of Service Date 5/26/2010. PCB Weight = 18.0 Kg.					

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00354. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1479. ERG# 163
9B 1. TRUPACT # 203 - 6,957 KG 9B 2. TRUPACT # 187 - 6,921 KG 27B 3. TRUPACT # 130 - 6,849 KG
TRACTOR C-37 TRAILER # 328 SHIPMENT # SR130006. TRUPACTS 203, 187, AND 130 CONTAIN PCB.

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF THE U. S. DOE F. D. WOOLDRIDGE
Signature: F. D. Wooldridge
Month 04 Day 02 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Byron L. Steele
Signature: Byron L. Steele
Month 04 Day 02 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: Kyle Darrah
Month 4 Day 3 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	001077797 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-239, Pu-240, Am-241, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, CSI = 0.0 USA/9218/B(U)F-96, 7.834 TBq.	1	CM	1930	K	D006	D007	D008
						D011		
RQ	2. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-239, Am-241, Pu-240, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, CSI = 0.0 USA/9218/B(U)F-96, 10.261 TBq.	1	CM	1907	K	D006	D007	D008
						D011		
RQ	3. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-239, Am-241,Pu-240, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, CSI = 0.0 USA/9218/B(U)F-96, 7.329 TBq.	1	CM	1898	K	D006	D007	D008
						D011		

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00356. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1480. ERG# 165
9B 1. TRUPACT # 127 - 7,723 KG, 9B 2. TRUPACT # 194 - 7,627 KG, 9B 3. TRUPACT # 197 - 7,622 KG
TRACTOR V-20 TRAILER # 338 SHIPMENT # SR130007

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID. M. COLE ON BEHALF OF U.S. DOE
Signature: [signature]
Month 04 Day 03 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Doug Furse
Signature: [signature]
Month 4 Day 3 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: [signature]
Month 4 Day 4 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	2	(803)725-3333	001077799 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-238, Pu-240, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.029 TBq. Also RQ (PCB).	1	CM	1743	K	F002	F005	U133
						D004	D005	D006
	2. X PCB Containers SR57053112, Heterogeneous Debris from HB Line and FCAN06040, Homogeneous Debris from F Canyon, PCB Out of Service Dates 10/13/2005 and 6/12/2007, PCB Weights = 406.0 Kg. and 757.0 Kg.							
RQ	3. X 2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.8, FISSILE EXCEPTED, USA/9218/B(U)F-96, 1.491TBq. Also RQ (PCB).	1	CM	1694	K	F002	F004	F005
						D004	D005	D006
	4. X PCB Containers WMPSWB540A, Heterogeneous Debris from Mound and FCAN06037, Homogeneous Debris from F Canyon, PCB Out of Service Dates 5/26/2010 and 6/12/2007, PCB Weights= 315.0 Kg. and 799.0 Kg.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00358. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1483. ERG# 163
9B 1. TRUPACT # 139 - 7,465 KG 9B 2. TRUPACT # 186 - 7,407 KG 27B 3. TRUPACT # 144 - 7,416 KG
TRACTOR C-30 TRAILER # 337 SHIPMENT # SR130008. TRUPACTS 139, AND 186, CONTAIN PCB.

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHAF OF THE U. S. DOE F. D. WOOLDRIDGE
Signature: F.D. Wooldridge
Month 04 Day 04 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Don French
Signature: Don French
Month 04 Day 04 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: Kyle Darrah
Month 4 Day 5 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 2
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148338 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-240, Am-241, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, Fissile Excepted, USA/9218/B(U)F-96, 0.012 TBq. Also RQ (PCB).	1	CM	1752	K	F002	F005	U133
						D004	D005	D006
	2 PCB Containers SR14706103, Heterogeneous Debris from 235F and HB Line, and FCAN06038, Homogeneous Debris from F Canyon, PCB Out of Service Dates 10/13/2005 and 6/12/2007, PCB Weights = 628.0 Kg. and 544.0 Kg.							
RQ	3 2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-238, Pu-240, Pu-241, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, Fissile Excepted, USA/9218/B(U)F-96, 0.041 TBq. Also RQ (PCB).	1	CM	1320	K	F002	F005	U133
						D004	D005	D006
	4 PCB Containers SR14706101, Heterogeneous Debris from 235F and HB Line, and FCAN06035, Homogeneous Debris from F Canyon, PCB Out of Service Dates 10/13/2005 and 6/12/2007, PCB Weights = 222.0 Kg. and 518.0 Kg.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00360. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1485. ERG# 163
9B 1. TRUPACT # 154 - 7,644 KG, 9B 2. TRUPACT # 183 - 7,121 KG, 9B 3. TRUPACT # 162 - 6,745 KG
TRACTOR V-23 TRAILER # 341 SHIPMENT # SR130009

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JASON JONES ON BEHALF OF THE U.S. DOE
Signature: Jason N. Jones
Month 04 Day 08 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STEVE Shkegzinski
Signature:
Month 04 Day 08 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco
Signature: Ruben Carrasco
Month 04 Day 09 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148340 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.6, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.332 TBq.	1	CM	1388	K	F002	F003	F004
						F005	U133	D004
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.8, FISSILE EXCEPTED, USA/9218/B(U)F-96, 8.039 TBq.	1	CM	1061	K	F002	F004	F005
						U133	D004	D005
RQ	3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, Cm-244, Am-241, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.6, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.081 TBq.	1	CM	863	K	F001	F002	F003
						F004	F005	U002
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00362. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1487. ERG# 163
9B 1. TRUPACT # 140 - 7,069 KG, 9B 2. TRUPACT # 206 - 6,881 KG, 9B 3. TRUPACT # 157 - 6,660 KG
TRACTOR C- 37 TRAILER # 345 SHIPMENT # SR130010

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F D Wooldridge
Month 04 Day 09 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Byron L. Steele
Signature: Byron L Steele
Month 04 Day 09 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco
Signature: Ruben Carrasco
Month 04 Day 10 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
SC1890008989	1	(803)725-3333	000148342 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: **(803)208-1197**

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI = 2.5, Fissile Excepted, USA/9218/B(U)F-96, 1.030 TBq.	1	CM	1305	K	F002	F003	F004
						F005	U133	D004
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI =0.5, Fissile Excepted, USA/9218/B(U)F-96, 0.900 TBq.	1	CM	940	K	F001	F002	F004
						F005	F007	F009
RQ	3. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-238, Pu-239, solid-oxide, RADIOACTIVE YELLOW-III, TI =6.0, CSI = 0.0, USA/9218/B(U)F-96, 12.695 TBq.	1	CM	700	K	F002	F005	D005
						D006	D007	D008

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00364. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1489. ERG# 163 AND 165
9B 1. TRUPACT # 167 - 7,174 KG, 9B 2. TRUPACT # 145 - 6,707 KG, 9B 3. TRUPACT # 195 - 6,349 KG
TRACTOR V-22 TRAILER # 374 SHIPMENT # SR130011

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JASON JONES ON BEHALF OF THE U.S. DOE
Signature: Jason M. Jones
Month 04 Day 10 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tommy Cash
Signature: Tommy
Month 04 Day 10 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco
Signature: Ruben Carrasco
Month 04 Day 11 Year 13

GENERATOR — TRANSPORTER — INT'L — DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
SC1890008989	1	(803)725-3333	000148344 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.138 TBq.	1	CM	1236	K	F002	F005	U133
						D006	D007	D008
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-238, Am-241, Pu-240, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 1.505 TBq.	1	CM	1006	K	F001	F002	F003
						F004	F005	U002
RQ	3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.6, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.129 TBq.	1	CM	819	K	F001	F002	F004
						F005	F007	F009
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00366. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1491. ERG# 163
9B 1. TRUPACT # 173 - 7,077 KG, 9B 2. TRUPACT # 143 - 6,741 KG, 9B 3. TRUPACT # 200 - 6,550 KG
TRACTOR C- 36 TRAILER # 356 SHIPMENT # SR130012

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF THE U. S. DOE F. D. WOOLDRIDGE
Signature: F.D. Wooldridge
Month 04 Day 11 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Randy Anderson
Signature: Randy Anderson
Month 04 Day 13 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month 04 Day 12 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	000148346 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: **(803)208-1197**

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI = 1.0, Fissile Excepted, USA/9218/B(U)F-96, 4.925 TBq.	1	CM	1215	K	F002	F005	U133
						D005	D006	D007
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI = 0.5, Fissile Excepted, USA/9218/B(U)F-96, 0.170 TBq.	1	CM	1099	K	F001	F002	F003
						F005	U133	D006
RQ	3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI = 0.5, Fissile Excepted, USA/9218/B(U)F-96, 0.132 TBq.	1	CM	821	K	F001	F002	F004
						F005	F007	F009
	X							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00368. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1493. ERG# 163
9B 1. TRUPACT # 171 - 7,031 KG, 9B 2. TRUPACT # 164 - 6,893 KG, 9B 3. TRUPACT # 148 - 6,520 KG
TRACTOR V-21 TRAILER # 322 SHIPMENT # SR130013

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID COLE ON BEHALF OF THE U.S. DOE
Signature: David M. Cole
Month 04 Day 15 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GLENN R LIHLE
Signature:
Month 04 Day 15 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco
Signature: Ruben Carrasco
Month 04 Day 16 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of 2
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148348 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-238, Pu-240, Am-241, solid/oxide, RADIOACTIVE YELLOW-III, TI=2.0 , FISSILE EXCEPTED, USA/9218/B(U)F-96, 1.122 TBq.	1	CM	1120	K	F002	F003	F005
						U133	D004	D005
RQ	2. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-238, Pu-239, Am-241, solid/oxide, RADIOACTIVE YELLOW-III, TI=3.5 , CSI= 0.0, USA/9218/B(U)F-96, 6.769 TBq. Also RQ (PCB).	1	CM	823	K	F001	F002	F003
						F004	F005	F007
	X PCB Containers SR46079UA, SR46032UA, SR46033W, and SR46050W, Heterogeneous Debris from Mound, PCB Out of Service Dates, 05/26/2010, PCB Weights = 18.6 Kg., 26.6 Kg., 30.6 Kg., and 63.5 Kg.							
RQ	X 3. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-238, Pu-239, Am-241, solid/oxide, RADIOACTIVE YELLOW-III, TI=1.0 , CSI= 0.0, USA/9218/B(U)F-96, 5.944 TBq. Also RQ (PCB).	1	CM	747	K	F001	F002	F003
						F004	F005	F007

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00370. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1495. ERG# 163 AND 165
9B 1. TRUPACT # 185 - 6,966 KG, 9B 2. TRUPACT # 126 - 6,601 KG, 9B 3. TRUPACT # 181 - 6,511 KG
TRACTOR C- 33 TRAILER # 325 SHIPMENT # SR130014 TRUPACTS 126 AND 181 CONTAIN PCB.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F.D. Wooldridge
Month 04 Day 16 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MASON ERNEST
Signature: Mason Ernest
Month 04 Day 16 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: R Whiteley
Month 04 Day 17 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number SC1890008989	22. Page 2 of 2	23. Manifest Tracking Number 000148348MWI

24. Generator's Name SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
	PCB Containers SR46023V and SR57169318, Heterogeneous Debris from Mound and HB Line, PCB Out of Service Dates, 05/26/2010 and 10/13/2005, PCB Weights = 25.6 Kg. and 33.6 Kg.							

32. Special Handling Instructions and Additional Information

GENERATOR

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name — Signature — Month — Day — Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	000148350 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-239, Pu-240, Am-241, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, CSI = 0.0 USA/9218/B(U)F-96, 6.758 TBq.	1	CM	1933	K	D006	D007	D008
						D011		
RQ	2. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-239, Pu-240, Am-241, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, CSI = 0.0 USA/9218/B(U)F-96, 6.677 TBq.	1	CM	1808	K	D006	D007	D008
						D011		
RQ	3. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, HRCQ, Pu-239, Pu-240, Am-241, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, CSI = 0.0 USA/9218/B(U)F-96, 6.806 TBq.	1	CM	1791	K	D006	D007	D008
						D011		

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00372. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1497. ERG# 165
9B 1. TRUPACT # 144 - 7,744 KG, 9B 2. TRUPACT # 194 - 7,528 KG, 9B 3. TRUPACT # 202 - 7,597 KG
TRACTOR V-23 TRAILER # 367 SHIPMENT # SR130015

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID. M. COLE
Signature
Month 04 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STEVE SHIKEWAUSKI
Signature
Month 04 Day 17 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature
Month 4 Day 18 Year 13

GENERATOR / TRANSPORTER INTL / DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148352 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 12.262 TBq.	1	CM	1144	K	F002	F003	F005
						U133	D004	D005
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, Pu-239, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.040 TBq.	1	CM	988	K	F001	F002	F003
						F004	F005	F007
RQ	3. UN3328, Waste Radioactive Material, Type B(U) Package, Fissile, 7, Pu-238, Pu-239, Pu-240, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, CSI = 0.0, USA/9218/B(U)F-96, 3.793 TBq.	1	CM	711	K	F002	F005	D005
						D006	D007	D008
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00374. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1499. ERG# 163 AND 165
9B 1. TRUPACT # 174 - 6,930 KG, 9B 2. TRUPACT # 135 - 6,712 KG, 9B 3. TRUPACT # 187 - 6,442 KG
TRACTOR C- 37 TRAILER # 371 SHIPMENT # SR130016

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F.D. Wooldridge
Month 04 Day 18 Year 13

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Byron L. Steele
Signature: Byron L. Steele
Month 04 Day 18 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco
Signature: Ruben Carrasco
Month 04 Day 19 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 2
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148353 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, Fissile Excepted, USA/9218/B(U)F-96, 0.372 TBq. Also RQ (PCB).	1	CM	1172	K	F002	F004	F005
						U133	D004	D005
	X PCB Containers SR14706109, Heterogeneous Debris from 235F and HB Line, and SR46008E, Heterogeneous Debris from Mound, PCB Out of Service Dates 10/13/2005 and 5/26/2010, PCB Weights = 291.0 Kg. and 301.0 Kg.							
RQ	X 2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, USA/9218/B(U)F-96, 0.048 TBq. Also RQ (PCB).	1	CM	961	K	F002	F004	F005
						D004	D005	D006
	X PCB Containers SR46008C and SR46008D, Heterogeneous Debris from Mound, PCB Out of Service Dates 5/26/2010, PCB Weights = 190.0 Kg. and 191.0 Kg.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00375. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1500. ERG# 163
9B 1. TRUPACT # 154 - 7,064 KG, 9B 2. TRUPACT # 183 - 6,762 KG, 9B 3. TRUPACT # 162 - 6,591 KG
TRACTOR V-22 TRAILER # 341 SHIPMENT # SR130017 TRUPACTS 154, 183, AND 162 CONTAIN PCB.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID COLE ON BEHALF OF THE U. S. DOE
Signature: [signature]
Month 04 Day 22 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tommy Cash
Signature: [signature]
Month 04 Day 22 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: [signature]
Month 4 Day 23 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page	23. Manifest Tracking Number
	SC1890008989	2 of 2	000148353MWI

24. Generator's Name SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808

25. Transporter _____ Company Name | U.S. EPA ID Number

26. Transporter _____ Company Name | U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
RQ	3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, Fissile Excepted, USA/9218/B(U)F-96, 7.299 TBq. Also RQ (PCB).	1	CM	881	K	F002	F004	F005
						D004	D005	D006
	PCB Containers SR46072N and SR46024WB, Heterogeneous Debris from Mound, PCB Out of Service Dates 5/26/2010, PCB Weights = 137.0 Kg. and 164.0 Kg.							

GENERATOR

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

TO DESTINATION S

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	000148355 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. ~~UN2916, Waste Radioactive Material, Type B(U) Package, 7,~~ Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.095 TBq.	~~1~~	~~CM~~	~~994~~	~~K~~	~~F001~~ F005	~~F002~~ F007	~~F004~~ F009
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, Pu-239, Am-241, Pu-240, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.026 TBq.	1	CM	843	K	F001 F004	F002 F005	F003 U002
RQ	3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 4.48 TBq.	1	CM	731	K	F002 F005	F003 D004	F004 D005
	x							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00377. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1502. ERG# 163
9B 1. TRUPACT # 207 - 6,848 KG, 9B 2. TRUPACT # 178 - 6,610 KG, 9B 3. TRUPACT # 128 - 6,538 KG
TRACTOR C- 38 TRAILER # 376 SHIPMENT # SR130018

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F.D. Wooldridge
Month Day Year: 04 23 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STAN TAYLOR
Signature: Stan Taylor
Month Day Year: 04 23 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132	H132	H132	

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: Kyle Darrah
Month Day Year: 4 24 13

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obso DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	000148357 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	~~1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, Fissile Excepted, USA/9218/B(U)F-96, 3.812 TBq. Also RQ (PCB).~~	~~1~~	~~CM~~	~~1086~~	~~K~~	~~F002 F005 D006~~ D007 D008 D009
	X PCB Containers SR57171712, Heterogeneous Debris from HB Line, PCB Out of Service Dates 10/13/2005, PCB Weights = 251.0 Kg.					
RQ	X 2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, Fissile Excepted, USA/9218/B(U)F-96, 0.440 TBq.	1	CM	813	K	F001 F002 F004 F005 D006 D007
RQ	X 3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, Fissile Excepted, USA/9218/B(U)F-96, 3.998 TBq.	1	CM	664	K	F002 F005 D004 D005 D006 D007

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00379. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1503. ERG# 163
9B 1. TRUPACT # 140 - 6,767 KG, 9B 2. TRUPACT # 195 - 6,462 KG, 9B 3. TRUPACT # 198 - 6,426 KG
TRACTOR V-32 TRAILER # 374 SHIPMENT # SR130019 TRUPACTS 140- CONTAINS PCB.

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID COLE ON BEHALF OF US DOE
Signature: [signature]
Month 04 Day 24 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: WILLIAM CRAIG VOIGHT
Signature: William Craig Voight
Month 4 Day 24 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: R Whiteley
Month 04 Day 25 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obso DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148359 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, USA/9218/B(U)F-96, 0.016 TBq.	1	CM	1176	K	F002	F003	F004
						F005	D004	D005
RQ	2. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, Pu-239, Am-241, solid/oxide, RADIOACTIVE YELLOW-III, TI= 1.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 1.139 TBq.	1	CM	964	K	F001	F002	F003
						F004	F005	F007
RQ	3. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 2.0, FISSILE EXCEPTED, USA/9218/B(U)F-96, 22.683 TBq.	1	CM	691	K	D006	D007	D008
						D009	D011	D019
	x							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00381. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1504. ERG# 163
9B 1. TRUPACT # 163 - 6,975 KG, 9B 2. TRUPACT # 159 - 6,731 KG, 9B 3. TRUPACT # 152 - 6,467 KG
TRACTOR V- 27 TRAILER # 324 SHIPMENT # SR130020

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S DOE
Signature: F.D. Wooldridge
Month 04 Day 25 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Richard R Perez
Signature: Richard R Perez
Month 4 Day 25 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. H132 3. H132 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month 04 Day 26 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are ob DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
SC1890008989	1	(803)725-3333	001077789 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Am-241, Pu-240, Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 0.319 TBq.	1	CM	2165	K	F001	F002	F003
						F005	D006	D007
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00348. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1475 ERG# 163
9B 1. TRUPACT # 003 - 21,651 KG
TRACTOR C- 38 TRAILER # 702 SHIPMENT # SR313016

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: FDWooldridge
Month 03 Day 25 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: STAN TAYLOR
Signature: [signature]
Month 03 Day 25 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Robert S. Nieman
Signature: [signature]
Month 03 Day 26 Year 13

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete

NATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803) 725-3333
4. Manifest Tracking Number: 001077790 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 0.004 TBq.	1	CM	1453	K	D006	D007	D008
						D009	D011	D019

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00349. LDR NOTIFICATION ON FILE. 741 # NOT REQUIRED ERG# 163
9B 1. TRUPACT # 006 - 21,070 KG
TRACTOR V-24 TRAILER # 704 SHIPMENT # SR313017

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID M. COLE
Signature: David M. Cole
Month 03 Day 26 Year 13

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: TERRY JAMES
Signature: Terry James
Month 03 Day 26 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month 03 Day 27 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obs

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 001077791 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 0.5, USA/9305/B(U)F-96, 0.010 TBq.	1	CM	1659	K	F002	F003	F004
						F005	D004	D005
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00350. LDR NOTIFICATION ON FILE. 741 # NOT REQUIRED ERG# 163
9B 1. TRUPACT # 005 - 21,299 KG
TRACTOR C- 27 TRAILER # 705 SHIPMENT # SR313018

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F.D. Wooldridge
Month 03 Day 27 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Edward Fernandes
Signature: Edward Fernandes
Month 03 Day 27 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month 03 Day 28 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obs

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	001077792 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW III, TI= 0.8, FISSILE EXCEPTED, USA/9305/B(U)F-96, 9.546 TBq.	1	GM	1686	K	F002	F005	D006
						D007	D008	D009
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00351. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1476 ERG# 163
9B 1. TRUPACT # 004 - 21,181 KG
TRACTOR V-21 TRAILER # 706 SHIPMENT # SR313019

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name ON BEHALF OF THE U.S. DOE
DAVID M COLE
Signature
Month 0 4 Day 0 1 Year 1 3

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name
Signature
Month 04 Day 01 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Kyle Darrah
Signature
Month 4 Day 2 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsol

ESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 001077794 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-240, Am-241, Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 0.393 TBq.	1	CM	1567	K	F001 F005	F002 U002	F003 U151
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00353. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1478 ERG# 163
9B 1. TRUPACT # 002 - 21,113 KG
TRACTOR C- 35 TRAILER # 707 SHIPMENT # SR313020

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F.D. Wooldridge
Month 04 Day 02 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bryan Steinman
Signature: Bryan Steinman
Month 04 Day 02 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: Kyle Darrah
Month 4 Day 3 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

SIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 001077796 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW III, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 3.697 TBq.	1	CM	1938	K	F002	F005	D006
						D007	D008	D009

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00355. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1481 ERG# 163
9B 1. TRUPACT # 001 - 21,488 KG
TRACTOR V-29 TRAILER # 703 SHIPMENT # SR313021

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID M COLE ON BEHALF OF U.S. DOE
Signature: [signature]
Month 0 4 Day 0 3 Year 1 3

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joe Wolf
Signature: [signature]
Month 4 Day 3 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: [signature]
Month 4 Day 4 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obs

SIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	001077798 GBF

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC. — U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW III, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 4.153 TBq.	1	CM	1960	K	F002	F003	F004
						F005	D004	D005
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00357. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1482 ERG# 163
9B 1. TRUPACT # 003 - 21,446 KG
TRACTOR C- 32 TRAILER # 702 SHIPMENT # SR313022

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF THE U. S. DOE F. D. WOOLDRIDGE — Signature: F.D. Wooldridge — Month 04 Day 04 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DALE EAKIN — Signature: Dale Eakin — Month 04 Day 04 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah — Signature: Kyle Darrah — Month 4 Day 5 Year 13

GENERATOR / TRANSPORTER / INT'L / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obs

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148337 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 0.237 TBq.	1	CM	2396	K	F002	F003	F004
						F005	D004	D005
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00359. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1484 ERG# 163
9B 1. TRUPACT # 006 - 22,013 KG
TRACTOR V-21 TRAILER # 704 SHIPMENT # SR313023

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF THE U.S. DOE JASON JONES
Signature: Jason N. Jones
Month 04 Day 08 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: GLENN R LITLE
Signature:
Month 04 Day 08 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: MIKE Rocker
Signature:
Month 04 Day 09 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obs

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	000148339 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC. — U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1 UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW III, TI= 2.8, FISSILE EXCEPTED, USA/9305/B(U)F-96, 16.484 TBq.	1	CM	2121	K	F002	F005	U133
						D006	D007	D008
	2 X							
	3 X							
	4 X							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00361. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1486 ERG# 163
9B 1. TRUPACT # 005 - 21,761 KG
TRACTOR C- ~~35~~ 33 4-9-13 TRAILER # 705 SHIPMENT # SR313024

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE — Signature: F D Wooldridge — Month 04 Day 09 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bryan Steinman — Signature: Bryan Stein — Month 04 Day 09 Year 13
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco — Signature: Ruben Carrasco — Month 04 Day 10 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148341 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 15.247 TBq.	1	CM	2190	K	F002	F005	U133
						D006	D007	D008
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00363. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1488 ERG# 163
9B 1. TRUPACT # 004 - 21,685 KG
TRACTOR V-30 TRAILER # 706 SHIPMENT # SR313025

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JASON JONES ON BEHALF OF THE U.S. DOE
Signature: Jason N. Jones
Month Day Year: 04 10 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John A Cox
Signature:
Month Day Year: 04 10 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco
Signature: Ruben Carrasco
Month Day Year: 04 11 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. GNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148343 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 1.0, FISSILE EXCEPTED, USA/9218/B(U)F-96, 22.966 TBq.	1	CM	3166	K	F002	F005	U133
						D006	D007	D008
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00365. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1490. ERG# 163
9B 1. TRUPACT # 002 - 22,712 KG
TRACTOR C- 30 TRAILER # 707 SHIPMENT # SR313026

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF THE U. S. DOE F. D. WOOLDRIDGE
Signature: F.D. Wooldridge
Month 04 Day 11 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Don French
Signature: Don French
Month 04 Day 11 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month 04 Day 12 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148345 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, HRCQ, Pu-238, solid/oxide, RADIOACTIVE YELLOW-III, TI= 5.3, FISSILE EXCEPTED, USA/9305/B(U)F-96, 18.143 TBq.	1	CM	1922	K	F002	F005	U133
						D006	D007	D008
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00367. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1492 ERG# 163
9B 1. TRUPACT # 001 - 21,472 KG
TRACTOR V-27 TRAILER # 703 SHIPMENT # SR313027

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID COLE ON BEHALF OF THE U.S. DOE
Signature
Month 04 Day 16 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAMES H. SMIGIELSKI
Signature
Month 04 Day 16 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: RICK Whiteley
Signature
Month 04 Day 17 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are ol DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148347 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9218/B(U)F-96, 0.289 TBq.	1	CM	3194	K	F002	F005	U133
						D006	D007	D008

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00369. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1494. ERG# 163
9B 1. TRUPACT # 003 - 22,680 KG
TRACTOR C- 27 TRAILER # 702 SHIPMENT # SR313028

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID M. COLE ON BEHALF OF THE U. S. DOE
Signature: David M. Cole
Month 04 Day 17 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Edward Armendarez
Signature: Edward Armendarez
Month 04 Day 17 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: Kyle Darrah
Month 4 Day 18 Year 13

GENERATOR — TRANSPORTER — INT'L — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148349 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-239, Pu-240, Am-241, Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 0.078 TBq.	1	CM	2299	K	F002 D006	F005 D007	U133 D008
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00371. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1496 ERG# 163
9B 1. TRUPACT # 006 - 21,916 KG
TRACTOR V- 25 TRAILER # 704 SHIPMENT # SR313029

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F.D. Wooldridge
Month 04 Day 18 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID STARRETT
Signature: D Starrett
Month 04 Day 18 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ruben Carrasco
Signature: Ruben Carrasco
Month 04 Day 19 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obso DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	000148351 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VISIONARY SOLUTIONS LLC.
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 1.747 TBq.	1	CM	2002	K	E002	E005	U133
						D006	D007	D008
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00373. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1498 ERG# 163
9B 1. TRUPACT # 005 - 21,642 KG
TRACTOR V-20 TRAILER # 705 SHIPMENT # SR313030

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID COLE ON BEHALF OF THE U. S. DOE
Signature: [signature]
Month 04 Day 22 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Doug Fuase
Signature: [signature]
Month 4 Day 22 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Darrah Kyle
Signature: Kyle Darrah
Month 4 Day 23 Year 13

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsol

SIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
SC1890008989	1	(803)725-3333	000148354 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1 UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, USA/9305/B(U)F-96, 0.122 TBq.	1	CM	1988	K	F002	F003	F004
						F005	D004	D005
	2							
	3							
	4							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00376. LDR NOTIFICATION ON FILE. 741# VZD-VPA-1501. ERG# 163
9B 1. TRUPACT # 004 - 21,483 KG
TRACTOR C- 34 TRAILER # 706 SHIPMENT # SR313031

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: FDWooldridge
Month 04 Day 23 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Wendell Copeland
Signature: Wendell Copeland
Month 04 Day 23 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Kyle Darrah
Signature: Kyle Darrah
Month 4 Day 24 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obs

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	SC1890008989	1	(803)725-3333	000148356 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. UN2916, Waste Radioactive Material, Type B(U) Package, 7, Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, USA/9305/B(U)F-96, 0.022 TBq.	1	CM	2015	K	F002	F003	F004
						F005	D004	D005

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00378. LDR NOTIFICATION ON FILE. 741 # NOT REQUIRED ERG# 163
9B 1. TRUPACT # 002 - 21,561 KG
TRACTOR C-31 TRAILER # 707 SHIPMENT # SR313032

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID COLE ON BEHALF OF THE U. S. DOE
Signature: David M. Cole
Month Day Year: 04 24 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael Akins
Signature: mAkins
Month Day Year: 04 24 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month Day Year: 04 25 13

GENERATOR / INT'L TRANSPORTER / DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148358 MWI

GENERATOR

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. ~~UN2916, Waste Radioactive Material, Type B(U) Package, 7,~~ Pu-238, solid/oxide, RADIOACTIVE YELLOW-II, TI= 0.5, USA/9305/B(U)F-96, 0.026 TBq.	~~1~~	~~CM~~	~~1930~~	K	~~F002~~ F005	~~F003~~ D004	~~F004~~ D005
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00380. LDR NOTIFICATION ON FILE. 741# NOT REQUIRED. ERG# 163
9B 1. TRUPACT # 001 - 21,480 KG
TRACTOR C- 36 TRAILER # 703 SHIPMENT # SR313033

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: F. D. WOOLDRIDGE ON BEHALF OF THE U. S. DOE
Signature: F D Wooldridge
Month 04 Day 25 Year 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Randy Anderson
Signature: Randy Anderson
Month 04 Day 25 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month 04 Day 26 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: SC1890008989
2. Page 1 of: 1
3. Emergency Response Phone: (803)725-3333
4. Manifest Tracking Number: 000148360 MWI

5. Generator's Name and Mailing Address
SRNS, LLC., ON BEHALF OF THE U.S. DOE
BLDG. 704-34E SAVANNAH RIVER SITE ATTN: ROSS FANNING
AIKEN SC 29808
Generator's Phone: (803)208-1197
Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CAST SPECIALTY TRANSPORTATION INC.
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
U. S. DOE IN CARE OF WIPP; NUCLEAR WASTE PARTNERSHIP, LLC
30 MILES SE. OF CARLSBAD ON JAL HIGHWAY
CARLSBAD NM 88221
Facility's Phone: (575)234-8125
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1. ~~UN2916, Waste Radioactive Material, Type B(U) Package, 7,~~ Pu-238, solid/oxide, RADIOACTIVE YELLOW II, TI= 0.5, FISSILE EXCEPTED, USA/9305/B(U)F-96, 0.213 TBq	1	CM	2005	K	~~F002~~ F005	~~F003~~ D004	~~F004~~ D005
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
IF UNDELIVERABLE, RETURN TO GENERATOR. SEND CERTIFICATE OF DISPOSAL TO ROSS FANNING.
SRNS BOL# HMT-669-00382. LDR NOTIFICATION ON FILE. 741 # VZD-VPA-1505 ERG# 163
9B 1. TRUPACT # 003 - 21,491 KG,
TRACTOR C-29 TRAILER # 702 SHIPMENT # SR313034

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: JASON JONES ON BEHALF OF THE U.S. DOE
Signature: Jason N. Jones
Month 04 Day 25 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James Pierce
Signature: James Pierce
Month 04 Day 25 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Rick Whiteley
Signature: Rick Whiteley
Month 04 Day 26 Year 13

GENERATOR | TRANSPORTER INT'L | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

3. Copies of waste manifests of CH shipments with payloads disposed of from April 1, 2013 through May 15, 2013, of all RH shipments received from December 13, 2012 through February 15, 2013. In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection.

   3.a Copies of waste manifests of CH shipments with payloads disposed of from April 1, 2013 through May 15, 2013.

   3.b <u>All RH shipments received from December 13, 2012 through February 15, 2013. [7 pages]</u>

   3.c In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection.

The waste manifests requested in the September 11 and 12, 2013 WIPP Inspection-Items (item number 3), are tracked by shipper locations. Therefore the manifests requested are listed by shipper for the date ranges requested.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: IL3890008946

2. Page 1 of 1

3. Emergency Response Phone: 575-885-6883

4. Manifest Tracking Number: 008858962 JJK

5. Generator's Name and Mailing Address

Argonne National Laboratory in care of US DOE
9700 South Cass Avenue Bldg 306
Argonne, IL 60439 USA

Generator's Phone: 630-252-7646

~~Generator's Site Address (if different than mailing address)~~ JG 1/4/13

ERI Provider is CMR for William Naumann

6. Transporter 1 Company Name: Visionary Solutions, LLC

U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

NWP, LLC in care of US DOE
30 Miles East of Carlsbad, NM on Jal Highway
Eddy County, NM 88221

Facility's Phone: 575-234-8457

U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN2917,Waste Radioactive material, Type B(M) package, 7, fissile-excepted, solid/oxide, Pu238, Am241, Pu239, Pu240, Pu241, 1.170 TBq, RADIOACTIVE YELLOW-II, TI: 0.2, USA/9212/B(M)F-96	1	CM	834	K	D004	D006	D007
						D008	D009	D011
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

Return signed original to Argonne National Laboratory c/o U.S. DOE, 9700 S. Cass Ave. Bldg. 306, Argonne, IL 60439, Attn: William Naumann, Prepared under contract# DE-AC02-06CH11357. Shipment AER13001. ERG# 163. TK# 422 TR# RH-009, Cask# 00-03. Wt. 17,566 kg, TID# 572504. Exclusive Use Shipment.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: PC 1/7/13 Paula Cunningham ~~Jeff Grzymajlo on behalf of~~ U.S. DOE

Signature: Paula L. Cunningham

Month 1 Day 7 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tommy Cash

Signature

Month 1 Day 7 Year 13

Transporter 2 Printed/Typed Name

Signature

Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Proctor

Signature

Month 01 Day 8 Year 13

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (208) 526-1515
4. Manifest Tracking Number: 001499818 JJK

5. Generator's Name and Mailing Address: Idaho National Laboratory, U.S. Department of Energy, 1580 Sawtelle Street, MS-9226, Idaho Falls, ID 83402
Generator's Phone: (208) 533-3377
Generator's Site Address (if different than mailing address): Idaho National Laboratory Scoville, ID 83415

6. Transporter 1 Company Name: Visionary Solutions, LLC (865) 482-8670 TK# V-23 TR# RH-005
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name: TK# TR#
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Waste Isolation Pilot Project, 30 Miles East of Carlsbad on JAL Highway, Eddy County, NM 88221
Facility's Phone: (575) 234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1 (1.) UN3329, Waste Radioactive material, Type B(M) package, fissile, 7, Am-241 Pu-239 Pu-240 Cs-137 Pu-238, solid oxide 7.445E+00 TBq,	1	CM	1442	P	F005 D008	F002 D006	D009 D005
	2 Radioactive Yellow-III TI=1.1, CSI=0.0, RH72-B Cask, USA/9212/B(M) F-96, BC-ID0311							
	d.							
	f.							

14. Special Handling Instructions and Additional Information
Return signed original within 30 days to CWI for U.S. DOE, Attn: Dan Haley, MS 9226. Prepared under Contract No. DE-AC07-05ID14516. Shipment INR12047. ERG #165. Cask 00-09. Weight 38,800 lbs. EXCLUSIVE USE SHIPMENT.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Stephen Keating
Signature: Stephen Keating
Month 12 Day 20 Year 12

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: TERRY JAMES
Signature: Terry James
Month 12 Day 20 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Joseph Beallor
Signature:
Month 12 Day 21 Year 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ID4890008952	1	(208) 526-1515	001499819 JJK

5. Generator's Name and Mailing Address
Idaho National Laboratory, U.S. Department of Energy, 1580 Sawtelle Street, MS-9226, Idaho Falls, ID 83402
Generator's Phone: ~~(208) 533-3377~~

Generator's Site Address (if different than mailing address)
Idaho National Laboratory
Scoville, ID
83415

6. Transporter 1 Company Name
~~CAST Specialty Transportation Inc.~~ (888) 699-6262
TK# C30 TR# RH006
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
TK#
TR#
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Isolation Pilot Project
30 Miles East of Carlsbad on JAL Highway
Facility's Phone: Eddy County, NM 88221 (575) 234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. (1.) UN2917, Waste Radioactive material, Type B(M) package, 7, Pu-238 Sr-90, solid oxide 3.080E-01 TBq, Radioactive Yellow-III TI=1.1, Fissile Excepted, (PCB), Contains Bulk Product PCBs >50 ppm, OOS 9/5/74, RH72-B Cask, USA/9212/B(M)F-96, BC-ID0316	1	CM	740	K	D010 D008 D007 D006 D005 D004
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Return signed original within 30 days to CWI for U.S. DOE, Attn: Dan Haley, MS 9226. Prepared under Contract No. DE-AC07-05ID14516. Shipment INR13001. ERG 163. Cask 00-07. ~~Weight 17,710 Kg.~~ EXCLUSIVE USE SHIPMENT. Weight 39,043 Lb.

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Cynthia Mahlum
Signature: Cynthia Mahlum
Month 01 Day 08 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Claude A. Beebe
Signature: Claude A. Beebe
Month 01 Day 08 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Podor
Signature:
Month 1 Day 10 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ID4890008952
2. Page 1 of 1
3. Emergency Response Phone: (208) 526-1515
4. Manifest Tracking Number: 001499820 JJK

5. Generator's Name and Mailing Address: Idaho National Laboratory, U.S. Department of Energy, 1580 Sawtelle Street, MS-9226, Idaho Falls, ID 83402
Generator's Phone: (208) 533-3377

Generator's Site Address (if different than mailing address): Idaho National Laboratory Scoville, ID 83415

6. Transporter 1 Company Name: CAST Specialty Transportation Inc. (888) 699-6262
TK# C33
TR# RH007
U.S. EPA ID Number: COR000206722

7. Transporter 2 Company Name
TK#
TR#
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Waste Isolation Pilot Project
30 Miles East of Carlsbad on JAL Highway
Eddy County, NM 88221
Facility's Phone: (575) 234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
RQ	1 (1.) UN2917, Waste Radioactive material, Type B(M) package, 7, Pu-238 Sr-90, solid oxide 3.391E-01 TBq, Radioactive Yellow-III TI=1.1,	1	CM	753	K	D010 D006	D008 D005	D007 D004
	2 Fissile excepted, (PCBs) Bulk product PCBs > 50 ppm, O.O.S. 9/25/74, RH72-B Cask, USA/9212/B(M) F-96 , BC-ID0317							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Return signed original within 30 days to CWI for U.S. DOE, Attn: Dan Haley, MS 9226. Prepared under Contract No. DE-AC07-05ID14516. Shipment INR13002. ERG 163. Cask 00-06. Weight 38,452 lbs. EXCLUSIVE USE SHIPMENT.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Stephen Keating
Signature: Stephen Keating
Month 01 Day 09 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MARK E. BEENE
Signature: Mark E Beene
Month 01 Day 09 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Pool
Signature: M Pool
Month 1 Day 10 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
ID4890008952	1	(208) 526-1515	001499827 JJK

5. Generator's Name and Mailing Address
Idaho National Laboratory, U.S. Department of Energy, 1580 Sawtelle Street, MS-9226, Idaho Falls, ID 83402
Generator's Phone: ~~(208) 533-3377~~ (865) 482-8670

Generator's Site Address (if different than mailing address)
Idaho National Laboratory
Scoville, ID
83415

6. Transporter 1 Company Name
Visionary Solutions, LLC
TR# N20 RH008
U.S. EPA ID Number: NMR000013086

7. Transporter 2 Company Name
TR#
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Waste Isolation Pilot Project
30 Miles East of Carlsbad on JAL Highway
Facility Eddy County, NM 88221 (575) 234-8457
U.S. EPA ID Number: NM4890139088

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
RQ	1. (1.) UN2917, Waste Radioactive material, Type B(M) package, 7, Pu-238 Sr-90, solid oxide 6.191E-01 TBq, Radioactive Yellow-III TI=1.1, Fissile Excepted, RH72-B Cask, USA/9212/B(M)F-96, BC-ID0318	1	CM	1603	P	D010 D008 D007 D006 D005 D004
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Return signed original within 30 days to CWI for U.S. DOE, Attn: Dan Haley, MS 9226. Prepared under Contract No. DE-AC07-05ID14516. Shipment INR13003. ERG #163. Cask 00-04. Weight 38,228 lbs. EXCLUSIVE USE SHIPMENT.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Cynthia Mahlum
Signature: Cynthia A Mahlum
Month 01 Day 12 Year 13

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Douglas Fursa
Signature:
Month 1 Day 12 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: G Kessler
Signature:
Month 01 Day 13 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)**

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

3. Copies of waste manifests of CH shipments with payloads disposed of from April 1, 2013 through May 15, 2013, of all RH shipments received from December 13, 2012 through February 15, 2013. In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection.

   3.a Copies of waste manifests of CH shipments with payloads disposed of from April 1, 2013 through May 15, 2013.

   3.b All RH shipments received from December 13, 2012 through February 15, 2013.

   3.c <u>In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection. [135 pages]</u>

3...In addition, obtain photocopies of all in-house routing, transfer, and/or 'cleared to deposit' documents for the one month prior to this inspection. (August 11-Sept 12, 2013)

Shipment Number	Shipment Number
LA130114	IN130178
SR313067	IN130180
AER13021	IN130181
IN130168	IN130182
IN130169	IN130183
LA130115	SR313075
SR313068	IN130185
LA130116	LA130124
INR13047	IN130184
SR313069	SR313076
LA130117	INR13050
SR313070	LA130126
LA130118	LA130125
IN130171	SR313077
IN130170	AER13023
IN130172	LA130127
IN130173	LA130128
INR13048	LA130129
IN130174	LA130130
IN130175	SR313078
LA130119	LA130131
SR313071	INR13051
LA130120	IN130187
IN130177	IN130186
IN130176	LA130132
AER13022	SR313079
SR313072	IN130188
LA130121	IN130189
INR13049	LA130133
SR313073	SR313080
LA130122	LA130134
SR313074	INR13052
LA130123	SR313081
IN130179	

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Tuesday, August 13, 2013 1:03 AM
To: DL Shipment Release Notification
Subject: LA130114

The following CONTROLLED WASTE CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130114 Trl.371 TP's 132 & 162 & 191 Arrived 08/13/13 @ 0035

Controlled Waste Shipment - Trupact's 162 & 191
Departure Date & Time: 08/12/13 @ 1625
(9/day) Vent Date & Time: 08/21/13 @ 1625

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Tuesday, August 13, 2013 7:26 AM
To: DL Shipment Release Notification
Subject: Shipment LA130114 is released for PROCESSING

Shipment LA130114 arrived 8/13/2013 @ 00:35 Trailer V371 Packages 132, 162 and 191.
Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 162 191 VENTING DEADLINE: 8/21/13 16:25

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Tuesday, August 13, 2013 1:34 PM
To: DL Shipment Release Notification
Subject: Shipment SR313067 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313067 arrived 8/13/2013 @ 13:25 Trailer V705 Package 002 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 14, 2013 7:50 AM
To: DL Shipment Release Notification
Subject: Shipment SR313067 is released for PROCESSING

Shipment SR313067 arrived 8/13/2013 @ 13:25 Trailer V705 Package 002.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Wednesday, August 14, 2013 12:42 AM
To: Bealler, Joseph - NWP; DL Shipment Release Notification
Subject: AER13021

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	08/13/13
TIME	23:30
SHIPMENT	AER13021
TRAILER	RH-006
PACKAGE #	00-02
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 14, 2013 9:13 AM
To: DL Shipment Release Notification
Subject: Shipment AER13021 is released for PROCESSING

Shipment AER13021 arrived 8/13/2013 @ 23:30 Trailer RH006 Package 00-02.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Wednesday, August 14, 2013 12:43 AM
To: Bealler, Joseph - NWP; DL Shipment Release Notification
Subject: IN130168

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	08/13/13
TIME	23:40
SHIPMENT	IN130168
TRAILER	335
PACKAGE #	198, 129
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 14, 2013 9:26 AM
To: DL Shipment Release Notification
Subject: Shipment IN130168 is released for PROCESSING

Shipment IN130168 arrived 8/13/2013 @ 23:40 Trailer C335 Packages 198 and 129.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Wednesday, August 14, 2013 12:44 AM
To: Bealler, Joseph - NWP; DL Shipment Release Notification
Subject: IN130169

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	08/14/13
TIME	00:25
SHIPMENT	IN130169
TRAILER	334
PACKAGE #	147, 156
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 14, 2013 7:36 AM
To: DL Shipment Release Notification
Subject: Shipment IN130169 is released for PROCESSING

Shipment IN130169 arrived 8/14/2013 @ 00:25 Trailer C334 Packages 147 and 156.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Wednesday, August 14, 2013 12:47 AM
To: Bealler, Joseph - NWP; DL Shipment Release Notification
Subject: LA130115

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	08/14/13
TIME	00:30
SHIPMENT	LA130115
TRAILER	331
PACKAGE #	130, 183, 188
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE Security noted that the inner passenger rear tire blow out, driver parked trailer at the center airlock	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 14, 2013 7:37 AM
To: DL Shipment Release Notification
Subject: Shipment LA130115 is released for PROCESSING

Shipment LA130115 arrived 8/14/2013 @ 00:30 Trailer C331 Packages 130, 183 and 188.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 14, 2013 2:21 PM
To: DL Shipment Release Notification
Subject: Shipment SR313068 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313068 arrived 8/14/2013 @ 14:10 Trailer V704 Package 003 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 15, 2013 8:09 AM
To: DL Shipment Release Notification
Subject: Shipment SR313068 is released for PROCESSING

Shipment SR313068 arrived 8/14/2013 @ 14:10 Trailer V704 Package 003.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Thursday, August 15, 2013 12:10 AM
To: Bealler, Joseph - NWP; DL Shipment Release Notification
Subject: LA130116

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	08/14/13
TIME	23:55
SHIPMENT	LA130116
TRAILER	340
PACKAGE #	180, 181, 125
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 15, 2013 8:08 AM
To: DL Shipment Release Notification
Subject: Shipment LA130116 is released for PROCESSING

Shipment LA130116 arrived 8/14/2013 @ 23:55 Trailer V340 Packages 180, 181 and 125.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Thursday, August 15, 2013 12:11 AM
To: Bealler, Joseph - NWP; DL Shipment Release Notification
Subject: INR13047

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	08/15/13
TIME	00:05
SHIPMENT	INR13047
TRAILER	RH-011
PACKAGE #	00-09
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE UHWM shows "TI=1.1" and "Exclusive Use Shipment", the check on the attachment shows "Exclusive Use Shipment when TI>10", I did not check the attachment	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 15, 2013 8:10 AM
To: DL Shipment Release Notification
Subject: Shipment INR13047 is released for PROCESSING

Shipment INR13047 arrived 8/15/2013 @ 00:05 Trailer RH011 Package 00-09.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 15, 2013 1:58 PM
To: DL Shipment Release Notification
Subject: Shipment SR313069 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313069 arrived 8/15/2013 @ 13:45 Trailer V702 Package 004 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 15, 2013 2:51 PM
To: DL Shipment Release Notification
Subject: Shipment SR313069 is released for PROCESSING

Shipment SR313069 arrived 8/15/2013 @ 13:45 Trailer V702 Package 004.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Thursday, August 15, 2013 11:50 PM
To: Bealler, Joseph - NWP; DL Shipment Release Notification
Subject: LA130117

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	08/15/13
TIME	23:30
SHIPMENT	LA130117
TRAILER	366
PACKAGE #	171, 136, 172
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Nieman, Bob - NWP
Sent: Friday, August 16, 2013 7:40 AM
To: DL Shipment Release Notification
Subject: Shipment LA130117 is released for PROCESSING

Shipment LA130117 arrived 8/15/2013 @ 23:30 Trailer V366 Packages 171, 136 and 172.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Bob Nieman
Transportation Specialist
Nuclear Waste Partnership, LLC
Contractor for the U.S. Department of Energy
(575) 234-8141

Nieman, Bob - NWP

From: Nieman, Bob - NWP
Sent: Friday, August 16, 2013 1:37 PM
To: DL Shipment Release Notification
Subject: Shipment SR313070 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313070 arrived 8/16/2013 @ 14:21 Trailer V706 Package 001 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Bob Nieman
Transportation Specialist
Nuclear Waste Partnership, LLC
Contractor for the U.S. Department of Energy
(575) 234-8141

Nieman, Bob - NWP

From: Nieman, Bob - NWP
Sent: Friday, August 16, 2013 2:15 PM
To: DL Shipment Release Notification
Subject: Shipment SR313070 is released for PROCESSING

Shipment SR313070 arrived 8/16/2013 @ 14:21 Trailer V706 Package 001.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Bob Nieman
Transportation Specialist
Nuclear Waste Partnership, LLC
Contractor for the U.S. Department of Energy
(575) 234-8141

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Friday, August 16, 2013 10:07 PM
To: DL Shipment Release Notification
Subject: LA130118 Arrival

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130118 Trl.324 TP's 139, 155 and 133 Arrived 08/16/13 @ 2156

Normal Waste Shipment (Not Controlled)

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Saturday, August 17, 2013 8:18 AM
To: DL Shipment Release Notification
Subject: LA130118 Arrival

The following CH shipment has arrived and is released for processing:

LA130118 Trl.324 TP's 139, 155 and 133 Arrived 08/16/13 @ 2156

Normal Waste Shipment (Not Controlled)

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Friday, August 16, 2013 11:33 PM
To: DL Shipment Release Notification
Subject: IN130171 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130171 Trl.362 TP's 187 and 194 Arrived 08/16/13 @ 2305

Controlled Waste Shipment

Venting Deadline for TP's 187 & 194: 08/24/13 @ 0945

TRUPACT's 187 & 194 – contain PCB's

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Saturday, August 17, 2013 7:46 AM
To: DL Shipment Release Notification
Subject: IN130171 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and is released for processing:

IN130171 Trl.362 TP's 187 and 194 Arrived 08/16/13 @ 2305

Controlled Waste Shipment

Venting Deadline for TP's 187 & 194: 08/24/13 @ 0945

TRUPACT's 187 & 194 – contain PCB's

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Friday, August 16, 2013 11:35 PM
To: DL Shipment Release Notification
Subject: IN130170 Arrival

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130170 Trl.357 TP's 178 and 174 Arrived 08/16/13 @ 2322

Normal Waste Shipment (Not Controlled)

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Saturday, August 17, 2013 7:46 AM
To: DL Shipment Release Notification
Subject: IN130170 Arrival

The following CH shipment has arrived and is released for processing:

IN130170 Trl.357 TP's 178 and 174 Arrived 08/16/13 @ 2322

Normal Waste Shipment (Not Controlled)

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Saturday, August 17, 2013 10:32 PM
To: DL Shipment Release Notification
Subject: IN130172 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130172 Trl.376 TP's 154 and 164 Arrived 08/17/13 @ 2221

Controlled Waste Shipment

Venting Deadline for TP's 154 & 164: 08/25/13 @ 1000

TRUPACT's 154 & 164 – contain PCB's

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Sunday, August 18, 2013 8:00 AM
To: Cooper, Andy - NWP; DL Shipment Release Notification
Subject: RE: IN130172 (CONTROLLED SHIPMENT)

Shipment Released for processing.

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

From: Cooper, Andy - NWP
Sent: Saturday, August 17, 2013 10:32 PM
To: DL Shipment Release Notification
Subject: IN130172 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130172 Trl.376 TP's 154 and 164 Arrived 08/17/13 @ 2221

Controlled Waste Shipment

Venting Deadline for TP's 154 & 164: 08/25/13 @ 1000

TRUPACT's 154 & 164 – contain PCB's

Andy Cooper
Facility Operations

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Saturday, August 17, 2013 11:37 PM
To: DL Shipment Release Notification
Subject: IN130173 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130173 Trl.345 TP's 141, 197 and 509 Arrived 08/17/13 @ 2300

Controlled Waste Shipment

Venting Deadline for TP's 141 & 197: 08/25/13 @ 1035

TRUPACT's 141 & 197 – contain PCB's

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Sunday, August 18, 2013 8:01 AM
To: Cooper, Andy - NWP; DL Shipment Release Notification
Subject: RE: IN130173 (CONTROLLED SHIPMENT)

Shipment released for processing.

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

From: Cooper, Andy - NWP
Sent: Saturday, August 17, 2013 11:37 PM
To: DL Shipment Release Notification
Subject: IN130173 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130173 Trl.345 TP's 141, 197 and 509 Arrived 08/17/13 @ 2300

Controlled Waste Shipment

Venting Deadline for TP's 141 & 197: 08/25/13 @ 1035

TRUPACT's 141 & 197 – contain PCB's

Andy Cooper
Facility Operations
NWP, LLC.

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Sunday, August 18, 2013 12:14 AM
To: DL Shipment Release Notification
Subject: INR13048 Arrival

The following RH shipment has arrived and requires Surveys and it is NOT released for processing:

INR13048 Trl.RH-003 CASK 00-05 Arrived 08/18/13 @ 0001

Normal Waste Shipment (Not Controlled)

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Sunday, August 18, 2013 7:22 AM
To: Cooper, Andy - NWP; DL Shipment Release Notification
Subject: RE: INR13048 Arrival

Shipment is released for processing.

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

From: Cooper, Andy - NWP
Sent: Sunday, August 18, 2013 12:14 AM
To: DL Shipment Release Notification
Subject: INR13048 Arrival

The following RH shipment has arrived and requires Surveys and it is NOT released for processing:

INR13048 Trl.RH-003 CASK 00-05 Arrived 08/18/13 @ 0001

Normal Waste Shipment (Not Controlled)

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Sunday, August 18, 2013 10:55 PM
To: DL Shipment Release Notification
Subject: IN130174 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130174 Trl.356 TP's 157, 161 and 508 Arrived 08/18/13 @ 2240

Controlled Waste Shipment

Venting Deadline for TP's 157, 161 & 508: 08/26/13 @ 1235

TRUPACT's 157, 161 & 508 – contain PCB's

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Monday, August 19, 2013 8:58 AM
To: DL Shipment Release Notification
Subject: Shipment IN130174 is released for PROCESSING

Shipment IN130174 arrived 8/18/2013 @ 22:40 Trailer C356 Packages 157, 161 and 508. Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 157 161 508 VENTING DEADLINE: 08/26/13 @ 1235

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Sunday, August 18, 2013 11:39 PM
To: DL Shipment Release Notification
Subject: IN130175 Arrival (CONTROLLED SHIPMENT)

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130175 Trl.375 TP's 159, 126 and 503 Arrived 08/18/13 @ 2328

Controlled Waste Shipment

Venting Deadline for TP's 159 & 126: 08/26/13 @ 1030

TRUPACT's 159 & 126 – contain PCB's

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Monday, August 19, 2013 8:55 AM
To: DL Shipment Release Notification
Subject: Shipment IN130175 is released for PROCESSING

Shipment IN130175 arrived 8/18/2013 @ 23:28 Trailer C375 Packages 159, 126 and 503.
Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 159 126 VENTING DEADLINE: 08/26/13 @ 1030

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Tuesday, August 20, 2013 12:34 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: CH shipment LA130119 (Normal/Waste) NOT released (needs surveys)

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130119 Trl.369 TP's 168 & 146 & 209 Arrived 08/20/13 @ 0007

Normal Waste Shipment (Not Controlled)

Have a good day !!

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Tuesday, August 20, 2013 7:42 AM
To: DL Shipment Release Notification
Subject: Shipment LA130119 is released for PROCESSING

Shipment LA130119 arrived 8/20/2013 @ 00:07 Trailer V369 Packages 168, 146 and 209.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Tuesday, August 20, 2013 1:23 PM
To: DL Shipment Release Notification
Subject: Shipment SR313071 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313071 arrived 8/20/2013 @ 13:03 Trailer V707 Package 005 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Tuesday, August 20, 2013 2:52 PM
To: DL Shipment Release Notification
Subject: Shipment SR313071 is released for PROCESSING

Shipment SR313071 arrived 8/20/2013 @ 13:03 Trailer V707 Package 005.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Wednesday, August 21, 2013 12:35 AM
To: DL Shipment Release Notification
Subject: LA130120

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130120 Trl. 336 TRUPACTS 167,202, and 142 Arrived 08/20/13 @ 2330

This is a Controlled Vent time for all trupacts is 08/28/13 1530

Mike Proctor
Facility Operations Crew C
NWP LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Wednesday, August 21, 2013 9:43 AM
To: DL Shipment Release Notification
Subject: Shipment LA130120 is released for PROCESSING

Shipment LA130120 arrived 8/20/2013 @ 23:30 Trailer C336 Packages 167, 202 and 142. Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 167 202 142 VENTING DEADLINE: 08/29/13 @ 1530

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Wednesday, August 21, 2013 12:42 AM
To: DL Shipment Release Notification
Subject: IN130177

IN130177 Trl.360 TRUPACTS 160, 128, and 506 Arrived 08/20/13 @ 2339

This is a controlled shipment

Vent time for all TRUPACTS 08/28/13 1040

TRUPACTS 128 and 160 contain PCB's

Mike Proctor
Facility Operations Crew C
NWP LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Wednesday, August 21, 2013 8:07 AM
To: DL Shipment Release Notification
Subject: Shipment IN130177 is released for PROCESSING

Shipment IN130177 arrived 8/20/2013 @ 23:39 Trailer C360 Packages 160, 128 and 506. Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 160 128 506 VENTING DEADLINE: 08/28/13 @ 1040

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Wednesday, August 21, 2013 12:44 AM
To: DL Shipment Release Notification
Subject: IN130176

IN130176 Trl.326 TRUPACTS 137, 206, and 507 Arrived 08/20/13 @ 2347

This is a controlled shipment

Vent time for all TRUPACTS 08/28/13 0945

TRUPACTS 137 and 1206 contain PCB's

Mike Proctor
Facility Operations Crew C
NWP LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Wednesday, August 21, 2013 8:09 AM
To: DL Shipment Release Notification
Subject: Shipment IN130176 is released for PROCESSING

Shipment IN130176 arrived 8/20/2013 @ 23:47 Trailer C326 Packages 137, 206 and 507.
Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 137 206 VENTING DEADLINE: 08/28/13 @ 0945

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Wednesday, August 21, 2013 1:07 AM
To: DL Shipment Release Notification
Subject: AER13022

The following RH shipment has arrived and is not released for processing:

AER13022 Trl.RH-008 CASK 00-12 Arrived 08/21/13 @ 0100

Mike Proctor
Facility Operations Crew C
NWP LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Wednesday, August 21, 2013 9:31 AM
To: DL Shipment Release Notification
Subject: Shipment AER13022 is released for PROCESSING

Shipment AER13022 arrived 8/21/2013 @ 01:00 Trailer RH008 Package 00-12.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Wednesday, August 21, 2013 2:55 PM
To: DL Shipment Release Notification
Subject: Shipment SR313072 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313072 arrived 8/21/2013 @ 14:30 Trailer V705 Package 002 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Wednesday, August 21, 2013 3:16 PM
To: DL Shipment Release Notification
Subject: Shipment SR313072 is released for PROCESSING

Shipment SR313072 arrived 8/21/2013 @ 14:30 Trailer V705 Package 002.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Thursday, August 22, 2013 12:02 AM
To: DL Shipment Release Notification
Subject: LA130121

The following CONTROLLED CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130121 Trl.342 TP's 127, 131 and 210 Arrived 08/21/13 @ 2330

Controlled Waste Shipment

Venting Deadline for TP's 127, 131, & 210: 08/30/13 @ 1525

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Thursday, August 22, 2013 8:17 AM
To: DL Shipment Release Notification
Subject: Shipment LA130121 is released for PROCESSING

Shipment LA130121 arrived 8/21/2013 @ 23:30 Trailer V342 Packages 127, 131 and 210. Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 127 131 210 VENTING DEADLINE: 08/30/13 @ 1525

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Thursday, August 22, 2013 12:38 AM
To: DL Shipment Release Notification
Subject: INR13049

The following RH shipment has arrived and requires Surveys and it is NOT released for processing:

INR13049 Trl.RH-002 CASK 00-07 Arrived 08/22/13 @ 0015

Normal Waste Shipment (Not Controlled)

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Thursday, August 22, 2013 12:10 PM
To: DL Shipment Release Notification
Subject: Shipment INR13049 is released for PROCESSING

Shipment INR13049 arrived 8/22/2013 @ 00:15 Trailer RH002 Package 00-07.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Thursday, August 22, 2013 2:58 PM
To: DL Shipment Release Notification
Subject: Shipment SR313073 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313073 arrived 8/22/2013 @ 14:40 Trailer V703 Package 003 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Nieman, Bob - NWP
Sent: Thursday, August 22, 2013 3:39 PM
To: DL Shipment Release Notification
Subject: Shipment SR313073 is released for PROCESSING

Shipment SR313073 arrived 8/22/2013 @ 14:40 Trailer V703 Package 003.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Bob Nieman
Transportation Specialist
Nuclear Waste Partnership, LLC
Contractor for the U.S. Department of Energy
(575) 234-8141

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Friday, August 23, 2013 12:11 AM
To: DL Shipment Release Notification
Subject: LA130122

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130122 Trl.368 TP's 179, 150 and 148 Arrived 08/22/13 @ 2330

Normal Waste Shipment (Not Controlled)

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Friday, August 23, 2013 7:20 AM
To: DL Shipment Release Notification
Subject: Shipment LA130122 is released for PROCESSING

Shipment LA130122 arrived 8/22/2013 @ 23:30 Trailer V368 Packages 179, 150 and 148.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Friday, August 23, 2013 12:18 PM
To: DL Shipment Release Notification
Subject: Shipment SR313074 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313074 arrived 8/23/2013 @ 12:01 Trailer V702 Package 004 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Friday, August 23, 2013 1:29 PM
To: DL Shipment Release Notification
Subject: Shipment SR313074 is released for PROCESSING

Shipment SR313074 arrived 8/23/2013 @ 12:01 Trailer V702 Package 004.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Saturday, August 24, 2013 12:42 AM
To: DL Shipment Release Notification
Subject: LA130123 Shipment Needs Surveys

Shipment LA130123 arrived 08/24/2013 @ 0020 Trailer 332 Packages 156, 147, 129.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Saturday, August 24, 2013 8:44 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: LA130123 Shipment released

Surveys are complete and CH Shipment LA130123 is now released for processing.

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

From: Long, Mark - NWP
Sent: Saturday, August 24, 2013 12:42 AM
To: DL Shipment Release Notification
Subject: LA130123 Shipment Needs Surveys

Shipment LA130123 arrived 08/24/2013 @ 0020 Trailer 332 Packages 156, 147, 129.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Saturday, August 24, 2013 12:51 AM
To: DL Shipment Release Notification
Subject: IN130179 Controlled Shipment Needs Surveys

Shipment IN130179 arrived 08/24/2013 @ 0027 Trailer 377 Packages 170, 166.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 170, 166. VENTING DEADLINE: 08/31/13 @ 1100.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Saturday, August 24, 2013 8:45 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: IN130179 Controlled Shipment released

Surveys are complete and Controlled CH Shipment IN130179 is now released for processing.

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

From: Long, Mark - NWP
Sent: Saturday, August 24, 2013 12:51 AM
To: DL Shipment Release Notification
Subject: IN130179 Controlled Shipment Needs Surveys

Shipment IN130179 arrived 08/24/2013 @ 0027 Trailer 377 Packages 170, 166.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 170, 166. VENTING DEADLINE: 08/31/13 @ 1100.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Saturday, August 24, 2013 12:57 AM
To: DL Shipment Release Notification
Subject: IN130178 Controlled Shipment Needs Surveys

Shipment IN130178 arrived 08/24/2013 @ 0034 Trailer 359 Packages 208, 182.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 208, 182. VENTING DEADLINE: 08/31/13 @ 1250.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Saturday, August 24, 2013 8:45 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: IN130178 Controlled Shipment released

Surveys are complete and Controlled CH Shipment IN130178 is now released for processing.

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

From: Long, Mark - NWP
Sent: Saturday, August 24, 2013 12:57 AM
To: DL Shipment Release Notification
Subject: IN130178 Controlled Shipment Needs Surveys

Shipment IN130178 arrived 08/24/2013 @ 0034 Trailer 359 Packages 208, 182.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 208, 182. VENTING DEADLINE: 08/31/13 @ 1250.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Kessler, Gary - NWP
Sent: Saturday, August 24, 2013 10:16 PM
To: DL Shipment Release Notification
Subject: CH SHIPMENT ARRIVAL /IN130180, NORMAL WASTE

IN130180 ARRIVED 08/24/13 @ 2150 W/TRUPACTS 135,207 ON TRLR. 372. SURVEY ARE REQUIRED AND SHIPMENT IS NOT RELEASED FOR PROCESSING.
THIS IS A NORMAL WASTE SHIPMENT.
THANKS,
G.KESSLER /8276

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Sunday, August 25, 2013 10:30 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: CH SHIPMENT IN130180, NORMAL WASTE released

Surveys are complete and CH Shipment IN130180 is now released for processing.

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

From: Kessler, Gary - NWP
Sent: Saturday, August 24, 2013 10:16 PM
To: DL Shipment Release Notification
Subject: CH SHIPMENT ARRIVAL /IN130180, NORMAL WASTE

IN130180 ARRIVED 08/24/13 @ 2150 W/TRUPACTS 135,207 ON TRLR. 372. SURVEY ARE REQUIRED AND SHIPMENT IS NOT RELEASED FOR PROCESSING.
THIS IS A NORMAL WASTE SHIPMENT.
THANKS,
G.KESSLER /8276

Nieman, Bob - NWP

From: Kessler, Gary - NWP
Sent: Saturday, August 24, 2013 10:53 PM
To: DL Shipment Release Notification
Subject: CH SHIPMENT ARRIVAL/NORMAL WASTE, IN130181

IN130181 ARRIVED 08/24/13 @ 2248 W/ TRUPACTS 144,158, ON TRLR. 337. SURVEYS ARE REQUIRED AND SHIPMENT IS NOT RELEASED FOR PROCESSING.
NORMAL WASTE SHIPMENT
THANKS,
G.KESSLER/8276

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Sunday, August 25, 2013 10:30 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: CH SHIPMENT ARRIVAL/NORMAL WASTE, IN130181 released

Surveys are complete and CH Shipment IN130181 is now released for processing.

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

From: Kessler, Gary - NWP
Sent: Saturday, August 24, 2013 10:53 PM
To: DL Shipment Release Notification
Subject: CH SHIPMENT ARRIVAL/NORMAL WASTE, IN130181

IN130181 ARRIVED 08/24/13 @ 2248 W/ TRUPACTS 144,158, ON TRLR. 337. SURVEYS ARE REQUIRED AND SHIPMENT IS NOT RELEASED FOR PROCESSING.
NORMAL WASTE SHIPMENT
THANKS,
G.KESSLER/8276

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Sunday, August 25, 2013 10:16 PM
To: DL Shipment Release Notification
Subject: IN130182 Shipment Needs Surveys

Shipment IN130182 arrived 08/25/2013 @ 2205 Trailer 344 Packages 185, 177.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Monday, August 26, 2013 9:01 AM
To: DL Shipment Release Notification
Subject: Shipment IN130182 is released for PROCESSING

Shipment IN130182 arrived 8/25/2013 @ 22:05 Trailer C344 Packages 185 and 177.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Sunday, August 25, 2013 11:38 PM
To: DL Shipment Release Notification
Subject: IN130183 Shipment Needs Surveys

Shipment IN130183 arrived 08/25/2013 @ 2326 Trailer 325 Packages 130, 183, 502.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Monday, August 26, 2013 9:00 AM
To: DL Shipment Release Notification
Subject: Shipment IN130183 is released for PROCESSING

Shipment IN130183 arrived 8/25/2013 @ 23:26 Trailer C325 Packages 130, 183 and 502.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Tuesday, August 27, 2013 2:35 PM
To: DL Shipment Release Notification
Subject: Shipment SR313075 is released for PROCESSING

Shipment SR313075 arrived 8/27/2013 @ 13:30 Trailer V704 Package 006.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Tuesday, August 27, 2013 11:05 PM
To: DL Shipment Release Notification
Subject: IN130185 Arrival

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130185 Trl.351 TP's 171, 136 and 513 Arrived 08/27/13 @ 2255

Normal Waste Shipment (Not Controlled)

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 28, 2013 9:10 AM
To: DL Shipment Release Notification
Subject: Shipment IN130185 is released for PROCESSING

Shipment IN130185 arrived 8/27/2013 @ 22:55 Trailer C351 Packages 171, 136 and 513.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Tuesday, August 27, 2013 11:48 PM
To: DL Shipment Release Notification
Subject: LA130124 Arrival

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130124 Trl.371 TP's 132, 162 and 191 Arrived 08/27/13 @ 2328

Normal Waste Shipment (Not Controlled)

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 28, 2013 9:07 AM
To: DL Shipment Release Notification
Subject: Shipment LA130124 is released for PROCESSING

Shipment LA130124 arrived 8/27/2013 @ 23:28 Trailer V371 Packages 132, 162 and 191.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Cooper, Andy - NWP
Sent: Wednesday, August 28, 2013 12:06 AM
To: DL Shipment Release Notification
Subject: IN130184 Arrival

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130184 Trl.323 TP's 188, 125 and 512 Arrived 08/27/13 @ 2358

Normal Waste Shipment (Not Controlled)

Andy Cooper
Facility Operations
NWP, LLC.
Contractor for the U.S. D.O.E.

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 28, 2013 9:06 AM
To: DL Shipment Release Notification
Subject: Shipment IN130184 is released for PROCESSING

Shipment IN130184 arrived 8/27/2013 @ 23:58 Trailer C323 Packages 188, 125 and 512.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 28, 2013 1:33 PM
To: DL Shipment Release Notification
Subject: Shipment SR313076 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313076 arrived 8/28/2013 @ 13:25 Trailer V706 Package 001 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, August 28, 2013 2:23 PM
To: DL Shipment Release Notification
Subject: Shipment SR313076 is released for PROCESSING

Shipment SR313076 arrived 8/28/2013 @ 13:25 Trailer V706 Package 001.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Thursday, August 29, 2013 12:11 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: RH shipment (Normal/Waste) INR13050 NOT released (needs surveys)

The following RH shipment has arrived and requires Surveys and it is NOT released for processing:

INR13050 Trl.RH-007 Cask# 00-04 Arrived 08/28/13 @ 2353

Normal Waste Shipment (Not Controlled)

Have a good day!!

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 29, 2013 9:57 AM
To: DL Shipment Release Notification
Subject: Shipment INR13050 is released for PROCESSING

Shipment INR13050 arrived 8/28/2013 @ 11:53:00 PM Trailer RH007 Package 00-04 Surveys are complete. Cask is released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Thursday, August 29, 2013 2:50 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: CH shipment LA130126 (Normal/Waste) NOT released (needs surveys)

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130126 Trl.374 TP's 184 & 201 & 157 Arrived 08/29/13 @ 0203

Normal Waste Shipment (Not Controlled)

Have a good day !!

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 29, 2013 8:08 AM
To: DL Shipment Release Notification
Subject: Shipment LA130126 is released for PROCESSING

Shipment LA130126 arrived 8/29/2013 @ 02:03 Trailer V374 Packages 184, 201 and 157.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Thursday, August 29, 2013 2:50 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: CH shipment LA130125 (Normal/Waste) NOT released (needs surveys)

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130125 Trl.361 TP's 180 & 181 & 172 Arrived 08/29/13 @ 0230

Normal Waste Shipment (Not Controlled)

Have a good day !!

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 29, 2013 8:06 AM
To: DL Shipment Release Notification
Subject: Shipment LA130125 is released for PROCESSING

Shipment LA130125 arrived 8/29/2013 @ 02:30 Trailer C361 Packages 180, 181 and 172.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 29, 2013 1:08 PM
To: DL Shipment Release Notification
Subject: Shipment SR313077 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313077 arrived 8/29/2013 @ 12:55 Trailer V707 Package 005 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, August 29, 2013 2:01 PM
To: DL Shipment Release Notification
Subject: Shipment SR313077 is released for PROCESSING

Shipment SR313077 arrived 8/29/2013 @ 12:55 Trailer V707 Package 005.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Friday, August 30, 2013 12:41 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: RH shipment (Normal/Waste) AER13023 NOT released (needs surveys)

The following RH shipment has arrived and requires Surveys and it is NOT released for processing:

AER13023 Trl.RH-009 **Cask# 00-08** Arrived 08/29/13 @ 2340

Normal Waste Shipment (Not Controlled)

Have a good day!!

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Friday, August 30, 2013 11:27 AM
To: DL Shipment Release Notification
Subject: FW: RH shipment (Normal/Waste) AER13023

Surveys are now complete. (AER13023 Trl.RH-009 Cask# 00-08 Arrived 08/29/13 @ 2340)
Shipment is released for processing.

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

From: Stroble, Russ - NWP
Sent: Friday, August 30, 2013 12:41 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: RH shipment (Normal/Waste) AER13023 NOT released (needs surveys)

The following RH shipment has arrived and requires Surveys and it is ~~NOT~~ released for processing:

AER13023 Trl.RH-009 Cask# 00-08 Arrived 08/29/13 @ 2340

Normal Waste Shipment (Not Controlled)

Have a good day!!

Nieman, Bob - NWP

From: Stroble, Russ - NWP
Sent: Friday, August 30, 2013 12:41 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: CH shipment LA130127 (Normal/Waste) NOT released (needs surveys)

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130127 Trl.365 TP's 126 & 178 & 155 Arrived 08/30/13 @ 0017

Normal Waste Shipment (Not Controlled)

Have a good day !!

Russ Stroble -- FSM / T.E.
Facility Operations Crew D
(505) 234-8554
MS-451-13
NWP LLC
Contractor for the U.S. Department of Energy

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Friday, August 30, 2013 8:10 AM
To: DL Shipment Release Notification
Subject: FW: CH shipment LA130127 (Normal/Waste)

Surveys are now complete. (LA130127 Trl.365 TP's 126 & 178 & 155 Arrived 08/30/13 @ 0017)
The shipment is released for processing.

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

From: Stroble, Russ - NWP
Sent: Friday, August 30, 2013 12:41 AM
To: Batchelder, Terry - NWP; Bealler, Joseph - NWP; Bennett, Kevin - NWP; Bradford, Brad - NWP; Britain, Beau - NWP; Britain, Randy - NWP; Brown, Mike - DOE; Carrasco, Ruben - NWP; Chism, Gary - NWP; Cooper, Andy - NWP; Darrah, Kyle - NWP; Galloway, Glen - NWP; Giblin, John - NWP; Groves, Roger - NWP; Howard, Joel - NWP; Jasso, Pat - NWP; Johnson, Angela - NWP; Kessler, Gary - NWP; Lewis, Leslie - NWP; Littrell, Carolyn - NWP; Long, Mark - NWP; Nance, Kirk - NWP; Nieman, Bob - NWP; Paneral, Paul - NWP; Parrish, Dale - NWP; Proctor, Mike - NWP; Ripley, David - NWP; Roybal, Eddie - NWP; Smith, Jennifer - NWP; Snow, David - NWP; Suggs, Craig - NWP; Valenzuela, Ramon - NWP; Walker, Andy - DOE; White, John - NWP; Whiteley, Rick - NWP; Williams, Alvy - NWP
Subject: CH shipment LA130127 (Normal/Waste) NOT released (needs surveys)

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130127 Trl.365 TP's 126 & 178 & 155 Arrived 08/30/13 @ 0017

Normal Waste Shipment (Not Controlled)

Have a good day !!

Russ Stroble -- FSM / T.E.
Facility Operations Crew D

Nieman, Bob - NWP

From: Kessler, Gary - NWP
Sent: Wednesday, September 04, 2013 1:24 AM
To: DL Shipment Release Notification
Subject: CH SHIPMENT ARRIVAL/LA130128/NORMAL WASTE

LA130128 ARRIVED 09/03/13 @ 2350 W/TRUPACTS 168,146,209 ON TRLR. 353 , SURVEYS ARE REQUIRED AND SHIPMENT IS NOT RELEASED FOR PROCESSING.(NORMAL WASTE SHIPMENT)
THANKS
G.KESSLER/8276

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Wednesday, September 04, 2013 9:57 AM
To: DL Shipment Release Notification
Subject: Shipment LA130128 is released for PROCESSING

Shipment LA130128 arrived 9/3/2013 @ 23:50 Trailer C353 Packages 168, 146 and 209.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Kessler, Gary - NWP
Sent: Wednesday, September 04, 2013 11:55 PM
To: DL Shipment Release Notification
Subject: CH SHIPMENT ARRIVAL /LA130129/ NORMAL WASTE

LA130129 ARRIVED 09/04/13 @ 2335 W/TRUPACTS 137,206,160 ON TRLR.378. SURVEYS ARE REQUIRED AND SHIPMENT IS NOT RELEASED FOR PROCESSING.
THANKS,
G.KESSLER
NWP/8276

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Thursday, September 05, 2013 7:44 AM
To: DL Shipment Release Notification
Subject: Shipment LA130129 is released for PROCESSING

Shipment LA130129 arrived 9/4/2013 @ 23:35 Trailer V378 Packages 137, 206 and 160.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Friday, September 06, 2013 12:34 AM
To: DL Shipment Release Notification
Subject: LA130130 Shipment Needs Surveys

Shipment LA130130 arrived 09/06/2013 @ 0025 Trailer 355 Packages 167, 142, 174.
Attention RadCon Engineer: SURVEYS ARE REQUIRED. Packages are NOT released for processing.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Friday, September 06, 2013 8:25 AM
To: DL Shipment Release Notification
Subject: Shipment LA130130 is released for PROCESSING

Shipment LA130130 arrived 9/6/2013 @ 00:25 Trailer C355 Packages 167, 142 and 174.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Carrasco, Ruben - NWP
Sent: Friday, September 06, 2013 2:37 PM
To: DL Shipment Release Notification
Subject: Shipment SR313078 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313078 arrived 9/6/2013 @ 14:20 Trailer V705 Package 002 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Friday, September 06, 2013 4:11 PM
To: Carrasco, Ruben - NWP; DL Shipment Release Notification
Subject: RE: Shipment SR313078 arrived at WIPP. SURVEYS REQUIRED

This shipment is released for processing.

THANKS
Joseph E. Bealler
NUCLEAR WASTE PARTNERSHIP, LLC
Contractor for the U.S. Department of Energy (DOE)

-----Original Message-----
From: Carrasco, Ruben - NWP
Sent: Friday, September 06, 2013 2:37 PM
To: DL Shipment Release Notification
Subject: Shipment SR313078 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313078 arrived 9/6/2013 @ 14:20 Trailer V705 Package 002 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Saturday, September 07, 2013 12:38 AM
To: DL Shipment Release Notification
Subject: LA130131

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130131 Trl.333 TP's 127, 131 and 210 Arrived 09/06/13 @ 2345

Normal Waste Shipment (Not Controlled)

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Williams, Alvy - NWP
Sent: Saturday, September 07, 2013 10:22 AM
To: Bostick, Leroy - NWP; DL Shipment Release Notification; Parrish, Dale - NWP
Subject: FW: LA130131

This shipment has been surveyed and is released for processing.

Alvy Williams
Facility Shift Manager
Transportation Engineer
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
575-234-8276

From: Paneral, Paul - NWP
Sent: Saturday, September 07, 2013 12:38 AM
To: DL Shipment Release Notification
Subject: LA130131

The following CH shipment has arrived is released for processing:

LA130131 Trl.333 TP's 127, 131 and 210 Arrived 09/06/13 @ 2345

Normal Waste Shipment (Not Controlled)

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Paneral, Paul - NWP
Sent: Saturday, September 07, 2013 1:31 AM
To: DL Shipment Release Notification
Subject: INR13051

The following RH shipment has arrived and requires Surveys and it is NOT released for processing:

INR13051 Trl.RH-005 CASK 00-03 Arrived 09/07/13 @ 0100

Normal Waste Shipment (Not Controlled)

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Saturday, September 07, 2013 11:34 AM
To: Paneral, Paul - NWP; DL Shipment Release Notification
Subject: RE: INR13051

This shipment is released for processing.

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

From: Paneral, Paul - NWP
Sent: Saturday, September 07, 2013 1:31 AM
To: DL Shipment Release Notification
Subject: INR13051

The following RH shipment has arrived and requires Surveys and it is NOT released for processing:

Normal Waste Shipment (Not Controlled)

Paul J. Paneral
Facility Operations Crew C
Nuclear Waste Partnership LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Sunday, September 08, 2013 10:14 PM
To: DL Shipment Release Notification
Subject: IN130187

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130187 Trl.367 TRUPACTS 141, and 197 Arrived 09/8/13 @ 2202

Mike Proctor
Facility Operations Crew C
NWP LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Monday, September 09, 2013 11:01 AM
To: DL Shipment Release Notification
Subject: Shipment IN130187 is released for PROCESSING

Shipment IN130187 arrived 9/8/2013 @ 22:02 Trailer V367 Packages 141 and 197.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Sunday, September 08, 2013 11:38 PM
To: DL Shipment Release Notification
Subject: IN130186

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

IN130186 Trl.363 TRUPACTS 187, 194 and 510 Arrived 09/8/13 @ 2325

This is a controlled shipment

Vent time for TRUPACTS 187 and 510 is 09/15/13 1200

TRUPACTS 187 contain PCB's

Mike Proctor
Facility Operations Crew C
NWP LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Monday, September 09, 2013 11:03 AM
To: DL Shipment Release Notification
Subject: Shipment IN130186 is released for PROCESSING

Shipment IN130186 arrived 9/8/2013 @ 23:28 Trailer C363 Packages 187, 194 and 510.
Surveys are complete. Packages are released for processing.

THIS SHIPMENT CONTAINS CONTROLLED WASTE IN PACKAGES 187 510 VENTING DEADLINE: 9/16/13 12:00

This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Proctor, Mike - NWP
Sent: Monday, September 09, 2013 11:35 PM
To: DL Shipment Release Notification
Subject: LA130132

The following CH shipment has arrived and requires Surveys and it is NOT released for processing:

LA130132 Trl. 366 TRUPACTS 179,150, and 148 Arrived 09/09/13 @ 2325

Mike Proctor
Facility Operations Crew C
NWP LLC
Contractor for the U.S. Department of Energy
Ext 234-8276
MS 451-13

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Tuesday, September 10, 2013 7:17 AM
To: DL Shipment Release Notification
Subject: Shipment LA130132 is released for PROCESSING

Shipment LA130132 arrived 9/9/2013 @ 23:25 Trailer V366 Packages 179, 150 and 148.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Tuesday, September 10, 2013 2:42 PM
To: DL Shipment Release Notification
Subject: Shipment SR313079 is released for PROCESSING

Shipment SR313079 arrived 7/10/2013 @ 13:35 Trailer V703 Package 003.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Tuesday, September 10, 2013 11:57 PM
To: DL Shipment Release Notification
Subject: IN130188

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	09/10/13
TIME	23:35
SHIPMENT	IN130188
TRAILER	328
PACKAGE #	173, 186, 501
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, September 11, 2013 8:09 AM
To: DL Shipment Release Notification
Subject: Shipment IN130188 is released for PROCESSING

Shipment IN130188 arrived 9/10/2013 @ 23:35 Trailer V328 Packages 173, 186 and 501.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Wednesday, September 11, 2013 12:57 AM
To: DL Shipment Release Notification
Subject: IN130189

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	09/11/13
TIME	00:50
SHIPMENT	IN130189
TRAILER	327
PACKAGE #	164, 133, 503
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, September 11, 2013 8:06 AM
To: DL Shipment Release Notification
Subject: Shipment IN130189 is released for PROCESSING

Shipment IN130189 arrived 9/11/2013 @ 00:50 Trailer C327 Packages 164, 133 and 503.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Wednesday, September 11, 2013 6:15 AM
To: DL Shipment Release Notification
Subject: LA130133

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	09/11/13
TIME	06:00
SHIPMENT	LA130133
TRAILER	356
PACKAGE #	156, 147, 129
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE HRCQ – TP 156	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, September 11, 2013 10:28 AM
To: DL Shipment Release Notification
Subject: Shipment LA130133 is released for PROCESSING

Shipment LA130133 arrived 9/11/2013 @ 06:00 Trailer C356 Packages 156, 147 and 129.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, September 11, 2013 12:58 PM
To: DL Shipment Release Notification
Subject: Shipment SR313080 arrived at WIPP. SURVEYS REQUIRED

Shipment SR313080 arrived 9/11/2013 @ 12:48 Trailer V702 Package 004 SURVEYS ARE REQUIRED.
Packages are NOT released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Wednesday, September 11, 2013 2:53 PM
To: DL Shipment Release Notification
Subject: Shipment SR313080 is released for PROCESSING

Shipment SR313080 arrived 9/11/2013 @ 12:48 Trailer V702 Package 004.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Thursday, September 12, 2013 12:06 AM
To: DL Shipment Release Notification
Subject: LA130134

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	09/11/13
TIME	23:55
SHIPMENT	LA130134
TRAILER	321
PACKAGE #	208, 182, 170
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, September 12, 2013 9:10 AM
To: DL Shipment Release Notification
Subject: Shipment LA130134 is released for PROCESSING

Shipment LA130134 arrived 9/11/2013 @ 23:55 Trailer V321 Packages 208, 182 and 170.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Bealler, Joseph - NWP
Sent: Thursday, September 12, 2013 12:46 AM
To: DL Shipment Release Notification
Subject: INR13052

RADCON ENGINEER NOTIFICATION

SHIPMENT HAS ARRIVED AND REQUIRES SURVEYS	
DATE	09/12/13
TIME	00:40
SHIPMENT	INR13052
TRAILER	RH-004
PACKAGE #	00-09
THIS SHIPMENT CONTAINS NO CONTROLLED WASTE	

THANKS

Joseph E. Bealler

NUCLEAR WASTE PARTNERSHIP, LLC
CONTRACTOR FOR THE U.S. DEPARTMENT OF ENERGY (DOE)
FACILITY OPERATIONS SHIFT ENGINEER (FOSE)
FACILITY SHIFT MANAGER (FSM)
FACILITY MANAGER DESIGNEE (FMD) OFF HOURS
TRANSPORTATION ENGINEER (TE)
INCIDENT COMMANDER – PER NATIONAL INFORMATION MANAGEMENT SYSTEM (NIMS)
RCRA EMERGENCY COORDINATOR (RCRA PERMIT POSITION)
COGNIZANT OPERATIONS MANAGER – FACILITY OPERATIONS
SUBJECT MATTER EXPERT (SME) – HIGH VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) – LOW VOLTAGE ELECTRICAL SYSTEM
SUBJECT MATTER EXPERT (SME) - FUEL STATION
SUBJECT MATTER EXPERT (SME) - SITE AIR SYSTEM
CENTRAL MONITORING ROOM OPERATOR (CMRO) QUALIFIED
TRANSCOM OPERATOR (TCO) QUALIFIED
SURFACE ROVING WATCH (RW) QUALIFIED
MAIL STOP 451-13
PHONE 8276

Nieman, Bob - NWP

From: Darrah, Kyle - NWP
Sent: Thursday, September 12, 2013 9:11 AM
To: DL Shipment Release Notification
Subject: Shipment INR13052 is released for PROCESSING

Shipment INR13052 arrived 9/12/2013 @ 00:40 Trailer RH004 Package 00-09.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Nieman, Bob - NWP

From: Long, Mark - NWP
Sent: Thursday, September 12, 2013 4:25 PM
To: DL Shipment Release Notification
Subject: SR313081 Shipment Needs Surveys

Shipment SR313081 arrived 09/12/2013 @ 1607, Trailer 701, Package 006.
Attention Rad Con Engineer. Surveys are required. Package is NOT released for processing.
This is your 08-NT3020 notification

Mark Long Sr.
Facility Shift Manager Crew A
Nuclear Waste Partnership LLC
Contractor for US Department of Energy
Ext. 8170

Nieman, Bob - NWP

From: Nieman, Bob - NWP
Sent: Friday, September 13, 2013 7:52 AM
To: DL Shipment Release Notification
Subject: Shipment SR313081 is released for PROCESSING

Shipment SR313081 arrived 9/12/2013 @ 16:07 Trailer V701 Package 006.
Surveys are complete. Packages are released for processing.
This is your 08-NT3020 notification

Bob Nieman
Transportation Specialist
Nuclear Waste Partnership, LLC
Contractor for the U.S. Department of Energy
(575) 234-8141

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

4. Documentation demonstrating that the storage capacities of the Parking Area Unit and Parking Area Surge Storage (from Table III.A.2) and WHB Units [CH Bay Storage Area, CH Bay Surge Storage Area, Derived Waste Storage Area, RH Bay, Cask Unloading Room, Hot Cell, Transfer Cell, and Facility Cask Loading Room] (from Table III A.1 [*sic*] 3.1.2) were not exceeded during the entire month of April 2013.

4.a <u>Documentation demonstrating that the storage capacities of the Parking Area Unit and Parking Area Surge Storage (from Table III.A.2 [*sic*] 3.1.2) were not exceeded during the entire month of April 2013. [2 pages]</u>

* **Parking Area Surge Storage Area was not used during the entire month of April 2013.**

4.b Documentation demonstrating that the storage capacities of the WHB Units [CH Bay Storage Area, CH Bay Surge Storage Area, Derived Waste Storage Area, RH Bay, Cask Unloading Room, Hot Cell, Transfer Cell, and Facility Cask Loading Room] (from Table III A.1 [*sic*] 3.1.2) were not exceeded during the entire month of April 2013.

Nuclear Waste Partnership LLC

A URS-led partnership with B&W and AREVA

OP:13:02062
UFC:2300.00

INTER-OFFICE CORRESPONDENCE

DATE: September 18, 2013

FROM: R. M. Britain LOCATION: Waste Operations

TO: S. L. Travis LOCATION: Site Environmental Compliance

SUBJECT: RESPONSE TO NMED REQUEST

In response to providing a documented answer to Question Number Four (below) for the NMED 2013 WIPP inspection- items: The storage capacities of the Parking Area Unit and Parking Area Surge Storage (from Table 3.1.2) and WHB Units [CH Bay Storage Area, CH Bay Surge Storage Area, Derived Waste Storage Area, RH Bay, Cask Unloading Room, Hot Cell, Transfer Cell, and Facility Cask Loading Room] (from Table 3.1.1) were not exceeded the entire month of April 2013.

4. Documentation demonstrating that the storage capacities of the Parking Area Unit and Parking Area Surge Storage (from Table 3.1.2) and WHB Units [CH Bay Storage Area, CH Bay Surge Storage Area, Derived Waste Storage Area, RH Bay, Cask Unloading Room, Hot Cell, Transfer Cell, and Facility Cask Loading Room] (from Table 3.1 1) were not exceeded during the entire month of April 2013.

If you need further information, please contact me at Extension 8738.

SLT:cm

cc: T. A. Batchelder ED
R. M. Britain ED
S. B. Jones ED

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

4. Documentation demonstrating that the storage capacities of the Parking Area Unit and Parking Area Surge Storage (from Table III.A.2) and WHB Units [CH Bay Storage Area, CH Bay Surge Storage Area, Derived Waste Storage Area, RH Bay, Cask Unloading Room, Hot Cell, Transfer Cell, and Facility Cask Loading Room] (from Table III A.1 [*sic*] 3.1.2) were not exceeded during the entire month of April 2013.

   4.a Documentation demonstrating that the storage capacities of the Parking Area Unit and Parking Area Surge Storage (from Table III.A.2 [*sic*] 3.1.2) were not exceeded during the entire month of April 2013.

   4.b <u>Documentation demonstrating that the storage capacities of the WHB Units [CH Bay Storage Area, CH Bay Surge Storage Area, Derived Waste Storage Area, RH Bay, Cask Unloading Room, Hot Cell, Transfer Cell, and Facility Cask Loading Room] (from Table III A.1 [*sic*] 3.1.1) were not exceeded during the entire month of April 2013. [36 pages]</u>

   * **Neither the CH Bay Surge Storage Area or Derived Waste Storage Area were used during the entire month of April 2013.**

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
	DATE	3/25/13	3/26/13	3/27/13	3/28/13	3-30-13	3-31-13	4-1-13
	TIME	0625	0630	0655	0645	0630	0630	0630
East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
Facility Pallets	✓/U*	✓	✓	✓	✓	✓	✓	✓
East TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
CH Bay Container Storage Area	✓/U*	✓	✓	✓	✓	✓	✓	✓
Shielded Room Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CH-Derived Waste Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conveyance Loading Room (if applicable)	✓/U*	N/A	✓	✓	✓	✓	✓	✓
INSPECTOR INITIALS	xxxxx	SA	TC	JAF	[illegible]	RT	ASB	DL
REVIEWER INITIALS	xxxxx	JAF	AC	[illegible]	RCF	ASB	RT	JR

* ✓ = Satisfactory U = Unsatisfactory N/A = Not Applicable

TRUDOCK/Facility Pallet Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust
- Loose or deformed decking
- Missing hardware such as nuts and bolts

Storage Area Checks:

- Floor coating in good condition - at least one layer intact, and no bubbles in coating
- Concrete floor in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- 44 - inch minimum aisle space between facility pallets loaded with CH waste
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/Internal Communications - proper working order
- Waste containers elevated ≥ 6 inches above floor
- Polychlorinated biphenyl (PCB) warning signs posted on all entrances into CH Bay and radiological areas
- Storage capacities consistent with those identified in Precautions and Limitations

Conveyance Loading Room Checks:

- Area free of debris and refuse
- Warning signs posted in area
- PCB warning signs posted on all entrances into Conveyance Loading Room
- Telephone/Internal Communications - proper working order

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

Inspector Name (print)	Signature	Initials
S. Rascon		SR
J Hitchcock		JH
F Carrasco		FC
A Chavez		AC
S Boras		SB
R. Fuentes		RF
R Tavarez		RT
A. Baller		ASB
D Lopez		DL
J. Ramsey		JR

REMARKS: N/A

VALIDATION: R Sinnett (WHE Name (print)) Signature 4/2/13 Date

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
	DATE	4-2-13	4/3/13	4-4-13	4-5-13	4-6-13	4-7-13	4/8/13
	TIME	0630	0641	0636	0630	0644	0630	0630
East TRUDOCK	✓/U*	✓	—	✓	✓	—	✓	✓
No Combustible Materials Stored Underneath the East TRUDOCK	✓/U*	✓	—	✓	✓	—	✓	✓
West TRUDOCK	✓/U*	✓	—	✓	✓	—	✓	✓
No Combustible Materials Stored Underneath the West TRUDOCK	✓/U*	✓	—	✓	✓	—	✓	✓
Facility Pallets	✓/U*	✓	—	✓	✓	—	✓	✓
East TRUDOCK Storage Areas	✓/U*	✓	—	✓	✓	—	✓	✓
West TRUDOCK Storage Areas	✓/U*	✓	—	✓	✓	—	✓	✓
CH Bay Container Storage Area	✓/U*	✓	—	✓	✓	—	✓	✓
Shielded Room Storage Area	✓/U*	✓	—	✓	✓	—	N/A	N/A
CH-Derived Waste Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conveyance Loading Room (if applicable)	✓/U*	✓	✓	✓	✓	✓	N/A	N/A
INSPECTOR INITIALS	xxxxx	T.L.	[illegible]	G.B	RCF	[illegible]	T.L.	SA
REVIEWER INITIALS	xxxxx	[illegible]	TDB	RKS	[illegible]	[illegible]	ICB	DJ

* ✓ = Satisfactory U = Unsatisfactory N/A = Not Applicable

TRUDOCK/Facility Pallet Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust
- Loose or deformed decking
- Missing hardware such as nuts and bolts

Storage Area Checks:

- Floor coating in good condition - at least one layer intact, and no bubbles in coating
- Concrete floor in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- 44 - inch minimum aisle space between facility pallets loaded with CH waste
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/Internal Communications - proper working order
- Waste containers elevated ≥ 6 inches above floor
- Polychlorinated biphenyl (PCB) warning signs posted on all entrances into CH Bay and radiological areas
- Storage capacities consistent with those identified in Precautions and Limitations

Conveyance Loading Room Checks:

- Area free of debris and refuse
- Warning signs posted in area
- PCB warning signs posted on all entrances into Conveyance Loading Room
- Telephone/Internal Communications - proper working order

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

Inspector Name (print)	Signature	Initials
Dora Lopez		DL
TODD LORD		T.L
E. Morgan		
L. Gray		LG
A. Baller		AB
R. Ehol		RKS
R. FUENTES		RCF
Stamos		S
JUSTIN BAILEY		JB
K BENNETT		KB
S. Rascon		SR
J. Birchell		JB

REMARKS: N/A

VALIDATION: K Bennett (WHE Name (print)) Signature 4/9/13 Date

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
	DATE	4/9/13	4-10-13	4-11-13	4-12-13	4-13-13	4-14-13	4-15-13
	TIME	0628	0740	0635	0655	0630	0645	0635
East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
Facility Pallets	✓/U*	✓	✓	✓	✓	✓	✓	✓
East TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
CH Bay Container Storage Area	✓/U*	✓	✓	✓	✓	✓	✓	✓
Shielded Room Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CH-Derived Waste Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conveyance Loading Room (if applicable)	✓/U*	✓	✓	✓	N/A	✓	✓	✓
INSPECTOR INITIALS	xxxxx	TC	[illegible]	RT	[illegible]	ASB	[illegible]	[illegible]
REVIEWER INITIALS	xxxxx	[illegible]	RT	PC	[illegible]	RT	PC	TC

* ✓ = Satisfactory **U** = Unsatisfactory **N/A** = Not Applicable

TRUDOCK/Facility Pallet Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust
- Loose or deformed decking
- Missing hardware such as nuts and bolts

Storage Area Checks:

- Floor coating in good condition - at least one layer intact, and no bubbles in coating
- Concrete floor in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- 44 - inch minimum aisle space between facility pallets loaded with CH waste
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/Internal Communications - proper working order
- Waste containers elevated ≥ 6 inches above floor
- Polychlorinated biphenyl (PCB) warning signs posted on all entrances into CH Bay and radiological areas
- Storage capacities consistent with those identified in Precautions and Limitations

Conveyance Loading Room Checks:

- Area free of debris and refuse
- Warning signs posted in area
- PCB warning signs posted on all entrances into Conveyance Loading Room
- Telephone/Internal Communications - proper working order

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

Inspector Name (print)	Signature	Initials
P. Carrasco	Philip Carrasco	PC
J. Bischell	[illegible]	JB
R. Tanner	[illegible]	RT
P. Carrasco	Philip Carrasco	PC
A. Baker	[illegible]	AB
Justin Bailey	[illegible]	JB
M. Greenfell	[illegible]	MG
E. Marquez	[illegible]	EM
F Carrasco	FC	FC

REMARKS: N/A

VALIDATION: K Bennett [illegible] 4/15/13

WHE Name (print)	Signature	Date

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
	DATE	4-16-13	4/17/13	4-18-13	4-19-13	4-20-13	4-21-13	4-22-13
	TIME	0634	0640	0648	0650	0628	0633	0625
East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
Facility Pallets	✓/U*	✓	✓	✓	✓	✓	✓	✓
East TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
CH Bay Container Storage Area	✓/U*	✓	✓	✓	✓	✓	✓	✓
Shielded Room Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CH-Derived Waste Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conveyance Loading Room (if applicable)	✓/U*	✓	✓	✓	✓	✓	✓	✓
INSPECTOR INITIALS	xxxxx	EMT	CJ	EMT	BG	EMT	DH	EMT
REVIEWER INITIALS	xxxxx	CB	CG	[illegible]	[illegible]	TC	[illegible]	CB

* ✓ = Satisfactory **U** = Unsatisfactory **N/A** = Not Applicable

TRUDOCK/Facility Pallet Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust
- Loose or deformed decking
- Missing hardware such as nuts and bolts

Storage Area Checks:

- Floor coating in good condition - at least one layer intact, and no bubbles in coating
- Concrete floor in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- 44 - inch minimum aisle space between facility pallets loaded with CH waste
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/Internal Communications - proper working order
- Waste containers elevated ≥ 6 inches above floor
- Polychlorinated biphenyl (PCB) warning signs posted on all entrances into CH Bay and radiological areas
- Storage capacities consistent with those identified in Precautions and Limitations

Conveyance Loading Room Checks:

- Area free of debris and refuse
- Warning signs posted in area
- PCB warning signs posted on all entrances into Conveyance Loading Room
- Telephone/Internal Communications - proper working order

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

Inspector Name (print)	Signature	Initials
E. Marquez J.		EMJ
K Bennett		KB
L. Gray		LG
David J. Brown		
B Gray		BG
S Porras		S
F Carrasco		FC
D. Lopez		DL
R Valenzuela		RV

REMARKS:

VALIDATION: K Bennett (WHE Name (print)) (Signature) 6/4/13 (Date)

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
	DATE	4-23-13	4-24-13	4-25-13	4-26-13	4-27-13	4-28-13	4-28-13
	TIME	0628	0630	0625	0630	0640	0630	0630
East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
Facility Pallets	✓/U*	✓	✓	✓	✓	✓	✓	✓
East TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
CH Bay Container Storage Area	✓/U*	✓	✓	✓	✓	✓	✓	✓
Shielded Room Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CH-Derived Waste Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conveyance Loading Room (if applicable)	✓/U*	✓	N/A	✓	✓	✓	✓	✓
INSPECTOR INITIALS	xxxxx	EMJ	[illegible]	ASD	[illegible]	ASD	ASD	RCF
REVIEWER INITIALS	xxxxx	JC	[illegible]	[illegible]	MG	[illegible]	KN	KN

* ✓ = Satisfactory U = Unsatisfactory N/A = Not Applicable

TRUDOCK/Facility Pallet Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust
- Loose or deformed decking
- Missing hardware such as nuts and bolts

Storage Area Checks:

- Floor coating in good condition - at least one layer intact, and no bubbles in coating
- Concrete floor in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- 44 - inch minimum aisle space between facility pallets loaded with CH waste
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/Internal Communications - proper working order
- Waste containers elevated ≥ 6 inches above floor
- Polychlorinated biphenyl (PCB) warning signs posted on all entrances into CH Bay and radiological areas
- Storage capacities consistent with those identified in Precautions and Limitations

Conveyance Loading Room Checks:

- Area free of debris and refuse
- Warning signs posted in area
- PCB warning signs posted on all entrances into Conveyance Loading Room
- Telephone/Internal Communications - proper working order

COPY

R Brennan RB RB

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

Inspector Name (print)	Signature	Initials
E. Marquez		EM
M. Crespell		MC
A. Ballew		ASB
Kirk Nance		KN
R. Fuentes		RCF
R. Tavarez		RT
T. DiCamillo		TDD
F Carrasco		FC
M Gerrez		MG

REMARKS: N/A

VALIDATION: Kirk Nance (WHE Name (print)) (Signature) 5-11-13 (Date)

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
	DATE	4-29-13	4-30-13	5-1-13	5-1-13	5-2-13	5-3-13	5-4-13
	TIME	0650	0640	0635	1600	0635	0625	0640
East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the East TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
No Combustible Materials Stored Underneath the West TRUDOCK	✓/U*	✓	✓	✓	✓	✓	✓	✓
Facility Pallets	✓/U*	✓	✓	✓	✓	✓	✓	✓
East TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
West TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓	✓	✓
CH Bay Container Storage Area	✓/U*	✓	✓	✓	✓	✓	✓	✓
Shielded Room Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CH-Derived Waste Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Conveyance Loading Room (if applicable)	✓/U*	N/A	N/A	✓	N/A	✓	✓	✓
INSPECTOR INITIALS	xxxxx	FC	T.L	[illegible]	[illegible]	[illegible]	ASB	FC
REVIEWER INITIALS	xxxxx	[illegible]	KB	FC	[illegible]	[illegible]	[illegible]	DD

* ✓ = Satisfactory U = Unsatisfactory N/A = Not Applicable

TRUDOCK/Facility Pallet Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust
- Loose or deformed decking
- Missing hardware such as nuts and bolts

Storage Area Checks:

- Floor coating in good condition - at least one layer intact, and no bubbles in coating
- Concrete floor in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- 44 - inch minimum aisle space between facility pallets loaded with CH waste
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/Internal Communications - proper working order
- Waste containers elevated ≥ 6 inches above floor
- Polychlorinated biphenyl (PCB) warning signs posted on all entrances into CH Bay and radiological areas
- Storage capacities consistent with those identified in Precautions and Limitations

Conveyance Loading Room Checks:

- Area free of debris and refuse
- Warning signs posted in area
- PCB warning signs posted on all entrances into Conveyance Loading Room
- Telephone/Internal Communications - proper working order

COPY

Attachment 1 – Surface CH TRU Mixed Waste Handling Area Preoperational Inspection

Inspector Name (print)	Signature	Initials
D. Lopez		D.L.
F Carrasco		FC
[illegible]		[illegible]
T. LORD	Todd Lord	T.L.
K Bennett		KB
E. Marquez		EM
J Hitchcock		JH
J D. Camillo		JDC
A. Baller		ASB

REMARKS: N A

VALIDATION: Kirk Nance | | 5-10-13

WHE Name (print) | Signature | Date

COPY

COPY

Attachment 2 – Trailer Parking Area and CH Container Storage Area Weekly Inspection

TRAILER PARKING/CONTAINER STORAGE AREA WEEKLY INSPECTIONS						
	DATE	3-27-13	4/3/13	4-10-13	4-17-13	4-24-13
	TIME	1450	0643	0750	1030	0645
Trailer Parking Area	✓/U*	✓	✓	✓	✓	✓
East TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓
West TRUDOCK Storage Areas	✓/U*	✓	✓	✓	✓	✓
CH Bay Container Storage Area	✓/U*	✓	✓	✓	✓	✓
CH-Derived Waste Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A
Shielded Room Storage Area	✓/U*	N/A	N/A	N/A	N/A	N/A
Room 108	✓/U*	✓	✓	✓	✓	✓
INSPECTOR INITIALS	xxxxx	ICN	[illegible]	[illegible]	RT	[illegible]
REVIEWER INITIALS	xxxxx	[illegible]	ASB	MG	ASB	BG

* ✓ = Satisfactory U = Unsatisfactory N/A = Not Applicable

Trailer Parking Area Checks:

- Warning signs posted in area
- PCB warning signs posted on Controlled Area surrounding building 411 and 412
- Asphalt/concrete parking areas free from cracks/gaps that could create hazard to forklift operation
- Minimum 4-foot aisle space between trailers with CH Packages/Road Cask(s) loaded with CH/RH waste
- CH Packages and Road Cask(s) in good condition/no visible deterioration
- No evidence of spills or leaks from CH packages or Road Cask(s)

Storage Area Checks:

- Floor coating in good condition - at least one layer intact, and no bubbles in coating
- Concrete floor in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- 44 - inch minimum aisle space between facility pallets loaded with CH waste
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- PCB warning signs posted on all entrances to CH Bay Room 108 and radiological areas
- Telephone/Internal Communications - proper working order
- Verify first date, on WP 05-WH1011 attachment 1 and WP 05-WH1201 attachment 1, for all payloads does not exceed 60 calendar days
- Waste containers elevated ≥ 6 inches above floor
- Storage capacities consistent with those identified in Precautions and Limitations

Kile Nance	[signature]	ICN
Doyle J. Jean	[signature]	[illegible]
L. Gay	[signature]	[illegible]
A. Bellen	[signature]	ASB
M. Crendfell	[signature]	[illegible]
Max Wen	[signature]	MG
R Tavarez	[signature]	RT
B Gomez	[signature]	BG

COPY

Attachment 2 – Trailer Parking Area and CH Container Storage Area Weekly Inspection

Inspector Name (print) **Signature** **Initials**

REMARKS:

N A

VALIDATION: K. Kirkland K. Kirkland 5-10-13

WHE Name (print) **Signature** **Date**

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4-1-13	4/2/13	04-03-13	04-04-13	04-05-13	04-05-13	
	TIME	0635	0635	0635	0640	0650	0855	
RH Bay	✓/U	✓	✓	✓	✓	✓	✓	
Cask Unloading Room	✓/U	✓	✓	✓	✓	✓	✓	
*Transfer Cell	✓/U	✓	✓	✓	✓	✓	✓	
*Hot Cell	✓/U	✓	✓	✓	✓	✓	✓	
Facility Cask Loading Room	✓/U	✓	✓	✓	✓	✓	✓	
Prep Station	✓/U	✓	✓	✓	✓	✓	✓	
RH - Site-Derived Waste Storage Area	✓/U	N/A	N/A	N/A	N/A	N/A	N/A	
**Crane Maintenance Room	✓/U	N/A	N/A	N/A	N/A	N/A	N/A	
Performer Initials	*******	KJD	CB	PW	PW	PLW	PW	
WHE Initials	******	DDC	DR	DR	DR	DR	DDC	

*Transfer Cell and Hot Cell inspections will be performed using cameras.

**Crane Maintenance Room will be inspected prior to locking Airlock Door 402. This area is locked and will not be inspected therefore this area will be marked not applicable (N/A). Subsequently area inspections will not be required unless entry into the Crane Maintenance Room has been approved. Hot cell and transfer cell penetrations will be maintained in compliance with DOE/WIPP-06-3178, Subsection 5.6.4.j, through the work control process.

Prep Station Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust, loose or deformed decking
- Missing hardware such as nuts and bolts
- Area free of debris and refuse

Storage Area Checks:

- Concrete floor in good condition free of cracks and gaps
- Epoxy floor coating in good condition - at least one layer intact, and no bubbles in coating
- No evidence of spills or leaks from waste containers
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/internal communications - proper working order
- Unobstructed access with 44-inch minimum aisle clearance between loaded casks
- Cameras in proper working order
- Facility Cask Loading Room Door 144 posted
- No flammable gas or flammable compressed gas cylinders stored in the RH portion of the WHB
- No transient combustible materials stored
- No more than four non-flammable compressed gas cylinders stored in RH Bay when there is waste in the CH Bay north east corner
- No more than two nonflammable compressed gas cylinders in the Hot Cell Operating Gallery
- No non-flammable compressed gas cylinders stored in the Hot Cell Complex, Crane Maintenance Room, and FCLR
- All Ladders to Hot Cell Catwalk posted
- Site-Derived waste containers elevated > 6 inches above floor
- Polychlorinated Biphenyls (PCB) warning signs posted on all entrances into RH Bay and Radiological areas

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

Performer Name (Print)	Signature	Initials	Date
KM Vanamee	[illegible]	KMV	4-1-13
Gary D Chism	[illegible]	GDC	4-1-13
C Bowden	[illegible]	CB	4-2-13
P. Navarrete	[illegible]	PN	04-03-13
David Rich	[illegible]	DR	4/9/13

REMARKS: N/A

VALIDATION: Gary D Chism [illegible] GSC, 4/10/13

WHE (Print Name) | Signature | Initials | Date

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	04-09-13	4/10/13	4/11/13	4-11-13	4-12-13		
	TIME	0635	0635	0640	1110	0640		
RH Bay	✓/U	✓	✓	✓	✓	✓		
Cask Unloading Room	✓/U	✓	✓	✓	✓	✓		
*Transfer Cell	✓/U	✓	✓	✓	✓	✓		
*Hot Cell	✓/U	✓	✓	✓	✓	✓	N/A	
Facility Cask Loading Room	✓/U	✓	✓	✓	✓	✓		
Prep Station	✓/U	✓	✓	✓	✓	✓		
RH - Site-Derived Waste Storage Area	✓/U	N/A	N/A	N/A	N/A	N/A		
**Crane Maintenance Room	✓/U	N/A	N/A	N/A	N/A	N/A		
Performer Initials	*******	PW	CS	KW	KW	KW		
WHE Initials	******	DR	DR	JDC	JDC	JDC		

*Transfer Cell and Hot Cell inspections will be performed using cameras.

**Crane Maintenance Room will be inspected prior to locking Airlock Door 402. This area is locked and will not be inspected therefore this area will be marked not applicable (N/A). Subsequently area inspections will not be required unless entry into the Crane Maintenance Room has been approved. Hot cell and transfer cell penetrations will be maintained in compliance with DOE/WIPP-06-3178, Subsection 5.6.4.j, through the work control process.

Prep Station Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust, loose or deformed decking
- Missing hardware such as nuts and bolts
- Area free of debris and refuse

Storage Area Checks:

- Concrete floor in good condition free of cracks and gaps
- Epoxy floor coating in good condition - at least one layer intact, and no bubbles in coating
- No evidence of spills or leaks from waste containers
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/internal communications - proper working order
- Unobstructed access with 44-inch minimum aisle clearance between loaded casks
- Cameras in proper working order
- Facility Cask Loading Room Door 144 posted
- No flammable gas or flammable compressed gas cylinders stored in the RH portion of the WHB
- No transient combustible materials stored
- No more than four non-flammable compressed gas cylinders stored in RH Bay when there is waste in the CH Bay north east corner
- No more than two nonflammable compressed gas cylinders in the Hot Cell Operating Gallery
- No non-flammable compressed gas cylinders stored in the Hot Cell Complex, Crane Maintenance Room, and FCLR
- All Ladders to Hot Cell Catwalk posted
- Site-Derived waste containers elevated > 6 inches above floor
- Polychlorinated Biphenyls (PCB) warning signs posted on all entrances into RH Bay and Radiological areas

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

Performer Name (Print)	Signature	Initials	Date
PETE NAVARRETE	[signature]	PN	04-09-13
D Bish	[signature]	DB	4/9/13
C Bowden	[signature]	CB	4/10/13
RM TANNER	[signature]	RMT	4-11-13
Gary D Chism	[signature]	GDC	4/11/13

REMARKS: NA

VALIDATION: Gary D Chism, [signature], GDC, 4/12/13

WHE (Print Name)	Signature	Initials	Date

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4/16/13	4/17/13	4-18-13	4/19/13	4-19-13		
	TIME	0645	0630	0645	0652	1145		
RH Bay	✓/U	✓	✓	✓	✓	✓		
Cask Unloading Room	✓/U	✓	✓	✓	✓	✓		
*Transfer Cell	✓/U	✓	✓	✓	✓	✓		
*Hot Cell	✓/U	✓	✓	✓	✓	✓		
Facility Cask Loading Room	✓/U	✓	✓	✓	✓	✓		
Prep Station	✓/U	✓	✓	✓	✓	✓		
RH - Site-Derived Waste Storage Area	✓/U	N/A	N/A	N/A	N/A	N/A		
**Crane Maintenance Room	✓/U	N/A	N/A	N/A	N/A	N/A		
Performer Initials	*******	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
WHE Initials	******	MDC	MDC	[illegible]	[illegible]	MDC		

*Transfer Cell and Hot Cell inspections will be performed using cameras.

**Crane Maintenance Room will be inspected prior to locking Airlock Door 402. This area is locked and will not be inspected therefore this area will be marked not applicable (N/A). Subsequently area inspections will not be required unless entry into the Crane Maintenance Room has been approved. Hot cell and transfer cell penetrations will be maintained in compliance with DOE/WIPP-06-3178, Subsection 5.6.4.j, through the work control process.

Prep Station Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust, loose or deformed decking
- Missing hardware such as nuts and bolts
- Area free of debris and refuse

Storage Area Checks:

- Concrete floor in good condition free of cracks and gaps
- Epoxy floor coating in good condition - at least one layer intact, and no bubbles in coating
- No evidence of spills or leaks from waste containers
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/internal communications - proper working order
- Unobstructed access with 44-inch minimum aisle clearance between loaded casks
- Cameras in proper working order
- Facility Cask Loading Room Door 144 posted
- No flammable gas or flammable compressed gas cylinders stored in the RH portion of the WHB
- No transient combustible materials stored
- No more than four non-flammable compressed gas cylinders stored in RH Bay when there is waste in the CH Bay north east corner
- No more than two nonflammable compressed gas cylinders in the Hot Cell Operating Gallery
- No non-flammable compressed gas cylinders stored in the Hot Cell Complex, Crane Maintenance Room, and FCLR
- All Ladders to Hot Cell Catwalk posted
- Site-Derived waste containers elevated > 6 inches above floor
- Polychlorinated Biphenyls (PCB) warning signs posted on all entrances into RH Bay and Radiological areas

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

Performer Name (Print)	Signature	Initials	Date
Kurt Hammer	[signature]	KH	4-16-13
David Rich	[signature]	DR	4/16/13
Gary D Chism	[signature]	GDC	4/16/13
G Walton	[signature]	GW	4/17/13
M. Frazier	[signature]	MF	4-18-13

REMARKS: N/A

VALIDATION: Gary D Chism / [signature] / GDC / 4/21/13

WHE (Print Name) Signature Initials Date

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4-21-13	4-23-13	4/24/13	4/25/13	4-26-13	4-26-13	
	TIME	0640	0630	0640	0638	0640	1215	
RH Bay	✓/U	✓	✓	✓	✓	✓	✓	
Cask Unloading Room	✓/U	✓	✓	✓	✓	✓	✓	
*Transfer Cell	✓/U	✓	✓	✓	✓	✓	✓	
*Hot Cell	✓/U	✓	✓	✓	✓	✓	✓	
Facility Cask Loading Room	✓/U	✓	✓	✓	✓	✓	✓	
Prep Station	✓/U	✓	✓	✓	✓	✓	✓	
RH - Site-Derived Waste Storage Area	✓/U	N/A	N/A	N/A	N/A	N/A	N/A	
**Crane Maintenance Room	✓/U	N/A	N/A	N/A	N/A	N/A	N/A	
Performer Initials	*******	[illegible]	mB	[illegible]	AA.	[illegible]	A.A.	
WHE Initials	******	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

*Transfer Cell and Hot Cell inspections will be performed using cameras.

**Crane Maintenance Room will be inspected prior to locking Airlock Door 402. This area is locked and will not be inspected therefore this area will be marked not applicable (N/A). Subsequently area inspections will not be required unless entry into the Crane Maintenance Room has been approved. Hot cell and transfer cell penetrations will be maintained in compliance with DOE/WIPP-06-3178, Subsection 5.6.4.j, through the work control process.

Prep Station Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust, loose or deformed decking
- Missing hardware such as nuts and bolts
- Area free of debris and refuse

Storage Area Checks:

- Concrete floor in good condition free of cracks and gaps
- Epoxy floor coating in good condition - at least one layer intact, and no bubbles in coating
- No evidence of spills or leaks from waste containers
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/internal communications - proper working order
- Unobstructed access with 44-inch minimum aisle clearance between loaded casks
- Cameras in proper working order
- Facility Cask Loading Room Door 144 posted
- No flammable gas or flammable compressed gas cylinders stored in the RH portion of the WHB
- No transient combustible materials stored
- No more than four non-flammable compressed gas cylinders stored in RH Bay when there is waste in the CH Bay north east corner
- No more than two nonflammable compressed gas cylinders in the Hot Cell Operating Gallery
- No non-flammable compressed gas cylinders stored in the Hot Cell Complex, Crane Maintenance Room, and FCLR
- All Ladders to Hot Cell Catwalk posted
- Site-Derived waste containers elevated > 6 inches above floor
- Polychlorinated Biphenyls (PCB) warning signs posted on all entrances into RH Bay and Radiological areas

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

Performer Name (Print)	Signature	Initials	Date
M. Ingram			4-21-13
Gary D Chin			4-21-13
M. BUENDIA	Mike Buendia	MB	4-23-13
			4/23/13
			4/24/13
A ALANDA		AA	4-25-13
KM TANNER		KMT	4-26-13

REMARKS: N/A

VALIDATION: Gary D Chin / Gary D Chin / GDC / 4/30/13
WHE (Print Name) / Signature / Initials / Date

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

AREA/EQUIPMENT PREOPERATIONAL INSPECTIONS								
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4-30-13	5-1-13	5-2-13	5-3-13	5-3-13		
	TIME	0640	0635	0634	0645	0635		
RH Bay	✓/U	✓	✓	✓	✓	✓		
Cask Unloading Room	✓/U	✓	✓	✓	✓	✓		
*Transfer Cell	✓/U	✓	✓	✓	✓	✓		
*Hot Cell	✓/U	✓	✓	✓	✓	✓		
Facility Cask Loading Room	✓/U	✓	✓	✓	✓	✓		
Prep Station	✓/U	✓	✓	✓	✓	✓		
RH - Site-Derived Waste Storage Area	✓/U	N/A	N/A	N/A	N/A	N/A		
**Crane Maintenance Room	✓/U	N/A	N/A	N/A	N/A	N/A		
Performer Initials	*******	[illegible]	[illegible]	AA.	A.A	CB		
WHE Initials	******	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

*Transfer Cell and Hot Cell inspections will be performed using cameras.

**Crane Maintenance Room will be inspected prior to locking Airlock Door 402. This area is locked and will not be inspected therefore this area will be marked not applicable (N/A). Subsequently area inspections will not be required unless entry into the Crane Maintenance Room has been approved. Hot cell and transfer cell penetrations will be maintained in compliance with DOE/WIPP-06-3178, Subsection 5.6.4.j, through the work control process.

Prep Station Checks:

- Structural fatigue, deformation, wear (obvious cracks, bends or breaks), rust, loose or deformed decking
- Missing hardware such as nuts and bolts
- Area free of debris and refuse

Storage Area Checks:

- Concrete floor in good condition free of cracks and gaps
- Epoxy floor coating in good condition - at least one layer intact, and no bubbles in coating
- No evidence of spills or leaks from waste containers
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/internal communications - proper working order
- Unobstructed access with 44-inch minimum aisle clearance between loaded casks
- Cameras in proper working order
- Facility Cask Loading Room Door 144 posted
- No flammable gas or flammable compressed gas cylinders stored in the RH portion of the WHB
- No transient combustible materials stored
- No more than four non-flammable compressed gas cylinders stored in RH Bay when there is waste in the CH Bay north east corner
- No more than two nonflammable compressed gas cylinders in the Hot Cell Operating Gallery
- No non-flammable compressed gas cylinders stored in the Hot Cell Complex, Crane Maintenance Room, and FCLR
- All Ladders to Hot Cell Catwalk posted
- Site-Derived waste containers elevated > 6 inches above floor
- Polychlorinated Biphenyls (PCB) warning signs posted on all entrances into RH Bay and Radiological areas

COPY

Attachment 1 - Surface RH TRU Mixed Waste Handling Area Preoperational Inspection

Performer Name (Print)	Signature	Initials	Date
M. Ingram			4-30-13
Gary D Chism		DSC	4-30-13
		DR	5/1/13
A Alaniz	A Alaniz	AA	5-2-13
C Boulton		CB	5-3-13

REMARKS:

VALIDATION: David Rip / / DR / 5/6/13

WHE (Print Name) Signature Initials Date

COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

TRAILER PARKING/CONTAINER STORAGE AREA/EQUIPMENT WEEKLY INSPECTIONS						
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4/5/13				
	TIME	0645				
Trailer Parking Area	√/U	✓				
RH Bay	√/U	✓				
Cask Unloading Room	√/U	✓				
*Transfer Cell	√/U	✓		N/A		
*Hot Cell	√/U	✓				
Facility Cask Loading Room	√/U	✓				
Performer Initials	**********	CB				
WHE Initials	**********	DK				

*Transfer Cell and Hot Cell inspections will be performed using cameras.

Trailer Parking Area Checks:

- Verify by WWIS the seal date at generator site does not exceed 60-day NRC vent period, or 59-day NMED limit
- Warning signs posted in area
- Asphalt/concrete parking areas free from cracks/gaps that could create hazard to forklift operation
- Unobstructed access with Minimum 4-ft aisle space between loaded trailer(s)
- Road cask(s) in good condition/no visible deterioration
- No evidence of spills or leaks from or road casks
- Surge Storage Area: 4 - RH Packages Maximum
- Parking Areas Storage: 8 - RH Packages

Storage Area Checks:

- Epoxy floor coating in good condition - free of cracks and gaps
- No evidence of spills or leaks from waste containers
- Containers in good condition/no visible deterioration
- Area free of debris and refuse
- Warning signs posted in area
- Telephone/internal communications
- Unobstructed access with 44-inch minimum aisle clearance between loaded casks
- Cameras in proper working order
- Facility Cask Loading Room Door 144 posted
- No flammable gas or flammable compressed gas cylinders stored in the RH portion of the WHB
- No transient combustible materials stored
- No more than four nonflammable compressed gas cylinders stored in RH Bay when there is waste in the CH Bay north east corner
- No more than two nonflammable compressed gas cylinders in the Hot Cell Operating Gallery
- No non-flammable compressed gas cylinders stored in the Hot Cell Complex, Crane Maintenance Room, and FCLR
- All ladders to Hot Cell Catwalk posted
- Verify first date on WP 05-WH1710, Attachment 1, does not exceed 60 calendar days.
- Verify first date on WP 05-WH1722, Attachment 2, does not exceed 25 calendar days.

COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

Performer Name (Print)	Signature	Initials	Date
C Bowden	[signature]	CB	4/5/13
David Rich	[signature]	DR	4/5/13

REMARKS:

VALIDATION: David Rich / [signature] / DR / 4/5/13

WHE (Print Name) / Signature / Initials / Date

COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

TRAILER PARKING/CONTAINER STORAGE AREA/EQUIPMENT WEEKLY INSPECTIONS						
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4-12-13				
	TIME	0640				
Trailer Parking Area	√/U	✓				
RH Bay	√/U	✓				
Cask Unloading Room	√/U	✓				
*Transfer Cell	√/U	✓				
*Hot Cell	√/U	✓				
Facility Cask Loading Room	√/U	✓				
Performer Initials	**********	KWD				
WHE Initials	**********	BDC				

*Transfer Cell and Hot Cell inspections will be performed using cameras.

Trailer Parking Area Checks:

- Verify by WWIS the seal date at generator site does not exceed 60-day NRC vent period, or 59-day NMED limit
- Warning signs posted in area
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- All ladders to Hot Cell Catwalk posted
- Verify first date on WP 05-WH1710, Attachment 1, does not exceed 60 calendar days.
- Verify first date on WP 05-WH1722, Attachment 2, does not exceed 25 calendar days.

COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

Performer Name (Print)	Signature	Initials	Date
KIM HANNAFER	[illegible]	KH	4-12-13
Gary D Chism	[illegible]	GDC	4/12/13

REMARKS: N/A

VALIDATION: Gary D Chism (WHE (Print Name)), [illegible] (Signature), GDC (Initials), 4/12/13 (Date)

COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

TRAILER PARKING/CONTAINER STORAGE AREA/EQUIPMENT WEEKLY INSPECTIONS						
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4/19/13				
	TIME	0650				
Trailer Parking Area	√/U	✓				
RH Bay	√/U	✓				
Cask Unloading Room	√/U	✓				
*Transfer Cell	√/U	✓				
*Hot Cell	√/U	✓				
Facility Cask Loading Room	√/U	✓				
Performer Initials	**********	[illegible]				
WHE Initials	**********	[illegible]				

*Transfer Cell and Hot Cell inspections will be performed using cameras.

Trailer Parking Area Checks:

- Verify by WWIS the seal date at generator site does not exceed 60-day NRC vent period, or 59-day NMED limit
- Warning signs posted in area
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COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

Performer Name (Print)	Signature	Initials	Date
G Walton			4/19/13
David Rich		DR	4/19/13

REMARKS: N/A

VALIDATION: David Rich / [signature] / DR / 4/19/13

WHE (Print Name) / Signature / Initials / Date

COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

TRAILER PARKING/CONTAINER STORAGE AREA/EQUIPMENT WEEKLY INSPECTIONS						
✓ = Satisfactory U = Unsatisfactory N/A = Not Inspected	DATE	4-26-13				
	TIME	0610				
Trailer Parking Area	√/U	✓				
RH Bay	√/U	✓				
Cask Unloading Room	√/U	✓				
*Transfer Cell	√/U	✓				
*Hot Cell	√/U	✓				
Facility Cask Loading Room	√/U	✓				
Performer Initials	**********	KW				
WHE Initials	**********	DR				

*Transfer Cell and Hot Cell inspections will be performed using cameras.

Trailer Parking Area Checks:

- Verify by WWIS the seal date at generator site does not exceed 60-day NRC vent period, or 59-day NMED limit
- Warning signs posted in area
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- Unobstructed access with Minimum 4-ft aisle space between loaded trailer(s)
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- No non-flammable compressed gas cylinders stored in the Hot Cell Complex, Crane Maintenance Room, and FCLR
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- Verify first date on WP 05-WH1710, Attachment 1, does not exceed 60 calendar days.
- Verify first date on WP 05-WH1722, Attachment 2, does not exceed 25 calendar days.

COPY

Attachment 3 - Trailer Parking Area and RH Container Storage Area Weekly Inspection

Performer Name (Print)	Signature	Initials	Date
Kim Hanner	[signature]	KH	4-26-13
David Bigler	[signature]	DB	4/26/13

Performer Name (Print) Signature Initials Date

REMARKS:

VALIDATION: David Bigler / [signature] / DB / 4/26/13

WHE (Print Name) Signature Initials Date

COPY

Attachment 3 – TRU Waste Receipt Log

TRU WASTE RECEIPT LOG
(Enter in order shipments are received. Parking Area Unit package totals are post-receipt)

	RECEIPT #	DATE RECEIVED	SHIPMENT NUMBER	PARKING AREA UNIT TOTALS			PCBs? (check if true)	DATE SHIPPING PAPER RETURNED TO GENERATOR	DATE CD SENT TO WASTE GENERATOR (PCB Only)
				TP+HP	TP 3	RH			
RC	11168	032713	IN130025	22	2	4		4-9-13	
RC	11169	032813	IN130026	25	2	4		4-9-13	
RC	11170	03-28-13	SR313018	22	3			04-02-13	
KD	11171	4-2-13	SR313019	5	1			04-24-13	
KD	11172	4-2-13	SR130005	8	1			04-24-13	
RC	11173	4-3-13	LA130027	8	1	2		04-23-13	
KD	11174	4-3-13	SR130006	9	0		✓	04-24-13	04-24-13
KD	11175	4-3-13	SR313028	9	1			04-24-13	
RC	11176	4-3-13	AER13004	7	1	2		4-9-13	
RC	11177	4-3-13	INR13011	7	1	3		04-18-13	
KD	11178	4-4-13	SR130007	6	1			04-24-13	
KD	11179	4-4-13	SR313021	6	2			04-24-13	
RC	11180	4-4-13	LA130028	8	2	3		04-23-13	
RC	11181	4-5-13	LA130029	11	2	3		04-23-13	
KD	11182	4-5-13	SR313022	8	2			04-24-13	
KD	11183	4-5-13	SR130008	10	2		✓	04-24-13	04-24-13
RC	11184	4-5-13	INR130027	13	2	2		4-9-13	
RC	11185	4-5-13	INR13012	13	2	3		04-18-13	
RC	11186	4/6/13	IN130028	16	2	3		4-9-13	
RC	11187	4/6/13	IN130029	13	1	3		4-9-13	
RC	11188	4/6/13	IN130030	16	1	3		4-9-13	
RC	11189	4/7/13	IN130031	16	1	3	✓	4-9-13	5-7-13
RC	11190	4/7/13	IN130032	19	1	3		4-9-13	
RC	11191	4-9-13	SR130009	22	0		✓	04-24-13	04-24-13
RC	11192	4-9-13	SR313023	18	1			04-24-13	
RC	11193	4-10-13	SR130010	19	1			04-24-13	
RC	11194	4-10-13	SR313024	19	2			04-24-13	
RC	11195	04 10 13	LA130030	19	1	2		04-23-13	

Attachment 3 – TRU Waste Receipt Log

TRU WASTE RECEIPT LOG
(Enter in order shipments are received. Parking Area Unit package totals are post-receipt)

	RECEIPT #	DATE RECEIVED	SHIPMENT NUMBER	PARKING AREA UNIT TOTALS			PCBs? (check if true)	DATE SHIPPING PAPER RETURNED TO GENERATOR	DATE CD SENT TO WASTE GENERATOR (PCB Only)
				TP+HP	TP 3	RH			
RC	11196	041113	LA130031	22	1	2		04-23-13	
RC	11197	4-11-13	SR130011	23	1			04-24-13	
RC	11198	4-11-13	SR313025	23	2			04-24-13	
RCW	11199	4-11-13	LA130032	23	2	1		04-23-13	
RCW	11200	4-12-13	AER13005	23	2	2		5-7-13	
RCW	11201	4-12-13	SR130012	26	2			04-24-13	
RCW	11202	4-12-13	SR313026	26	3			04-24-13	
RC	11203	4/12/13	INR13013	21	3	2		04-18-13	
RC	11204	4/12/13	INR13014	21	3	3		04-18-13	
RC	11205	4/13/13	IN130033	22	2	3		5-7-13	
RC	11206	4/13/13	IN130035	25	2	3		5-7-13	
RC	11207	4-16-13	SR130013	17	1			04-24-13	
RC	11208	4-16-13	LA130033	~~20~~ 16	1	2		04-23-13	
RCW	11209	04-17-13	SR130014	16	0		✓	04-24-13	5-16-13
RCW	11210	04-17-13	SR313027	16	1			04-24-13	
RC	11211	4/18/13	LA130034	16	1	2		04-23-13	
RC	11212	4-18-13	SR313028	13	2			04-24-13	
RC	11213	4-18-13	SR130015	16	2			04-24-13	
RC	11214	4/19/13	LA130035	18	2	1		04-23-13	
RC	11215	4-19-13	SR130016	19	1			04-24-13	
RC	11216	4-19-13	SR313029	19	2			04-24-13	
RC	11217	4-20-13	AER13006	17	2	2		5-7-13	
RC	11218	4-20-13	INR13015	15	2	3		5-15-13	
RC	11219	4-20-13	INR13016	15	2	4		5-15-13	
RC	11220	4-20-13	IN130034	14	1	4	✓	5-7-13	5-7-13
RC	11221	4-20-13	IN130036	17	1	4	✓	5-7-13	5-7-13
RC	11222	4-21-13	IN130037	17	1	3		5-7-13	
RC	11223	4-21-13	IN130038	20	1	3		5-7-13	

Attachment 3 – TRU Waste Receipt Log

TRU WASTE RECEIPT LOG
(Enter in order shipments are received. Parking Area Unit package totals are post-receipt)

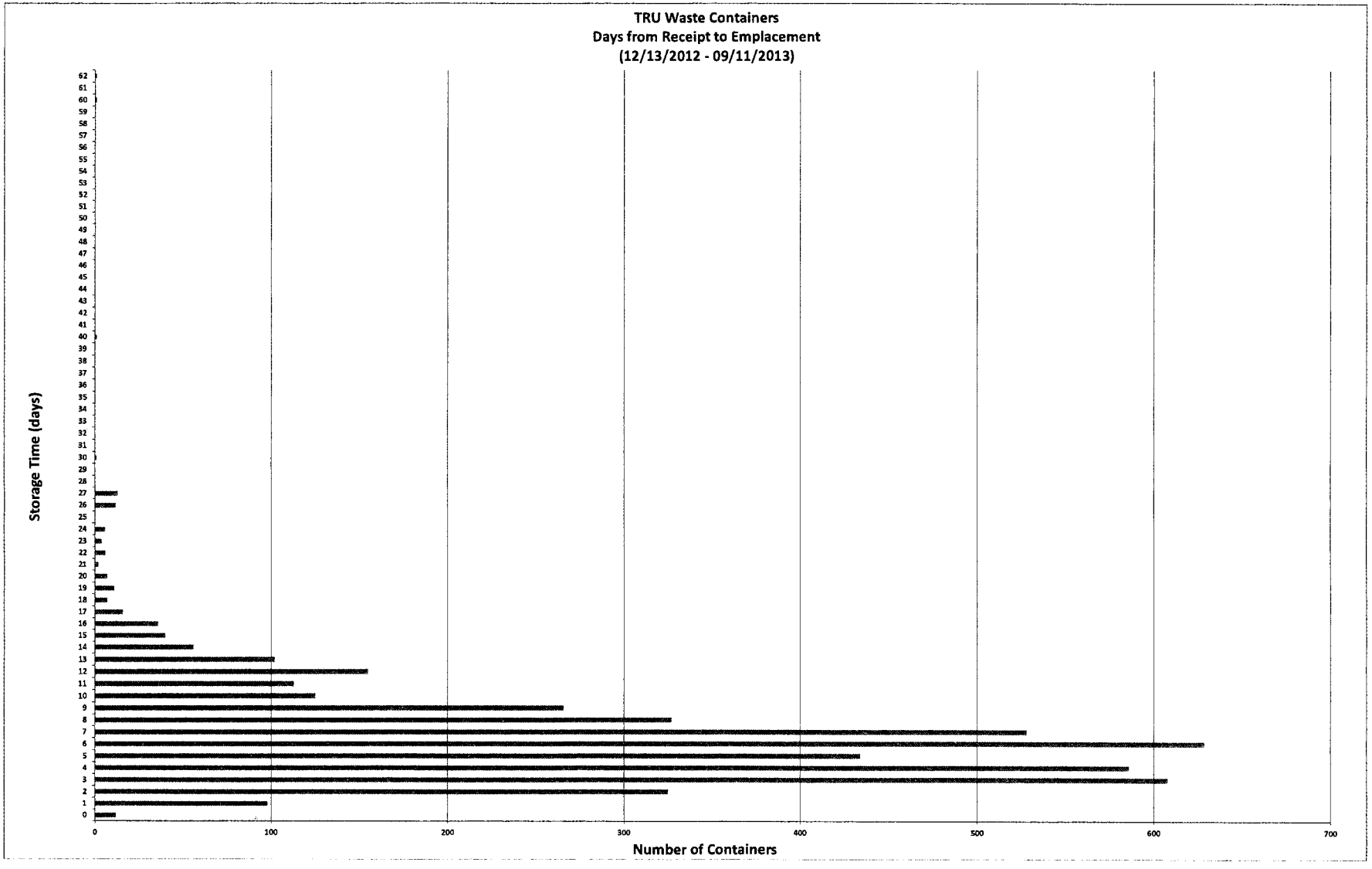
	RECEIPT #	DATE RECEIVED	SHIPMENT NUMBER	PARKING AREA UNIT TOTALS			PCBs? (check if true)	DATE SHIPPING PAPER RETURNED TO GENERATOR	DATE CD SENT TO WASTE GENERATOR (PCB Only)
				TP+HP	TP 3	RH			
KD	11224	4-23-13	SR130017	18	0		✓	04-24-13	5-16-13
KD	11225	4-23-13	SR313030	18	1			04-24-13	
RC	11226	4/23/13	LA130036	20	1	2		5-15-13	
RC	11227	4/23/13	AER13007	20	1	3		5-7-13	
KD	11228	4-24-13	SR313031	19	1 KD 4-24-13			5-16-13	
RCW	11229	042413	LA130087	19	1	1		5-15-13	
RCW 4-25-13	11230	042413	INR13017	19	1	2		5-15-13	
RCW	11229	04-24-13	SR130018	22	1			5-16-13	
RCW	11232	04-25-13	SR313032	15	2			5-16-13	
RCW	11233	04-25-13	SR130019	18	2		✓	5-16-13	5-16-13
RCW	11234	042513	LA130038	18	1	1		5-15-13	
RCW	11235	04-26-13	SR313033	15	2			5-16-13	
RCW	11236	04-26-13	SR130020	18	2			5-16-13	
RCW	11237	04-26-13	SR313034	18	3			5-16-13	
RC	11238	042613	IN130039 ~~IN18~~ 4-26-13	18	3	1		5-7-13	
RC	11239	042613	IN130041	21	3	1		5-7-13	
RC	11240	042613	INR13018	21	3	2		5-15-13	
RC	11241	042713	IN130040	21	3	2	✓	5-7-13	5-7-13
RC	11242	042713	IN130042	24	3	2		5-7-13	
RC	11243	042813	IN130044	22	3	2	✓	5-7-13	5-7-13
RC	11244	042813	IN130043	25	3	2		5-7-13	
RC	11245	042913	LA130039	21	2	2		5-15-13	
RC	11246	043013	AER13008	18	2	2		5-7-13	
RC	11247	050113	IN130045	21	2	2		5-7-13	
RC	11248	050113	LA130040	24	2	2		5-15-13	
RC	11249	050113	IN130046	27	2	2		5-7-13	
RC	11250	050113	LA 130041	20	2	1		5-15-13	
	11251	050513	IN130~~48~~ 47	~~13~~10	1		✓	5-7-13	5.29-13

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

5.a **Generate and provide a histogram from the WWIS database, plotting number of containers versus number of days in storage, demonstrating whether storage times were ever exceeded from December 13, 2012 to September 11, 2013.**
[8 pages]

The last six pages contain the documentation of venting for containers which have been in storage 60 days. Per A1-1c(2)

Storage Time (days)	Cntrs
0	12
1	98
2	325
3	608
4	586
5	434
6	629
7	528
8	327
9	266
10	125
11	113
12	155
13	102
14	56
15	40
16	36
17	16
18	7
19	11
20	7
21	2
22	6
23	4
24	6
25	0
26	12
27	13
28	0
29	0
30	1
31	0
32	0
33	0
34	0
35	0
36	0
37	0
38	0
39	0
40	1
41	0
42	0
43	0
44	0
45	0
46	0
47	0
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	1
61	0
62	1
Total:	4,528



Attachment 1 – RH Waste Processing Data Sheet

STEP	DESCRIPTION	INITIAL
[redacted]		
4.0	Adequate Waste Handling Operations staff available.	WH KW
5.0	WH is configured for RH WH Mode.	WH KW
7.0	RH-TRU 72-B Serial Number: 00-06	WH KW
8.0	Record RH-TRU 72-B shipment number: FNR13002	WH KW
[redacted]		
1.2	Record survey number: 13-8023	RCT KB.
1.16	Removable surface activity on swipe is below acceptable limits.	RCT KB.
4.12	Removable surface activity on swipe of RAF assembly and RAF is below acceptable limits.	RCT KB.
5.43	CAM spectrum is in normal range (178-188).	RCT
8.32	Canister Number: IN0317	WH or RCT
8.36	Verified waste container **DOES** contain PCBs (Warning Label applied), or container **DOES NOT** contain PCBs (N/A).	WH or RCT N/A
8.82	Removable surface activity on swipes is below acceptable limits.	RCT

COPY

Attachment 1 – RH Waste Processing Data Sheet

Print Name	Signature	Date	Initials
K. Kitamanner	K. Kitamanner	3-1-13	KM
K. Bickerstaff	K. Bickerstaff	3-1-13	KB.
[illegible]	[illegible]	03-06-13	DA

Remarks:

N A

Review/Validation: Gary D Chism (WHE (Print Name)) Gary Chism (Signature) 3/12/13 (Date)

COPY

Attachment 1 – RH Waste Processing Data Sheet

STEP	DESCRIPTION	INITIAL
[redacted]		
4.0	Adequate Waste Handling Operations staff available.	WH KW
5.0	WH is configured for RH WH Mode.	WH KW
7.0	RH-TRU 72-B Serial Number: 00-04	WH KW
8.0	Record RH-TRU 72-B shipment number: INR 13003	WH KW
[redacted]		
1.2	Record survey number: 13-8025	RCT KB.
1.16	Removable surface activity on swipe is below acceptable limits.	RCT KB. /
4.12	Removable surface activity on swipe of RAF assembly and RAF is below acceptable limits.	RCT KB
5.43	CAM spectrum is in normal range (178-188).	RCT* KB
8.32	Canister Number: JD0318	WH or RCT KB *
8.36	Verified waste container **DOES** contain PCBs (Warning Label applied), or container **DOES NOT** contain PCBs (N/A).	WH or RCT N/A KB *
8.82	Removable surface activity on swipes is below acceptable limits.	RCT KB. *

COPY

Attachment 1 – RH Waste Processing Data Sheet

Print Name	Signature	Date	Initials
[illegible]	[illegible]	3-7-13	KW
K. Bickerstaff	K. B[illegible]	3-7-13	KB
David Rich	[illegible]	3/19/13	DR

Remarks: * These steps were completed previously on 3/7/13 to support venting requirements on INR13003 so not to exceed 59 day. This was performed to support ~~[illegible]~~ 3/13/13 WO# 1302413 to load cask 00-04 back on trailer after venting 3/13/13 DR.

Review/Validation: Gary D Christ [illegible] 3/13/13
WHE (Print Name) Signature Date

COPY

Attachment 1 – RH Waste Processing Data Sheet

STEP	DESCRIPTION	INITIAL
[redacted]		
4.0	Adequate Waste Handling Operations staff available.	WH *
5.0	WH is configured for RH WH Mode.	WH *
7.0	RH-TRU 72-B Serial Number: 06-04	WH *
8.0	Record RH-TRU 72-B shipment number: IN213003	WH *
[redacted]		
1.2	Record survey number: 13-8025	RCT * KB
1.16	Removable surface activity on swipe is below acceptable limits.	RCT * KB.
4.12	Removable surface activity on swipe of RAF assembly and RAF is below acceptable limits.	RCT * KB
5.43	CAM spectrum is in normal range (178-188).	RCT KB
8.32	Canister Number: ID0318	WH or RCT KB.
8.36	Verified waste container **DOES** contain PCBs (Warning Label applied), or container **DOES NOT** contain PCBs (N/A).	WH or RCT N/A KB.
8.82	Removable surface activity on swipes is below acceptable limits.	RCT KB

COPY

Attachment 1 – RH Waste Processing Data Sheet

Print Name	Signature	Date	Initials
K. Bickerstaff	K B[illegible]	3-12-13	KB.
N. Y[illegible]	[illegible]	3-12-13	[illegible]
David Rip[illegible]	D[illegible]	3/19/13	[illegible]

Remarks: * These steps were previously completed on 3/[illegible]/13 to support venting requirements on TDR13003 not to exceed 59 days. This was performed to support WO# 13024113 to load Cask 00-04 back on trailer after venting. DR. 3/13/13

Review/Validation: Gary D Chism (WHE (Print Name)) [illegible] (Signature) 3/13/13 (Date)

COPY

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

6. Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachments E, L, N, N1, and O. Radiological instruments are not considered demonstration of permit compliance.

6.a Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment E. [14 pages]

6.b Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment L.

6.c Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N.

6.d Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N1.

6.e Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment O.

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION

REPORT NO. 85802

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

TRUE RMS MULTIMETER

Manufacturer FLUKE	Model No. 179
Serial No. 81300105	Inventory No. ZG0024
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/FK179.003 Temperature 72 F Humidity 28 %
Calibration Date 03-20-2012	Recall Date 03-20-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

This report shall not be duplicated except if in full or with written approval of Instrument Service Laboratories.

APPROVED
BY
DATE 4-19-12

Certified By M. Griego - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 85802

03-20-2012

ITEM CALIBRATED : FLUKE TRUE RMS MULTIMETER -- MODEL. 179
: SERIAL NO. 81300105
: CUSTOMER CONTROL NO. ZG0024

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPP SITE
CARLSBAD, NM 88221

PROCEDURE : ISL/FK179.003 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
DC VOLTAGE ACCURACY					
6 V 5 V	4.998	-0.002		+/-	.007 V
600 V 300 V	299.9	-0.1		+/-	.5 V
1000 V 1000 V	999	-1		+/-	4 V
1000 V -1000 V	-1000	+0		+/-	4 V
DC mV ACCURACY					
600 mV 30 mV	30.0	+0.0		+/-	.2 mV
600 mV -300 mV	-300.0	+0.0		+/-	.5 mV
600 mV 600 mV	599.7	-0.3		+/-	.7 mV
DC CURRENT ACCURACY					
60 mA 3 mA	3.00	+0.00		+/-	.06 mA
60 mA 50 mA	49.90	-0.10		+/-	.53 mA
400 mA -400 mA	-399.7	+0.3		+/-	4.3 mA
6 A 1.900 A	1.899	-0.001		+/-	.022 A
10 A 1.90 A	1.91	+0.01		+/-	.05 A
AC CURRENT ACCURACY					
60 mA 3 mA/45 Hz	3.01	+0.01		+/-	.07 mA
60 mA 50 mA/1 kHz	50.02	+0.02		+/-	.78 mA
400 mA 400 mA/1 kHz	399.9	-0.1		+/-	6.3 mA
6 A 1.9 A/45 Hz	1.900	+0.000		+/-	.031 A
10 A 1.9 A/1 kHz	1.90	+0.00		+/-	.06 A
AC VOLTAGE ACCURACY					
600 mV 300 mV/ 45 Hz	299.4	-0.6		+/-	3.3 mV
6 V 5.0 V/500 Hz	4.987	-0.013		+/-	.053 V
6 V 5.0 V/ 1 kHz	4.947	-0.053		+/-	.103 V
60 V 50 V/ 45 Hz	49.94	-0.06		+/-	.53 V

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
AC VOLTAGE ACCURACY (CONT.)					
60 V 50 V/ 1 kHz	49.98	-0.02		+/-	1.03 V
600 V 100 V/ 1 kHz	99.9	-0.1		+/-	2.3 V
600 V 300 V/ 45 Hz	299.6	-0.4		+/-	3.3 V
600 V 600 V/ 1 kHz	600.0	+0.0		+/-	12.3 V
1000 V 1000 V/ 45 Hz	999	-1		+/-	13 V
RESISTANCE ACCURACY					
600 Ω 19 Ω	19.0	+0.0		+/-	.4 Ω
50 MΩ 19 MΩ	19.01	+0.01		+/-	.32 MΩ
FREQUENCY ACCURACY TEST					
20 kHz/1.5 V	19.99	-0.01		+/-	.03 kHz
50 kHz/5.0 V	49.96	-0.04		+/-	.06 kHz
CAPACITANCE ACCURACY TEST					
1000 nF 500 nF	503	+3		+/-	9 nF
DIODE TEST					
2.40 V 2.000 V	1.999	-0.001		+/-	.022 V
CONTINUITY TEST	PASS				PASS/FAIL
TEMPERATURE ACCURACY					
400 °C 0.0 °C	-0.3	-0.3		+/-	1.0 °C
400 °C -40.0 °C	-40.4	-0.4		+/-	1.4 °C
400 °C 400.0 °C	399.5	-0.5		+/-	5.0 °C
PROBE ACCURACY TEST - 80BK-A K-TYPE MULTIMETER PROBE					
400 °C 0.0 °C	n/a			+/-	3.2 °C
752 °F 32.0 °F	n/a			+/-	6.1 °F

CERTIFIED _____

DATE 07-20-2012

GEOKON 48 Spencer St. Lebanon, NH 03766 USA

ZG 0020

Geokon, Inc. Statement of Calibration Practices

Geokon, Inc. certifies that this product has been calibrated and accepted using measurement standards traceable to the NIST in compliance with ANSI/NCSL Z540-1.

We further certify this product meets or exceeds Geokon, Inc. design and technical specifications for measurement accuracy.

Calibration operations are controlled using procedures that are a part of Geokon's certified ISO 9001:2008 quality system.

Model Number: RB-100 Serial Number: 168

Signed by: M. J. Gibson Date: August 17, 2012

Quality Assurance Manager

Official Corporate Seal GEOKON 48 Spencer Street Lebanon, NH 03766 USA

APPROVED

BY

DATE 8-30-12

CALIBRATION CERTIFICATE

AS FOUND

GEOKON/EALEY TAPE EXTENSOMETER
MODEL 1610

SERIAL NO:	A42-134
CERTIFICATE NO:	A42-134/7
JOB NO:	205553R13
SELF LENGTH:	20 inches
TAPE LENGTH:	66 ft
TENSION:	22 lbs
DATE:	02/11/13
ZERO READING:**	0.3720 in
NAME:	J.B.Sellers
SIGNATURE:	

** Zero reading on in-house calibration frame. For factory use only.

48 Spencer Street
Lebanon, NH 03766, USA
Tel: 603•448•1562
Fax: 603•448•3216
E-mail: geokon@geokon.com
http://www.geokon.com

GEOKON

The World Leader in Vibrating Wire Technology

2G0029

CALIBRATION CERTIFICATE

AS LEFT

GEOKON/EALEY TAPE EXTENSOMETER
MODEL 1610

SERIAL NO:	A42-134
CERTIFICATE NO:	A42-134/7
JOB NO:	205553R13
SELF LENGTH:	20 inches
TAPE LENGTH:	66 ft
TENSION:	22 lbs
DATE:	02/13/13
ZERO READING:**	0.3690 in
NAME:	J.B.Sellers
SIGNATURE:	

APPROVED

BY

DATE 2-21-13

** Zero reading on in-house calibration frame. For factory use only.

48 Spencer Street
Lebanon, NH 03766, USA
Tel: 603•448•1562
Fax: 603•448•3216
E-mail: geokon@geokon.com
http://www.geokon.com

CALIBRATION CERTIFICATE

GEOKON/EALEY TAPE EXTENSOMETER
MODEL 1610

SERIAL NO:	A42-134
CERTIFICATE NO:	A42-134/6
JOB NO:	205553R10
SELF LENGTH:	20 in
TAPE LENGTH:	66 ft
TENSION:	22 lbs
DATE:	02/24/12
ZERO READING:**	0.3750 in
NAME:	J.B.Sellers
SIGNATURE:	

** Zero reading on in-house calibration frame. For factory use only.

APPROVED
BY
DATE 3-8-12

48 Spencer Street
Lebanon, NH 03766, USA
Tel: 603•448•1562
Fax: 603•448•3216
E-mail: geokon@geokon.com
http://www.geokon.com

GK-401 Calibration Data Sheet

EG0023

Calibration Date: **May 29, 2012** Calibration Recall: **May 29, 2013**

Serial Number: **0968** Calibration Technician: **Mark Allen**

Calibration Instruction: CI-GK401/403/404 Rev: D

GK-401 Position "A" (period µs)

Frequency Hz	GK-401 Reading (µs)	Frequency Counter (µs)	Allowable Difference (µs)
400	**2500.4**	**2499.99**	±0.6 µs
3200	**312.5**	**312.49**	±0.6 µs
6000	**166.7**	**166.66**	±0.6 µs

Control Number: **169,233**

This certifies the above named instrument has been calibrated by comparison with standards traceable to the National Institute of Standards and Technology (NIST) in compliance with ANSI/NCSL Z540-1 and is in tolerance as found.

This certificate shall not be reproduced, except in full, without written permission of Geokon, Inc.

401 cal rev: K

APPROVED

BY

DATE 6-7-12

Instrument Service Laboratories

DATA REPORT NO. 86113
PAGE 1 of 1
04-13-2012

ITEM CALIBRATED : VISHAY DIGITAL STRAIN GAUGE INDICATOR, MODEL P3500
: SERIAL NO. 0148313
: CUSTOMER CONTROL NO. ZG0014

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPP SITE
CARLSBAD, NM 88221

PROCEDURE : ISL/VSP3500.002 06-01-96

FUNCTION		AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
EXCITATION VOLTAGE ACCURACY						
2.000 V DC		2.0001	+0.0001		+/-	.0020 V
ACCURACY X1						
APPLIED		INDICATED				
100 uV	100	100	+0		+/-	3
500 uV	500	500	+0		+/-	3
1000 uV	1000	1000	+0		+/-	3
5000 uV	5000	4999	-1		+/-	5
10000 uV	10000	9999	-1		+/-	8
19000 uV	19000	18998	-2		+/-	12
ACCURACY X10						
APPLIED		INDICATED				
20 mV	2000	2000	+0		+/-	11
40 mV	4000	4000	+0		+/-	12
60 mV	6000	6000	+0		+/-	13
80 mV	8000	8000	+0		+/-	14
90 mV	9000	9000	+0		+/-	14

GAGE FACTOR ACCURACY

NOMINAL DISPLAY = 36000/GAGE FACTOR

GAGE FACTOR /	NOMINAL	INDICATED				
2.000	18000	17999	-1		+/-	10
3.000	12000	11999	-1		+/-	7
4.000	9000	8999	-1		+/-	5
6.000	6000	5999	-1		+/-	4
8.000	4500	4499	-1		+/-	3
9.000	4000	4000	+0		+/-	3

CERTIFIED [signature]

DATE 04-13-2012

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION

REPORT NO. 86113

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

STRAIN INDICATOR

Manufacturer VISHAY	Model No. P-3500
Serial No. 0148313	Inventory No. ZG0014
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/VSP3500.002 Temperature 72 F Humidity 30%
Calibration Date 04-13-2012	Recall Date 04-13-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

This report shall not be duplicated except if in full or with written approval of Instrument Service Laboratories.

APPROVED

BY

DATE 4-30-12

Certified By M. Griego - TECHNICIAN

GK-701 Test Report

ZG0026

Customer: **Washington TRU Solutions** Job Number: **22734R7**

Test: **August 16, 2012** Test Recall: **August 16, 2013**

Test Instruction: **CI-GK-701 Rev: A**

Serial Number: **275** Inspector:**EVC**

GK-701 Position "D"

Rotary Switch Position	"D" Position Reading (inches)	Magnet Position (inches)	% Error FSR*
1	**10.029**	**10.026**	**0.008**
2	**8.006**	**8.006**	**0.000**
3	**6.036**	**6.031**	**0.014**
4	**7.996**	**7.996**	**0.000**

% Error FSR not to exceed 0.5%

GK-701 Position "N"

Rotary Switch Position	"N" Position Reading (inches)	Magnet Position (inches)	% Error FSR*
1	**10.035**	**10.026**	**0.025**
2	**18.036**	**18.032**	**0.011**
3	**24.071**	**24.063**	**0.022**
4	**32.067**	**32.059**	**0.022**

% Error FSR not to exceed 0.5%

The above item was found to be in tolerance when tested.

NOTE: Magnets mounted on a 36" Rigid Probe.
(*Difference between Mag. Pos. and D/N Pos., divided by 36, multiplied by 100)

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APPROVED

BY

DATE 8-30-12

Geokon, Inc. | 48 Spencer Street | Lebanon, New Hampshire | 603 · 448 · 3216 | geokon@geokon.com | www.geokon.com

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION

REPORT NO. 86113

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

STRAIN INDICATOR

Manufacturer VISHAY	Model No. P-3500
Serial No. 0148313	Inventory No. ZG0014
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/VSP3500.002 Temperature 72 F Humidity 30%
Calibration Date 04-13-2012	Recall Date 04-13-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

This report shall not be duplicated except if in full or with written approval of Instrument Service Laboratories.

APPROVED

BY

DATE 4-30-12

Certified By M. Griego - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 86113
PAGE 1 of 1
04-13-2012

ITEM CALIBRATED : VISHAY DIGITAL STRAIN GAUGE INDICATOR, MODEL P3500
: SERIAL NO. 0148313
: CUSTOMER CONTROL NO. ZG0014

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPP SITE
CARLSBAD, NM 88221

PROCEDURE : ISL/VSP3500.002 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
EXCITATION VOLTAGE ACCURACY					
2.000 V DC	2.0001	+0.0001		+/-	.0020 V
ACCURACY X1					
APPLIED	INDICATED				
100 uV 100	100	+0		+/-	3
500 uV 500	500	+0		+/-	3
1000 uV 1000	1000	+0		+/-	3
5000 uV 5000	4999	-1		+/-	5
10000 uV 10000	9999	-1		+/-	8
19000 uV 19000	18998	-2		+/-	12
ACCURACY X10					
APPLIED	INDICATED				
20 mV 2000	2000	+0		+/-	11
40 mV 4000	4000	+0		+/-	12
60 mV 6000	6000	+0		+/-	13
80 mV 8000	8000	+0		+/-	14
90 mV 9000	9000	+0		+/-	14

GAGE FACTOR ACCURACY

NOMINAL DISPLAY = 36000/GAGE FACTOR

GAGE FACTOR /	NOMINAL	INDICATED			
2.000	18000	17999	-1	+/-	10
3.000	12000	11999	-1	+/-	7
4.000	9000	8999	-1	+/-	5
6.000	6000	5999	-1	+/-	4
8.000	4500	4499	-1	+/-	3
9.000	4000	4000	+0	+/-	3

CERTIFIED Milton J. Gray

DATE 04-13-2012

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

6. Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachments E, L, N, N1, and O. Radiological instruments are not considered demonstration of permit compliance.

   6.a Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment E.

   6.b Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment L [30 pages].

   6.c Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N.

   6.d Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N1.

   6.e Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment O.

TRANSCAT® CALIBRATION SERVICES

NVLAP®

NVLAP LAB CODE
200914-0

CERTIFICATE OF CALIBRATION

Customer: WASHINGTON TRU SOLUTIONS
4021 NATIONAL PARKS HIGHWAY
CARLSBAD, NM 88220

Customer Nbr: 1-531854-000
PO Nbr: 600005
Date Received: June 28, 2011

Cert/SO Nbr: 1-BA8D7-35-1
Manufacturer: In-Situ Inc.
Model Nbr: TAPE 200

Date Completed: July 19, 2011
Due Date: July 19, 2012

Part Nbr: Tape 200
Description: Tape Measure
Serial Nbr: 24027
ID Nbr: ZE0168
Unit Barcode: 901B0034696

Calibrated To: Manufacturer Specification
Calibration Proc: 1-AC44041-1
Item Received: Limited Calibration - In Tolerance
Item Returned: Limited Calibration - In Tolerance

For calibration data, see Supplemental Report for SO Nbr 1-BA8D7-35-1

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2005. Accredited calibrations performed within the Lab's Scope of Accreditation are indicated by the presence of the Accrediting Body's Logo and Certificate Number on this Certificate of Calibration. Any measurements on an accredited calibration not covered by that Lab's Scope are listed in the notes section of the certificate. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Transcat calibrations, as applicable, are performed in compliance with the requirements of ISO 9001:2008, ISO TS16949, ANSI/NCSL Z540-1994, and ISO 10012-1992. When specified contractually, the requirements of 10CFR21, 10CFR50 App. B and NQA-1 are also covered.

Traceability includes no less than: An unbroken chain of comparison, realization of SI units, measurement uncertainty, documentation, competence, periodic recalibration, and measurement assurance. Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST) or the National Research Council of Canada (NRC), or other recognized national measurement institutes (NMI's) or international standard bodies, or to measurable conditions created in our laboratory, or accepted fundamental and/or natural physical constants, ratio type of calibration, or by comparison to consensus standards. The specific path of traceability for the reported measurement results is maintained at the Transcat facility and is available there for review.

Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are shown on the Supplemental Report.

The results in this report relate only to the item calibrated or tested, and the determination of in or out of tolerance is specific to the model/serial no. referenced above based on the tolerances shown on the supplemental report; these tolerances are either the original equipment manufacturer's (OEM's) warranted specifications or the client's requested specifications.

The applied uncertainty is the uncertainty of the calibration process. The Test Uncertainty Ratio (TUR) is calculated as per NCSL International RP-9, section 8.2. All calibrations have been performed using processes having a TUR of 4 : 1 or better, unless otherwise noted on the Supplemental Report. Uncertainties have been estimated at a 95 percent confidence level (k=2). Calibration at a 4:1 TUR (or greater) provides reasonable confidence that the instrument is within the stated tolerances. For measuring instruments, in order to consider the contribution to the uncertainty from reproducibility of the unit under test (UUT), add 0.6 of the UUT's least significant digit to the reported uncertainty. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions.

Notes: The unit was found out of tolerance to manufacture specifications, used customer supplied tolerances. Limitations per Richard Jimenez, 575-234-8210.

APPROVED
BY _____
DATE 8-4-11

Calibrated At:
35 Vantage Point Dr
Rochester, NY 14624
By: Jeremy Kraft
Digitally Signed On July 19, 2011

Facility Responsible:
35 Vantage Point Dr
Rochester, NY 14624
585-352-9720

Digitally Signed By Chris DeZutter for
Date: July 19, 2011

Chris Herrmann
Lab Manager

INFORMATION ONLY

Revision 0

F0013R21 8/06/2009

This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Per WP 10-AD3029 Performance (revision 8; pg 4):
Calibration period begins with date of first use (placed into service) rather than actual calibration date. Calibration expiration (recall) date will be adjusted accordingly.

Date In-service: 5/14/12
Adjusted Calibration Expiration Date: 5/14/13
Modified By / Date: R Jimenez 5/14/12

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Service Order Nbr:	BA8D7-35-1	Mfg:	In-Situ Inc.
Description:	Tape Measure	Model:	TAPE 200
Serial:	24027		
Customer:	WASHINGTON TRU SOLUTIONS		
Calibrated:	07/19/2011	PO Nbr:	600005
Date Due:	07/19/2012	ID Nbr:	ZE0168
Service Type:	P6	Calibration Proc:	1-AC44041-1

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
Length Measure (inch side)									
Zero Reference	0.000in				0.000 in				
0 to 48	48.000in	±(3.6 in)	44.400	51.600	47.981 in				
48 to 96"	48.000in	±(3.6 in)	44.400	51.600	47.963 in				
0 to 96" Error		±(3.6 in)	92.400	99.600	95.944 in				
96 to 144"	48.000in	±(3.6 in)	44.400	51.600	47.958 in				
0 to 144" Error		±(3.6 in)	140.400	147.600	143.902 in				
144 to 192"	48.000in	±(3.6 in)	44.400	51.600	48.005 in				
0 to 192" Error		±(3.6 in)	188.400	195.600	191.907 in				
192 to 240"	48.000in	±(3.6 in)	44.400	51.600	47.983 in				
0 to 240" Error		±(3.6 in)	236.400	243.600	239.890 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
240 to 288"	48.000in	±(3.6 in)	44.400	51.600	47.953 in				
0 to 288" Error		±(3.6 in)	284.400	291.600	287.843 in				
288 to 336"	48.000in	±(3.6 in)	44.400	51.600	48.012 in				
0 to 336" Error		±(3.6 in)	332.400	339.600	335.855 in				
336 to 384"	48.000in	±(3.6 in)	44.400	51.600	47.968 in				
0 to 384" Error		±(3.6 in)	380.400	387.600	383.823 in				
384 to 432"	48.000in	±(3.6 in)	44.400	51.600	47.960 in				
0 to 432" Error		±(3.6 in)	428.400	435.600	431.783 in				
432 to 480"	48.000in	±(3.6 in)	44.400	51.600	48.005 in				
0 to 480" Error		±(3.6 in)	476.400	483.600	479.788 in				
480 to 528"	48.000in	±(3.6 in)	44.400	51.600	47.978 in				
0 to 528" Error		±(3.6 in)	524.400	531.600	527.766 in				
528 to 576"	48.000in	±(3.6 in)	44.400	51.600	47.949 in				
0 to 576" Error		±(3.6 in)	572.400	579.600	575.715 in				
576 to 624"	48.000in	±(3.6 in)	44.400	51.600	48.003 in				
0 to 624" Error		±(3.6 in)	620.400	627.600	623.718 in				
624 to 672"	48.000in	±(3.6 in)	44.400	51.600	47.981 in				
0 to 672" Error		±(3.6 in)	668.400	675.600	671.699 in				
672 to 720"	48.000in	±(3.6 in)	44.400	51.600	47.945 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 720" Error		±(3.6 in)	716.400	723.600	719.644 in				
720 to 768"	48.000in	±(3.6 in)	44.400	51.600	48.010 in				
0 to 768" Error		±(3.6 in)	764.400	771.600	767.654 in				
768 to 816"	48.000in	±(3.6 in)	44.400	51.600	47.971 in				
0 to 816" Error		±(3.6 in)	812.400	819.600	815.625 in				
816 to 864"	48.000in	±(3.6 in)	44.400	51.600	47.956 in				
0 to 864" Error		±(3.6 in)	860.400	867.600	863.581 in				
864 to 912"	48.000in	±(3.6 in)	44.400	51.600	47.999 in				
0 to 912" Error		±(3.6 in)	908.400	915.600	911.580 in				
912 to 960"	48.000in	±(3.6 in)	44.400	51.600	47.971 in				
0 to 960" Error		±(3.6 in)	956.400	963.600	959.551 in				
960 to 1008"	48.000in	±(3.6 in)	44.400	51.600	47.957 in				
0 to 1008" Error		±(3.6 in)	1004.400	1011.600	1007.508 in				
1008 to 1056"	48.000in	±(3.6 in)	44.400	51.600	48.004 in				
0 to 1056" Error		±(3.6 in)	1052.400	1059.600	1055.512 in				
1056 to 1104"	48.000in	±(3.6 in)	44.400	51.600	47.977 in				
0 to 1104" Error		±(3.6 in)	1100.400	1107.600	1103.489 in				
1104 to 1152"	48.000in	±(3.6 in)	44.400	51.600	47.948 in				
0 to 1152" Error		±(3.6 in)	1148.400	1155.600	1151.437 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
1152 to 1200"	48.000in	±(3.6 in)	44.400	51.600	48.016 in				
0 to 1200" Error		±(3.6 in)	1196.400	1203.600	1199.453 in				
1200 to 1248"	48.000in	±(3.6 in)	44.400	51.600	47.972 in				
0 to 1248" Error		±(3.6 in)	1244.400	1251.600	1247.425 in				
1248 to 1296"	48.000in	±(3.6 in)	44.400	51.600	47.951 in				
0 to 1296" Error		±(3.6 in)	1292.400	1299.600	1295.376 in				
1296 to 1344"	48.000in	±(3.6 in)	44.400	51.600	48.014 in				
0 to 1344" Error		±(3.6 in)	1340.400	1347.600	1343.390 in				
1344 to 1392"	48.000in	±(3.6 in)	44.400	51.600	47.969 in				
0 to 1392" Error		±(3.6 in)	1388.400	1395.600	1391.359 in				
1392 to 1440"	48.000in	±(3.6 in)	44.400	51.600	47.961 in				
0 to 1440" Error		±(3.6 in)	1436.400	1443.600	1439.320 in				
1440 to 1488"	48.000in	±(3.6 in)	44.400	51.600	47.995 in				
0 to 1488" Error		±(3.6 in)	1484.400	1491.600	1487.315 in				
1488 to 1536"	48.000in	±(3.6 in)	44.400	51.600	47.980 in				
0 to 1536" Error		±(3.6 in)	1532.400	1539.600	1535.295 in				
1536 to 1584"	48.000in	±(3.6 in)	44.400	51.600	47.953 in				
0 to 1584" Error		±(3.6 in)	1580.400	1587.600	1583.248 in				
1584 to 1632"	48.000in	±(3.6 in)	44.400	51.600	48.015 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

Service Order Nbr: BA8D7-35-1

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 1632" Error		±(3.6 in)	1628.400	1635.600	1631.263 in				
1632 to 1680"	48.000in	±(3.6 in)	44.400	51.600	47.965 in				
0 to 1680" Error		±(3.6 in)	1676.400	1683.600	1679.228 in				
1680 to 1728"	48.000in	±(3.6 in)	44.400	51.600	47.949 in				
0 to 1728" Error		±(3.6 in)	1724.400	1731.600	1727.177 in				
1728 to 1776"	48.000in	±(3.6 in)	44.400	51.600	48.010 in				
0 to 1776" Error		±(3.6 in)	1772.400	1779.600	1775.187 in				
1776 to 1824"	48.000in	±(3.6 in)	44.400	51.600	47.973 in				
0 to 1824" Error		±(3.6 in)	1820.400	1827.600	1823.160 in				
1824 to 1872"	48.000in	±(3.6 in)	44.400	51.600	47.946 in				
0 to 1872" Error		±(3.6 in)	1868.400	1875.600	1871.106 in				
1872 to 1920"	48.000in	±(3.6 in)	44.400	51.600	48.018 in				
0 to 1920" Error		±(3.6 in)	1916.400	1923.600	1919.124 in				
1920 to 1968"	48.000in	±(3.6 in)	44.400	51.600	47.970 in				
0 to 1968" Error		±(3.6 in)	1964.400	1971.600	1967.094 in				
1968 to 2016"	48.000in	±(3.6 in)	44.400	51.600	47.951 in				
0 to 2016" Error		±(3.6 in)	2012.400	2019.600	2015.045 in				
2016 to 2064"	48.000in	±(3.6 in)	44.400	51.600	48.013 in				
0 to 2064" Error		±(3.6 in)	2060.400	2067.600	2063.058 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT

Field not applicable.

Service Order Nbr: BA8D7-35-1

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
2064 to 2112"	48.000in	±(3.6 in)	44.400	51.600	47.972 in				
0 to 2112" Error		±(3.6 in)	2108.400	2115.600	2111.030 in				
2112 to 2160"	48.000in	±(3.6 in)	44.400	51.600	47.954 in				
0 to 2160" Error		±(3.6 in)	2156.400	2163.600	2158.984 in				
2160 to 2208"	48.000in	±(3.6 in)	44.400	51.600	48.007 in				
0 to 2208" Error		±(3.6 in)	2204.400	2211.600	2206.991 in				
2208 to 2256"	48.000in	±(3.6 in)	44.400	51.600	47.975 in				
0 to 2256" Error		±(3.6 in)	2252.400	2259.600	2254.966 in				
2256 to 2304"	48.000in	±(3.6 in)	44.400	51.600	47.956 in				
0 to 2304" Error		±(3.6 in)	2300.400	2307.600	2302.922 in				
2304 to 2352"	48.000in	±(3.6 in)	44.400	51.600	48.006 in				
0 to 2352" Error		±(3.6 in)	2348.400	2355.600	2350.928 in				
2352 to 2400"	48.000in	±(3.6 in)	44.400	51.600	47.971 in				
0 to 2400" Error		±(3.6 in)	2396.400	2403.600	2398.899 in				
2400 to 2448"	48.000in	±(3.6 in)	44.400	51.600	47.954 in				
0 to 2448" Error		±(3.6 in)	2444.400	2451.600	2446.853 in				
2448 to 2496"	48.000in	±(3.6 in)	44.400	51.600	48.018 in				
0 to 2496" Error		±(3.6 in)	2492.400	2499.600	2494.871 in				
2496 to 2544"	48.000in	±(3.6 in)	44.400	51.600	47.965 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 2544" Error		±(3.6 in)	2540.400	2547.600	2542.836 in				
2544 to 2592"	48.000in	±(3.6 in)	44.400	51.600	47.952 in				
0 to 2592" Error		±(3.6 in)	2588.400	2595.600	2590.788 in				
2592 to 2640"	48.000in	±(3.6 in)	44.400	51.600	48.008 in				
0 to 2640" Error		±(3.6 in)	2636.400	2643.600	2638.796 in				
2640 to 2688"	48.000in	±(3.6 in)	44.400	51.600	47.985 in				
0 to 2688" Error		±(3.6 in)	2684.400	2691.600	2686.781 in				
2688 to 2736"	48.000in	±(3.6 in)	44.400	51.600	47.952 in				
0 to 2736" Error		±(3.6 in)	2732.400	2739.600	2734.733 in				
2736 to 2784"	48.000in	±(3.6 in)	44.400	51.600	48.010 in				
0 to 2784" Error		±(3.6 in)	2780.400	2787.600	2782.743 in				
2784 to 2832"	48.000in	±(3.6 in)	44.400	51.600	47.974 in				
0 to 2832" Error		±(3.6 in)	2828.400	2835.600	2830.717 in				
2832 to 2880"	48.000in	±(3.6 in)	44.400	51.600	47.955 in				
0 to 2880" Error		±(3.6 in)	2876.400	2883.600	2878.672 in				
2880 to 2928"	48.000in	±(3.6 in)	44.400	51.600	48.015 in				
0 to 2928" Error		±(3.6 in)	2924.400	2931.600	2926.687 in				
2928 to 2976"	48.000in	±(3.6 in)	44.400	51.600	47.967 in				
0 to 2976" Error		±(3.6 in)	2972.400	2979.600	2974.654 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
2976 to 3024"	48.000in	±(3.6 in)	44.400	51.600	47.964 in				
0 to 3024" Error		±(3.6 in)	3020.400	3027.600	3022.618 in				
3024 to 3072"	48.000in	±(3.6 in)	44.400	51.600	48.001 in				
0 to 3072" Error		±(3.6 in)	3068.400	3075.600	3070.619 in				
3072 to 3120"	48.000in	±(3.6 in)	44.400	51.600	47.980 in				
0 to 3120" Error		±(3.6 in)	3116.400	3123.600	3118.599 in				
3120 to 3168"	48.000in	±(3.6 in)	44.400	51.600	47.948 in				
0 to 3168" Error		±(3.6 in)	3164.400	3171.600	3166.547 in				
3168 to 3216"	48.000in	±(3.6 in)	44.400	51.600	48.012 in				
0 to 3216" Error		±(3.6 in)	3212.400	3219.600	3214.559 in				
3216 to 3264"	48.000in	±(3.6 in)	44.400	51.600	47.975 in				
0 to 3264" Error		±(3.6 in)	3260.400	3267.600	3262.534 in				
3264 to 3312"	48.000in	±(3.6 in)	44.400	51.600	47.949 in				
0 to 3312" Error		±(3.6 in)	3308.400	3315.600	3310.483 in				
3312 to 3360"	48.000in	±(3.6 in)	44.400	51.600	48.016 in				
0 to 3360" Error		±(3.6 in)	3356.400	3363.600	3358.499 in				
3360 to 3408"	48.000in	±(3.6 in)	44.400	51.600	47.972 in				
0 to 3408" Error		±(3.6 in)	3404.400	3411.600	3406.471 in				
3408 to 3456"	48.000in	±(3.6 in)	44.400	51.600	47.954 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 3456" Error		±(3.6 in)	3452.400	3459.600	3454.425 in				
3456 to 3504"	48.000in	±(3.6 in)	44.400	51.600	48.001 in				
0 to 3504" Error		±(3.6 in)	3500.400	3507.600	3502.426 in				
3504 to 3552"	48.000in	±(3.6 in)	44.400	51.600	47.976 in				
0 to 3552" Error		±(3.6 in)	3548.400	3555.600	3550.402 in				
3552 to 3600"	48.000in	±(3.6 in)	44.400	51.600	47.960 in				
0 to 3600" Error		±(3.6 in)	3596.400	3603.600	3598.362 in				
3600 to 3648"	48.000in	±(3.6 in)	44.400	51.600	48.010 in				
0 to 3648" Error		±(3.6 in)	3644.400	3651.600	3646.372 in				
3648 to 3696"	48.000in	±(3.6 in)	44.400	51.600	47.972 in				
0 to 3696" Error		±(3.6 in)	3692.400	3699.600	3694.344 in				
3696 to 3744"	48.000in	±(3.6 in)	44.400	51.600	47.954 in				
0 to 3744" Error		±(3.6 in)	3740.400	3747.600	3742.298 in				
3744 to 3792"	48.000in	±(3.6 in)	44.400	51.600	48.010 in				
0 to 3792" Error		±(3.6 in)	3788.400	3795.600	3790.308 in				
3792 to 3840"	48.000in	±(3.6 in)	44.400	51.600	47.977 in				
0 to 3840" Error		±(3.6 in)	3836.400	3843.600	3838.285 in				
3840 to 3888"	48.000in	±(3.6 in)	44.400	51.600	47.947 in				
0 to 3888" Error		±(3.6 in)	3884.400	3891.600	3886.232 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
3888 to 3936"	48.000in	±(3.6 in)	44.400	51.600	48.010 in				
0 to 3936" Error		±(3.6 in)	3932.400	3939.600	3934.242 in				
3936 to 3984"	48.000in	±(3.6 in)	44.400	51.600	47.974 in				
0 to 3984" Error		±(3.6 in)	3980.400	3987.600	3982.216 in				
3984 to 4032"	48.000in	±(3.6 in)	44.400	51.600	47.955 in				
0 to 4032" Error		±(3.6 in)	4028.400	4035.600	4030.171 in				
4032 to 4080"	48.000in	±(3.6 in)	44.400	51.600	48.012 in				
0 to 4080" Error		±(3.6 in)	4076.400	4083.600	4078.183 in				
4080 to 4128"	48.000in	±(3.6 in)	44.400	51.600	47.968 in				
0 to 4128" Error		±(3.6 in)	4124.400	4131.600	4126.151 in				
4128 to 4176"	48.000in	±(3.6 in)	44.400	51.600	47.956 in				
0 to 4176" Error		±(3.6 in)	4172.400	4179.600	4174.107 in				
4176 to 4224"	48.000in	±(3.6 in)	44.400	51.600	48.008 in				
0 to 4224" Error		±(3.6 in)	4220.400	4227.600	4222.115 in				
4224 to 4272"	48.000in	±(3.6 in)	44.400	51.600	47.975 in				
0 to 4272" Error		±(3.6 in)	4268.400	4275.600	4270.090 in				
4272 to 4320"	48.000in	±(3.6 in)	44.400	51.600	47.954 in				
0 to 4320" Error		±(3.6 in)	4316.400	4323.600	4318.044 in				
4320 to 4368"	48.000in	±(3.6 in)	44.400	51.600	48.013 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

Service Order Nbr: BA8D7-35-1

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TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 4368" Error		±(3.6 in)	4364.400	4371.600	4366.057 in				
4368 to 4416"	48.000in	±(3.6 in)	44.400	51.600	47.976 in				
0 to 4416" Error		±(3.6 in)	4412.400	4419.600	4414.033 in				
4416 to 4464"	48.000in	±(3.6 in)	44.400	51.600	47.948 in				
0 to 4464" Error		±(3.6 in)	4460.400	4467.600	4461.981 in				
4464 to 4512"	48.000in	±(3.6 in)	44.400	51.600	48.023 in				
0 to 4512" Error		±(3.6 in)	4508.400	4515.600	4510.004 in				
4512 to 4560"	48.000in	±(3.6 in)	44.400	51.600	47.963 in				
0 to 4560" Error		±(3.6 in)	4556.400	4563.600	4557.967 in				
4560 to 4608"	48.000in	±(3.6 in)	44.400	51.600	47.956 in				
0 to 4608" Error		±(3.6 in)	4604.400	4611.600	4605.923 in				
4608 to 4656"	48.000in	±(3.6 in)	44.400	51.600	48.007 in				
0 to 4656" Error		±(3.6 in)	4652.400	4659.600	4653.930 in				
4656 to 4704"	48.000in	±(3.6 in)	44.400	51.600	47.981 in				
0 to 4704" Error		±(3.6 in)	4700.400	4707.600	4701.911 in				
4704 to 4752"	48.000in	±(4.8 in)	43.200	52.800	47.953 in				
0 to 4752" Error		±(4.8 in)	4747.200	4756.800	4749.864 in				
4752 to 4800	48.000in	±(4.8 in)	43.200	52.800	48.014 in				
0 to 4800" Error		±(4.8 in)	4795.200	4804.800	4797.878 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

Service Order Nbr: BA8D7-35-1

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TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
4800 to 4848"	48.000in	±(4.8 in)	43.200	52.800	47.967 in				
0 to 4848" Error		±(4.8 in)	4843.200	4852.800	4845.845 in				
4848 to 4896"	48.000in	±(4.8 in)	43.200	52.800	47.958 in				
0 to 4896" Error		±(4.8 in)	4891.200	4900.800	4893.803 in				
4896 to 4944"	48.000in	±(4.8 in)	43.200	52.800	48.008 in				
0 to 4944" Error		±(4.8 in)	4939.200	4948.800	4941.811 in				
4944 to 4992"	48.000in	±(4.8 in)	43.200	52.800	47.975 in				
0 to 4992" Error		±(4.8 in)	4987.200	4996.800	4989.786 in				
4992 to 5040"	48.000in	±(4.8 in)	43.200	52.800	47.955 in				
0 to 5040" Error		±(4.8 in)	5035.200	5044.800	5037.741 in				
5040 to 5088"	48.000in	±(4.8 in)	43.200	52.800	48.015 in				
0 to 5088" Error		±(4.8 in)	5083.200	5092.800	5085.756 in				
5088 to 5136"	48.000in	±(4.8 in)	43.200	52.800	47.970 in				
0 to 5136" Error		±(4.8 in)	5131.200	5140.800	5133.726 in				
5136 to 5184"	48.000in	±(4.8 in)	43.200	52.800	47.951 in				
0 to 5184" Error		±(4.8 in)	5179.200	5188.800	5181.677 in				
5184 to 5232"	48.000in	±(4.8 in)	43.200	52.800	48.012 in				
0 to 5232" Error		±(4.8 in)	5227.200	5236.800	5229.689 in				
5232 to 5280"	48.000in	±(4.8 in)	43.200	52.800	47.977 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

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TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 5280" Error		±(4.8 in)	5275.200	5284.800	5277.666 in				
5280 to 5328"	48.000in	±(4.8 in)	43.200	52.800	47.954 in				
0 to 5328" Error		±(4.8 in)	5323.200	5332.800	5325.620 in				
5328 to 5376"	48.000in	±(4.8 in)	43.200	52.800	48.000 in				
0 to 5376" Error		±(4.8 in)	5371.200	5380.800	5373.620 in				
5376 to 5424"	48.000in	±(4.8 in)	43.200	52.800	47.981 in				
0 to 5424" Error		±(4.8 in)	5419.200	5428.800	5421.601 in				
5424 to 5472"	48.000in	±(4.8 in)	43.200	52.800	47.954 in				
0 to 5472" Error		±(4.8 in)	5467.200	5476.800	5469.555 in				
5472 to 5520"	48.000in	±(4.8 in)	43.200	52.800	48.010 in				
0 to 5520" Error		±(4.8 in)	5515.200	5524.800	5517.565 in				
5520 to 5568"	48.000in	±(4.8 in)	43.200	52.800	47.970 in				
0 to 5568" Error		±(4.8 in)	5563.200	5572.800	5565.535 in				
5568 to 5616"	48.000in	±(4.8 in)	43.200	52.800	47.954 in				
0 to 5616" Error		±(4.8 in)	5611.200	5620.800	5613.489 in				
5616 to 5664"	48.000in	±(4.8 in)	43.200	52.800	48.015 in				
0 to 5664" Error		±(4.8 in)	5659.200	5668.800	5661.504 in				
5664 to 5712"	48.000in	±(4.8 in)	43.200	52.800	47.970 in				
0 to 5712" Error		±(4.8 in)	5707.200	5716.800	5709.474 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
5712 to 5760"	48.000in	±(4.8 in)	43.200	52.800	47.955 in				
0 to 5760" Error		±(4.8 in)	5755.200	5764.800	5757.429 in				
5760 to 5808"	48.000in	±(4.8 in)	43.200	52.800	48.012 in				
0 to 5808" Error		±(4.8 in)	5803.200	5812.800	5805.441 in				
5808 to 5856"	48.000in	±(4.8 in)	43.200	52.800	47.975 in				
0 to 5856" Error		±(4.8 in)	5851.200	5860.800	5853.416 in				
5856 to 5904"	48.000in	±(4.8 in)	43.200	52.800	47.946 in				
0 to 5904" Error		±(4.8 in)	5899.200	5908.800	5901.362 in				
5904 to 5952"	48.000in	±(4.8 in)	43.200	52.800	48.015 in				
0 to 5952" Error		±(4.8 in)	5947.200	5956.800	5949.377 in				
5952 to 6000"	48.000in	±(4.8 in)	43.200	52.800	47.978 in				
0 to 6000" Error		±(4.8 in)	5995.200	6004.800	5997.355 in				
6000 to 6048"	48.000in	±(4.8 in)	43.200	52.800	47.945 in				
0 to 6048" Error		±(4.8 in)	6043.200	6052.800	6045.300 in				
6048 to 6096"	48.000in	±(4.8 in)	43.200	52.800	48.014 in				
0 to 6096" Error		±(4.8 in)	6091.200	6100.800	6093.314 in				
6096 to 6144"	48.000in	±(4.8 in)	43.200	52.800	47.968 in				
0 to 6144" Error		±(4.8 in)	6139.200	6148.800	6141.282 in				
6144 to 6192"	48.000in	±(4.8 in)	43.200	52.800	47.965 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 6192" Error		±(4.8 in)	6187.200	6196.800	6189.247 in				
6192 to 6240"	48.000in	±(4.8 in)	43.200	52.800	48.002 in				
0 to 6240" Error		±(4.8 in)	6235.200	6244.800	6237.249 in				
6240 to 6288"	48.000in	±(4.8 in)	43.200	52.800	47.977 in				
0 to 6288" Error		±(4.8 in)	6283.200	6292.800	6285.226 in				
6288 to 6336"	48.000in	±(4.8 in)	43.200	52.800	47.953 in				
0 to 6336" Error		±(4.8 in)	6331.200	6340.800	6333.179 in				
6336 to 6384"	48.000in	±(4.8 in)	43.200	52.800	48.012 in				
0 to 6384" Error		±(4.8 in)	6379.200	6388.800	6381.191 in				
6384 to 6432"	48.000in	±(4.8 in)	43.200	52.800	47.975 in				
0 to 6432" Error		±(4.8 in)	6427.200	6436.800	6429.166 in				
6432 to 6480"	48.000in	±(4.8 in)	43.200	52.800	47.949 in				
0 to 6480" Error		±(4.8 in)	6475.200	6484.800	6477.115 in				
6480 to 6528"	48.000in	±(4.8 in)	43.200	52.800	48.017 in				
0 to 6528" Error		±(4.8 in)	6523.200	6532.800	6525.132 in				
6528 to 6576"	48.000in	±(4.8 in)	43.200	52.800	47.973 in				
0 to 6576" Error		±(4.8 in)	6571.200	6580.800	6573.105 in				
6576 to 6624"	48.000in	±(4.8 in)	43.200	52.800	47.952 in				
0 to 6624" Error		±(4.8 in)	6619.200	6628.800	6621.057 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
6624 to 6672"	48.000in	±(4.8 in)	43.200	52.800	48.010 in				
0 to 6672" Error		±(4.8 in)	6667.200	6676.800	6669.067 in				
6672 to 6720"	48.000in	±(4.8 in)	43.200	52.800	47.974 in				
0 to 6720" Error		±(4.8 in)	6715.200	6724.800	6717.041 in				
6720 to 6768"	48.000in	±(4.8 in)	43.200	52.800	47.959 in				
0 to 6768" Error		±(4.8 in)	6763.200	6772.800	6765.000 in				
6768 to 6816"	48.000in	±(4.8 in)	43.200	52.800	48.009 in				
0 to 6816" Error		±(4.8 in)	6811.200	6820.800	6813.009 in				
6816 to 6864"	48.000in	±(4.8 in)	43.200	52.800	47.973 in				
0 to 6864" Error		±(4.8 in)	6859.200	6868.800	6860.982 in				
6864 to 6912"	48.000in	±(4.8 in)	43.200	52.800	47.956 in				
0 to 6912" Error		±(4.8 in)	6907.200	6916.800	6908.938 in				
6912 to 6960"	48.000in	±(4.8 in)	43.200	52.800	48.008 in				
0 to 6960" Error		±(4.8 in)	6955.200	6964.800	6956.946 in				
6960 to 7008"	48.000in	±(4.8 in)	43.200	52.800	47.978 in				
0 to 7008" Error		±(4.8 in)	7003.200	7012.800	7004.924 in				
7008 to 7056"	48.000in	±(4.8 in)	43.200	52.800	47.951 in				
0 to 7056" Error		±(4.8 in)	7051.200	7060.800	7052.875 in				
7056 to 7104"	48.000in	±(4.8 in)	43.200	52.800	48.015 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

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TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 7104" Error		±(4.8 in)	7099.200	7108.800	7100.890 in				
7104 to 7152"	48.000in	±(4.8 in)	43.200	52.800	47.973 in				
0 to 7152" Error		±(4.8 in)	7147.200	7156.800	7148.863 in				
7152 to 7200"	48.000in	±(4.8 in)	43.200	52.800	47.949 in				
0 to 7200" Error		±(4.8 in)	7195.200	7204.800	7196.812 in				
7200 to 7248"	48.000in	±(4.8 in)	43.200	52.800	48.013 in				
0 to 7248" Error		±(4.8 in)	7243.200	7252.800	7244.825 in				
7248 to 7296"	48.000in	±(4.8 in)	43.200	52.800	47.971 in				
0 to 7296" Error		±(4.8 in)	7291.200	7300.800	7292.796 in				
7296 to 7344"	48.000in	±(4.8 in)	43.200	52.800	47.962 in				
0 to 7344" Error		±(4.8 in)	7339.200	7348.800	7340.758 in				
7344 to 7392"	48.000in	±(4.8 in)	43.200	52.800	48.008 in				
0 to 7392" Error		±(4.8 in)	7387.200	7396.800	7388.766 in				
7392 to 7440"	48.000in	±(4.8 in)	43.200	52.800	47.978 in				
0 to 7440" Error		±(4.8 in)	7435.200	7444.800	7436.744 in				
7440 to 7488"	48.000in	±(4.8 in)	43.200	52.800	47.952 in				
0 to 7488" Error		±(4.8 in)	7483.200	7492.800	7484.696 in				
7488 to 7536"	48.000in	±(4.8 in)	43.200	52.800	48.013 in				
0 to 7536" Error		±(4.8 in)	7531.200	7540.800	7532.709 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

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TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
7536 to 7584"	48.000in	±(4.8 in)	43.200	52.800	47.974 in				
0 to 7584" Error		±(4.8 in)	7579.200	7588.800	7580.683 in				
7584 to 7632"	48.000in	±(4.8 in)	43.200	52.800	47.948 in				
0 to 7632" Error		±(4.8 in)	7627.200	7636.800	7628.631 in				
7632 to 7680"	48.000in	±(4.8 in)	43.200	52.800	48.019 in				
0 to 7680" Error		±(4.8 in)	7675.200	7684.800	7676.650 in				
7680 to 7728"	48.000in	±(4.8 in)	43.200	52.800	47.970 in				
0 to 7728" Error		±(4.8 in)	7723.200	7732.800	7724.620 in				
7728 to 7776"	48.000in	±(4.8 in)	43.200	52.800	47.954 in				
0 to 7776" Error		±(4.8 in)	7771.200	7780.800	7772.574 in				
7776 to 7824"	48.000in	±(4.8 in)	43.200	52.800	48.005 in				
0 to 7824" Error		±(4.8 in)	7819.200	7828.800	7820.579 in				
7824 to 7872"	48.000in	±(4.8 in)	43.200	52.800	47.984 in				
0 to 7872" Error		±(4.8 in)	7867.200	7876.800	7868.563 in				
7872 to 7920"	48.000in	±(4.8 in)	43.200	52.800	47.953 in				
0 to 7920" Error		±(4.8 in)	7915.200	7924.800	7916.516 in				
7920 to 7968"	48.000in	±(4.8 in)	43.200	52.800	48.012 in				
0 to 7968" Error		±(4.8 in)	7963.200	7972.800	7964.528 in				
7968 to 8016"	48.000in	±(4.8 in)	43.200	52.800	47.975 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 8016" Error		±(4.8 in)	8011.200	8020.800	8012.503 in				
8016 to 8064"	48.000in	±(4.8 in)	43.200	52.800	47.954 in				
0 to 8064" Error		±(4.8 in)	8059.200	8068.800	8060.457 in				
8064 to 8112"	48.000in	±(4.8 in)	43.200	52.800	48.014 in				
0 to 8112" Error		±(4.8 in)	8107.200	8116.800	8108.471 in				
8112 to 8160"	48.000in	±(4.8 in)	43.200	52.800	47.971 in				
0 to 8160" Error		±(4.8 in)	8155.200	8164.800	8156.442 in				
8160 to 8208"	48.000in	±(4.8 in)	43.200	52.800	47.956 in				
0 to 8208" Error		±(4.8 in)	8203.200	8212.800	8204.398 in				
8208 to 8256"	48.000in	±(4.8 in)	43.200	52.800	48.011 in				
0 to 8256" Error		±(4.8 in)	8251.200	8260.800	8252.409 in				
8256 to 8304"	48.000in	±(4.8 in)	43.200	52.800	47.976 in				
0 to 8304" Error		±(4.8 in)	8299.200	8308.800	8300.385 in				
8304 to 8352"	48.000in	±(4.8 in)	43.200	52.800	47.955 in				
0 to 8352" Error		±(4.8 in)	8347.200	8356.800	8348.340 in				
8352 to 8400"	48.000in	±(4.8 in)	43.200	52.800	48.012 in				
0 to 8400" Error		±(4.8 in)	8395.200	8404.800	8396.352 in				
8400 to 8448"	48.000in	±(4.8 in)	43.200	52.800	47.978 in				
0 to 8448 " Error		±(4.8 in)	8443.200	8452.800	8444.330 in				

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Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
8448 to 8496"	48.000in	±(4.8 in)	43.200	52.800	47.948 in				
0 to 8496" Error		±(4.8 in)	8491.200	8500.800	8492.278 in				
8496 to 8544"	48.000in	±(4.8 in)	43.200	52.800	48.015 in				
0 to 8544" Error		±(4.8 in)	8539.200	8548.800	8540.293 in				
8544 to 8592"	48.000in	±(4.8 in)	43.200	52.800	47.971 in				
0 to 8592" Error		±(4.8 in)	8587.200	8596.800	8588.264 in				
8592 to 8640"	48.000in	±(4.8 in)	43.200	52.800	47.959 in				
0 to 8640" Error		±(4.8 in)	8635.200	8644.800	8636.223 in				
8640 to 8688"	48.000in	±(4.8 in)	43.200	52.800	48.006 in				
0 to 8688" Error		±(4.8 in)	8683.200	8692.800	8684.229 in				
8688 to 8736"	48.000in	±(4.8 in)	43.200	52.800	47.972 in				
0 to 8736" Error		±(4.8 in)	8731.200	8740.800	8732.201 in				
8736 to 8784"	48.000in	±(4.8 in)	43.200	52.800	47.954 in				
0 to 8784" Error		±(4.8 in)	8779.200	8788.800	8780.155 in				
8784 to 8832"	48.000in	±(4.8 in)	43.200	52.800	48.015 in				
0 to 8832" Error		±(4.8 in)	8827.200	8836.800	8828.170 in				
8832 to 8880"	48.000in	±(4.8 in)	43.200	52.800	47.971 in				
0 to 8880" Error		±(4.8 in)	8875.200	8884.800	8876.141 in				
8880 to 8928"	48.000in	±(4.8 in)	43.200	52.800	47.957 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 8928" Error		±(4.8 in)	8923.200	8932.800	8924.098 in				
8928 to 8976"	48.000in	±(4.8 in)	43.200	52.800	48.017 in				
0 to 8976" Error		±(4.8 in)	8971.200	8980.800	8972.115 in				
8976 to 9024"	48.000in	±(6.0 in)	42.000	54.000	47.971 in				
0 to 9024" Error		±(6 in)	9018.000	9030.000	9020.086 in				
9024 to 9072"	48.000in	±(6 in)	42.000	54.000	47.946 in				
0 to 9072" Error		±(6 in)	9066.000	9078.000	9068.057 in				
9072 to 9120"	48.000in	±(6 in)	42.000	54.000	48.017 in				
0 to 9120" Error		±(6 in)	9114.000	9126.000	9116.074 in				
9120 to 9168"	48.000in	±(6 in)	42.000	54.000	47.981 in				
0 to 9168" Error		±(6 in)	9162.000	9174.000	9164.055 in				
9168 to 9216"	48.000in	±(6 in)	42.000	54.000	47.947 in				
0 to 9216" Error		±(6 in)	9210.000	9222.000	9212.002 in				
9216 to 9264"	48.000in	±(6 in)	42.000	54.000	48.015 in				
0 to 9264" Error		±(6 in)	9258.000	9270.000	9260.017 in				
9264 to 9312"	48.000in	±(6 in)	42.000	54.000	47.969 in				
0 to 9312" Error		±(6 in)	9306.000	9318.000	9307.986 in				
9312 to 9360"	48.000in	±(6 in)	42.000	54.000	47.962 in				
0 to 9360" Error		±(6 in)	9354.000	9366.000	9355.948 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
9360 to 9408"	48.000in	±(6 in)	42.000	54.000	48.007 in				
0 to 9408" Error		±(6 in)	9402.000	9414.000	9403.955 in				
9408 to 9456"	48.000in	±(6 in)	42.000	54.000	47.975 in				
0 to 9456" Error		±(6 in)	9450.000	9462.000	9451.930 in				
9456 to 9504"	48.000in	±(6 in)	42.000	54.000	47.953 in				
0 to 9504" Error		±(6 in)	9498.000	9510.000	9499.883 in				
9504 to 9552"	48.000in	±(6 in)	42.000	54.000	48.010 in				
0 to 9552" Error		±(6 in)	9546.000	9558.000	9547.893 in				
9552 to 9600"	48.000in	±(6 in)	42.000	54.000	47.978 in				
0 to 9600" Error		±(6 in)	9594.000	9606.000	9595.871 in				
9600 to 9648"	48.000in	±(6 in)	42.000	54.000	47.948 in				
0 to 9648" Error		±(6 in)	9642.000	9654.000	9643.819 in				
9648 to 9696"	48.000in	±(6 in)	42.000	54.000	48.020 in				
0 to 9696" Error		±(6 in)	9690.000	9702.000	9691.839 in				
9696 to 9744"	48.000in	±(6 in)	42.000	54.000	47.968 in				
0 to 9744" Error		±(6 in)	9738.000	9750.000	9739.807 in				
9744 to 9792"	48.000in	±(6 in)	42.000	54.000	47.952 in				
0 to 9792" Error		±(6 in)	9786.000	9798.000	9787.759 in				
9792 to 9840"	48.000in	±(6 in)	42.000	54.000	48.011 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

Service Order Nbr: BA8D7-35-1

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 9840" Error		±(6 in)	9834.000	9846.000	9835.770 in				
9840 to 9888"	48.000in	±(6 in)	42.000	54.000	47.976 in				
0 to 9888" Error		±(6 in)	9882.000	9894.000	9883.746 in				
9888 to 9936"	48.000in	±(6 in)	42.000	54.000	47.960 in				
0 to 9936" Error		±(6 in)	9930.000	9942.000	9931.706 in				
9936 to 9984"	48.000in	±(6 in)	42.000	54.000	48.003 in				
0 to 9984" Error		±(6 in)	9978.000	9990.000	9979.709 in				
9984 to 10032	48.000in	±(6 in)	42.000	54.000	47.977 in				
0 to 10032" Error		±(6 in)	10026.000	10038.000	10027.686 in				
10032 to 10080"	48.000in	±(6 in)	42.000	54.000	47.950 in				
0 to 10080" Error		±(6 in)	10074.000	10086.000	10075.636 in				
10080 to 10128"	48.000in	±(6 in)	42.000	54.000	48.011 in				
0 to 10128" Error		±(6 in)	10122.000	10134.000	10123.647 in				
10128 to 10176"	48.000in	±(6 in)	42.000	54.000	47.971 in				
0 to 10176" Error		±(6 in)	10170.000	10182.000	10171.618 in				
10176 to 10224"	48.000in	±(6 in)	42.000	54.000	47.956 in				
0 to 10224" Error		±(6 in)	10218.000	10230.000	10219.574 in				
10224 to 10272"	48.000in	±(6 in)	42.000	54.000	48.010 in				
0 to 10272" Error		±(6 in)	10266.000	10278.000	10267.584 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

Service Order Nbr: BA8D7-35-1

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
10272 to 10320"	48.000in	±(6 in)	42.000	54.000	47.974 in				
0 to 10320" Error		±(6 in)	10314.000	10326.000	10315.558 in				
10320 to 10368"	48.000in	±(6 in)	42.000	54.000	47.951 in				
0 to 10368" Error		±(6 in)	10362.000	10374.000	10363.509 in				
10368 to 10416"	48.000in	±(6 in)	42.000	54.000	48.016 in				
0 to 10416" Error		±(6 in)	10410.000	10422.000	10411.525 in				
10416 to 10464"	48.000in	±(6 in)	42.000	54.000	47.972 in				
0 to 10464" Error		±(6 in)	10458.000	10470.000	10459.497 in				
10464 to 10512"	48.000in	±(6 in)	42.000	54.000	47.956 in				
0 to 10512" Error		±(6 in)	10506.000	10518.000	10507.453 in				
10512 to 10560"	48.000in	±(6 in)	42.000	54.000	47.998 in				
0 to 10560" Error		±(6 in)	10554.000	10566.000	10555.451 in				
10560 to 10608"	48.000in	±(6 in)	42.000	54.000	47.979 in				
0 to 10608" Error		±(6 in)	10602.000	10614.000	10603.430 in				
10608 to 10656"	48.000in	±(6 in)	42.000	54.000	47.955 in				
0 to 10656" Error		±(6 in)	10650.000	10662.000	10651.385 in				
10656 to 10704"	48.000in	±(6 in)	42.000	54.000	48.010 in				
0 to 10704" Error		±(6 in)	10698.000	10710.000	10699.395 in				
10704 to 10752"	48.000in	±(6 in)	42.000	54.000	47.974 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 10752" Error		±(6 in)	10746.000	10758.000	10747.369 in				
10752 to 10800"	48.000in	±(6 in)	42.000	54.000	47.941 in				
0 to 10800" Error		±(6 in)	10794.000	10806.000	10795.310 in				
10800 to 10848"	48.000in	±(6 in)	42.000	54.000	48.014 in				
0 to 10848" Error		±(6 in)	10842.000	10854.000	10843.324 in				
10848 to 10896"	48.000in	±(6 in)	42.000	54.000	47.966 in				
0 to 10896" Error		±(6 in)	10890.000	10902.000	10891.290 in				
10896 to 10944"	48.000in	±(6 in)	42.000	54.000	47.958 in				
0 to 10944" Error		±(6 in)	10938.000	10950.000	10939.248 in				
10944 to 10992"	48.000in	±(6 in)	42.000	54.000	48.012 in				
0 to 10992" Error		±(6 in)	10986.000	10998.000	10987.260 in				
10992 to 11040"	48.000in	±(6 in)	42.000	54.000	47.970 in				
0 to 11040" Error		±(6 in)	11034.000	11046.000	11035.230 in				
11040 to 11088"	48.000in	±(6 in)	42.000	54.000	47.949 in				
0 to 11088" Error		±(6 in)	11082.000	11094.000	11083.179 in				
11088 to 11136"	48.000in	±(6 in)	42.000	54.000	48.011 in				
0 to 1136" Error		±(6 in)	11130.000	11142.000	11131.190 in				
11136 to 11184"	48.000in	±(6 in)	42.000	54.000	47.978 in				
0 to 11184" Error		±(6 in)	11178.000	11190.000	11179.168 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

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Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
11184 to 11232"	48.000in	±(6 in)	42.000	54.000	47.951 in				
0 to 11232" Error		±(6 in)	11226.000	11238.000	11227.119 in				
11232 to 11280"	48.000in	±(6 in)	42.000	54.000	48.017 in				
0 to 11280" Error		±(6 in)	11274.000	11286.000	11275.136 in				
11280 to 11328"	48.000in	±(6 in)	42.000	54.000	47.968 in				
0 to 11328" Error		±(6 in)	11322.000	11334.000	11323.104 in				
11328 to 11376"	48.000in	±(6 in)	42.000	54.000	47.955 in				
0 to 11376" Error		±(6 in)	11370.000	11382.000	11371.059 in				
11376 to 11424"	48.000in	±(6 in)	42.000	54.000	48.013 in				
0 to 11424" Error		±(6 in)	11418.000	11430.000	11419.072 in				
11424 to 11472"	48.000in	±(6 in)	42.000	54.000	47.971 in				
0 to 11472" Error		±(6 in)	11466.000	11478.000	11467.043 in				
11472 to 11520"	48.000in	±(6 in)	42.000	54.000	47.955 in				
0 to 11520" Error		±(6 in)	11514.000	11526.000	11514.998 in				
11520 to 11568"	48.000in	±(6 in)	42.000	54.000	48.008 in				
0 to 11568" Error		±(6 in)	11562.000	11574.000	11563.006 in				
11568 to 11616"	48.000in	±(6 in)	42.000	54.000	47.977 in				
0 to 11616" Error		±(6 in)	11610.000	11622.000	11610.983 in				
11616 to 11664"	48.000in	±(6 in)	42.000	54.000	47.945 in				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

Service Order Nbr: BA8D7-35-1

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR
0 to 11664" Error		±(6 in)	11658.000	11670.000	11658.928 in				
11664 to 11712"	48.000in	±(6 in)	42.000	54.000	48.023 in				
0 to 11712" Error		±(6 in)	11706.000	11718.000	11706.951 in				
11712 to 11760"	48.000in	±(6 in)	42.000	54.000	47.967 in				
0 to 11760" Error		±(6 in)	11754.000	11766.000	11754.918 in				
11760 to 11808"	48.000in	±(6 in)	42.000	54.000	47.955 in				
0 to 11808" Error		±(6 in)	11802.000	11814.000	11802.873 in				
11808 to 11856"	48.000in	±(6 in)	42.000	54.000	48.009 in				
0 to 11856" Error		±(6 in)	11850.000	11862.000	11850.882 in				
11856 to 11904"	48.000in	±(6 in)	42.000	54.000	47.976 in				
0 to 11904" Error		±(6 in)	11898.000	11910.000	11898.858 in				
11904 to 11952"	48.000in	±(6 in)	42.000	54.000	47.952 in				
0 to 11952" Error		±(6 in)	11946.000	11958.000	11946.810 in				
11952 to 12000	48.000in	±(6 in)	42.000	54.000	48.000 in				
0 to 12000" Error		±(6 in)	11994.000	12006.000	11994.810 in				

As Found and As Left Data recorded on 07/19/2011

Temperature: 68.5°F / 20.3°C Relative Humidity: 49% Temp/RH Asset: 3026

Asset	Manufacturer	Model	Description	Cal Date	Due Date	Traceability Numbers
3048	Acu-Gage	AG48-1-SM11	Coordinate Measuring Machine - Single Axis	5/2/2011	5/31/2012	1-&3048-2011-1

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

INFORMATION ONLY

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR BA8D7-35-1

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)	PCS %	TUR

Remarks:

The unit was found out of tolerance to manufacture specifications, used customer supplied tolerances. Limitations per Richard Jimenez, 575-234-8210.

INFORMATION ONLY

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Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

6. Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachments E, L, N, N1, and O. Radiological instruments are not considered demonstration of permit compliance.

   6.a Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment E.

   6.b Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment L.

   6.c Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N [23 pages].

   6.d Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N1.

   6.e Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment O.

Shaw Environmental & Infrastructure, Inc.

5050 Section Avenue
Cincinnati, OH 45212-2025
513.782.4700
Fax: 513.782.4807

Shaw® Shaw Environmental & Infrastructure, Inc.

December 10, 2012

Job No. 146438
Purchase Order No. 414527

Mr. Wesley Boatwright
Washington TRU Solutions, LLC
Waste Isolation Pilot Plant (WIPP)
JAL Highway 31 Miles S.E. of Carlsbad
Carlsbad, NM 88220

Sampler No. 0706-05 Certification Report

Dear Wes:

Attached is the sampler certification report including the physical checkout, RCRA inspection form, gauge and mass flow controller calibrations, a copy of the sampler log book, and the summary spreadsheet for the VOC sampler, Serial No. 0706-05.

If you have any questions, please call me at (513) 782-4654.

Sincerely,

Shaw Environmental, Inc.

Ginger Britt

Ginger Britt
Project Manager

cc: G. Thress

Shaw Environmental & Infrastructure, Inc.

5050 Section Avenue
Cincinnati, OH 45212-2025
513.782.4700
Fax: 513.782.4807

Shaw® Shaw Environmental & Infrastructure, Inc.

November 12, 2012

Shaw Job No. 146438

Mr. Wesley Boatwright
Westinghouse Electric Corporation
Waste Isolation Pilot Plant (WIPP)
JAL Highway 31 Miles S.E. of Carlsbad
Carlsbad, NM 88220

Sampler 0706-05 Data Validation Confirmation Request

Dear Wes:

The cleaning and certification process is complete for Sampler 0706-05. The following Carlsbad Environmental Monitoring Research Center (CEMRC) data packages 101512_003 and 110512_001 pertaining to this sampler must be validated before they can be included in the certification report. Please send me confirmation of your validation of the analytical data packages, so that I can complete the certification report and ship the sampler to the WIPP.

Please call me at (513) 782-4654 with any questions or comments.

Best Regards,

Shaw Environmental, Inc.
Air Quality Services

Ginger Britt

Ginger Britt
Project Manager

cc: G. Thress

NWP
Nuclear Waste Partnership LLC
A URS-led partnership with B&W and AREVA

RES:12:832
UFC:5400.0

November 26, 2012

Ms. Ginger Britt
Shaw Group
Air Quality Services
5050 Section Avenue
Cincinnati, OH 45246

Subject: DATA VALIDATION CONFIRMATION FOR CERTIFICATION OF SAMPLER

Dear Ms. Britt:

The analytical data contained in Work Orders 101512-003 and 110512-001 (for Sampler number 0706-05), have been processed in accordance with the Volatile Organic Compound Monitoring Laboratory Data Review and Validation Procedure. This authorizes the Shaw Group Air Quality Services to complete the certification report.

If you have any questions or comments pertaining to this contract requirement, please contact Wes Boatwright at (575) 234-8815.

Sincerely,

R. A. Salness, Manager
Environmental Monitoring & Hydrology

WLB:hdm

P.O. Box 2078 • Carlsbad, New Mexico USA 88221-2078
Phone: (575) 234-7200 • Fax: (575) 234-7083

SAMPLER CERTIFICATION REPORT

VOC Sampler Certification

Sampler Serial No. 0706-05

Zero Air Certification	**ppbv**
1. 1,1-Dichloroethene	0.0
2. Methylene Chloride	0.0
3. Chloroform	0.0
4. 1,1,1-Trichloroethane	0.0
5. Carbon Tetrachloride	~~0.0~~ 0.06 1/16/13
6. 1,2-Dichloroethane	0.0
7. Toluene	0.0
8. Chlorobenzene	0.0
9. 1,1,2,2-Tetrachloroethane	0.0

Cal Standard Certification	**Percentage Recovery**
1. 1,1-Dichloroethene	107.4
2. Methylene Chloride	100.4
3. Chloroform	100.7
4. 1,1,1-Trichloroethane	103.0
5. Carbon Tetrachloride	104.6
6. 1,2-Dichloroethane	101.5
7. Toluene	104.2
8. Chlorobenzene	103.4
9. 1,1,2,2-Tetrachloroethane	102.9

Certification Date 9/6/12 By Ginger Britt

Sampler put into service on 2/18/13 By D. Garcia

Recertification Date 2/17/14

Task Manager, VOC Monitoring

WIPP

Shaw Shaw Environmental, Inc.

RCRA INSPECTION FORM

RCRA INSPECTION FORM FOR VOC SAMPLERS

SAMPLER SERIAL NO. 0706-05

PART I:

Inspector: G Thress

Date & Time: 8/9/12 1330

Location: Shaw E&I Cincinnati, OH

(PLEASE PRINT)

Observations upon Receipt: Good - All ports Capped & plugged

Gauge Calibration: (Attach Data Sheets)

Performed: YES ✓ NO _____

Comments: _____

Leak Check/ Date: 9/7/12

Initial Pressure 20 psig

Final Pressure 20 psig

Physical Checkout/ Date: 9/10/12

Initial Sample Flow 29.0 sccm

Final Sample Flow 29.0 sccm

Initial Bleed Air Flow 2750 sccm

Final Bleed Air Flow 2725 sccm

Sampler Operating Properly: YES ✓ NO _____

Comments: _____

Date and nature of any repairs and other remedial actions: None

Condition upon shipment: Good

Date of shipment: 12-19-12

Inspector's signature: [signature]

Sampler 070605

PART II: (To be completed at WIPP)

Inspector: RB STAFFEL JR

Date & Time: JAN 11, 2013

Location: WIPP WAREHOUSE

Comments upon inspection of sampler: Ports Capped; No Shipping Damage; Chain of Custody Tape, Unbroken Till Opened in My Presence; C.of C. Verified; RB Staffel JAN 11, 2013 #706-05

Corrective actions taken: None

Sampler stored and Chain of Custody initiated: YES _____ ~~NO~~ _____

Signature: N/A

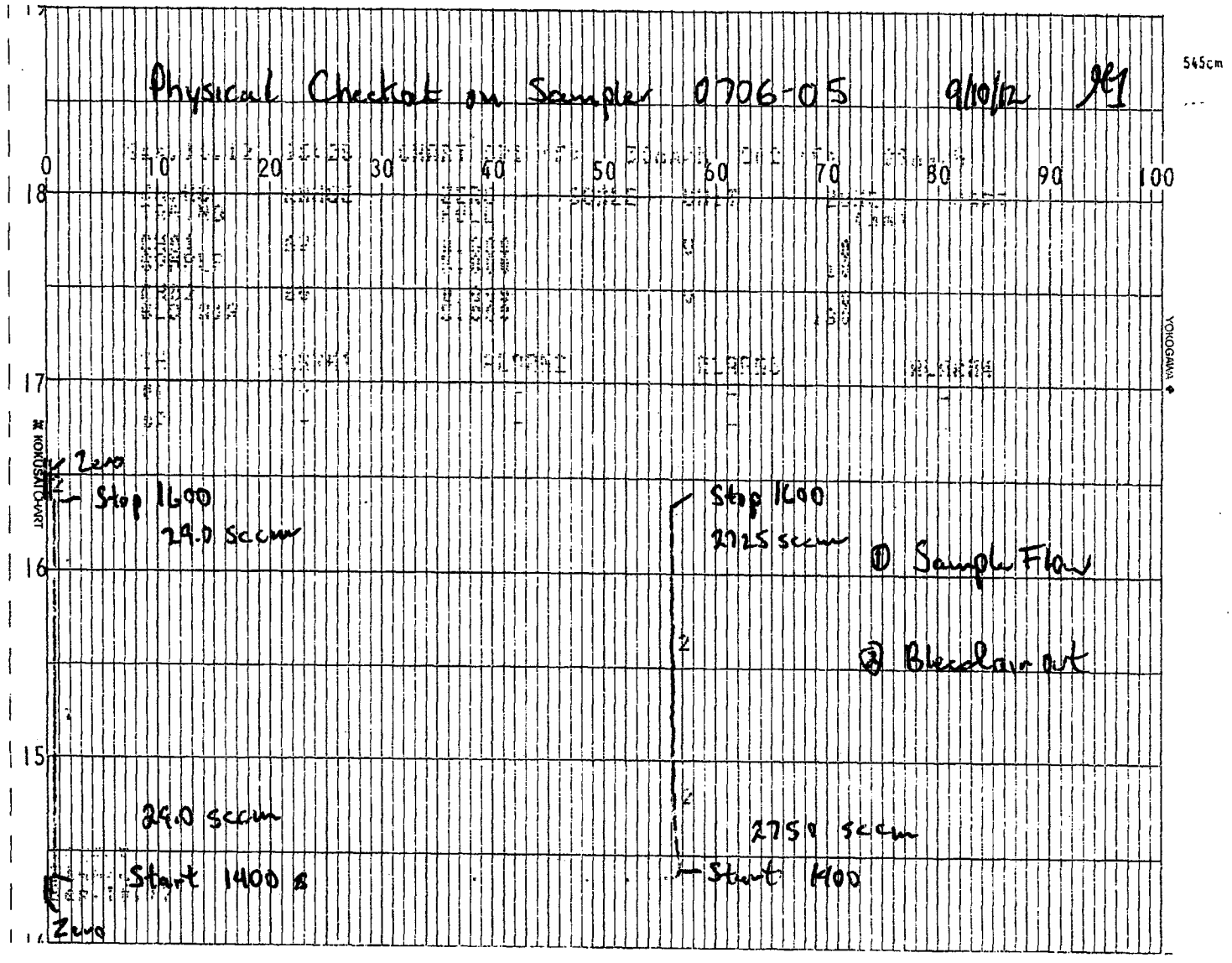
Date & Time:

No longer required. [signature] 1/16/13

Reviewed and validated by VOC Monitoring Program personnel.

[signature] (SIGNATURE) 1/16/13 (DATE)

PHYSICAL CHECKOUT


Physical Checkout on Sampler 0706-05 9/10/12
0
10
20
30
40
50
60
70
80
90
100
18
17
16
15
Zero
Stop 1600
29.0 sccm
Stop 1600
2725 sccm
① Sample Flow
② Bleed air out
29.0 sccm
2759 sccm
Start 1400
Start 1400
Zero
545cm
YOKOGAWA
KOKUSAI CHART

GAUGE AND FLOWMETER CALIBRATIONS

Shaw Environmental, Inc.
5050 Section Ave
Cincinnati, OH 45212

CALIBRATION REPORT

DATE CALIBRATED 9/6/2012

SUBMITTING ACTIVITY	CALIBRATIONS	**REASON FOR SUBMISSION**	
BUILDING LOCATION	Cincinnati, Ohio	CALIBRATION	X
TEST INSTRUMENT	GAUGES	OPERATIONAL FAILURE	
TYPE	SPAN	MODIFICATION	
MODEL NUMBER	109	DATE OF LAST SERVICING	9/6/2012
SERIAL NUMBER	0706-05	RECALL PERIOD (MONTHS)	12 / date of services

CALIBRATION: FULL X LIMITED
RANGES (LIMITED)

CALIBRATION LOCATION
FACILITY
INSTRUMENT SHOP CAL. LAB X

TEMPERATURE 69 Deg. F
RELATIVE HUMIDITY 45%
BAROMETRIC PRESSURE (UNCORRECTED) 29.40

TEST INSTRUMENT FOUND:
WITHIN ACCEPTABLE TOLERANCE X
OUTSIDE ACCEPTABLE TOLERANCE
TOLERANCE UNDETERMINABLE DUE TO :
PHYSICAL CONDITION AS RECEIVED

TEST INSTRUMENT RETURNED:
WITHIN ACCEPTABLE TOLERANCE X
WITH LIMITED CALIBRATION
(RANGES MARKED ON LIST)

CALIBRATION PROCEDURE
MANUFACTURER'S
CL PROCEDURE X
ITAQS SOP'S 35 and 36

NIST TRACEABLE EQUIPMENT USED

CL NO.	MANUFACTURER	MODEL NO.	RECALL DATE
01688	ASHCROFT	0-60 PSIG (APPLIED)	12/21/2012
063583	ASHCROFT	0-30 Hg " (VACUUM)	12/11/2012

Shaw Environmental certifies that the listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology (NIST).

This Calibration Report shall not be reproduced except in full, without the written approval of the calibration organization issuing this report.

Shaw Environmental, Inc.
5050 Section Ave.
Cincinnati, OH 45212

CALIBRATION RECORD

EQUIPMENT NO.	DATE	PAGE OF	
0706-05	09/06/12	2 2	
EQUIPMENT DESIGNATION	**MODEL NO. / TYPE**	**SERIAL NUMBER**	
Gauges	109	0706-05	
TYPE	**CUSTODIAN**	**CALIBRATED BY:**	**DATE CALIBRATED**
Span	WIPP / DOE	G. Thress	9/6/2012

STEP	FUNCTION	APPLIED VALUE		ACCEPTED TOLERANCE	MEASURED VALUES	
					AS FOUND	AS LEFT
	COMPOUND GAUGE (APPLIED PRESSURE)	0.0		0	0.0	0.0
		3.0		2.0-4.0	3.2	3.2
		9.0		8.0-10.0	9.2	9.2
		15.0		14.0-16.0	15.0	15.0
		21.0		20.0-22.0	21.0	21.0
		27.0		26.0-28.0	27.0	27.0
	COMPOUND GAUGE (VACUUM)	0.0		0	0.0	0.0
		3.0		2.0-4.0	3.0	3.0
		9.0		8.0-10.0	9.0	9.0
		15.0		14.0-16.0	14.8	14.8
		21.0		20.0-22.0	20.6	20.6
		27.0		26.0-28.0	26.8	26.8
	PUMPHEAD PRESSURE GAUGE	0.0		0	0.0	0.0
		3.0		2.0-4.0	3.2	3.2
		9.0		8.0-10.0	9.6	9.6
		15.0		14.0-16.0	15.6	15.6
		21.0		20.0-22.0	21.6	21.6
		27.0		26.0-28.0	27.4	27.4

CALIBRATION ACTION TAKEN (adjust, repair, replace, none, other) None

REMARKS:

PREPARED BY: G. Thress

SIGNATURE/DATE G. Thress 9/6/12

Shaw Environmental, Inc.
5050 Section Ave.
Cincinnati, OH 45212

CALIBRATION REPORT

DATE CALIBRATED 9/6/2012

SUBMITTING ACTIVITY	CALIBRATIONS	REASON FOR SUBMISSION	
BUILDING LOCATION	Cincinnati, Ohio	CALIBRATION	X
TEST INSTRUMENT	MASS FLOW CONTROLLER	OPERATIONAL FAILURE	
MANUFACTURER	MKS	MODIFICATION	
MODEL NUMBER	1179A01312CS1AV	DATE OF LAST SERVICING	9/6/2012
SERIAL NUMBER	0706-05 021428736	RECALL PERIOD (MONTHS)	12 / date of services

CALIBRATION: FULL X LIMITED
RANGES (LIMITED)

CALIBRATION LOCATION
FACILITY
INSTRUMENT SHOP CAL. LAB X

TEMPERATURE 69 Deg. F
RELATIVE HUMIDITY 45%
BAROMETRIC PRESSURE (UNCORRECTED) 29.40

TEST INSTRUMENT FOUND:
WITHIN ACCEPTABLE TOLERANCE X
OUTSIDE ACCEPTABLE TOLERANCE
TOLERANCE UNDETERMINABLE DUE TO :
PHYSICAL CONDITION AS RECEIVED

TEST INSTRUMENT RETURNED:
WITHIN ACCEPTABLE TOLERANCE X
WITH LIMITED CALIBRATION
(RANGES MARKED ON LIST)

CALIBRATION PROCEDURE
MANUFACTURER'S
CL PROCEDURE ITAQS SOP 38 X

NIST TRACEABLE EQUIPMENT USED

CL NO.	MANUFACTURER	MODEL NO.	RECALL DATE
93334 205A	MKS Digital Readout	246B	12/21/2012
0258C1 3292483	MKS Mass Flow Meter	O358C - 00100SV	12/21/2012
3551 5012	FLUKE Digital Volt Meter	77	12/15/2012
4036 1171	FLUKE Digital Volt Meter	77	12/15/2012

Shaw Environmental certifies that the listed instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the National Institute of Standards and Technology (NIST).

This Calibration Report shall not be reproduced except in full, without the written approval of the calibration organization issuing this report.

Shaw Environmental, Inc.
5050 Section Ave.
Cincinnati, OH 45212

CALIBRATION RECORD

EQUIPMENT NO.	DATE	PAGE OF	
0706-05	09/06/12	2 2	
EQUIPMENT DESIGNATION	MODEL NO. / TYPE	SERIAL NUMBER	
Mass Flow Controller	1179A01312CS1AV	021428736	
MANUFACTURER	CUSTODIAN	CALIBRATED BY:	DATE CALIBRATED
MKS	WIPP / DOE	G. Thress	9/6/2012

STEP	FUNCTION	APPLIED VALUE	EXPECTED VALUE	ACCEPTED TOLERANCE	MEASURED VALUES	
					AS FOUND	AS LEFT
		BENCH STAND.	0 - 5 VDC	+ / - 1%	167 DISPLAY	167 DISPLAY
		246 DISPLAY	DVM	FULL SCALE	SCCM	SCCM
		SCCM				
	MASS FLOW					
	CONTROLLER	0.0	0.00	.....	0.0	0.0
	CALIBRATION	100.0	5.00	99.0 - 100.0	100.0	100.0
		80.0	4.00	79.0 - 81.0	80.6	80.6
		60.0	3.00	59.0 - 61.0	60.2	60.2
		40.0	2.000	39.0 - 41.0	39.9	39.9
		20.0	1.000	19.0 - 21.0	20.1	20.1
		10.0	0.500	9.0 - 11.0	10.3	10.3
		5.0	0.250	4.0 - 6.0	5.4	5.4
	OBSERVED		0 - 1 VDC			
	GAUGE FACTOR	0.0	0.000			
	0 - 1 VDC	100.0	1.000			
		80.0	0.800			
		60.0	0.600			
		40.0	0.400			
		20.0	0.200			
		10.0	0.100			
		5.0	0.050			

CALIBRATION ACTION TAKEN (adjust, repair, replace, none, other) none

REMARKS:

PREPARED BY: G. Thress

SIGNATURE/DATE G. Thress 9/6/12

SAMPLER LOG BOOK

8/9/12 1000 - Received Sampler 0706-05. All ports capped and plugged.

[illegible] Shaw

8/10/12 0800 - Plugged in Sampler 0706-05 to warm up massflow meter.

[illegible] Shaw

9/6/12 0800 - Start gauge and massflow meter cals on Sampler 0706-05.

0930 - Completed gauge and massflow meter cals. OK

1300 - Reassemble Sampler 0706-05 for leak check.

[illegible] Shaw

9/7/12 1000 - Start leak check on Sampler 0706-05
- Starting leak check @ 20 PSIG

1100 - Completed leak check on Sampler 0706-05.
- Final Pressure @ 20 PSIG (PASS)

[illegible] Shaw

9/10/12 1400 - Start Physical Checkout on Sampler 0706-05.
- Starting Sample Flow @ 29.0 sccm
- Starting Bleed Air at @ 2750 sccm
- Starting Pumphead Pressure @ 20 PSIG

[illegible] Shaw

9/10/12 1600 - Completed Physical Checkout on Sampler 0706-05.
- Final Sample Flow 29.0 sccm
- Final Bleed air out 2725 sccm
- Final Pumphead Pressure @ 20 PSIG

[signature] Shaw

9/11/12 0700 - ~~Start Manifold Reference Blank~~ MS
Start Zero Air Purge on Sampler 0706-05. To Condition Sampler.

0900 Start Humid Zero Air Certification on Sampler 0706-05.
- Zero Air Flow @ 3.2 SLPM
- Sample Flow 28.9
- Bleed Air out Flow @ 2700 sccm
- Canister # 34875 (WIPP)
- 29" Hg Vac.
- Pumphead Pressure @ 20 PSIG
- S-9-11-12-05-G-1

0915 Start Manifold reference blank # 1 on Sampler 0706-05.
- Canister # 34880 (WIPP)
- 29" Hg Vac.
- RB-9-11-12-05-G1

0928 - Completed Manifold reference blank # 1 on Sampler 0706-05

[signature] Shaw

9/11/12 1200 - Start manifold reference blank # 2 on Sampler 0706-05.
- Canister # 34876 (WIPP)
- 29" Hg Vac.
- RB-9-11-12-05-G2

1213 - Completed manifold reference blank #2 on Sampler 0706-05.

1430 - Start manifold reference blank # 3 on Sampler 0706-05.
- Canister # 34884 (WIPP)
- 29" Hg Vac
- RB-9-11-12-05-G3

1444 - Completed manifold reference blank #3 on Sampler 0706-05.

1500 - Completed Humid Zero Air Certification on Sampler 0706-05.
- Final Pressure 12.0 PSIG
- Box Samples for Shipping to Lab.

[illegible] Shum

9/28/12 1500 - Sampler 0706-05 did not pass Zero Air Certification.
Re Start Zero Air purge on Sampler 0706-05

[illegible] Shum

10/1/12 0800 - Stop zero air purge on Sampler 0706-05.

[illegible] Shu

10/10/12 0700 - Start zero air purge on Sampler 0706-05 to Condition Sampler.

1200 - Start and Humid Zero air Certification on Sampler 0706-05.
- Zero air flow @ 3.2 slpm
- Sample Flow @ 28.9 sccm
- Bleed air at @ 2700 sccm
- Canister # 4688 (WIPP)
- 29.5" Hg Vac.
- Pumphead Pressure @ 20 PSIG
- S-10-10-12-05-G1

1215 - Start manifold reference blank # 1 on Sampler 0706-05.
- Canister # 4819 (WIPP)
- 29" Hg Vac.
- RB-10-10-12-05-G1

1229 - Completed Manifold reference blank # 1 on Sampler 0706-05.

1500 - Start Manifold reference blank # 2 on Sampler 0706-05.
- Canister # 4692 (WIPP)
- 29.5" Hg Vac.
- RB-10-10-12-05-G2

[illegible] Shu

10/10/12 1516 - Completed manifold reference blank # 2 on Sampler 0706-05.

1730 - Start manifold reference blank # 3 on Sampler 0706-05.
- Canister # 4669 (WIPP)
- 29.5" Hg Vac.
- RB-10-10-12-05-G3

1742 - Completed manifold reference blank # 3 on Sampler 0706-05.

1800 - Completed 2nd Humid Zero Air Certification on Sampler 0706-05.
- Final Pressure 10 psig
- Box Samples for Shipping.

[illegible] SMM

10/31/12 0700 - Start Humid Cal. Gas recovery Conditioning on Sampler 0706-05.

0900 - Start Humid Cal. Gas Recovery on Sampler 0706-05.
- Canister # 4686 (WIPP)
- 29" Hg Vac.
- Zero air flow @ 3.2 SLPM
- Cal. gas flow @ 25.0 sccm
- Sample flow @ 27.6 sccm
- Bleed air out flow @ 2700 sccm
- Pump head Pressure @ 20 PSIG

[illegible]

10/31/12 1500 - Start Final Zero air purge on Sampler 0706-05.

1700 - Completed Final Zero air purge on Sampler 0706-05.

[illegible] Shaw

12-10-12 800 - SAMPLER HAS BEEN CERTIFIED CLEAN AND RECOVERY IS GOOD. DATA VALIDATION IS COMPLETE. REPORT WILL BE COMPLETED AND SAMPLER WILL BE SHIPPED TO WIPP.

Ginger Britt SHAW

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

6. Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachments E, L, N, N1, and O. Radiological instruments are not considered demonstration of permit compliance.

   6.a Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment E. [xx pages]

   6.b Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment L.

   6.c Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N.

   6.d Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N1[7 pages].

   6.e Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment O.

TRANSCAT® CALIBRATION SERVICES

NVLAP

NVLAP LAB CODE
200914-0

CERTIFICATE OF CALIBRATION

Customer: WASHINGTON TRU SOLUTIONS
30 MI SOUTH EAST OF CARLSBAD
CARLSBAD, NM 88221

Customer Nbr: 1-342757-000
PO Nbr: PHILLIPS-CC
Date Received: August 16, 2012

Cert/SO Nbr: 1-BX92V-5-2
Manufacturer: Crystal Engineering Corp
Model Nbr: 30PSIXP2I

Date Completed: August 16, 2012

Part Nbr: 30PSIXP2i
Description: Pressure Gauge
Serial Nbr: 258099
ID Nbr: ZE0174
Unit Barcode: 901B0084626

Calibrated To: Manufacturer Specification
Calibration Proc: 1-AC46456-0
Item Received: In Tolerance
Item Returned: In Tolerance

For calibration data, see Supplemental Report for SO Nbr 1-BX92V-5-2

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2005. Accredited calibrations performed within the Lab's Scope of Accreditation are indicated by the presence of the Accrediting Body's Logo and Certificate Number on this Certificate of Calibration. Any measurements on an accredited calibration not covered by that Lab's Scope are listed in the notes section of the certificate. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Transcat calibrations, as applicable, are performed in compliance with the requirements of ISO 9001:2008, ISO TS16949, ANSI/NCSL Z540-1994, and ISO 10012-1992. When specified contractually, the requirements of 10CFR21, 10CFR50 App. B and NQA-1 are also covered.

Traceability includes no less than: An unbroken chain of comparison, realization of SI units, measurement uncertainty, documentation, competence, periodic recalibration, and measurement assurance. Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST) or the National Research Council of Canada (NRC), or other recognized national measurement institutes (NMI's) or international standard bodies, or to measurable conditions created in our laboratory, or accepted fundamental and/or natural physical constants, ratio type of calibration, or by comparison to consensus standards. The specific path of traceability for the reported measurement results is maintained at the Transcat facility and is available there for review.

Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are shown on the Supplemental Report.

The results in this report relate only to the item calibrated or tested, and the determination of in or out of tolerance is specific to the model/serial no. referenced above based on the tolerances shown on the supplemental report; these tolerances are either the original equipment manufacturer's (OEM's) warranted specifications or the client's requested specifications.

The applied uncertainty is the uncertainty of the calibration process. The Test Uncertainty Ratio (TUR) is calculated as per NCSL International RP-9, section 8.2. All calibrations have been performed using processes having a TUR of 4 : 1 or better, unless otherwise noted on the Supplemental Report. Uncertainties have been estimated at a 95 percent confidence level (k=2). Calibration at a 4:1 TUR (or greater) provides reasonable confidence that the instrument is within the stated tolerances. For measuring instruments, in order to consider the contribution to the uncertainty from reproducibility of the unit under test (UUT), add 0.6 of the UUT's least significant digit to the reported uncertainty. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions.

Notes:

APPROVED
BY
DATE 8-30-12

Calibrated At:
35 Vantage Point Dr
Rochester, NY 14624
By: Nick Morabito
Digitally Signed On August 16, 2012

Facility Responsible:
35 Vantage Point Dr
Rochester, NY 14624
585-352-9720

Digitally Signed By Chris DeZutter for
Date: August 16, 2012

Chris Herrmann
Lab Manager

Revision 0

This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

F0013R22 8/12/2011

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR 1-BX92V-5-2

CALIBRATION LAB DATA AS FOUND / AS LEFT

Service Order Nbr:	1-BX92V-5-2	Mfg:	Crystal Engineering Corp
Description:	Pressure Gauge	Model:	30PSIXP2I
Serial:	258099		
Customer:	WASHINGTON TRU SOLUTIONS		
Calibrated:	8/16/2012	PO Nbr:	PHILLIPS-CC
Date Due:		ID Nbr:	
Service Type:	S6	Calibration Proc:	1-AC46456-0

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	OOT	Uncertainty (k=2; ±)		TUR
Pressure Measure									
Pressure Linearity	0.000psig	±(0.02% FS)	-0.006	0.006	0.000 psig				
	6.000psig	±(0.02% FS)	5.994	6.006	6.001 psig				
	12.000psig	±(0.1% Rdg)	11.988	12.012	12.001 psig				
	18.000psig	±(0.1% Rdg)	17.982	18.018	18.001 psig				
	24.000psig	±(0.1% Rdg)	23.976	24.024	24.001 psig				
	30.000psig	±(0.1% Rdg)	29.970	30.030	30.003 psig				
Hysteresis	18.000psig	±(0.1% Rdg)	17.982	18.018	18.004 psig				
Vacuum Measure									
Vacuum Linearity	-3.000psig	±(0.25% FS)	-3.036	-2.964	-3.002 psig				
	-6.000psig	±(0.25% FS)	-6.036	-5.964	-6.003 psig				

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable.

TRANSCAT® CALIBRATION SERVICES

SUPPLEMENTAL REPORT FOR 1-BX92V-5-2

CALIBRATION LAB DATA AS FOUND / AS LEFT

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	♀	Uncertainty (k=2; ±)		TUR
	-9.000psig	±(0.25% FS)	-9.036	-8.964	-9.004 psig				
	-12.00psig	±(0.25% FS)	-12.04	-11.96	-12.00 psig				
	-14.00psig	±(0.25% FS)	-14.04	-13.96	-14.00 psig				
Hysteresis	-9.000psig	±(0.25% FS)	-9.036	-8.964	-9.006 psig				

As Found and As Left Data recorded on 8/16/2012

Temperature: 72.3°F / 22.4°C Relative Humidity: 48% Temp/RH Asset: 3131

Asset	Manufacturer	Model	Description	Cal Date	Due Date	Traceability Numbers
O10172	Ruska Instruments Corp	7250xi	Pressure Calibrator	5/8/2012	11/30/2012	5-&O10172-1-4

The reported uncertainty is the uncertainty of the calibration process. For measuring instruments, add 0.6 of the least significant digit to the reported uncertainty to obtain the measurement uncertainty of the unit under test at the specific test point.

Reported resolution of the UUT does not represent calibration uncertainty or accuracy of the UUT.

Field not applicable

SIERRA
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5 Harris Court, Building L / Monterey, CA 93940
800.866.0200 / 831.373.0200
fax: 831.373.4402
www.sierrainstruments.com

CALIBRATION CERTIFICATE

After Adjustments

CERTIFICATE NUMBER **4507436064**

ZE 0144

Applicant/Customer	Name	WASHINGTON TRU SOLUTIONS LLC			
	Customer Address	30 MILES SE OF CARLSBAD			
	City, State, Zip Code	CARLSBAD, NM. 88221			
	Country	USA			
	Sales Order	R135145			
	Purchase Order	CREDIT CARD			
Instrument	Model	C100L-DD-2-OV1-SV1-PV2-V1-SO-C10			
	Serial number	109574			
	Input Power	24 Volt DC			
	Full Scale	20.000		units	SLPM
	Output signal	0	5	units	0-5 Volts
	Fittings	1/4" COMP			
	Accuracy DUT (+/-)	**1.0% F/S**			
Calibration method	Calibration Station/Cal Due Date	Cal Bench Asset # 0124	October 30, 2012		
	Calibration Procedure	MFG-036 Rev. D			
	Software release	Cal Bench Mass Flow Calibration System, Rev. 8.00.06			
	Repeatability	+/- 0.2% of full scale			
	Temperature coefficient	+/- 0.025% of full scale per °F (0.05% of full scale per °C)			
	Pressure coefficient	0.01% of full scale per psi (0.15% of full scale per bar)			
	System ERROR	maximum systematic ERROR = 0.2%			
	DMM Asset / Cal Due Date	1058	March 22, 2013		
Calibration details	Date of calibration	August 15, 2012			
	Suggested recal date	August 15, 2013			
Calibration data	Ambient pressure	29.58	In Hg		
	Ambient temperature	73.90	°F		
	Gas	Air			
	Calibration gas	Air			
	K-Factor	1.000			
	Reference temperature	70.0	°F		
	Reference pressure	1	ATM a.		
	Calibration pressure	Inlet/outlet pressure	6 PSI g.		1 PSI a.
	Calibration temperature	75-100	°F		
	Other	OUTPUT 0-5 VDC / 4-20 mA			
	Special Calibration Information				

Calibration results

Output	Indicated Flow	Actual Flow	Actual	Allowable
0-5 Volts	SLPM	SLPM	difference	difference
0.000	0.0000	0.0000	0.000	0.200
1.250	5.0000	5.0235	0.024	0.200
2.500	10.0000	10.0761	0.076	0.200
3.750	15.0000	14.9822	-0.018	0.200
5.000	20.0000	19.8425	-0.157	0.200

Traceability

Calibration of these products is performed with equipment containing components which are tested and calibrated in accordance with ANSI/NCSL Z540 and/or ISO 17025 and are traceable to NIST.
The results of this report relate only to the item calibrated or tested.

Performed by

Calibration technician _____ **Q.C.Technician** _____

This calibration certificate shall not be reproduced, except in full, without written approval

APPROVED
BY _____
DATE 8.23.12

SI form #0001 Rev. C

SW: SN-0017, Rev. 1.02

EDISON ESI℠

A SOUTHERN CALIFORNIA EDISON® Company

Calibration Report

TEST NUMBER 671599

Metrology
7300 Fenwick Lane
Westminster, CA 92683
Toll Free: 866-723-2257

Nuclear Waste Partnership LLC
WIPP Site
33 Miles SE of Carlsbad, NM
Attn: Warehouse
Carlsbad, NM 88220

Manufacturer:	Ametek	**Ambient Temperature:**	20.4° C
Model Number:	IPI030CBXXINDG	**Ambient Humidity:**	44.2 %
Description:	Gauge, Pressure, Digital	**Condition As Found:**	In Tolerance
Asset Number:	ZE0146	**Condition As Left:**	In Tolerance - No Adjustment
Serial Number:	9611052	**Calibration Date:**	12/13/2012
PO Number:	WIPP1-PO600002 REV 6	**Calibration Due Date:**	12/13/2013
Cal. Procedure:	ECI-1050 Rev. 4 ECN 0	**Calibration Interval:**	12 Months

Remarks:
Calibration medium: Nitrogen.

Standards Utilized

I.D. No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
S1-03953	DH Instruments	PPC3-700K A700KP/A20C	Calibrator, Pressure, Controller	10/17/2012	04/17/2013

APPROVED
BY
DATE 1-13-13

Calibration Performed By:			Quality Reviewer:	
Mercado, Luis O	Metrologist	714-895-0704		12-14-2012
Name	Title	Phone	Name	Date

This report may not be reproduced, except in full, without written permission of this laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government. The results stated in this report relate only to the items tested or calibrated. Measurements reported herein are traceable to SI units via national standards maintained by NIST. This laboratory and calibration are in compliance with ISO/IEC 17025:2005, ANSI/NCSL Z540-1-1994, MIL-STD-45662A, and 10CFR50, Appendix B. Where uncertainties are provided, the uncertainty stated is the expanded uncertainty of the measurement, where k=2.

EDISON ESI℠ Calibration Report

A SOUTHERN CALIFORNIA EDISON® Company

Test Point Data

FUNCTION TESTED	Nominal Value	As Found	As Left	Out of Tol	CALIBRATION TOLERANCE
Negative Pressure Test -12 to 30 psig Range	-12.000 psig	-11.990	Same		-12.030 to -11.970 psig
|	-8.000 psig	-7.993	Same		-8.030 to -7.970 psig
|	-4.000 psig	-3.996	Same		-4.030 to -3.970 psig
|	0.000 psig	0.000	Same		-0.030 to 0.030 psig
|	-4.000 psig	-3.996	Same		-4.030 to -3.970 psig
|	-8.000 psig	-7.993	Same		-8.030 to -7.970 psig
|	-12.000 psig	-11.990	Same		-12.030 to -11.970 psig
Positive Pressure Test -12 to 30 psig	0.000 psig	0.000	Same		-0.015 to 0.015 psig
|	3.000 psig	3.001	Same		2.985 to 3.015 psig
|	6.000 psig	6.001	Same		5.985 to 6.015 psig
|	9.000 psig	9.001	Same		8.985 to 9.015 psig
|	12.000 psig	12.002	Same		11.985 to 12.015 psig
|	15.000 psig	15.002	Same		14.985 to 15.015 psig
|	18.000 psig	18.003	Same		17.985 to 18.015 psig
|	21.000 psig	21.004	Same		20.985 to 21.015 psig
|	24.000 psig	24.005	Same		23.985 to 24.015 psig
|	27.000 psig	27.005	Same		26.985 to 27.015 psig
|	30.000 psig	30.004	Same		29.985 to 30.015 psig
|	27.000 psig	27.005	Same		26.985 to 27.015 psig
|	21.000 psig	21.004	Same		20.985 to 21.015 psig
|	15.000 psig	15.002	Same		14.985 to 15.015 psig
|	9.000 psig	9.001	Same		8.985 to 9.015 psig
|	3.000 psig	3.000	Same		2.985 to 3.015 psig
|	0.000 psig	0.000	Same		-0.015 to 0.015 psig

Test Point Remarks

Range: -12 to 30 psig

Accuracy: (Vacuum); ±0.1% F.S.(30 psig); (Positive pressure); ±0.05% F.S.

Test No: 671599

Asset Number: ZE0146 *Serial: 9611052* *Mfr: Ametek* *Model: IPI030CBXXINDG* *Description: Gauge, Pressure, Digital*

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

6. Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachments E, L, N, N1, and O. Radiological instruments are not considered demonstration of permit compliance.

   6.a Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment E.

   6.b Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment L.

   6.c Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N.

   6.d Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment N1.

   6.e Photocopies of calibration records from December 13, 2012 to February 12, 2013 for all specific types of instruments (one instrument of each specific type) used to demonstrate permit compliance with Attachment O [69 pages].

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION

REPORT NO. 86900

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

TRUE RMS CLAMP METER

Manufacturer FLUKE	Model No. 33
Serial No. 5480005	Inventory No. AD0505
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/FK33.001 Temperature 72 F Humidity 45%
Calibration Date 07-09-2012	Recall Date 07-09-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

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APPROVED
BY
DATE 8-16-12

Certified By M. Griego - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 86900
PAGE 1 of 2
07-09-2012

ITEM CALIBRATED : FLUKE TRUE RMS CLAMP METER -- MODEL. 33
: SERIAL NO. 5480005
: CUSTOMER CONTROL NO. AD0505

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPP SITE
CARLSBAD, NM 88221

PROCEDURE : ISL/FK33.001 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
AC CURRENT ACCURACY					
1 A / 50 Hz	1.00	+0.00		+/-	.22 A
2 A / 50 Hz	2.03	+0.03		+/-	.24 A
4 A / 60 Hz	4.02	+0.02		+/-	.28 A
8 A / 60 Hz	8.06	+0.06		+/-	.36 A
10 A /400 Hz	10.06	+0.06		+/-	.70 A
20 A /400 Hz	20.10	+0.10		+/-	1.10 A
40 A / 50 Hz	40.1	+0.1		+/-	1.0 A
80 A / 50 Hz	80.5	+0.5		+/-	1.8 A
100 A / 60 Hz	100.5	+0.5		+/-	2.2 A
200 A / 60 Hz	201.3	+1.3		+/-	4.2 A
400 A / 60 Hz	401.9	+1.9		+/-	8.2 A
PEAK AMPS					
1.41 A / 50 Hz	1.40	-0.01		+/-	.35 A
2.83 A / 50 Hz	2.83	+0.00		+/-	.38 A
5.66 A / 60 Hz	5.66	+0.00		+/-	.47 A
11.31 A / 60 Hz	11.45	+0.14		+/-	.64 A
14.14 A /400 Hz	14.23	+0.09		+/-	.87 A
28.28 A /400 Hz	28.25	-0.03		+/-	1.44 A
56.6 A / 50 Hz	56.2	-0.4		+/-	2.1 A
113.1 A / 50 Hz	113.5	+0.4		+/-	3.7 A
141.4 A / 60 Hz	141.7	+0.3		+/-	4.6 A
282.8 A / 60 Hz	285.0	+2.2		+/-	8.8 A
565.6 A / 60 Hz	569.0	+3.4		+/-	17.4 A

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
FREQUENCY ACCURACY					
50 Hz	50.0	+0.0		+/-	.4 Hz
60 Hz	60.0	+0.0		+/-	.4 Hz
400 Hz	400.0	+0.0		+/-	1.1 Hz

CERTIFIED [signature]

DATE 07-09-2012

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION

REPORT NO. 87375

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

PROCESS CALIBRATOR

Manufacturer FLUKE	Model No. 743
Serial No. 6660805	Inventory No. AD1028
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/FK743B.003 Temperature 72 F Humidity 33%
Calibration Date 09-20-2012	Recall Date 09-20-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

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APPROVED

BY

DATE 10·16·12

Certified By M. Griego - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 87375

09-20-2012

ITEM CALIBRATED : FLUKE DOCUMENTING PROCESS CALIBRATOR -- MODEL 743 / 743B
: SERIAL NO. 6660805
: CUSTOMER CONTROL NO. AD1028

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPP SITE
CARLSBAD, NM 88221

PROCEDURE : ISL/FK743B.003 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
DC VOLTAGE MEASUREMENT ACCURACY					
110 mV 0.0 mV	-0.004	-0.004		+/-	.017 mV
1.1 V 0.0 V	-0.00001	-0.00001		+/-	.00006 V
11 V 0.0 V	-0.0001	-0.0001		+/-	.0006 V
110 V 0.0 V	-0.001	-0.001		+/-	.006 V
300 V 0.0 V	0.00	+0.00		+/-	.02 V
110 mV 100 mV	99.997	-0.003		+/-	.042 mV
110 mV -100 mV	-100.005	-0.005		+/-	.042 mV
1.1 V 1.0 V	0.99996	-0.00004		+/-	.00031 V
1.1 V -1.0 V	-0.99996	+0.00004		+/-	.00031 V
11 V 10 V	10.0000	+0.0000		+/-	.0031 V
11 V -10 V	-10.0000	+0.0000		+/-	.0031 V
110 V 100 V	100.001	+0.001		+/-	.055 V
110 V -100 V	-100.003	-0.003		+/-	.055 V
300 V 300 V	299.98	-0.02		+/-	.17 V
300 V -300 V	-300.00	+0.00		+/-	.17 V
AC VOLTAGE MEASUREMENT ACCURACY					
1.1 V .2 V/500 Hz	0.2000	+0.0000		+/-	.0015 V
1.1 V 1.0 V/20 Hz	1.0027	+0.0027		+/-	.0210 V
1.1 V 1.0 V/40 Hz	1.0007	+0.0007		+/-	.0055 V
1.1 V 1.0 V/500 Hz	1.0003	+0.0003		+/-	.0055 V
1.1 V 1.0 V/ 1 kHz	1.0004	+0.0004		+/-	.0210 V
1.1 V 1.0 V/ 5 kHz	1.0334	+0.0334		+/-	.1020 V
11 V 2.0 V/500 Hz	2.000	+0.000		+/-	.015 V
11 V 10 V/500 Hz	10.006	+0.006		+/-	.055 V
11 V 10 V/ 5 kHz	10.019	+0.019		+/-	1.020 V
110 V 20 V/500 Hz	20.00	+0.00		+/-	.15 V
110 V 100 V/500 Hz	100.05	+0.05		+/-	.55 V
110 V 100 V/ 5 kHz	99.97	-0.03		+/-	10.20 V
300 V 50 V/500 Hz	49.9	-0.1		+/-	.8 V
300 V 120 V/60 Hz	120.0	+0.0		+/-	1.1 V
300 V 250 V/500 Hz	250.1	+0.1		+/-	1.8 V
300 V 219 V/ 5 kHz	219.0	+0.0		+/-	23.9 V

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
DC CURRENT MEASUREMENT ACCURACY					
30 mA 4 mA	4.000	+0.000		+/-	.005 mA
30 mA 20 mA	20.000	+0.000		+/-	.006 mA
30 mA 30 mA	30.000	+0.000		+/-	.008 mA
30 mA -30 mA	-30.000	+0.000		+/-	.008 mA
110 mA 0.0 mA	0.00	+0.00		+/-	.02 mA
110 mA 100 mA	99.99	-0.01		+/-	.03 mA
110 mA -100 mA	-99.99	+0.01		+/-	.03 mA
FREQUENCY ACCURACY					
10 Hz/150 mV	10.00	+0.00		+/-	.05 Hz
500 Hz/150 mV	500.0	+0.0		+/-	.5 Hz
10 kHz/700 mV	10.000	-0.000		+/-	.005 kHz
50 kHz/1.4 V	50.00	+0.00		+/-	.05 kHz
2-WIRE RESISTANCE ACCURACY					
11 Ω 0.0 Ω	0.002	-0.002		+/-	.050 Ω
110 Ω 0.0 Ω	-0.01	-0.01		+/-	.05 Ω
1100 Ω 0.0 Ω	0.0	+0.0		+/-	.5 Ω
11 kΩ 0.0 kΩ	0.000	-0.000		+/-	.010 kΩ
11 Ω 10 Ω	10.002	+0.002		+/-	.055 Ω
110 Ω 100 Ω	100.00	+0.00		+/-	.10 Ω
1100 Ω 1000 Ω	1000.0	+0.0		+/-	1.0 Ω
11 kΩ 10 kΩ	10.001	+0.001		+/-	.020 kΩ
3-WIRE RTD ACCURACY (PT100-385)					
-198.8 °C	-198.9	-0.1		+/-	.7 °C
0.0 °C	0.1	+0.1		+/-	.7 °C
238.8 °C	239.0	+0.2		+/-	.9 °C
4-WIRE RTD ACCURACY (PT100-385)					
-198.8 °C	-198.9	-0.1		+/-	.3 °C
0.0 °C	0.1	+0.1		+/-	.3 °C
238.8 °C	238.8	+0.0		+/-	.5 °C
4-WIRE RTD ACCURACY (PT200-385)					
-125.1 °C	-125.1	+0.0		+/-	.3 °C
-12.8 °C	-12.8	+0.0		+/-	.3 °C
TC MEASURE ACCURACY (TYPE K / INT- REF)					
-180.0 °C	-179.6	+0.4		+/-	.9 °C
0.0 °C	0.2	+0.2		+/-	.5 °C
1300.0 °C	1300.1	+0.1		+/-	.9 °C

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
DC VOLTAGE SOURCE ACCURACY					
110 mV -10 mV	-9.9995	+0.0005		+/-	.0065 mV
110 mV 100 mV	100.0038	+0.0038		+/-	.0155 mV
1.1 V .12 V	0.12000	+0.00000		+/-	.00007 V
1.1 V 1.0 V	1.00002	+0.00002		+/-	.00016 V
11 V 1.2 V	1.2000	-0.0000		+/-	.0007 V
11 V 10 V	10.0001	+0.0001		+/-	.0015 V
DC CURRENT SOURCE ACCURACY					
22 mA 2 mA	2.000	+0.000		+/-	.003 mA
22 mA 4 mA	4.000	+0.000		+/-	.004 mA
22 mA 22 mA	22.001	+0.001		+/-	.006 mA
DC CURRENT SINK ACCURACY					
22 mA 4 mA	4.000	-0.000		+/-	.007 mA
22 mA 22 mA	22.001	-0.001		+/-	.011 mA
RTD SOURCE ACCURACY - PT100 (385)					
-180 °C					
27.096 Ω	27.104	+0.008		+/-	.043 Ω
100 °C					
138.505 Ω	138.501	-0.004		+/-	.076 Ω
780 °C					
369.712 Ω	369.703	-0.009		+/-	.120 Ω
OHMS SOURCE ACCURACY					
11 Ω 0.1 Ω	0.1015	+0.0015		+/-	.0200 Ω
11 Ω 1.0 Ω	1.0021	+0.0021		+/-	.0201 Ω
11 Ω 10 Ω	10.0019	+0.0019		+/-	.0210 Ω
110 Ω 20 Ω	20.007	+0.007		+/-	.042 Ω
110 Ω 100 Ω	100.001	+0.001		+/-	.050 Ω
1.1 kΩ .200 kΩ	0.19999	-0.00001		+/-	.00054 kΩ
1.1 kΩ 1 kΩ	0.99997	-0.00003		+/-	.00070 kΩ
11 kΩ 2.0 kΩ	2.0002	+0.0002		+/-	.0056 kΩ
11 kΩ 10 kΩ	9.9984	-0.0016		+/-	.0080 kΩ
FREQUENCY SOURCE ACCURACY					
5 Hz/Square	5.00	-0.00		+/-	.01 Hz
50 Hz/Square	50.0	+0.0		+/-	.1 Hz
500 Hz/Square	500.0	-0.0		+/-	.1 Hz
10 kHz/Square	10.000	+0.000		+/-	.002 kHz
50 kHz/Square	50.000	+0.000		+/-	.005 kHz
1000 Hz/Sine	999.9	-0.1		+/-	.1 Hz

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
FREQUENCY SOURCE AMPLITUDE ACCURACY					
SQUARE WAVE OUTPUT					
1 V pk/ 5 Hz	1.01	+0.01		+/-	.08 V
1 V pk/ 50 Hz	1.02	+0.02		+/-	.08 V
1 V pk/500 Hz	1.02	+0.02		+/-	.08 V
1 V pk/10 kHz	1.03	+0.03		+/-	.15 V
1 V pk/50 kHz	1.03	+0.03		+/-	.35 V
SINE WAVE OUTPUT					
1 Vpp/ 1 kHz	1.02	+0.02		+/-	.08 Vpp
LOOP POWER ACCURACY					
24 V	24.23	+0.23		+/-	1.20 V
28 V	28.23	+0.23		+/-	1.40 V
TC SOURCE ACCURACY (TYPE K / INT- REF)					
-200.0 °C	-200.4	-0.4		+/-	.9 °C
0.0 °C	-0.2	-0.2		+/-	.5 °C
1370.0 °C	1369.8	-0.2		+/-	.9 °C

CERTIFIED [signature]

DATE 09-20-2012

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION
REPORT NO. 87785
(Page 1 of 2)

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

DIGITAL CALIPER

Manufacturer MITUTOYO	Model No. 500-193
Serial No. 0039074	Inventory No. DM1168
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/CAL12DIG.003 Temperature 72 F Humidity 20%
Calibration Date 11-07-2012	Recall Date 11-07-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

This report shall not be duplicated except if in full or with written approval of Instrument Service Laboratories.

APPROVED
BY
DATE 12-18-12

Certified By S. YINGLING - TECHNICIAN

EDISON ESI Calibration Report

Test Point Data

FUNCTION TESTED	Nominal Value	As Found	As Left	Out of Tol	CALIBRATION TOLERANCE
Zero	0.0000 in	0.0000	Same		-0.0015 to 0.0015 in
Outside Jaws	0.2500 in	0.2495	Same		0.2485 to 0.2515 in
	0.5000 in	0.5000	Same		0.4985 to 0.5015 in
	0.7500 in	0.7500	Same		0.7485 to 0.7515 in
	1.0000 in	1.0000	Same		0.9985 to 1.0015 in
	2.0000 in	2.0000	Same		1.9985 to 2.0015 in
	4.0000 in	3.9995	Same		3.9985 to 4.0015 in
	6.0000 in	5.9995	Same		5.9985 to 6.0015 in
	8.0000 in	7.9990	Same		7.9985 to 8.0015 in
	10.0000 in	9.9990	Same		9.9985 to 10.0015 in
	12.0000 in	11.9990	Same		11.9985 to 12.0015 in
Inside Jaws	2.0000 in	2.0000	Same		1.9985 to 2.0015 in
Depth	2.0000 in	2.0000	Same		1.9985 to 2.0015 in

Test No: 629164

Asset Number OM1168 Serial: 0039074 Mfr: Mitutoyo Model 500-193 Description: Caliper, Digital, 0-12 in

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION

REPORT NO. 87264

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

TRUE RMS MULTIMETER

Manufacturer FLUKE	Model No. 87 CATIII
Serial No. 67250233	Inventory No. AD1021
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/FK87-CAT.001 Temperature 70 F Humidity 46%
Calibration Date 08-28-2012	Recall Date 08-28-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

This report shall not be duplicated except if in full or with written approval of Instrument Service Laboratories.

APPROVED

BY

DATE 10.16.12

Certified By M. Griego - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 87264

08-28-2012

ITEM CALIBRATED : FLUKE TRUE RMS MULTIMETER -- MODEL 87 CATIII
: SERIAL NO. 6725C233
: CUSTOMER CONTROL NO. AD1021

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPP SITE
CARLSBAD, NM 88221

PROCEDURE : ISL/FK87-CAT.001 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
DC VOLTAGE ACCURACY					
400 mV 350 mV	350.1	+0.1		+/-	.5 mV
4 V 3.5 V	3.500	+0.000		+/-	.005 V
40 V 35 V	35.00	+0.00		+/-	.05 V
40 V -35 V	-34.99	+0.01		+/-	.05 V
400 V 350 V	350.0	+0.0		+/-	.5 V
1000 V 1000 V	1000	+0		+/-	2 V
DC CURRENT ACCURACY					
400 uA 350 uA	350.2	+0.2		+/-	1.0 uA
4000 uA 3500 uA	3500	+0		+/-	9 uA
40 mA 35 mA	34.97	-0.03		+/-	.09 mA
400 mA 350 mA	349.6	-0.4		+/-	.9 mA
4000 mA 1900 mA	1900	+0		+/-	6 mA
10 A 1.9 A	1.90	+0.00		+/-	.02 A
AC CURRENT ACCURACY					
400 uA 350 uA/60 Hz	349.3	-0.7		+/-	3.7 uA
400 uA 350 uA/1 kHz	349.9	-0.1		+/-	3.7 uA
4000 uA 3500 uA/60 Hz	3495	-5		+/-	37 uA
4000 uA 3500 uA/1 kHz	3500	+0		+/-	37 uA
40 mA 35 mA/60 Hz	34.90	-0.10		+/-	.37 mA
40 mA 35 mA/1 kHz	34.95	-0.05		+/-	.37 mA
400 mA 350 mA/60 Hz	349.2	-0.8		+/-	3.7 mA
400 mA 350 mA/1 kHz	349.6	-0.4		+/-	3.7 mA
4000 mA 1900 mA/60 Hz	1901	+1		+/-	21 mA
4000 mA 1900 mA/1 kHz	1904	+4		+/-	21 mA
10 A 1.9 A/60 Hz	1.92	+0.02		+/-	.04 A
10 A 1.9 A/1 kHz	1.92	+0.02		+/-	.04 A

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
MIN/MAX HOLD TEST					
2 V 2.828 V (MAX)	2.804	-0.024		+/-	.062 V
2 V -2.828 V (MIN)	-2.800	+0.028		+/-	.062 V
AC VOLTAGE ACCURACY					
400 mV 350 mV/60 Hz	348.7	-1.3		+/-	2.9 mV
400 mV 350 mV/ 1 kHz	349.4	-0.6		+/-	3.9 mV
400 mV 350 mV/ 5 kHz	349.9	-0.1		+/-	7.4 mV
400 mV 350 mV/20 kHz	349.1	-0.9		+/-	9.0 mV
4 V 3.5 V/60 Hz	3.490	-0.010		+/-	.027 V
4 V 3.5 V/ 1 kHz	3.494	-0.006		+/-	.039 V
4 V 3.5 V/ 5 kHz	3.499	-0.001		+/-	.074 V
4 V 3.5 V/20 kHz	3.512	+0.012		+/-	.090 V
40 V 35 V/60 Hz	34.88	-0.12		+/-	.27 V
40 V 35 V/ 1 kHz	34.96	-0.04		+/-	.39 V
40 V 35 V/ 5 kHz	35.01	+0.01		+/-	.74 V
40 V 35 V/20 kHz	34.98	-0.02		+/-	.90 V
400 V 100 V/20 kHz	99.9	-0.1		+/-	4.0 V
400 V 350 V/60 Hz	348.9	-1.1		+/-	2.7 V
400 V 350 V/ 1 kHz	349.5	-0.5		+/-	3.9 V
400 V 350 V/ 5 kHz	349.2	-0.8		+/-	7.4 V
1000 V 900 V/60 Hz	903	+3		+/-	8 V
1000 V 900 V/ 1 kHz	904	+4		+/-	13 V
RESISTANCE ACCURACY					
400 Ω 190 Ω	190.0	+0.0		+/-	.6 Ω
40 kΩ 19 kΩ	19.01	+0.01		+/-	.05 kΩ
4 MΩ 1.9 MΩ	1.900	-0.000		+/-	.012 MΩ
40 MΩ 19 MΩ	18.99	-0.01		+/-	.22 MΩ
40 nS 10 nS	9.99	-0.01		+/-	.20 nS
FREQUENCY ACCURACY TEST					
20 kHz 19 kHz/150 mV	18.999	-0.001		+/-	.002 kHz
200 kHz 190 kHz/150 mV	189.99	-0.01		+/-	.02 kHz
CAPACITANCE					
5 uF 1 uF	0.99	-0.01		+/-	.05 uF
.5 uF .5 uF	0.499	-0.001		+/-	.008 uF
.05 uF .05 uF	0.0500	+0.0000		+/-	.0008 uF
5 nF 5 nF	5.01	+0.01		+/-	.08 nF
COUNTER SENSITIVITY					
4V ac Sensitivity					
1000 Hz/300 mV	999.9	-0.1		+/-	.2 Hz
4V dc Sensitivity					
1000 Hz/1.7 V	999.9	-0.1		+/-	.2 Hz
0.0 Hz/1.0 V	0.0	+0.0		+/-	.1 Hz
40V dc Sensitivity					

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
COUNTER SENSITIVITY (CONT.)					
1000 Hz/6.0 V	999.9	-0.1		+/-	.2 Hz
0.0 Hz/2.0 V	0.0	+0.0		+/-	.1 Hz
DIODE TEST					
3 V	2.987	-0.013		+/-	.061 V

CERTIFIED [illegible]

DATE 08-28-2012

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION
REPORT NO. 86315
(Page 1 of 2)

Submitted By :

WASHINGTON TRU/WIPP
5301 SIERRA VISTA
CARLSBAD, NM 88220

Description

DIGITAL CALIPER

Manufacturer MITUTOYO	Model No. 500-196
Serial No. 0589721	Inventory No. DM-1164
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/CAL6DIG.003 Temperature 72 F Humidity 29%
Calibration Date 05-09-2012	Recall Date 05-09-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

This report shall not be duplicated except if in full or with written approval of Instrument Service Laboratories.

APPROVED
BY
DATE 6-7-12

Certified By P. LINDE - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 86315
PAGE 1 of 1
05-09-2012

ITEM CALIBRATED : MITUTOYO MDL 509-196 CALIPER
: SERIAL NO. 0589721
: CUSTOMER CONTROL NO. DM-1164

SUBMITTED BY : URS/WASHINGTON EPD
5301 SIERRA VISTA
CARLSBAD, N.M. 88220

PROCEDURE : ISL/CAL6DIG.003 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
ACCURACY (OD)					
6 Inch 0 Inch	0.0000	+0.0000			+/- .0010 Inch
6 Inch .250 Inch	0.2500	+0.0000			+/- .0010 Inch
6 Inch .500 Inch	0.5000	+0.0000			+/- .0010 Inch
6 Inch 1.500 Inch	1.5000	+0.0000			+/- .0010 Inch
6 Inch 3.000 Inch	3.0000	+0.0000			+/- .0010 Inch
6 Inch 4.500 Inch	4.5000	+0.0000			+/- .0010 Inch
6 Inch 6.000 Inch	6.0000	+0.0000			+/- .0010 Inch
ACCURACY (ID)					
6 Inch 2.000 Inch	2.0000	+0.0000			+/- .0010 Inch
JAWS PARALLEL (Outside)					
VARIANCE					
Beam to Toe < .0010 Inch	PASS				PASS/FAIL
DEPTH ROD					
ZERO 0.000 Inch	0.0000	+0.0000			+/- .0010 Inch
1 Inch 1.000 Inch	1.0000	+0.0000			+/- .0010 Inch
STEP JAW					
2 Inch 2.000 Inch	2.0000	+0.0000			+/- .0010 Inch
METRIC CONVERSION					
4 Inch 101.60 (mm)	101.60	+0.00			+/- .03 (mm)

CERTIFIED [signature]

DATE 5-9-2012

EDISON ESI Calibration Report

TEST NUMBER 664470

Metrology
580 Derwick Lane
Westminster, CA 92683
Toll Free 866-723-2257

Washington TRU Solutions, LLC
WIPP Site
33 Miles SE of Carlsbad, NM
Attn: Warehouse
Carlsbad, NM 88220

Manufacturer:	Starrett	**Ambient Temperature:**	20.0° C
Model Number:	414-6	**Ambient Humidity:**	49.0 %
Description:	Rule, Steel, 72 in	**Condition As Found:**	In Tolerance
Asset Number:	DM1290	**Condition As Left:**	In Tolerance - No Adjustment
Serial Number:	12809-1	**Calibration Date:**	07/24/2012
PO Number:	WIPP1-PO600002 REV 6	**Calibration Due Date**	07/24/2013
Cal. Procedure:	ECI-165 Rev.0 ECN 1	**Calibration Interval:**	12 Months

Remarks:
Physical Damage: Received with excessive rust, cleaned prior to calibration. Unit is stained but does not affect measurement.

Standards Utilized

I.D. No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
S1-01781	Starrett	120 INCH	Machine, Measuring	01/25/2012	01/25/2013
S1-03869	Agilent Technologies	5519A	System, Laser Head	05/31/2012	05/31/2014
S1-03869A	Agilent Technologies	10886A	Board, Compensation PC	05/31/2012	05/31/2014
S1-03869B	Agilent Technologies	10751C	Sensor, Air	05/31/2012	05/31/2014
S1-03869C	Agilent Technologies	10757E	Sensor, Temperature, Material	05/31/2012	05/31/2014

APPROVED
BY
DATE 8-9-12

Calibration Performed By:				Quality Reviewer:	
Tucker, Don L		Metrologist	714-895-0606		7-25-2012
Name		Title	Phone	Name	Date

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EDISON ESI Calibration Report

Test Point Data

FUNCTION TESTED	Nominal Value	As Found	As Left	Out of Tol	CALIBRATION TOLERANCE
Side 1 Position 1	1.000 in	0.9972	Same		0.984 to 1.016 in
Position 2	12.000 in	11.9990	Same		11.984 to 12.016 in
Position 3	24.000 in	23.9993	Same		23.984 to 24.016 in
Position 4	36.000 in	35.9896	Same		35.984 to 36.016 in
Position 5	48.000 in	47.9955	Same		47.984 to 48.016 in
Position 6	60.000 in	59.9970	Same		59.984 to 60.016 in
Position 7	72.000 in	71.9914	Same		71.984 to 72.016 in
Side 2 Position 1	1.000 in	0.9957	Same		0.984 to 1.016 in
Position 2	12.000 in	11.9968	Same		11.984 to 12.016 in
Position 3	24.000 in	23.9955	Same		23.984 to 24.016 in
Position 4	36.000 in	35.9890	Same		35.984 to 36.016 in
Position 5	48.000 in	47.9953	Same		47.984 to 48.016 in
Position 6	60.000 in	59.9934	Same		59.984 to 60.016 in
Position 7	72.000 in	71.9916	Same		71.984 to 72.016 in

Measurement Systems International

Integrated System Solutions for Industrial Weighing & Process Control

CERTIFICATE OF CALIBRATION

Customer: **Nuclear Waste Partnership LLC** **Date: 12/18/2012**

P.O. #: **N/A** FC 0381 **SO/RMA#: 171339**

THIS IS TO CERTIFY: Test weights, laboratory calibrating machines and/or electronic load cells, with accuracy traceable to the United States National Institute of Standards and Technology, have been used in the calibration of the following equipment:

MSI 4260 Porta-Weigh
70,000 x 20 lb Capacity
S/N 7255/9872

Applied Load lb	As Received lb	After Adjustments lb	Error lb	Allowable lb *
0	0	0	0	0
7000	7000	7000	0	+/-20
14000	13980	14000	0	+/-20
21000	20980	20980	-20	+/-20
28000	27980	27980	-20	+/-20
35000	34980	34980	-20	+/-40
42000	41980	41980	-20	+/-40
49000	48980	48980	-20	+/-40
56000	56000	56000	0	+/-60
63000	63000	63000	0	+/-60
70000	70000	70000	0	+/-80
0	0	0	0	0
Cal Number		28980		

* System Accuracy: .1% of Applied Load

I do hereby certify the above readings are true, and that the calibration was performed at MSI. *12 Month Calibration Required. Reference standards used are of greater accuracy that the item calibrated.

Calibration Equipment Data: utilizing BLH Load Cell, serial number 126067 and MSI-3650 indicator, serial number 51413 Calibrated IAW ASTM E 74-95. Calibration was performed using a combination of transfer standards calibrated by the National Institute of Standards and Technology under Lab No. 261935 & 259898. The errors of the applied loads did not exceed .01%. Date certified - October 3, 2011. Date next due - October 3, 2013. Certifications on file, available for review as necessary.

Temperature at time of calibration: 70° Relative Humidity: 50%

Measurement Systems International, Inc. complies with ANSI-Z540

Calibration Technician Jason Porter

Quality Assurance Rodney Rodems

APPROVED

BY

DATE 1-8-13

14240 Interurban Avenue South STE 200 • Seattle, Washington 98168-4661 U.S.A. • 206-433-0190 • Fax: 206-244-8470 • Web: www.msiscales.com • Email: info@msiscales.com

EDISON ESI

SOUTHERN CALIFORNIA EDISON Company

Calibration Report

TEST NUMBER 659216

Metrology
7300 Fenwick Lane
Westminster, CA 92683
Toll Free: 866-723-2257

Washington TRU Solutions, LLC
WIPP Site
33 Miles SE of Carlsbad, NM
Attn: Warehouse
Carlsbad, NM 88220

Manufacturer:	Fluke	**Ambient Temperature:**	20.20° C
Model Number:	700P07	**Ambient Humidity:**	46.00 %
Description:	Module, Pressure, 500 psig	**Condition As Found:**	In Tolerance
Asset Number:	PV0975	**Condition As Left:**	In Tolerance - No Adjustment
Serial Number:	6390715	**Calibration Date:**	03/28/2012
PO Number:	WIPP1-PO600002 REV 6	**Calibration Due Date:**	03/28/2013
Cal. Procedure:	ECI-1050 Rev. 4 ECN 0	**Calibration Interval:**	12 Months

Remarks:
Calibration medium: Nitrogen

Standards Utilized

I.D. No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
S1-01417A	Dh Instruments	DHI S2	Mass, Set	12/06/2010	06/06/2012
S1-01417T	DH Instruments	5111	PRT, 100 Ohm	03/28/2011	03/28/2012
S1-01420B	DH Instruments	20 PSI/KG4-1600	Piston-Cylinder	07/06/2011	07/06/2015
S1-01420BM	DH Instruments	20 PSI/KG	Piston-Cylinder, Mass	03/01/2012	09/01/2012
S1-03909	Keithley	2000	Multimeter, Digital	12/20/2011	06/20/2012
S1-04000	Fluke	700PCK	Adapter, Pressure Calibration	05/19/2011	05/19/2012
S1-04019	DH Instruments	RPM4 A160KS/A160KS	Monitor, Reference Pressure	05/24/2011	05/24/2012

APPROVED
BY
DATE 4.26.12

Calibration Performed By:	Quality Reviewer:
Grosso, Dennis X — Name; Metrologist — Title; 714-895-0701 — Phone	4-5-2012 — Name; Date

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EDISON ESI Calibration Report

A SOUTHERN CALIFORNIA EDISON Co.

Test Point Data

FUNCTION TESTED	Nominal Value	As Found	As Left	Out of Tol	CALIBRATION TOLERANCE
Pressure Test	0.00 psig	0.00	Same		-0.25 to 0.25 psig
	50.00 psig	49.98	Same		49.75 to 50.25 psig
	100.00 psig	99.97	Same		99.75 to 100.25 psig
	150.00 psig	149.98	Same		149.75 to 150.25 psig
	200.00 psig	199.99	Same		199.75 to 200.25 psig
	250.00 psig	249.99	Same		249.75 to 250.25 psig
	300.00 psig	300.02	Same		299.75 to 300.25 psig
	350.00 psig	350.03	Same		349.75 to 350.25 psig
	400.00 psig	400.03	Same		399.75 to 400.25 psig
	450.00 psig	450.05	Same		449.75 to 450.25 psig
	500.00 psig	500.02	Same		499.75 to 500.25 psig
	450.00 psig	450.06	Same		449.75 to 450.25 psig
	350.00 psig	350.05	Same		349.75 to 350.25 psig
	250.00 psig	250.02	Same		249.75 to 250.25 psig
	150.00 psig	149.98	Same		149.75 to 150.25 psig
	50.00 psig	50.00	Same		49.75 to 50.25 psig
	0.00 psig	0.00	Same		-0.25 to 0.25 psig

Test Point Remarks

Range: 0 to 500 psig
Accuracy: ±0.05% F.S.

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION
REPORT NO. 86684

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

DIGITAL TACHOMETER

Manufacturer SHIMPO	Model No. DT-205L
Serial No. C082B0045	Inventory No. RM1294
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/SHDT205L.001 Temperature 74 F Humidity 31%
Calibration Date 06-27-2012	Recall Date 06-27-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

This report shall nor be duplicated except if in full or with written approval of Instrument Service Laboratories.

APPROVED
BY
DATE 7-19-12

Certified By P. LINDE - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 86684
PAGE 1 of 1
06-27-2012

ITEM CALIBRATED : SHIMPO DT-205L PHOTOTACHOMETER
: SERIAL NO. C082B0045
: CUSTOMER CONTROL NO. RM1294

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPPSITE
CARLSBAD, N.M. 87221

PROCEDURE : ISL/SHDT205L.001 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
TACHOMETER ACCURACY					
99999 RPM 10 RPM	10	+0		+/-	1 RPM
99999 RPM 100 RPM	100	+0		+/-	1 RPM
99999 RPM 1000 RPM	1000	+0		+/-	1 RPM
99999 RPM 2000 RPM	2000	+0		+/-	1 RPM
99999 RPM 5000 RPM	5000	+0		+/-	1 RPM
99999 RPM 8000 RPM	8000	+0		+/-	1 RPM
99999 RPM 10000 RPM	10000	+0		+/-	2 RPM
99999 RPM 20000 RPM	20000	+0		+/-	2 RPM
99999 RPM 30000 RPM	30000	+0		+/-	3 RPM
99999 RPM 50000 RPM	50000	+0		+/-	4 RPM
99999 RPM 90000 RPM	90000	+0		+/-	6 RPM

CERTIFIED Paul Rice

DATE 6-27-2012

INSTRUMENT SERVICE LABORATORIES

8340 Washington Street NE, Suite A
Albuquerque, New Mexico 87113
(505) 842-1107

ISL

CERTIFICATE of CALIBRATION

REPORT NO. 86684

Submitted By :

WASHINGTON TRU SOLUTIONS, LLC
WIPP SITE
CARLSBAD, NM 88220

Description

DIGITAL TACHOMETER

Manufacturer SHIMPO	Model No. DT-205L
Serial No. C082B0045	Inventory No. RM1294
As Received: Instrument was **IN-SPECIFICATIONS** at all points tested	As Returned: Instrument was **IN-SPECIFICATIONS** at all points tested
Comments: No Adjustment Required	Calibration Environment Procedure ISL/SHDT205L.001 Temperature 74 F Humidity 31%
Calibration Date 06-27-2012	Recall Date 06-27-2013

Instrument Service Laboratories certifies that the above listed instrument was calibrated in compliance with the requirements of **MIL-STD-45662A** and **ANSI/NCSL Z540-1-1994**. Instrument Service Laboratories measurement standards are traceable to the National Institute of Standards and Technology (NIST). Unless specifically noted, the calibration procedures used provide for measurement uncertainty of less than or equal to one quarter of the specification of the instrument under test.

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APPROVED

BY

DATE 7-19-12

Certified By P. LINDE - TECHNICIAN

Instrument Service Laboratories

DATA REPORT NO. 86684
PAGE 1 of 1
06-27-2012

ITEM CALIBRATED : SHIMPO DT-205L PHOTOTACHOMETER
: SERIAL NO. C082B0045
: CUSTOMER CONTROL NO. RM1294

SUBMITTED BY : WASHINGTON TRU SOLUTIONS
WIPPSITE
CARLSBAD, N.M. 87221

PROCEDURE : ISL/SHDT205L.001 06-01-96

FUNCTION	AS RECEIVED	ERROR	AS RETURNED	ERROR	TOLERANCE
TACHOMETER ACCURACY					
99999 RPM	10 RPM	10	+0	+/-	1 RPM
99999 RPM	100 RPM	100	+0	+/-	1 RPM
99999 RPM	1000 RPM	1000	+0	+/-	1 RPM
99999 RPM	2000 RPM	2000	+0	+/-	1 RPM
99999 RPM	5000 RPM	5000	+0	+/-	1 RPM
99999 RPM	8000 RPM	8000	+0	+/-	1 RPM
99999 RPM	10000 RPM	10000	+0	+/-	2 RPM
99999 RPM	20000 RPM	20000	+0	+/-	2 RPM
99999 RPM	30000 RPM	30000	+0	+/-	3 RPM
99999 RPM	50000 RPM	50000	+0	+/-	4 RPM
99999 RPM	90000 RPM	90000	+0	+/-	6 RPM

CERTIFIED Paul Rice

DATE 6-27-2012

EDISON ESI™ Calibration Report

A SOUTHERN CALIFORNIA EDISON Company

TEST NUMBER 659613

Metrology
7300 Fenwick Lane
Westminster, CA 92683
Toll Free: 866-723-2257

Washington TRU Solutions, LLC
WIPP Site
33 Miles SE of Carlsbad, NM
Attn: Warehouse
Carlsbad, NM 88220

Manufacturer: Spi
Model Number: PRO 3600
Description: Level, Digital
Asset Number: MS1145
Serial Number: 1145
Cal. Procedure: ECI-570 Rev. 1 ECN 2
PO Number: WIPP1-PO600002 REV 6

Ambient Temperature: 20.3 °C
Ambient Humidity: 46.1 %RH
Condition As Found: In Tolerance
Condition As Left: In Tolerance - No Adjustment
Calibration Date: 04/02/2012
Calibration Due Date: 04/02/2013
Calibration Interval: 12 Months

Standards Utilized

I.D. No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
S1-01295	Starrett	RC88LM	Gage Block, Set	11/07/2011	11/07/2012
S1-01306	Starrett	SS8A1X	Gage Block, Set, Long	02/15/2012	02/15/2013
S1-02142	Rahn	NONE	Plate, Surface, 48 X 96"	08/10/2011	08/10/2012
S1-02355	True Stone	NONE	Square, Granite, Master	10/11/2011	10/11/2012
S1-03241	Brown & Sharpe	599-925-10	Plate, Sine	12/06/2011	12/06/2012

APPROVED
BY
DATE 4-26-12

Calibration Technician			Quality Reviewer	
Gray, John W	Metrologist	714-895-0708		4-4-2012
Name	Title	Phone	Name	Date

This report may not be reproduced, except in full, without written permission of this laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. The results stated in this report relate only to the items tested or calibrated. Measurements reported herein are traceable to SI units via national standards maintained by NIST. This laboratory and calibration are in compliance with ISO/IEC 17025:2005, ANSI/NCSL Z540-1-1994, MIL-STD-45662A, and 10CFR50, Appendix B.

EDISON ESI™ Calibration Report

A SOUTHERN CALIFORNIA EDISON™ Company

Test Point Data

FUNCTION TESTED	Nominal Value	AS FOUND	AS LEFT	CALIBRATION TOLERANCE
Level Position 1	0.0 °	0.04	Same	-0.1 to 0.1 °
Position 2	0.0 °	0.02	Same	-0.1 to 0.1 °
Position 3 Inverted	0.0 °	0.01	Same	-0.1 to 0.1 °
Position 4 Inverted	0.0 °	0.02	Same	-0.1 to 0.1 °
LINEARITY	15.0 °	15.1	Same	14.8 to 15.2 °
	30.0 °	30.0	Same	29.8 to 30.2 °
	45.0 °	45.0	Same	44.8 to 45.2 °
	90.0 °	90.0	Same	89.9 to 90.1 °
LINEARITY INVERTED	15.0 °	15.1	Same	14.8 to 15.2 °
	30.0 °	30.1	Same	29.8 to 30.2 °
	45.0 °	45.0	Same	44.8 to 45.2 °
	90.0 °	90.0	Same	89.9 to 90.1 °

Shortridge Instruments, Inc. AirData Multimeter Calibration Equipment

Order Number: E120265 Serial Number: M09011 Test Type: Initial As-Received (circled) Final (circled)

ABSOLUTE PRESSURE STANDARDS

ADM #02-R	S/N: 41741/42451	Heise Model: PPM-2	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 04/06/11	Due Date: 04/2012
ADM #04-R	S/N: 41743/42453	Heise Model: PPM-2	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 10/10/11	Due Date: 10/2012
ADM #06-R	S/N: 41742/42452	Heise Model: PPM-2	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 09/19/11	Due Date: 09/2012
ADM #08-R	S/N: 42186/43328	Heise Model: PPM-2	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 03/16/11	Due Date: 03/2012
ADM #10-R	S/N: 42203/43352	Heise Model: PPM-2	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 01/11/11	Due Date: 01/2012
ADM #12-R	S/N: 43166/44731	Heise Model: PPM-2	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 12/13/11	Due Date: 12/2012
ADM #14-R	S/N: 43412/45043	Heise Model: PPM-2	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 07/21/11	Due Date: 07/2012
ADM #18-R	S/N: 44581/46845	Heise Model: PPM-2	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 04/29/11	Due Date: 04/2012
ADM #20-R	S/N: 44582/46847	Heise Model: PPM-2	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 05/28/11	Due Date: 06/2012

#02-R, 04-R, 06-R, 08-R, 10-R, 12-R, 14-R Rated Accuracy: 0.05% fs (0.0305 in Hg) Range: 0-60 in Hg Resolution: 0.01 Uncertainty: < 0.0358
#18-R, 20-R Rated Accuracy: 0.05% fs (0.0305 in Hg) Range: 0-60 in Hg Resolution: 0.001 Uncertainty: < 0.0358

DIFFERENTIAL PRESSURE STANDARDS

ADM #01-L	S/N: 41739/42449	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 04/28/11	Due Date: 04/2012
ADM #01-R	S/N: 41739/42446	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 05/04/11	Due Date: 04/2012
ADM #02-L	S/N: 41741/42454	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 04/09/11	Due Date: 04/2012
ADM #03-L	S/N: 41738/42448	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date. 11/08/11	Due Date: 10/2012
ADM #03-R	S/N: 41738/42445	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 10/19/11	Due Date: 10/2012
ADM #04-L	S/N: 41743/42456	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 10/18/11	Due Date: 10/2012
ADM #05-L	S/N: 41740/42450	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 10/14/11	Due Date: 09/2012
ADM #05-R	S/N: 41740/42447	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 09/30/11	Due Date: 09/2012
ADM #06-L	S/N: 41742/42455	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 09/27/11	Due Date: 09/2012
ADM #07-L	S/N: 42185/42186	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 03/15/11	Due Date: 03/2012
ADM #07-R	S/N: 42185/43326	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 03/10/11	Due Date: 03/2012
ADM #08-L	S/N: 42186/43329	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 03/10/11	Due Date: 03/2012
ADM #09-L	S/N: 42202/43351	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 02/08/11	Due Date: 01/2012
ADM #09-R	S/N: 42202/43350	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 02/08/11	Due Date: 01/2012
ADM #10-L	S/N: 42203/43353	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 02/10/11	Due Date: 01/2012
ADM #11-L	S/N: 43165/44551	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 12/22/11	Due Date: 12/2012
ADM #11-R	S/N: 43165/44730	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 12/02/11	Due Date: 12/2012
ADM #12-L	S/N: 43168/44732	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 12/14/11	Due Date: 12/2012
ADM #13-L	S/N: 43415/45041	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 07/21/11	Due Date: 07/2012
ADM #13-R	S/N: 43415/45039	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 07/14/11	Due Date: 07/2012
ADM #14-L	S/N: 43412/45045	Heise Model: PPM-1	Mfgd & Calibrated by Dresser Industries (Ashcroft)	Calibration Date: 07/14/11	Due Date: 07/2012
ADM #17-L	S/N: 44579/46842	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 04/15/11	Due Date: 04/2012
ADM #17-R	S/N: 44579/46841	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 04/09/11	Due Date: 04/2012
ADM #18-L	S/N: 44581/46846	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 04/29/11	Due Date: 04/2012
ADM #19-L	S/N: 44580/46844	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 06/27/11	Due Date: 06/2012
ADM #19-R	S/N: 44580/46843	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 06/21/11	Due Date: 06/2012
ADM #20-L	S/N: 44582/46848	Heise Model: PPM-1	Mfgd & Calibrated by Ashcroft, Inc.	Calibration Date: 06/14/11	Due Date: 06/2012

#01-L, 03-L, 05-L, 07-L, 09-L, 11-L, 13-L, 17-L, 19-L Rated Accuracy: > 0.07% fs (0.000175 in wc) Range: 0.0-0.25 in wc Res.: 0.00001 Uncertainty: < 0.00035
#01-R, 03-R, 05-R, 07-R, 09-R, 11-R, 13-R, 17-R, 19-R Rated Accuracy: > 0.06% fs (0.003 in wc) Range: 0.0-5.0 in wc Res.: 0.0001 Uncertainty: < 0 00348
#02-L, 04-L, 06-L, 08-L, 10-L, 12-L, 14-L, 18-L, 20-L Rated Accuracy: > 0.06% fs (0.03 in wc) Range: 0.0-50.0 in wc Res.: 0.001 Uncertainty: < 0.0346

LOW VELOCITY EQUIVALENT CONFIRMATION STANDARDS

Vel Eqv Transfer Standard S/N: M02009	Model ADM-870C	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 12/13/11	Due Date: 12/2012
Vel Eqv Transfer Standard S/N: M02803	Model ADM-870C	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 01/24/12	Due Date: 01/2013
Vel Eqv Transfer Standard S/N: M02903	Model ADM-870C	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 12/13/11	Due Date: 12/2012
Vel Eqv Transfer Standard S/N: M10839	Model ADM-870C	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 12/13/11	Due Date: 12/2012
Vel Eqv Transfer Standard S/N: M10840	Model ADM-870C	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 12/13/11	Due Date: 12/2012
Vel Eqv Transfer Standard S/N: M10897	Model ADM-870C	Mfg'd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 01/24/12	Due Date: 01/2013
Vel Eqv Transfer Standard S/N: M10901	Model ADM-870C	Mfg'd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 12/13/11	Due Date: 12/2012

Rated Accuracy: Velocity ± 1.5 % ± 3.5 fpm Range: 100-5000 fpm Resolution: 0.1 Uncertainty: <5.00 fpm at 100 fpm; <7.50 fpm at 500 fpm

TEMPERATURE STANDARDS

RTD Simulator S/N: 249	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by Hart Scientific (Fluke)	Calibration Date: 01/24/08	Due Date: 01/2012
RTD Simulator S/N: 250	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by Hart Scientific (Fluke)	Calibration Date: 01/24/08	Due Date: 01/2012
RTD Simulator S/N: 253	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by Hart Scientific (Fluke)	Calibration Date: 01/24/08	Due Date: 01/2012
RTD Simulator S/N: 254	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by Hart Scientific (Fluke)	Calibration Date: 03/07/08	Due Date: 03/2012
RTD Simulator S/N: 256	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by Hart Scientific (Fluke)	Calibration Date: 03/07/08	Due Date: 03/2012
RTD Simulator S/N: 257	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by Hart Scientific (Fluke)	Calibration Date: 03/07/08	Due Date: 03/2012
RTD Simulator S/N. 292	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 12/19/11	Due Date: 12/2015
RTD Simulator S/N: 293	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 12/19/11	Due Date: 12/2015
RTD Simulator S/N: 294	Model RTD-1000/500	Mfgd by General Resistance	Calibrated by IET Labs	Calibration Date: 12/19/11	Due Date: 12/2015

Rated Accuracy: 0.025% of setting Range: 100 Ω to 11111.10 Ω Resolution: 0.01 Ω Uncertainty: ≤ 0.00032° F

Thermometer #1 S/N: 8A069/Thermistor S/N A410660	Model 1504/5610	Mfgd & Calibrated by Hart Scientific (Fluke)	Calibration Date: 01/14/11	Due Date: 01/2013
Thermometer #2 S/N: 8B104/Thermistor S/N 871507	Model 1504/5610	Mfgd & Calibrated by Hart Scientific (Fluke)	Calibration Date: 11/09/10	Due Date: 11/2012
Thermometer #4 S/N: 92143/Thermistor S/N A872310	Model 1504/5610	Mfgd & Calibrated by Hart Scientific (Fluke)	Calibration Date: 08/30/10	Due Date: 08/2012
Thermometer #5 S/N: B11780/Thermistor S/N B10505	Model 1504/5610	Mfgd & Calibrated by Hart Scientific (Fluke)	Calibration Date: 01/24/11	Due Date. 01/2013
Thermometer #6 S/N: B11782/Thermistor S/N B10509	Model 1504/5610	Mfg'd & Calibrated by Hart Scientific (Fluke)	Calibration Date: 01/24/11	Due Date: 01/2013

Rated Accuracy(combined): 0.023° F/0.018° F Range: 32° F-176° Resolution: 0.001° F Combined Uncertainty with Baths: ≤ 0.040° F

Temp Transfer Standard S/N M00136	Model ADM-870	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 10/25/11	Due Date: 10/2012
Temp Transfer Standard S/N M96100	Model ADM-870	Mfgd & Calibrated by Shortridge Instruments, Inc.	Calibration Date: 03/08/11	Due Date: 03/2012

Rated Accuracy: 0.03° F Range: 33° F-158° F Resolution: 0.01° F Uncertainty: < 0.023° F
Total combined Uncertainty for MultiTemp and TemProbe testing : ≤ 0.046° F

This form must remain with the Certificate of Calibration corresponding to the Order Number listed above.

Shortridge Instruments, Inc.
7855 East Redfield Road Scottsdale, Arizona 85260 • (480) 991-6744 • Fax (480) 443-1267 • www.shortridge.com

AIRDATA MULTIMETER CERTIFICATE OF RECALIBRATION

S/N: MC9011
Order #: R120364

LOW VELOCITY CONFIRMATION (FPM)

TEST METER TOLERANCE = ± 3.0% ± 7 FPM AS-RECEIVED TEST WITHIN SPEC YES NO N/A See Notes

Vel Eqv Trans Std: S/N: M02009	As-Rcvd	Test 2	Test 3	Vel Eqv Trans Std: S/N: M10840	As-Rcvd	Test 2	Test 3
Vel Eqv Trans Std: S/N: M02803	As-Rcvd	Test 2	Test 3	Vel Eqv Trans Std: S/N: M10897	As-Rcvd	Test 2	Test 3
Vel Eqv Trans Std: S/N: M02903	As-Rcvd	Test 2	Test 3	Vel Eqv Trans Std: S/N: M10901	As-Rcvd	Test 2	Test 3
Vel Eqv Trans Std: S/N: M10839	As-Rcvd	Test 2	Test 3				

Approx Set Point	Standard	Test Meter	Diff	Standard	Test Meter	Diff	Standard	Test Meter	Diff
100	102	101	-1	116	114	-2			
500	505	503	-2	519	516	-3			

ADM-880C, ADM-870/870C and ADM-860/860C AirData Multimeters are read in AirFoil Mode. ADM-850 Multimeters are read in Pitot Tube Mode.

TEMPERATURE TEST - AIRDATA MULTIMETER (° F)

TEST METER TOLERANCE = ± 0.2° F AS-RECEIVED TEST WITHIN SPEC YES NO N/A See Notes

RTD Simulator: S/N 249	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 250	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 253	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 254	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 256	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 257	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 292	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 293	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F
RTD Simulator: S/N 294	As-Rcvd	Test 2	Test 3	Set Point: 35.6° F	95° F	154.4° F

RTD Simulator Temperature Equivalent Set Point	Test Meter	Difference	Test Meter	Difference	Test Meter	Difference
35.60	35.6	0	35.7	.1		
95.00	95.0	0	95.0	0		
154.40	154.4	0	154.4	0		

NOTES: All equipment was calibrated IAW CO:03:01077 UFC:4200.00 & CO:04:01077 requirements.

The enclosed ADM Calibration Standards for Pressure and Temperature form(s) is/are an integral part of this calibration and must remain with this Certificate of Calibration. Note: There may be more than one such form included that pertains to this calibration.

Shortridge Instruments, Inc.
7855 East Redfield Road Scottsdale, Arizona 85260
(480) 991-6744 • Fax (480) 443-1267 • www.shortridge.com

CO ID: 005525 MULTITEMP AND TEMPROBE RECALIBRATION TEST REPORT Order #: 612568

Customer: WASHINGTON TRU SOLUTIONS, LLC City: CARLSBAD State: NM

Procedure used: Procedure for Calibration/Recalibration of MultiTemps and TemProbes SIP-CP14 Revision: 02 Dated: 12/12/03

AS-RECEIVED TEMPERATURE TEST (° F)
TOLERANCE (METER, MULTITEMP AND TEMPROBE TESTED AS A UNIT) = ± 0.5° F
TEMPROBE TOLERANCE = ± 0.3° F

Thermometer #1 S/N 8A089 / Thermistor S/N A410660	Set Point: 35° F	95° F	155° F
Thermometer #2 S/N 8B104 / Thermistor S/N 871507	Set Point: 35° F	95° F	155° F
Thermometer #4 S/N 92143 / Thermistor S/N A872310	Set Point: 35° F	95° F	155° F
Thermometer #5 S/N B11780 / Thermistor S/N B10505	Set Point: 35° F	95° F	155° F
Thermometer #6 S/N B11782 / Thermistor S/N B10509	Set Point: 35° F	95° F	155° F
Temperature Standard AirData Multimeter S/N M00136	Set Point: 35° F	95° F	155° F
Temperature Standard AirData Multimeter S/N M96100	Set Point: 35° F	95° F	155° F

Test By: D. Ole Date: 02/02/2012 Rh: 30 % Ambient Temperature: 72 °F Barometric Pressure: 28.41 in Hg

Approx Set Point	Temp Standard	Test Probe #1 AOT- 44.6	Test Probe #2 ADT-	Test Probe #3 ADT-	Test Probe #4 ADT-	Test Probe #5 ADT-	Test Probe #6 ADT-	Test Probe #7 ADT-	Test Probe #8 ADT-
35°	35.0	35.0							
95°	95.0	95.0							
155°	155.0	155.1							

A check in the box to the right of a TemProbe reading indicates that the reading is Out Of Specification.

NOTES:

FINAL TEMPERATURE TEST (° F)
TOLERANCE (METER, MULTITEMP AND TEMPROBE TESTED AS A UNIT) = ± 0.5° F
TEMPROBE TOLERANCE = ± 0.3° F

Thermometer #1 S/N 8A089 / Thermistor S/N A410660	Set Point: 35° F	95° F	155° F
Thermometer #2 S/N 8B104 / Thermistor S/N 871507	Set Point: 35° F	95° F	155° F
Thermometer #4 S/N 92143 / Thermistor S/N A872310	Set Point: 35° F	95° F	155° F
Thermometer #5 S/N B11780 / Thermistor S/N B10505	Set Point: 35° F	95° F	155° F
Thermometer #6 S/N B11782 / Thermistor S/N B10509	Set Point: 35° F	95° F	155° F
Temperature Standard AirData Multimeter S/N M00136	Set Point: 35° F	95° F	155° F
Temperature Standard AirData Multimeter S/N M96100	Set Point: 35° F	95° F	155° F

Test By: Date: Rh: % Ambient Temperature: °F Barometric Pressure: in Hg

Approx Set Point	Temp Standard	Test Probe #1 ADT-	Test Probe #2 ADT-	Test Probe #3 ADT-	Test Probe #4 ADT-	Test Probe #5 ADT-	Test Probe #6 ADT-	Test Probe #7 ADT-	Test Probe #8 ADT-
35°									
95°									
155°									

NOTES:

Calibration standards used by Shortridge Instruments, Inc. are traceable to NIST (National Institute of Standards and Technology). Calibration is performed in accordance with ANSI/NCSL Z540-1-1994, ISO 17025, MIL-STD 45662A and manufacturer's specifications. Calibration accuracy is certified when meters are used with properly functioning accessories only. This report shall not be reproduced, except in full, without the written approval of Shortridge Instruments, Inc. Results relate only to the item calibrated. Limitations on use: See Shortridge Instruments, Inc. Instruction Manual for the use of AirData Multimeters.

The enclosed ADM or HDM Calibration Standards form(s) is/are an integral part of this calibration and must remain with this Certificate of Calibration. Note: There may be more than one such form included that pertains to this calibration.

Calibration Approved by: J. Normand Title: QA Mgr Date: 02/13/2012

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Tektronix
Service Solutions

Certificate of Calibration

6367491

Instrument Identification

Company ID: 109469
WASHINGTON TRU SOLUTIONS - CARLSBAD
PO BOX 2078
26 MILES SOUTH EAST OF CARLSBA
CARLSBAD, NM 88221

PO Number: CC- JAMES PHILLIPS

Instrument ID: **87579B** QV1186
Manufacturer: DAVIS INSTRUMENTS
Description: ANEMOMETER

Model Number: A/2 4 INCH BB
Serial Number: 87579B

Accuracy: ±2% of reading after correction calculations

OOT

Certificate Information

Reason For Service: REPAIR AND CALIBRATION
Type of Cal: REPAIR AND CAL
As Found Condition: FUNCTIONAL FAILURE
As Left Condition: IN TOLERANCE, REPAIRED
Procedure: 33K6-4-1769-1 AIR VELOCITY, TEMEPERATURE, FLOW METERS
Remarks: *As found: Vane assembly soiled. Refurbished unit. A test uncertainty ratio (TUR) of at least 1 6/1 was maintained.*

Technician: JAMES PRESTON
Cal Date 13Jul2012
Cal Due Date: 13Jul2013
Interval: 12 MONTHS
Temperature: 24.9 C
Humidity: 46.3 %

Tektronix Service Solutions certifies the performance of this instrument has been verified using equipment of known accuracy which are traceable to National Metrology Institutes (NIST, NPL, PTB) which are traceable to the International System of Units (SI), derived from ratio type measurements, compared to reference materials or recognized consensus standards. The policies and procedures used comply with ANSI/NCSL Z540.1-1994. The quality system is registered to ISO9001.
This certificate shall not be reproduced, except in full, without the written consent of Tektronix Service Solutions.

APPROVED
BY
DATE 7-30-12

Approved By: JAMES PRESTON
Service Representative

Calibration Standards

NIST Traceable#	Inst. ID#	Description	Manufacturer	Model	Cal Date	Date Due
5935075	01-0110	HANDHELD CALIBRATOR	ASHCROFT	ATE-100	06Feb2012	06Feb2013
5716107	01-0287	RESONANT SENSOR BAROMETER	DRUCK	DPI 141	08Dec2011	08Dec2012
5939038-1	01-0818	HUMIDITY & TEMPERATURE METER	VAISALA	HM34C	28Feb2012	28Feb2013
5312637	01-0858	PRESSURE MODULE (10 INCHH2O ±0 06%FS)	ASHCROFT	AQS-1	18Jul2011	18Jul2012

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Tektronix
Service Solutions

Certificate of Calibration

6367491

Calibration Standards

NIST Traceable#	Inst. ID#	Description	Manufacturer	Model	Cal Date	Date Due
5586653	01-1288	THERMOMETER, TWEENER	HART SCIENTIFIC	1502A	20Oct2011	20Oct2012
5589616	01-1731	SECONDARY REFERENCE PROBE	HART SCIENTIFIC	5615	20Oct2011	20Oct2012
6020144	01-1883	STOP WATCH	SPER SCIENTIFIC	810013R	26Mar2012	26Mar2013
5939886	01-1951	ANEMOMETER	OMEGA	HHF-142	22Feb2012	22Feb2013

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Certificate of Calibration

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✓ In Tolerance ✘ Out of Tolerance

Calibration Data

Range	Nominal	As Found		As Left		Min	Max
Air Velocity FPM							
	185		✘	185	✓	181	189
	505		✘	508	✓	495	515
	1030		✘	1038	✓	1009	1051
	2065		✘	2081	✓	2024	2106
	3120		✘	3151	✓	3058	3182

End of Datasheet

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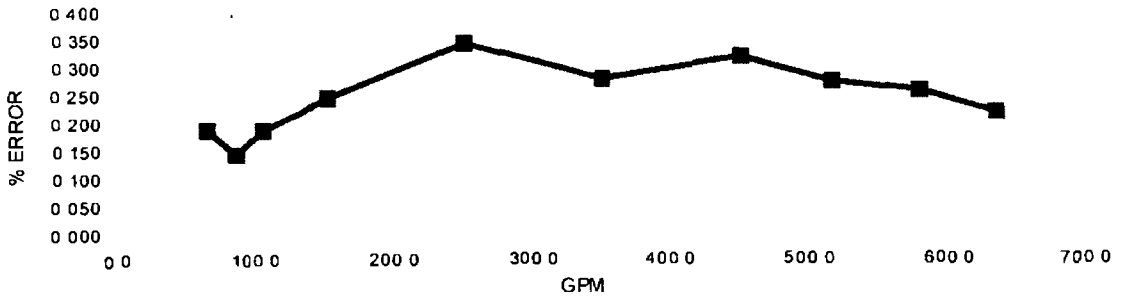
CL-122

CERTIFICATE OF CALIBRATION

CUSTOMER:	SIERRA INSTRUMENTS	**CALIBRATION DATE:**	04/18/2012
PO NUMBER:	N3116	**CALIBRATION DUE:**	04/18/2013
INST. MANUFACTURER:	SIERRA INSTRUMENTS	**PROCEDURE:**	NAVAIR-17-20MG-28
INST. DESCRIPTION:	ULTRASONIC FLOWMETER	**CALIBRATION FLUID:**	H2O @ 70F
MODEL NUMBER:	INNOVA SONIC 210i	**STANDARD(S) USED:**	A33, A14 DUE 9-2012
SERIAL NUMBER:	V1006758	**NIST TRACE #' S:**	1219670781,1222859163
RATED UNCERTAINTY:	+/- 1% RD.	**AMBIENT CONDITIONS:**	762 mmHGA, 40% RH, 71F
UNCERTAINTY GIVEN:	+/- .082% RD.; K=2	**CERTIFICATE FILE #:**	447172

NOTES: AS RECEIVED / AS LEFT WITHIN SPECS. ** CALIBRATED ON 3" SCH.40 STEEL PIPE **

TEST POINT NUMBER	UUT INDICATED GPM	DM.STD. ACTUAL GPM	% RD. ERROR
1	64.4	64.519	0.185
2	85.2	85.320	0.141
3	104.7	104.893	0.184
4	152.2	152.566	0.240
5	250.1	250.947	0.339
6	349.9	350.858	0.274
7	451.4	452.808	0.312
8	516.3	517.689	0.269
9	579.1	580.559	0.252
10	634.1	635.456	0.214



All instruments used in the performance of the shown calibration have traceability to the National Institute of Standards and Technology (NIST). The uncertainty ratio between the calibration standards (DM.STD.) used and the unit under test (UUT) is a minimum of 4:1, unless otherwise noted. Calibration has been performed per the shown procedure number, in accordance with ISO 10012:2003, ISO 17025:2005, ANSI/NCSL-Z 540.3, and/or MIL-STD-45662A. Test methods: API2530-92 & ASME MFC-3M-1989.

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Phone (714) 827-1215 • Fax (714) 827-0823

This Calibration Certificate shall not be reproduced except in full without approval by DICK MUNNS COMPANY. The data shown applies only to the instrument being calibrated and under the stated conditions of calibration

Date: 4-18-2012 Approved By: Calibration Technician: S. A.

Page 1 of 1

CHAMPS Preventative Maintenance Cover sheet

Work Order: 1214186 **Method** Preventive Maintenance **State:** 60 - RTW

Description: 73P006 MNG FO PLANT COMMUNICATIONS SYSTEM (RCRA)

Equipment I.D.: 73-P-006 **PM I.D:** WP04-PC3017

Equipment Name: ANNOUNCING PANEL PA & INTERCOM SYSTEM **Management Level:** ML-4

Function Class: BoP **System:** PC03 **Parent:**

Location: 451 **Room:** 229 CMR

Dept: FACOP

Priority: 3A

Planner: HRT COMPLETE, **Assign to:** FACILITY OPERATIONS

Labor Account: W126010101

RCRA

INCIDENT ENERGY: N/A	
COM Lockout/Tagout Y (N) No. _____ (if required) [ ]PLD LO/TO [X]N/A	
COM Release/Date 013113	WGM Release/Date: 013113
Work Authorized By: **Signature/Date:** 013113	
Work Area Inspection completed: **Worker/Date:** DD 013113	**Task completed by:** Dennis Davis **Worker/Date:** DD 013113
FWM Work Complete/Date: 013113	COM Retest Comp/Date: N/A
COM Work Complete/Date: 013113	
Overview of Work Performed: Performed monthly test per WP 04-PC3017. SAT with the exception of S 550 office. AR submitted #1301222	
Task Preview Performed (sign and Date): 013113	
Work Control/Date: 013113	
Due Date: ~~1/24/2013~~ 1/31/2013	Trade ID: FOTEC Next Due Date: 2/28/2013

Attachment 1 –Essential Plant Communication Systems Test Record

Step 1.14	PA Alarm System test announcements made	DD 1330 Initials/Time
Step 2.12	Underground Evacuation Alarm System test announcements made.	DD 1332 Initials/Time
Step 3.2	SNS test announcement made.	DD 1334 Initials/Time

Mine Phone Location	Underground to CMR Page	Voice Communications Understandable	CMR to Underground Page	
S1000 Assembly Area	✓	✓	✓	DD 1346 Initials/Time
S1950 Assembly Area	✓	✓	✓	DD 1340 Initials/Time
S550 Watch station	✓	✓	✓	DD 1346 Initials/Time
WH Shaft Station Assembly Area	✓	✓	✓	DD 1343 Initials/Time
SH Shaft Station Assembly Area	✓	✓	✓	DD 1343 Initials/Time
Step 4.2	Essential Underground Mine Phone Test – Check if satisfactory: Otherwise, record deficiency and corrective action taken in comments section.			DD 1345 Initials/Time

Mine Phone Location	Surface to CMR Page	Voice Communication Understandable	CMR to Surface Page	
Lamp Room	✓	✓	✓	DD 1342 Initials/Time
FSM Desk	✓	✓	✓	DD 1348 Initials/Time
Mine Rescue Room	✓	✓	✓	DD 1342 Initials/Time
EOC	✓	✓	✓	DD 1343 Initials/Time
Step 4.4	Essential Surface Mine Phone Test – Check if satisfactory: Otherwise, record deficiency and corrective action taken in comments section.			DD 1345 Initials/Time

Comments: U/G FE Reported THAT They could NOT Hear Intro of U/G Exit Alarm FROM S550 Watch STATION FSM Notified AR submitted #301222

Persons initialing for Step completion in this procedure, complete the following:

Print Name	Initials	Date
Dennis Davis	DD	01/31/13
N/A	/	/

RECORD VALIDATION:

Print Name	Initials	Date
Mark Ly	ML	01/31/13

Page 2 of 2

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CHAMPS Preventative Maintenance Cover sheet

Work Order: **1213006** **Method** Preventive Maintenance **State:** 60 - RTW

Description: 73P006 MNG FO PLANT COMMUNICATIONS SYSTEM (RCRA)

Equipment I.D.: 73-P-006 **PM I.D:** WP04-PC3017

Equipment Name: ANNOUNCING PANEL PA & INTERCOM SYSTEM **Management Level:** ML-4

Function Class: BoP **System:** PC03 **Parent:**

Location: 451 **Room:** 229 CMR

RCRA

Dept: FACOP

Priority: 3A

Planner: HRT COMPLETE, **Assign to:** FACILITY OPERATIONS

Labor Account: W126010101

INCIDENT ENERGY: N/A	
COM Lockout/Tagout Y (N) No. _____ (if required) [ ]PLD LO/TO [ ]~~N/A~~	
COM Release/Date [signature] 12/27/12	WGM Release/Date: N/A
Work Authorized By: **Signature/Date:** [signature] 12/27/12	
Work Area Inspection completed: **Worker/Date:** N/A	**Task completed by:** **Worker/Date:** N/A
FWM Work Complete/Date: N/A	COM Retest Comp/Date: N/A
COM Work Complete/Date: [signature] 12/27/12	
Overview of Work Performed:	
Completed Plant Comm monthly test per WP04-PC3017. SAT	
Task Preview Performed (sign and Date): [signature] 12/27/12	
Work Control/Date: Lisa Self 1/2/13	
Due Date: 12/27/2012 Trade ID: FOTEC Next Due Date: 1/24/2013	

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November 19, 2012

Attachment 1 –Essential Plant Communication Systems Test Record

Step 1.14	PA Alarm System test announcements made	LD / 1040 Initials/Time
Step 2.12	Underground Evacuation Alarm System test announcements made.	LD / 1045 Initials/Time
Step 3.2	SNS test announcement made.	LD / 1050 Initials/Time

Mine Phone Location	Underground to CMR Page	Voice Communications Understandable	CMR to Underground Page	
S1000 Assembly Area	✓	✓	✓	LD / 1026 Initials/Time
S1950 Assembly Area	✓	✓	✓	LD / 1028 Initials/Time
S550 Watch station	✓	✓	✓	LD / 1027 Initials/Time
WH Shaft Station Assembly Area	✓	✓	✓	LD / 1029 Initials/Time
SH Shaft Station Assembly Area	✓	✓	✓	LD / 1029 Initials/Time
Step 4.2	Essential Underground Mine Phone Test – Check if satisfactory. Otherwise, record deficiency and corrective action taken in comments section			LD / 1030 Initials/Time

Mine Phone Location	Surface to CMR Page	Voice Communication Understandable	CMR to Surface Page	
Lamp Room	✓	✓	✓	LD / 1025 Initials/Time
FSM Desk	✓	✓	✓	LD / 1026 Initials/Time
Mine Rescue Room	(1)	✓	✓	LD / 1022 Initials/Time
EOC	✓	✓	✓	LD / 1021 Initials/Time
Step 4.4	Essential Surface Mine Phone Test – Check if satisfactory: Otherwise, record deficiency and corrective action taken in comments section			LD / 1027 Initials/Time

Comments (1) Mine Rescue PHone will not PAge out

WORKING COPY
Revision Checked
Page Checked
NAME Russ Stoke
SIGN Russ Stoke
Date 12-27-12

Persons initialing for Step completion in this procedure, complete the following:

Print Name	Initials	Date
L. D. CAmillo	L.D.	12-27-12
	/	/

RECORD VALIDATION

Print Name	Initials	Date
Russ Stoke	RS	12-27-12

L.D. 12-27-12

(1) ~~MINE PHONE WON'T PAGE OUT.~~

Page 2 of 2

CHAMPS Preventative Maintenance Cover sheet

Work Order: 1214186 **Method** Preventive Maintenance **State:** 60 - RTW

Description: 73P006 MNG FO PLANT COMMUNICATIONS SYSTEM (RCRA)

Equipment I.D.: 73-P-006 **PM I.D:** WP04-PC3017

Equipment Name: ANNOUNCING PANEL PA & INTERCOM SYSTEM **Management Level:** ML-4

Function Class: BoP **System:** PC03 **Parent:**

Location: 451 **Room:** 229 CMR

Dept: FACOP

Priority: 3A

Planner: HRT COMPLETE, **Assign to:** FACILITY OPERATIONS

Labor Account: W126010101

RCRA

INCIDENT ENERGY: N/A	
COM Lockout/Tagout Y (N) No. _____ (if required) [ ]PLD LO/TO [X]N/A	
COM Release/Date 013113	WGM Release/Date: 013113
Work Authorized By: **Signature/Date:** 013113	
Work Area Inspection completed: **Worker/Date:** DD 013113	**Task completed by:** Dennis Davis **Worker/Date:** DD 013113
FWM Work Complete/Date: 013113	COM Retest Comp/Date: N/A
COM Work Complete/Date: 013113	
Overview of Work Performed: Performed monthly test per WP 04-PC3017. SAT with the exception of S 550 office. AR submitted #1301222	
Task Preview Performed (sign and Date): 013113	
Work Control/Date: 013113	
Due Date: ~~1/24/2013~~ 1/31/2013	Trade ID: FOTEC Next Due Date: 2/28/2013

Attachment 1 –Essential Plant Communication Systems Test Record

Step 1.14	PA Alarm System test announcements made	DD 1330 Initials/Time
Step 2.12	Underground Evacuation Alarm System test announcements made.	DD 1332 Initials/Time
Step 3.2	SNS test announcement made.	DD 1334 Initials/Time

Mine Phone Location	Underground to CMR Page	Voice Communications Understandable	CMR to Underground Page	
S1000 Assembly Area	✓	✓	✓	DD 1346 Initials/Time
S1950 Assembly Area	✓	✓	✓	DD 1340 Initials/Time
S550 Watch station	✓	✓	✓	DD 1346 Initials/Time
WH Shaft Station Assembly Area	✓	✓	✓	DD 1343 Initials/Time
SH Shaft Station Assembly Area	✓	✓	✓	DD 1343 Initials/Time
Step 4.2	Essential Underground Mine Phone Test – Check if satisfactory: Otherwise, record deficiency and corrective action taken in comments section.			DD 1345 Initials/Time

Mine Phone Location	Surface to CMR Page	Voice Communication Understandable	CMR to Surface Page	
Lamp Room	✓	✓	✓	DD 1342 Initials/Time
FSM Desk	✓	✓	✓	DD 1348 Initials/Time
Mine Rescue Room	✓	✓	✓	DD 1342 Initials/Time
EOC	✓	✓	✓	DD 1343 Initials/Time
Step 4.4	Essential Surface Mine Phone Test – Check if satisfactory: Otherwise, record deficiency and corrective action taken in comments section.			DD 1345 Initials/Time

Comments: U/G FE Reported THAT They could NOT Hear Intro of U/G Evac Alarm FROM S550 Watch STATION FSM Notified AR submitted #301222

Persons initialing for Step completion in this procedure, complete the following:

Print Name	Initials	Date
DENNIS DUNN	DD	01/31/13
N/A		

RECORD VALIDATION:

Print Name	Initials	Date
Mal Ly	ML	01/31/13

Page 2 of 2

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CHAMPS Preventative Maintenance Cover sheet

Work Order: 1300519 **Method** Preventive Maintenance **State:** 60 - RTW

Description: 41B700B 41F30702 QTG IT FLOW (RCRA)

Equipment I.D.: 41F30702 **PM I.D:** IC041098

Equipment Name: FLOW CONTROL **Management Level:** ML-4

Function Class: BoP **System:** VU01 **Parent:** 41-B-700B

Location: 413 **Room:** SOUTH EAST OUTSIDE OF 413

Dept: FACOP

Priority: 3A

RCRA

Planner: HRT COMPLETE, **Assign to:** SELF, RANDY

Labor Account: W126030301

INCIDENT ENERGY: ST 3/21/13 0.0	
COM Lockout/Tagout (Y) (N) No. ~~13-F0~~ ST 3/21/13 (if required) [ ]PLD LO/TO [ ]N/A	
COM Release/Date 022113	WGM Release/Date: 2/26/13
Work Authorized By: **Signature/Date:** 022113	
Work Area Inspection completed: **Worker/Date:** 2-27-13	**Task completed by:** **Worker/Date:** 2-27-13
FWM Work Complete/Date: 3/20/13	COM Retest Comp/Date: 3/19/13
COM Work Complete/Date: 3/19/13	
Overview of Work Performed: PM Performed Set No Adjustments Made	
Post Job: No Comment	
Task Preview Performed (sign and Date): 2/26/13 D. Bannister 022713 2-27-13	
Work Control/Date: Sherry Sidwell 3/21/2013	
Due Date: 2/18/2013 Trade ID: ITECH Next Due Date: 5/20/2013	

ATTACHMENT 1 – SIGN-OFF SHEET

M&TE Documentation

Instrument Description	Used At Step	Instrument Number	Date Cal Due	M&TE Initials
MULTIMETER, AIR DATA, Range 25-10,000; Accuracy ± 3.0%, ± 7 fpm; Recommend SHORTRIDGE Model ADM-870; Calibrated Actual Equipment Used:	[ ] 8.1.4	QV1289	3-23-13	QA

PREREQUISITES

Section	Action	Initials
[ ] 7.2.2.1	All personnel involved in the performance of this work discuss hazards, precautions and mitigating actions to be taken for the chemical being used.	CRAFT JJ
[ ] 7.2.4	Record Measurement and Test Equipment (M&TE) data as shown at M&TE Documentation table and verify all M&TE is within current calibration cycle.	CRAFT JJ

PERFORMANCE

Section	Action	Initials
[ ] 8.1.1.2	All personnel involved in the performance of this work discuss Working Height hazards, precautions and mitigating actions to be taken.	CRAFT JJ
[ ] 8.2.3	All personnel involved in the performance of this work read and discuss confined space hazards, precautions and mitigating actions to be taken.	CRAFT JJ
[ ] 8.2.4.1	RWP No. NA	OHP NA
[ ] 8.2.4.2	Personnel read the RWP, discussed radiological hazards, precautions and mitigating actions to be taken. If an RWP is not required, mark sign-off 'N/A'.	OHP NA

Section	Action	Initials
[ ] 8.2.5.1	Verify that components are positioned, tagged, and locked in accordance with WP 04-AD3011. Install Maintenance Locks as required.	CRAFT N/A
[ ] 8.2.6.1.1	Qualified Operator attempt to operate associated 700 Fan. Equipment shall not operate.	CRAFT N/A
[ ] 8.2.13	Remove maintenance locks and tags and request Operations to remove Tagout/Lockout from the equipment.	CRAFT N/A
[ ] 8.2.14	Record date of sensor cleaning and alignment check. Record any remedial actions in Comments section along with initials and date. Date: N/A	CRAFT N/A

Comments:
None

41F030704

Attachment 5 – Temporary Revision Notice

RCRA

SECTION 1 – DOCUMENT INFORMATION		
Document Number	Rev. No.	Document Title
IC041098	1	U/G EXHAUST MASS FLOW MEASUREMENT SYSTEM FOR FANS 7000
WIPP HWFP Screening Performed By		Printed Name and Signature JOHN BARCOA

[ ] Permit Screening Attached [ ] Permit Screening N/A Permanent Change Required Yes ✓ No ___

Reason for Change: SIMPLIFY DATA TAKING. KEEP CFM READING AND SCFM READING SEPERATE

SECTION 2 – REVIEWERS			
ORGANIZATION	PRINTED NAME	SIGNATURE	DATE
Planner	R. SELF	[signature]	1-9-13
Cog Eng.	R. SELF for S. FRENSDORFF	[signature]	1-8-13

ORGANIZATION	PRINTED NAME	SIGNATURE	DATE
I+C Maint.	Randy Mason	Randy Mason	1 09 13

Page 1 of 10

CHAMPS Preventative Maintenance Cover sheet

Work Order: 1213627 **Method** Preventive Maintenance **State:** 60 - RTW

Description: 41B700C 41F30704 QTG IT FLOW (RCRA)

Equipment I.D.: 41F30704 **PM I.D:** IC041098

Equipment Name: FLOW CONTROL **Management Level:** ML-4

Function Class: BoP **System:** VU01 **Parent:**

Location: 413 **Room:** SOUTH EAST OUTSIDE OF 413

Dept: FACOP

Priority: 3A

Planner: HRT COMPLETE, **Assign to:** SELF, RANDY

Labor Account: W126030301

RCRA

INCIDENT ENERGY:	
COM Lockout/Tagout (Y) N No. 13-FO-025 (if required) [ ]PLD LO/TO [ ]N/A	
COM Release/Date: 010613	WGM Release/Date: 010713
Work Authorized By: **Signature/Date:** 010613	N/A
Work Area Inspection completed: **Worker/Date:** 1-7-13	**Task completed by:** **Worker/Date:** 1-10-13
FWM Work Complete/Date: 10 Jan 2013	COM Retest Comp/Date: N/A
COM Work Complete/Date: 012213	
Overview of Work Performed: PM Performed Sat. Found OOT Cleaned probes Returned in tolerance	
Post Job: No Comments	01-07-13 10 Jan 2013
Task Preview Performed (sign and Date): 010713 1-7-13 1-10-13	
Work Control/Date: 1/25/2013	
Due Date: 12/31/2012 Trade ID: ITECH Next Due Date: 3/25/2013	

ATTACHMENT 1 – SIGN-OFF SHEET

M&TE Documentation

Instrument Description	Used At Step	Instrument Number	Date Cal Due	M&TE Initials
MULTIMETER, AIR DATA, Range 25-10,000; Accuracy ± 3.0%, ± 7 fpm; Recommend SHORTRIDGE Model ADM-870; Calibrated Actual Equipment Used:	[ ] 8.1.4	QV1287	2-13-13	BA

PREREQUISITES

Section	Action	Initials
[ ] 7.2.2.1	All personnel involved in the performance of this work discuss hazards, precautions and mitigating actions to be taken for the chemical being used.	CRAFT JM
[ ] 7.2.4	Record Measurement and Test Equipment (M&TE) data as shown at M&TE Documentation table and verify all M&TE is within current calibration cycle.	CRAFT JM

PERFORMANCE

Section	Action	Initials
[ ] 8.1.1.2	All personnel involved in the performance of this work discuss Working Height hazards, precautions and mitigating actions to be taken.	CRAFT JM
[ ] 8.2.3	All personnel involved in the performance of this work read and discuss confined space hazards, precautions and mitigating actions to be taken.	CRAFT JM
[ ] 8.2.4.1	RWP No. N/A	OHP GG
[ ] 8.2.4.2	Personnel read the RWP, discussed radiological hazards, precautions and mitigating actions to be taken. If an RWP is not required, mark sign-off 'N/A'.	OHP N/A GG

Section	Action	Initials
[ ] 8.2.5.1	Verify that components are positioned, tagged, and locked in accordance with WP 04-AD3011. Install Maintenance Locks as required.	CRAFT Z.M
[ ] 8.2.6.1.1	Qualified Operator attempt to operate associated 700 Fan. Equipment shall not operate.	CRAFT Z.M
[ ] 8.2.13	Remove maintenance locks and tags and request Operations to remove Tagout/Lockout from the equipment.	CRAFT Z.M
[ ] 8.2.14	Record date of sensor cleaning and alignment check. Record any remedial actions in Comments section along with initials and date. Date: 1-8-13	CRAFT Z.M

Comments:

None

PERSONNEL DATA

PRINTED NAME	SIGNATURE	INITIALS	DATE
G. BANNISTER	G. Bannister	GB	01-07-13
PAT ALLEN	Pat Allen	PA	1-7-13
Glen Galloway	Glen G	GG	1-7-13
F. Martinez	F. Martinez	F.M	1-7-13

ATTACHMENT - AS FOUND / AS LEFT TRAVERSE DATA SHEET

___ As Found / ___ As Left

Nominal Flow Rate 220 KSCFM

Date/Time: _____

Fan #:

TRN #1

Data Block 1 - Traverse Data

Depth inches	V_A ~~KSFM~~ FM	V_B ~~KSFM~~ FM	V_C ~~KSFM~~ FM	V_D ~~KSFM~~ FM	V_E ~~KSFM~~ FM	V_F ~~KSFM~~ FM
2.50	2629	3389	3389	3623	3890	4005
8.00	3240	3729	3477	3094	2604	0
14.00	3209	2833	2894	3195	2782	2108
21.25	1236	3002	2728	3287	3157	2556
30.00	3816	2953	3201	2389	2896	2385
42.75	3763	3081	3167	2587	3049	2612
~~Sensor Flow*~~						
CMS Flow** ~~(% x 350)~~	199	197	198	200	200	198
Average Flows & Velocity	V_{AVG} $\frac{\Sigma V_A + \Sigma V_B + \Sigma V_C + \Sigma V_D + \Sigma V_E + \Sigma V_F}{36}$				~~SF_{AVG}~~ ~~$\frac{\Sigma SF}{0}$~~	CMS_{AVG} $\frac{\Sigma CMS}{6}$
	2843					198

TRN #1

* ~~Sensor Flow read from display on the outside of the enclosure (standard flow).~~

** CMS Points (SCFM): 700A/~~B~~A V700A, 700B/~~B~~A V700B, 700C/~~B~~A V700C ~~(LPU636-AO1)~~

ATTACHMENT - ACCEPTANCE CRITERIA CALCULATION SHEET

___ As Found / ___ As Left Nominal Flow Rate 220 KSCFM

Data Block 2 - Relative Percent Difference Calculation

Reference Method Flow		
V_{AVG} ~~KSFM~~ KCFM	$Q_{RM} = V_{AVG} \times 78.5398\ ft^2$	Reference Method Flow (Q_{RM}) ~~KSCFM~~ KCFM
2843		223288.651
~~Sensor Flow~~		
~~SF_{AVG} KSCFM~~	~~$RPD = \frac{SF_{AVG} - Q_{RM}}{Q_{RM}} \times 100$~~	~~Relative Percent Difference ACCEPTANCE CRITERIA ± 5%~~
CMS Flow		
CMS_{AVG} ~~KSCFM~~	$RPD = \frac{CMS_{AVG} - Q_{RM}}{Q_{RM}} \times 100$	Relative Percent Difference ACCEPTANCE CRITERIA ± 5%
KCFM 198		11.2%

TRN#7

DATA BLOCK 3
Add BP (AP3175) + Temp (AP3174)

SENSOR FLOW (Fox meter) 210
Calculated FLOW 207

tolerance ± 5%

AP3175 BP 24.93
AP3174 temp -39.38

ATTACHMENT - AS FOUND / AS LEFT TRAVERSE DATA SHEET

___ As Found / ✓ As Left

Nominal Flow Rate 220 KSCFM

Date/Time: 1-10-13 10:00 AM

Fan #: 700 C

TRN #1

Data Block 1 - Traverse Data

Depth inches	V_A ~~KSFM~~	V_B ~~KSFM~~	V_C ~~KSFM~~	V_D ~~KSFM~~	V_E ~~KSFM~~	V_F ~~KSFM~~
2.50	FM 273	FM 3400	FM 2905	FM 2636	FM 2270	FM 0
8.00	2900	3239	3106	3049	2707	2213
14.00	1810	3386	3109	3060	2577	2739
21.25	3539	3204	3387	3214	2873	2613.
30.00	3601	3954	3111	3077	2933	2499
42.75	3914	3945	3341	3204	3069	3089
~~Sensor Flow *~~						
CMS Flow** ~~(% x 350)~~	219	222	218	220	220	220
Average Flows & Velocity	V_{AVG} $\frac{\Sigma V_A + \Sigma V_B + \Sigma V_C + \Sigma V_D + \Sigma V_E + \Sigma V_F}{36}$				~~SF_{AVG} $\frac{\Sigma SF}{6}$~~	CMS_{AVG} $\frac{\Sigma CMS}{6}$
	2698					220

* ~~Sensor Flow read from display on the outside of the enclosure (standard flow).~~

** CMS Points (SCFM): 700A/BV700A, 700B/BV700B, 700C/BV700C ~~(LPU636-AO1)~~

A A A

ATTACHMENT - ACCEPTANCE CRITERIA CALCULATION SHEET

___ As Found / ✓ As Left Nominal Flow Rate 220 KSCFM

Data Block 2 - Relative Percent Difference Calculation

Reference Method Flow		
V_{AVG} ~~KSFM~~ KCFM	$Q_{RM} = V_{AVG} \times 78.5398\ ft^2$	Reference Method Flow (Q_{RM}) ~~KSCFM~~ KCFM
2698		212
~~Sensor Flow~~		
~~SF_{AVG} KSCFM~~	~~$RPD = \frac{SF_{AVG} - Q_{RM}}{Q_{RM}} \times 100$~~	~~Relative Percent Difference ACCEPTANCE CRITERIA ± 5%~~
CMS Flow		
CMS_{AVG} ~~KSCFM~~	$RPD = \frac{CMS_{AVG} - Q_{RM}}{Q_{RM}} \times 100$	Relative Percent Difference ACCEPTANCE CRITERIA ± 5%
KCFM 220		3.8%

TAN#1

DATA BLOCK 3
Add BP (AP3175) + Temp (AP3174)

SENSOR FLOW	230
Calculated FLOW	230

tolerance ± 5%

AP3175 BP	24.93
AP3174 temp	-39.38

Attachment 13 – Authorization Sheet

WGM ENTER W/O NUMBER	WGM ENTER DATE TO BE WORKED	WGM ENTER SHIFT TO BE WORKED DAYS NIGHTS (24/7) SWINGS			AUTHORIZATION FSM OR U/G ENGINEER Signature	Date	TASK PREVIEW MANAGER OR DESIGNEE Signature	Date	Comments
1213627	010813	D	N	S	[illegible]	1-8-13	[illegible]	010813	Clean Probes
1213627	010913	D	N	S	[illegible]	1/9/13	[illegible]	010913	Performed Flow Check
1213627	011013	D	N	S	[illegible]	1-9-13	[illegible]	011013	Continue Work
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					
		D	N	S					

CHA Corrective Maintenance Work Sheet

Work Order: 1212425 **Method :**Corrective **State:**10 - Created

Description: EM02 CALIBRATE HAND HELD GAS MONITORS

Equipment I.D.: EM02 **Room:** SITE **Management Level:** ML-2

Equipment Name: SYSTEM WALKDOWN OF AIR QUALITY MONITORING

Function Class: BoP **System:**EM02

Location: 240

Dept: FACOP **USQ Screening or Evaluation No.** N/A (N/A If not Required)

Priority: 2

Planner: SELF, RANDY **Assign to:** SELF, RANDY

Account: W126030301 **Parent:**

Incident Energy: 0.0	ECO No CE/Date: N/A 10-31-12	Safety/Date: 10-31-12
Alara/Date: N/A	S. U. Eng/Date: N/A	QA/Date: N/A
RWP NO. N/A Rad Con/Date	NEPA/Date: N/A	Planner/CE/Date: 10-31-12
FPE/EMM/DATE N/A	WORKER/DATE 10-31-12	Worker/Date: N/A
FWM/DATE 10/31/12	WGM/DATE 10/31/12	WGM/Date: N/A
COM Review/DATE: 11/2/12		

PROPOSED LOCKOUT/TAGOUT [ ]COM LO/TO Tag Number_____ [ ]PLD LOTO [X]N/A

PROPOSED PLD LOCKOUT/TAGOUT LOCATION:_____ (N/A for COM Lockout/Tagout)

if PLD, Lockout/Tagout performed at recommended Location_____ / _____
Person performing PLD Date

COM Release/Date: N/R	WGM Release/Date: 11/1/12
Work Authorized By: Signature/Date: 11/1/12	QA Completed/Date:
Work Area Inspection Completed. Worker/Date: 11-1-12	Task Completed: Worker/Date: 10/10/13
FWM Work Completed/Date: 100813	COM retest Completed/Date
COM Work Complete/Date:	CE ECO Verified/Date:

Overview of Work Performed: (Problems, solutions, retest requirements, retest results, parts used and cost)

for Barnes 29 Nov 2012

Task Preview Performed (Sign and date) 11/1/12 11-1-12

COM, if cancelled, Sign/Date:	Work Control/Date:

Instrument Number: 240-AIG-000-012

DATA BLOCK 1
As Found

Calibration Gas Concentration			Instrument Readout Calibration			Instrument Readouts Clean Air		
Percent Oxygen	ppm Carbon Monoxide	Percent LEL	Percent Oxygen	ppm Carbon Monoxide*	Percent LEL	Percent Oxygen	ppm Carbon Monoxide	Percent LEL
20.9	57.7	10	20.4 – 21.4	55 - 61	5 - 10	20.1 – 21.7	0 +/-2	0 +/-0.5
			20.9	58	10	20.9	0	0

* Balance Nitrogen – Will result in O2 less than 3%.

Alarms (circle answer):

Low O2	Yes	No
High CO	Yes	No
High LEL	Yes	No

Jonny Rich 1/11-6-12
WORKER / DATE

Instrument Number: 240-AIG-000-012

DATA BLOCK 2
As Left

Calibration Gas Concentration			Instrument Readout - Calibration			Instrument Readouts – Clean Air		
Percent Oxygen	ppm Carbon Monoxide	Percent LEL	Percent Oxygen	ppm Carbon Monoxide*	Percent LEL	Percent Oxygen	ppm Carbon Monoxide	Percent LEL
20.9	57.7	10	20.4 – 21.4	55 - 61	5 - 10	20.1 – 21.7	0 +/-2	0 +/-0.5
			20.9	58	10	20.9	0	0

* Balance Nitrogen – Will result in O2 less than 3%.

Alarms (circle answer):

Low O2	Yes	No
High CO	Yes	No
High LEL	Yes	No

[signature] / 11-6-12
WORKER / DATE

Instrument Number: 240-AIG-000- 012

DATA BLOCK 2
As Left

Calibration Gas Concentration			Instrument Readout - Calibration			Instrument Readouts – Clean Air		
Percent Oxygen	ppm Carbon Monoxide	Percent LEL	Percent Oxygen	ppm Carbon Monoxide*	Percent LEL	Percent Oxygen	ppm Carbon Monoxide	Percent LEL
20.9	57.7	10	20.4 – 21.4	55 - 61	5 - 10	20.1 – 21.7	0 +/-2	0 +/-0.5
			20.7	N/A		20.9	N/A	

* Balance Nitrogen – Will result in O2 less than 3%.

Alarms (circle answer):

Low O2	Yes	No	
High CO	Yes	No	N/A
High LEL	Yes	No	TA 11-1-12

Tommy Rich 11-1-12
WORKER / DATE

Instrument (last 3 digits of instrument number) 012

DATA BLOCK 2
As Left

Calibration Gas Concentration					Instrument Readout - Calibration					Instrument Readouts – Clean Air				
%O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm	%O2	CO ppm*	% LEL*	H_2S ppm*	NO_2 ppm*	% O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm
20.9	57.7	10	25	25	20.4 – 21.4	55 - 61	5 - 15	23.7 – 26.3	23.7 – 26.3	20.1 – 21.7	0 +/-2	0 +/-0.5	0 +/-1	0 +/-1
					20.9	59	9	N/A	N/A	20.9	0	0	N/A	N/A

* Balance Nitrogen – Will result in O2 less than 3%.

Alarms (circle answer):

Low O2	Yes	No
High CO	Yes	No
High LEL	Yes	No
High H_2S	~~Yes~~ N/A	~~No~~
~~High NO_2~~	Yes	No

Frank Martinez / 11-29-12
WORKER DATE

Danny Richs 11-29-12

WO Number 1212435C, WCN#2

Instrument (last 3 digits of instrument number) 012

DATA BLOCK 1
As Found

Calibration Gas Concentration					Instrument Readout - Calibration					Instrument Readouts – Clean Air				
%O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm	%O2	CO ppm*	% LEL*	H_2S ppm*	NO_2 ppm*	% O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm
20.9	57.7	10	25	25	20.4 – 21.4	55 - 61	5 - 15	23.7 – 26.3	23.7 – 26.3	20.1 – 21.7	0 +/-2	0 +/-0.5	0 +/-1	0 +/-1
					20.9	59	9	N/A	N/A	20.9	0	0	N/A	N/A

* Balance Nitrogen – Will result in O2 less than 3%.

Alarms (circle answer):

Low O2	(Yes)	No
High CO	(Yes)	No
High LEL	(Yes)	No
High H_2S	Yes	No
~~High NO_2~~	~~Yes~~ N/A	~~No~~

Frank Martinez / 11-29-12
WORKER DATE

Tommy Ary 11-29-12

WO Number 1212435C, WCN#2

Instrument (last 3 digits of instrument number) 012

DATA BLOCK 2
As Left

Calibration Gas Concentration					Instrument Readout - Calibration					Instrument Readouts – Clean Air				
%O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm	%O2	CO ppm*	% LEL*	H_2S ppm*	NO_2 ppm*	% O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm
20.9	57.7	10	25	25	20.4 – 21.4	55 - 61	5 - 15	23.7 – 26.3	23.7 – 26.3	20.1 – 21.7	0 +/-2	0 +/-0.5	0 +/-1	0 +/-1
					20.9	56	10	N/A	N/A	20.9	0	0	N/A	N/A

* Balance Nitrogen – Will result in O2 less than 3%.

Alarms (circle answer):

Low O2	Yes	No
High CO	Yes	No
High LEL	Yes	No
High H_2S	Yes	No
High NO_2	Yes	No

N A

Kathy Sweeney / 1-10-13

WORKER DATE

WO Number 1212435C, WCN#2

Instrument (last 3 digits of instrument number) 012

DATA BLOCK 1
As Found

Calibration Gas Concentration					Instrument Readout - Calibration					Instrument Readouts – Clean Air				
%O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm	%O2	CO ppm*	% LEL*	H_2S ppm*	NO_2 ppm*	% O2	CO ppm	% LEL	H_2S ppm	NO_2 ppm
20.9	57.7	10	25	25	20.4 – 21.4	55 - 61	5 - 15	23.7 – 26.3	23.7 – 26.3	20.1 – 21.7	0 +/-2	0 +/-0.5	0 +/-1	0 +/-1
					20.9	58	10	N/A	N/A	20.3	0	0	N/A	N/A

* Balance Nitrogen – Will result in O2 less than 3%.

Alarms (circle answer):

Low O2	Yes	No
High CO	Yes	No
High LEL	Yes	No
~~High H_2S~~	~~N Yes~~	~~No~~
High NO_2	N Yes	No

Kathy Sweeney, 1-10-13
WORKER DATE

WO Number 1212435C, WCN#2

2/6/2012 07:34

CHAMPS Work Order

Work Order: 1202027 **Method** Preventive Maintenance **State:** 60 - RTW

Description: 45G601 LCO RELATED SR7, ANN IT ELECTRIC FIRE PUMP TEST

MODE COMPLIANCE

Equipment I.D.: 45-G-601 **PM I.D:** WP 12-FP5113

Equipment Name: ELECTRIC FIRE PUMP **Management Level:** ML-1

Function Class: SS **System:** FP01 **Parent:**

Location: 456 **Room:** PUMPHOUSE

Dept: FACOP

Priority: 3A

Planner: HRT COMPLETE, **Assign to:** ZONE 4 *

Labor Account: W126030301

INCIDENT ENERGY: 3.128 Cal/cm²

COM Lockout/Tagout Y (N) No. N/A (if required) [ ]PLD LO/TO [ ]N/A

COM Release/Date: 032112 3/21/12	WGM Release/Date: 032112
Work Authorized By: 3/21/12 **Signature/Date:** 3-19-12	
Work Area Inspection completed: **Worker/Date:** 3-21-12	**Task completed by:** **Worker/Date:** 4-25-12
FWM Work Complete/Date: 04 25 12	COM Retest Comp/Date: 4/25/12

COM Work Complete/Date: 4/25/12

Overview of Work Performed:

PM performed Sat All data in tolerance.

Task Preview Performed (sign and Date): 04 24 12 032112 4-24-12 4-24-12 4/2

~~Planner/Date:~~ 9/27/12

Work Control/Date: 9/27/2012

Due Date: 3/5/2012 Trade ID: ITECH Next Due Date: 3/4/2013

ORIGINAL

EA10-2-17-0 Rev 10

Attachment 1 – Verification and Validation Sheet

PREREQUISITE ACTIONS				
Work Order No.:		**Equipment No.:**		
M&TE DOCUMENTATION				
SECTION USED AT	**INSTRUMENT DESCRIPTION**	**INSTRUMENT NUMBER**	**CALIBRATION DUE DATE**	**INITIALS**
	Ammeter, recommend Fluke Model 33, calibrated Actual equipment used	AD 0507	11-28-12	Metrology
	Multimeter, recommend Fluke Model 87, calibrated Actual equipment used	AD 0339	2-9-13	Metrology
	Tachometer, Photo/Contact, recommend Shimpo Model DT-205B, calibrated Actual equipment used	RM 1293	5-5-12	Metrology
	Ultrasonic Flow Meter, recommend Controlotron Model 1010WDP1, calibrated Actual equipment used	QV 1295	1-24-13	Metrology
	Pressure Module, 0-500 PSI, recommend Fluke Model 700P07 – 2 each Actual equipment used	PV 0977 PV 0973	1-9-13 2-14-13	Metrology
	Process Calibrator, recommend FLUKE Model 702-743, Calibrated - 2 each Actual equipment used	AD 1030 AD 1309	6-2-12 6-16-12	Metrology

SECTION	ACTION	INITIALS
1.0	ZMM/ZS, conduct a pre-job safety meeting.	ZMM/ZS
7.0 **[LCO 3.1.1]**	Verify South Water Storage Tank is full, or near full, prior to initiation of fire pump test.	OPS
PERFORMANCE		
1.1	Prior to performance, discuss with all personnel involved in the performance of this work the liquid pressure hazards, precautions, and mitigating actions to be taken in the event of an incident.	ZMM/ZS

Attachment 1 – Verification and Validation Sheet

PREREQUISITE ACTIONS				
Work Order No.:		**Equipment No.:**		
M&TE DOCUMENTATION				
SECTION USED AT	**INSTRUMENT DESCRIPTION**	**INSTRUMENT NUMBER**	**CALIBRATION DUE DATE**	**INITIALS**
	Ammeter, recommend Fluke Model 33, calibrated Actual equipment used	AD0505	6/28/12	Metrology PA
	Multimeter, recommend Fluke Model 87, calibrated Actual equipment used	AD0339	2/9/13	Metrology PA
	Tachometer, Photo/Contact, recommend Shimpo Model DT-205B, calibrated Actual equipment used	RM1293	5/5/12	Metrology PA
	Ultrasonic Flow Meter, recommend Controlotron Model 1010WDP1, calibrated Actual equipment used	QV1295	1/24/13	Metrology PA
	Pressure Module, 0-500 PSI, recommend Fluke Model 700P07 – 2 each Actual equipment used	PV0973 PV0975	2/14/13 3/28/13	Metrology PA
	Process Calibrator, recommend FLUKE Model 702-743, Calibrated - 2 each Actual equipment used	AD1030 AD1309	6/2/12 6/16/12	Metrology PA

SECTION	ACTION	INITIALS
1.0	ZMM/ZS, conduct a pre-job safety meeting.	ZMM/ZS
7.0 **[LCO 3.1.1]**	Verify South Water Storage Tank is full, or near full, prior to initiation of fire pump test.	OPS
PERFORMANCE		
1.1	Prior to performance, discuss with all personnel involved in the performance of this work the liquid pressure hazards, precautions, and mitigating actions to be taken in the event of an incident.	ZMM/ZS

Attachment 1 – Verification and Validation Sheet

1.2	Record the following information: Pump: Patterson Pump 7.m 3-21-17 Manufacturer: US Electric S/N: 84PT8404-L6 Size/Type: 8x6 M4BS GPM: ~~1500~~ 7m 3-21-17 1500 RPM: 1770 PSIG: 125 Motor: Manufacturer: US Electric Motor ID #: CL2070110 Rated Horsepower: 200 Rated Speed: 1775 Volts: 460 Amps: 224 Service Factor (SF): 1.13 Controller: Manufacturer: Firetrol Inc. Catalog #: FTA1000-A4200 B-X	Craft 7.m
1.5	Place PLD Danger Tag on isolation valve FW-456-V-066.	Craft
1.10	Place PLD Danger Tag on isolation valve FW-456-V-065.	Craft
2.1	ZMM, prior to performance of this work, discuss: • Rotating equipment and pinch point hazards and precautions and mitigating actions to be taken • PPE to be used (insulation will be by PPE) • Electrical hazards and precautions and mitigating actions to be taken.	ZMM or Craft
2.13 **[LCO 3.1.1]** **[SR 4.1.1.7]**	Verify the electric fire pump is capable of ≥ 1500 GPM flow at ≥ 105 psig. Sat: ✓ Unsat:	OPS
2.20	Enable diesel fire pump, 45-G-062, by placing the selector switch in the Diesel Fire Pump Control Panel, 45P-CP-008-02, in the **AUTO** position.	OPS
2.21	Enable jockey pump, 45-G-603, by placing hand switch 456-HS-008-14, located at Pump Control Panel, 456-CP-008-03, in the **AUTO** position.	OPS
2.22	Open isolation valve FW-456-V-020.	OPS
2.23 **[LCO 3.1.1]**	OPS, verify water capacity ≥ 105,000 gallons in South Water Tank, 25-D-001A.	OPS
3.2	Place PLD Danger Tag on isolation valve FW-456-V-065.	Craft
3.7	Place PLD Danger Tag on isolation valve FW-456-V-066.	Craft
3.11	Verify if ultrasonic flow tranducers need to be left in place for diesel Fire Pump Flow Test or be removed.	Craft
4.1	Once the above Steps 1.1 through 2.23 have been signed off, restoration requirements have been satisfied and surveillance has been completed.	OPS

COMMENTS:

Attachment 1 – Verification and Validation Sheet

PERSONNEL DATA			
PRINTED NAME	SIGNATURE	INITIALS	DATE
Pat Allen	Pat Allen	PA	4-24-12
Randy Mason	Randy Mason	RM	04241 2
A.J. Mayes	A.J. Mayes	AJM	4-24-12
Gabby Kesler	[illegible]	[illegible]	4 24 12
J.L. Boyd	Jerry Lee Boyd	JLB	4-25-12
J Phillips	J Phillips	JP	9-26-12

DATA BLOCK 1			
PUMP FLOW	CHURN (Step 2.10) (< 1 GPM)	100% (Step 2.12) (≥ 1500 GPM)	150% (Step 2.15) (≥ 2250 GPM)
Flow GPM	0 ~~5.26~~ JLB 5-24-12	0	0
Discharge Pressure PSI	147	~~140~~ 149	88
Suction Pressure PSI	0.46	0.39	0.00
AMPS AØ (Br)	93	169	204
AMPS BØ (Or)	93	169	204
AMPS CØ (Yl)	87	169	198
VOLTS A B (Br to Or)	458	482	476
VOLTS B C (Or to Yl)	485	482	484
VOLTS A C (Br to Yl)	482	484	487
PUMP SPEED RMP	(Approx. 1700 – 1800 RPMs) ~~2986~~ 1770	(Approx. 1700 – 1800 RPMs) 1770	(Approx. 1700 – 1800 RPMs) 1770

5-24-12 JLB

Br = Brown
Or = Orange
Yl = Yellow

Working Copy

WIPP Plant Work Suspension

1. Work Order Number: 1202027 Date 3/26/12

2. Reason for Suspension:
Reschedule due to failed M&TE

3. Steps of work instruction completed: N/A

4. Work Group Manager Randy Moon Date 032612

5. System and Component status
Operational

OPERATIONS: [illegible] Date 3/26/12

6. TO/LO N/A

7. Operations Release [illegible] Date 4/23/12

8. Work Group Manager [illegible] Date 04/24/12

Attachment 13 – Authorization Sheet

WGM ENTER W/O NUMBER	WGM ENTER DATE TO BE WORKED	WGM ENTER SHIFT TO BE WORKED DAYS NIGHTS (24/7) SWINGS	AUTHORIZATION FSM OR U/G ENGINEER Signature	Date	TASK PREVIEW MANAGER OR DESIGNEE Signature	Date	Comments
1202027	042512	(D) N S	[signature]	4/25/12	[signature]	042512	Continue Work
		D N S					
		D N S					
		D N S					
		D N S					
		D N S					
		D N S					
		D N S					
		D N S					
		D N S					
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		D N S					

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

7. Names for fifteen individuals in the following positions: Hazardous Waste Workers, TRU Mixed Waste Handlers, Facility Shift Engineers, Facility Shift Managers, Central Monitoring Room Operators. Inspector is requesting summary of training records for three employees from each position of be provided to verify training and qualification are current.

   7.a <u>Names for fifteen individuals in the following positions: Hazardous Waste Workers, TRU Mixed Waste Handlers, Facility Shift Engineers, Facility Shift Managers, Central Monitoring Room Operators. Inspector is requesting summary of training records for three employees from each position of be provided to verify training and qualification are current. [13 pages]</u>

   Please refer to the password protected file, sent via email to Ms. Trais Kliphuis, to access the documentation requested for this item.

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

8. Copies of any coordinating agreements specified in the Contingency Plan, Section F-6 *sic Attachment* D that were revised from December 13, 2012 through September 11, 2013. Provide a copy of the current Contingency Plan as well, as of September 11, 2013.

8.a <u>Copies of any coordinating agreements specified in the Contingency Plan, Section F-6 [*sic*] Attachment D that were revised from December 13, 2011 through September 11, 2013. [2 pages]</u>

8.b Provide a copy of the current Contingency Plan as well, as of September 11, 2013.

Travis, Steve - WRES

From: Strait, Anne - NWP
Sent: Friday, October 04, 2013 10:48 AM
To: Travis, Steve - WRES
Subject: MOUs

There have been no approved changes to MOUs or other coordinating agreements specified in the contingency plan from December 2012 to the end of September 2013. Emergency Management is in the process of converting the current approved MOUs to a common format and updating information. There are specific ones that will be updated in 2014 as part of the NWP/DOE contract.

Anne Strait
Emergency Management
NWP - Contractor for the U.S. Department of Energy
Office (575) 234-8636
Fax (575) 234-6082

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

8. Copies of any coordinating agreements specified in the Contingency Plan, Section F-6 *sic Attachment* D that were revised from December 13, 2012 through September 11, 2013. Provide a copy of the current Contingency Plan as well, as of September 11, 2013.

   8.a Copies of any coordinating agreements specified in the Contingency Plan, Section F-6 [*sic*] Attachment D that were revised from December 13, 2011 through September 11, 2013.

   8.b <u>Provide a copy of the current Contingency Plan, as of September 11, 2013. [102 pages]</u>

ATTACHMENT D

RCRA CONTINGENCY PLAN

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ATTACHMENT D

RCRA CONTINGENCY PLAN

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ATTACHMENT D

RCRA CONTINGENCY PLAN

Introduction

The WIPP facility is owned and co-operated by the U.S. Department of Energy (**DOE**) and co-operated by its designated Management and Operating Contractor (**MOC**) (Permit Section 1.5.3).

This Contingency Plan was prepared in accordance with the Resource Conservation and Recovery Act (**RCRA**) requirements codified in 20.4.1.500 NMAC (incorporating 40 CFR §264.50 to §264.56), "Contingency Plan and Emergency Procedures," and submitted in compliance with 20.4.1.900 NMAC (incorporating 40 CFR §270.14(b)(7)). The purpose of this document is to define responsibilities, to describe coordination of activities, and to minimize hazards to human health and the environment from fires, explosions, or any sudden or nonsudden release of hazardous waste, or hazardous waste constituents to air, soil, or surface water (20.4.1.500 NMAC (incorporating 40 CFR §264.51 [a])). This plan consists of descriptions of processes and emergency responses specific to hazardous substances, contact-handled (**CH**) and remote-handled (**RH**) transuranic (**TRU**) mixed waste and other hazardous waste handled at the WIPP facility.

D-1 General Information

The WIPP facility is located 26 miles (mi) (42 kilometers [km]) east of Carlsbad, in Eddy County in southeastern New Mexico, and includes an area of 10,240 acres (ac) (4,144 hectares [ha]). The facility is located in an area of low-population density, with fewer than 30 permanent residents living within a 10 mi (16 km) radius of the facility. The area surrounding the facility is used primarily for grazing, potash mining, and mineral exploration. Resource development that would affect WIPP facility operations or the long-term integrity of the facility is not allowed within the 10,240 ac (4,144 ha) that have been set aside for the WIPP Project.

The WIPP facility is designed to receive containers of TRU waste, which will be transported to the WIPP facility from the ten major and other minor DOE TRU mixed waste generator and/or storage sites. The waste will be emplaced in the bedded salt of the Salado Formation, 2,150 feet (ft) (655 meters [m]) below ground surface.

As a geologic facility for the management of TRU mixed waste, the WIPP repository is regulated as a "miscellaneous unit," as defined under 20.4.1.500 NMAC (incorporating 40 CFR §264.601 to §264.603). The areas at the WIPP facility subject to this permit include the surface container storage areas in the Waste Handling Building (**WHB**) Container Storage Unit (**WHB Unit**) and the Parking Area Container Storage Unit (**Parking Area Unit**), located south of the WHB, and the areas below ground in which waste will be emplaced.

The WIPP facility includes other surface structures, shafts, and underground areas (Figures D-1, D-2, and D-3). Surface structures other than the WHB, that support TRU mixed waste management include:

Exhaust Filter Building - houses the filter banks to which the underground ventilation can be diverted in the unlikely event of an underground release of radionuclides.

Guard and Security Building - houses the facility security personnel and communications equipment necessary for them to perform their duties. Section D-4a specifies the duties of the security officers relative to contingency actions.

Safety and Emergency Services Building - houses the surface emergency response vehicles (fire truck, rescue truck, ambulance), Health Services (first aid), Emergency Operations Center, and the Dosimetry Laboratory. The Hazardous Material Response Trailer is staged at the WIPP facility in an area that is readily accessible to Emergency Services. Emergency Services is located in Building 452. Table D-6 describes emergency equipment and associated locations.

Support Building - houses the Central Monitoring Room (see section D-4a).

Transuranic Package Transporter-II (**TRUPACT-II**) Maintenance Facility - is located west of the CH bay. No TRU mixed waste management activities will occur in this facility.

Surface facilities used for storage of support equipment are identified in Table D-6.

Building 452, Safety and Emergency Services Facility, houses the emergency response vehicles, emergency equipment, the mine rescue room, mine rescue team equipment, and the Emergency Operations Center (**EOC**). The Hazardous Material Response Trailer is staged at the WIPP facility in an area readily accessible to Emergency Services. Emergency Services is located in Building 452.

The RCRA permit addresses TRU mixed waste management activities in the WHB Unit, the Parking Area Unit, and the disposal units. The provisions of this Contingency Plan apply to hazardous waste disposal units (**HWDU**) in the underground waste disposal panels, storage in the WHB Unit and the Parking Area Unit, the Waste Shaft, and supporting TRU mixed waste handling areas. The remainder of the facility will not manage TRU mixed waste. This Contingency Plan has also been designed in accordance with 20.4.1.300 NMAC (incorporating 40 CFR § 262.34(a)(4) - Standards for Generators of Hazardous Waste), and will be implemented whenever there is a fire, explosion, or release of hazardous waste which could threaten human health or the environment. Hazardous substances in the remainder of the facility are included as possible triggers of the Contingency Plan but are outside the scope of the regulations promulgated pursuant to RCRA. This allows WIPP to maintain one emergency response plan which is consistent with the National Response Teams Integrated Contingency Plan Guidance (Federal Register, Vol. 61, No. 109, June 5, 1996). Inclusion is based on their National Fire Protection Association (**NFPA**) ratings in addition to their storage quantities. The majority of hazardous substances on-site are not expected to trigger the Contingency Plan because they are present in the same form and concentration as the product packaged for distribution and use by the general public or are used in a laboratory under the direct supervision of a technically qualified individual. Superfund Amendments and Reauthorization Act (**SARA**) Title III excludes these from emergency planning reporting. The list of hazardous substances in large enough quantities to constitute a Level II incident (Section D-3) is provided in Table D-1. In addition to TRU mixed waste, these are the only hazardous substances currently on site which, if spilled, may be of sufficient impact to cause this Contingency Plan to be implemented. Magnesium Oxide (**MgO**) is stored on-site in large quantities. It is used as backfill in the waste emplacement rooms as a pH buffer. The pH buffer will limit the solubility of radionuclides after the underground rooms are filled and closed. MgO is not a hazardous

substance, a release of MgO will not create hazardous waste and poses no threat to human health or the environment, and is therefore not addressed in the Contingency Plan.

Wastes generated as a result of maintenance or response actions will be categorized into one of three groups and disposed of accordingly. These are: 1) nonhazardous wastes to be disposed of in an approved landfill, 2) hazardous nonradioactive wastes to be disposed of at an off-site RCRA permitted facility, and 3) TRU mixed waste to be disposed of in the underground HWDUs. Disposal of TRU mixed waste in the WIPP facility is subject to regulation under 20.4.1.500 NMAC. As required by 20.4.1.500 NMAC (incorporating 40 CFR §264.601), the Permittees will demonstrate that the environmental performance standards for a miscellaneous unit, which are applied to the HWDUs in the underground, will be met. In addition, the technical requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264.170 to §264.178) are applied to the operation of the container storage units in the WHB Unit and in the Parking Area Unit south of the WHB. Liquid wastes that may be generated as a result of the fire fighting water or decontamination solutions will be managed as follows:

Non-Mixed - Hazardous waste liquids contaminated only with hazardous constituents will be placed into containers and managed in accordance with 20.4.1.300 NMAC (incorporating 40 CFR §262.34) requirements. The waste will be shipped to an approved off-site treatment, storage, or disposal facility.

Mixed - Liquids contaminated with TRU mixed waste (inside the WHB Unit) will be solidified as they are placed into containers with cement, Aquaset, or absorbent material in them. The solidified materials will be disposed of in the underground WIPP repository as derived waste.

This chapter of the permit application describes the HWDUs, the TRU mixed waste management facilities and operations, compliance with the environmental performance standards, and with the applicable technical requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264.170 to §264.178 and §264.601, respectively). The configuration of the WIPP facility consists of completed structures; including all buildings and systems for the operation of the facility.

D-1a Disposal Phase Overview

The Disposal Phase will consist of receiving CH TRU mixed waste shipping containers, unloading and transporting the waste containers to the underground HWDUs, emplacing the waste in the underground HWDUs, and subsequently achieving closure of the underground HWDUs in compliance with applicable State and Federal regulations.

The TRU mixed waste that will be disposed at the WIPP facility results primarily from activities related to the reprocessing of plutonium-bearing reactor fuel and fabrication of plutonium-bearing weapons, as well as from research and development. This TRU mixed waste consists largely of such items as paper, cloth, and other organic material; laboratory glassware and utensils; tools; scrap metal; shielding; and solidified sludges from the treatment of wastewater. Much of this TRU mixed waste is also contaminated with substances that are defined as hazardous under 20.4.1.200 NMAC.

D-1b Waste Description

Waste destined for WIPP are, or were, produced as a byproduct of weapons production and have been identified in terms of waste streams based on the processes that produced them. Each waste stream identified by generators is assigned to a Waste Summary Category to facilitate RCRA waste characterization, and reflect the final waste forms acceptable for WIPP disposal.

These Waste Summary Categories are:

S3000—Homogeneous Solids

Solid process residues defined as solid materials, excluding soil, that do not meet the applicable regulatory criteria for classification as debris (20.4.1.800 NMAC (incorporating 40 CFR §268.2[g] and [h])). Included in solid process residues are inorganic process residues, inorganic sludges, salt waste, and pyrochemical salt waste. Other waste streams are included in this Waste Summary Category based on the specific waste stream types and final waste form. This category includes wastes that are at least 50 percent by volume solid process residues.

S4000—Soils/Gravel

This waste summary category includes waste streams that are at least 50 percent by volume soil. Soils are further categorized by the amount of debris included in the matrix.

S5000—Debris Wastes

This waste summary category includes waste that is at least 50 percent by volume materials that meet the criteria for classification as debris (20.4.1.800 NMAC (incorporating 40 CFR §268.2)). Debris is a material for which a specific treatment is not provided by 20.4.1.800 NMAC (incorporating 40 CFR §268 Subpart D), including process residuals such as smelter slag from the treatment of wastewater, sludges or emission residues.

> Debris means solid material exceeding a 2.36 inch (60 millimeter) particle size that is intended for disposal and that is: 1) a manufactured object, 2) plant or animal matter, or 3) natural geologic material.

Included in the S5000 Waste Summary Category are metal debris, lead containing metal debris, inorganic nonmetal debris, asbestos debris, combustible debris, graphite debris, heterogeneous debris, and composite filters, as well as other minor waste streams. Particles smaller than 2.36 inches in size may be considered debris if the debris is a manufactured object and if it is not a particle of S3000 or S4000 material.

Examples of waste that might be included in the S5000 Waste Summary Category are asbestos-containing gloves, fire hoses, aprons, flooring tiles, pipe insulation, boiler jackets, and laboratory tabletops. Also included are combustible debris constructed of plastic, rubber, wood, paper, cloth, graphite, and biological materials. Examples of graphite waste that would be included are crucibles, graphite components, and pure graphite.

Wastes may be generated at the WIPP facility as a direct result of managing the TRU and TRU mixed wastes received from the off-site generators. Such generated waste may occur in either the WHB Unit or the Underground. For example, when TRU mixed wastes are received at the WHB Unit, the CH or RH Package shipping containers and the TRU mixed waste containers are checked for surface contamination. Under some circumstances,[1] if contamination is detected, the shipping container and/or the TRU mixed waste containers will be decontaminated. In the underground, waste may be generated as a result of radiation control procedures used during monitoring activities. The waste generated from radiation control procedures will be assumed to be TRU and/or TRU mixed waste. Throughout the remainder of this plan, this waste is referred to as "derived waste." All such derived waste will be placed in the rooms in HWDUs along with the TRU mixed waste for disposal.

D-1c Containers

The waste containers that will be used at the WIPP facility qualify as "containers," in accordance with 20.4.1.101 NMAC (incorporating 40 CFR §260.10). That is, they are "portable devices in which a material is stored, transported, treated, disposed of, or otherwise handled."

TRU mixed waste containers, containing off-site waste, will not be opened at the WIPP facility. Derived waste containers are kept closed at all times unless waste is being added or removed.

Waste, including "derived waste," containing liquid in excess of TSDF-WAC limits shall not be emplaced in the WIPP (See Permit Attachment C, Section C-1c).

Special requirements for ignitable, reactive, and incompatible waste are addressed in 20.4.1.500 NMAC (incorporating 40 CFR §§264.176 and 177). The RCRA Permit Treatment, Storage, and Disposal Facility Waste Acceptance Criteria (**TSDF-WAC**) precludes ignitable, reactive, or incompatible TRU mixed waste from being placed into storage or disposed of at WIPP.

D-1d Description of Containers

CH TRU mixed waste containers will be either 55-gallon (gal) (208-liter (L)) drums singly or arranged into seven (7)-packs, 85-gal (322-L) drums (used as singly or arranged into four (4)-packs, 100-gal (379 L) drums singly or arranged into three (3)-packs, ten-drum overpacks (**TDOP**), 66.3 ft^3 (1.88 m^3) SWBs, or standard large box 2s (**SLB2**).

RH TRU mixed waste containers are either canisters or drums. Canisters will be loaded singly in an RH-TRU 72-B cask and drums will be loaded in a CNS 10-160B cask. Drums in the CNS 10-160B cask will be arranged singly or in drum carriage units containing up to five drums each. Canisters and drums are described in Permit Attachment M1.

Remote-Handled TRU mixed waste may arrive in shielded containers with an internal capacity of 4.0 ft^3 (0.11 m^3). Shielded containers will be arranged as three-packs.

[1] Typically contamination that is less than six square feet in area and less than 2000 disintegrations per minute (dpm) alpha or 20,000 dpm beta/gamma, may be decontaminated. Containers that exceed these thresholds will be returned to the point of origin for decontamination.

D-1e Description of Surface Hazardous Waste Management Units

The WHB is the surface facility where waste handling activities will take place. The WHB has a total area of approximately 84,000 square feet (ft^2) (7,804 square meters [m^2]) of which 49,710 ft^2 (4,618 m^2) are designated as the WHB Unit for TRU mixed waste management. Within the WHB Unit, 32,307 ft^2 (3,001 m^2) are designated for the waste handling and container storage of CH TRU mixed waste and 17,403 ft^2 (1,617 m^2) are designated for the handling and storage of RH TRU mixed waste. These areas are being permitted as container storage units. The concrete floors within the WHB Unit are sealed with an impermeable coating that has excellent resistance to the chemicals in TRU mixed waste and, consequently, provide secondary containment for TRU mixed waste. In addition, a Parking Area Unit south of the WHB will be used for storage of waste in sealed shipping containers awaiting unloading. This area is also being permitted as a container storage unit. The sealed shipping containers provide secondary containment in this hazardous waste management unit (**HWMU**).

D-1e(1) CH Bay Operations

Once unloaded from the Contact-Handled Package, CH TRU mixed waste containers (3-pack of shielded containers, 7-packs of 55-gal drums, 3-packs of 100-gal drums, 4-packs of 85-gal drums, SWBs, TDOPs, or one SLB2) are placed on the facility pallet. The waste containers are stacked on the facility pallets (one- or two-high, depending on weight considerations). The use of facility pallets will elevate the waste at least 6 inches (in.) (15 centimeters [cm]) from the floor surface. Pallets of waste will then be stored in the CH bay. This storage area will be clearly marked to indicate the lateral limits of the storage area. This storage area will have a maximum capacity of thirteen facility pallets of waste during normal operations. These pallets will typically be in the CH Bay storage area for a period of up to five days.

In addition, four Contact-Handled Packages, containing up to 640 ft^3 of CH TRU waste in containers, may occupy positions at the TRUPACT-II Unloading Docks (**TRUDOCK**).

Aisle space shall be maintained in all CH Bay waste storage areas. The aisle space shall be adequate to allow unobstructed movement of fire response personnel, spill-control equipment, and decontamination equipment that would be used in the event of an off-normal event. An aisle space between facility and containment pallets will be maintained in all CH TRU mixed waste storage areas.

D-1e(2) RH Complex Operations

Loaded RH TRU casks are received in the RH Bay of the WHB. The RH Bay is served by an overhead bridge crane used for cask handling and maintenance operations. Storage in the RH Bay occurs in the RH-TRU 72-B or CNS 10-160B casks. A maximum of two loaded casks may be stored in the RH Bay and a maximum of one cask in the Cask Unloading Room may be stored at one time. A minimum of 44 inches (1.1 m) will be maintained between loaded casks in the RH Bay. The cask serves as secondary containment in the RH Bay for the RH TRU mixed waste payload container. In addition, the RH Bay has a concrete floor.

Single RH TRU mixed waste canisters are unloaded from the RH-TRU 72-B casks in the Transfer Cell of the RH Complex where they are transferred to facility casks. Drums of RH TRU mixed waste will be transferred remotely from the CNS 10-160B cask, into the Hot Cell, and loaded into a canister. Storage in the Hot Cell occurs in either drums or canisters. A maximum

of 12 55-gallon drums of RH TRU mixed waste and one 55-gallon drum of derived waste (94.9 ft^3 (2.7 m^3)) may be stored in the Hot Cell. Except for the derived waste drum, individual 55-gallon drums may not be stored in the Hot Cell for more than 25 days. The Transfer Cell houses the Transfer Cell Shuttle Car, which is used to facilitate transferring the canister to the facility cask. Storage in this area typically occurs at the end of a shift or in an off-normal event that results in the suspension of waste handling. A maximum of one canister (31.4 ft^3 (0.89 m^3)) may be stored in the Transfer Cell in a shielded insert in the Transfer Cell Shuttle Car or in a RH-TRU 72-B cask.

The Facility Cask Loading Room provides for transfer of a canister to the facility cask for subsequent transfer to the waste shaft conveyance and to the Underground Hazardous Waste Disposal Unit. The Facility Cask Loading Room also functions as an air lock between the waste shaft and the Transfer Cell. Storage in this area typically occurs at the end of a shift or in an off-normal event that results in the suspension of waste handling. A maximum of one canister (31.4 ft^3 (0.89 m^3)) may be stored in the Facility Cask in the Facility Cask Loading Room.

Derived waste will be stored in the RH Bay and in the Hot Cell.

D-1e(3) Parking Area Container Storage Unit (Parking Area Unit)

The area extending south from the WHB within the fenced enclosure identified as the Controlled Area on Figure A1-2 is defined as the Parking Area Container Storage Unit. This area provides storage for up to 6,734 ft^3 (191 m^3) of CH and/or RH TRU mixed waste contained in up to 40 loaded Contact-Handled Packages and 8 Remote-Handled Packages. Secondary containment and protection of the waste containers from standing rainwater are provided by the transportation containers. Up to 12 additional Contact-Handled Packages and four additional Remote-Handled Packages may be stored in the Parking Area Surge Area so long as the requirements of Permit Sections 3.1.2.3 and 3.1.2.4 are met. No more than 50 Contact-Handled and 12 Remote-Handled Packages may be stored in the Parking Area Storage Unit.

The safety criteria for Contact-Handled and Remote-Handled Packages require that they be opened and vented at a frequency of at least once every 60 days. During normal operations, Contact-Handled and Remote-Handled Packages will not require venting while located in the Parking Area Unit. Any off-normal event which results in the need to store a waste container in the Parking Area Unit for a period of time approaching fifty-nine (59) days shall be mitigated by returning the shipment to the generator prior to the expiration of the 60 day NRC venting period or by moving the Contact-Handled or Remote-Handled Package inside the WHB Unit where the waste will be removed and placed in one of the permitted storage areas or in the underground hazardous waste disposal unit.

D-1f Off-Normal Events

Off-normal events could interrupt normal operations in the waste management process line. Shipments of waste from the generator sites will be stopped in any event which results in an interruption to normal waste handling operations that exceeds three days.

D-1g Containment

The WHB Unit has concrete floors, which are sealed with a coating designed to resist all but the strongest oxidizing agents. Such oxidizing agents do not meet the TSDF-WAC and will not be

accepted in TRU mixed waste at the WIPP facility. Therefore, TRU mixed wastes pose no compatibility problems with respect to the WHB Unit floor.

During normal operations, the floor of the normal storage areas within the CH Bay and RH Complex shall be visually inspected on a weekly basis to verify that it is in good condition and free of obvious cracks and gaps. When a RH TRU mixed waste container is present in the RH Complex, inspections will be conducted visually and/or using closed-circuit television cameras in order to manage worker dose and minimize radiation exposures. Manual inspections of the areas are performed at least annually during routine maintenance periods when waste is not present.

Floor areas of the WHB used during off-normal events will be inspected prior to use and weekly while in use. Containers located in the permitted storage areas shall be elevated from the surface of the floor. Facility pallets provide at least 6 in (15 centimeters [cm]) of elevation from the surface of the floor. TRU mixed waste containers that have been removed from Contact-Handled or Remote-Handled Packages shall be stored at a designated storage area inside the WHB so as to preclude exposure to the elements.

Secondary containment at permitted storage areas inside the WHB Unit shall be provided by the floor. The Parking Area Unit and TRUDOCK storage area of the WHB Unit do not require engineered secondary containment, since waste is not stored there unless it is protected by the Contact-Handled or Remote-Handled Packaging. Floor drains, the fire suppression water collection sump, and portable dikes, if needed, will provide containment for liquids that may be generated by fire fighting. Sump capacities and locations are shown in Drawing 41-F-087-014. Residual fire fighting liquids will be placed in containers and managed as described above. Secondary containment at storage locations inside the RH Bay, Cask Unloading Room, Transfer Cell, and Facility Cask Loading Room is provided by the cask or canisters that contain drums of RH TRU mixed waste. In the Hot Cell, secondary containment is provided by the Hot Cell subfloor. In addition, the RH Complex contains a 220-gallon (833-L) sump in the Hot Cell, a 11,400-gallon (43,152-L) sump in the RH Bay, and a 220-gallon (833-L) sump in the Transfer Cell to collect any liquids.

D-2 Response Personnel

Persons qualified to act as the RCRA Emergency Coordinator, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.55), are listed in Table D-2.

A RCRA Emergency Coordinator will be on-site at the WIPP facility 24 hours a day, seven days a week, with the responsibility for coordinating emergency response measures. RCRA Emergency Coordinators are listed in Table D-2, where four individuals have been designated primary RCRA Emergency Coordinators. This is because the on-duty Facility Shift Manager (**FSM**) is designated as the RCRA Emergency Coordinator. The four individuals shown serve as FSM on a rotating shift basis.

Persons qualified to act as the RCRA Emergency Coordinator are thoroughly familiar with this Contingency Plan, the TRU mixed waste and hazardous waste operations and activities at the WIPP facility, the locations of TRU mixed waste and hazardous waste activities, the locations on the site where hazardous materials are stored and used, and the locations of waste staging and accumulation areas. They are familiar with the characteristics of hazardous substances, TRU mixed waste and hazardous waste handled at the WIPP facility, the location of TRU mixed

waste and hazardous waste records within the WIPP facility, and the facility layout. In addition, persons qualified to act as the RCRA Emergency Coordinator have the authority to commit the necessary resources to implement this Contingency Plan. Figure D-4 outlines the RCRA Emergency Coordinator's position relative to other organizations that provide support.

In addition to the RCRA Emergency Coordinator, the following individuals or groups have specified responsibilities during any WIPP facility emergency:

- Assistant Chief Office Warden (**ACOW**)—Persons assigned to take accountability for sections of the site, and then reporting the accountability to the Chief Office Warden.

- Central Monitoring Room Operator (**CMRO**)—The on-shift operator responsible for Central Monitoring Room (**CMR**) operations, including coordination of facility communications. The facility log is maintained by the CMRO.

- Chief Office Warden (**COW**)—A predesignated individual with responsibilities for complete surface accountability at staging areas in the event of an evacuation. The Chief Office Warden receives reports from the ACOWs.

- Emergency Response Team (**ERT**)—Supplemental group trained to respond to surface emergencies, to provide emergency first aid, and to respond to releases of hazardous waste or hazardous material. ERT members are part of the WIPP Supplemental Emergency Response Program.

- Emergency Services Technician (**EST**)/Fire Protection Technician (**FPT**)—Regular employee whose job is that of full-time emergency responder. During non-emergency conditions, the EST/FPT inspects facility fire suppression systems and emergency equipment. The EST/FPT completes specific sections of the "WIPP Hazardous Material Incident Report." Additional technical personnel complete identified sections of the report.

- Fire Brigade—The fire brigade is a team of five personnel who respond to site emergencies. The team consists of an Incident Commander and four fire fighters. The fire fighters are trained in accordance with NFPA Standards for Industrial Fire Brigades (Fire Brigades that perform both advanced exterior and interior structural fire fighting).

- First Line Initial Response Team (**FLIRT**)—Supplemental primary responders in the event of a general underground emergency for medical and hazardous material response. The FLIRT also provides backup support for the ERT in the event of a general surface-facility emergency. FLIRT members are part of the WIPP Supplemental Emergency Response Program.

- Mine Rescue Team (**MRT**)—Supplemental group responsible for underground reentry and rescue after an emergency evacuation. The MRT responds in accordance with 30 CFR Part 49 requirements. MRT members are part of the WIPP Supplemental Emergency Response Program.

- Office Warden—An individual assigned responsibility for assuring that personnel are evacuated from his/her assigned area or building during evacuations. Office Wardens

maintain a list of all personnel in their specific area. This list is compared with the physical presence of personnel who assemble at the staging areas. The Office Wardens report area accountability to the ACOWs.

- EOC Staff-The EOC consists of a minimum staff of three MOC management positions (the Crisis Manager, a Safety Representative and an Operations Representative) to activate the EOC. The full EOC Staff includes the Crisis Manager, the Deputy Crisis Manager, a Safety Representative, an Operations Representative and the EOC Coordinator. Additional technical and logistics personnel will provide support as necessary. The EOC is activated by the FSM. Since EOC staff are performing duties similar to their normal job functions and providing support related to their area of expertise, no specific RCRA training is required.

D-3 Implementation

The provisions of this Contingency Plan will be implemented immediately whenever there is an emergency event (e.g., a fire, an explosion, or a natural occurrence that involves or threatens hazardous or TRU mixed wastes or a release of hazardous substances, hazardous materials, or hazardous wastes) that could threaten human health or the environment, or whenever the potential for such an event exists as determined by the RCRA Emergency Coordinator, as required under 20.4.1.500 NMAC (incorporating 40 CFR §264.51(b)). The following information is utilized for categorization of events to determine implementation of the Contingency Plan:

1. Medical Emergencies (does not implement the Contingency Plan)

2. Non-emergency (does not implement the Contingency Plan)

    a. Fire already out, did not involve any hazardous materials.

    b. Spill or release involved materials excluded according to the SARA Title III, Statute 42 U.S.C. 11021 (e). Such as:

        1) Any substance present in the same form and concentration as product packaged for distribution and use by the general public. (Example: Cleaning solutions)

        2) Any substance to the extent it is used in a laboratory under the direct supervision of a technically qualified individual.

        3) Petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance by Comprehensive Environmental Response, Compensation and Liability Act (**CERCLA**).

3. Incident Level I: According to the NFPA 471, Responding to Hazardous Materials Incidents (See Table D-3). If the product(s) involved in the fire, explosion, spill or leakage meets the following criteria, it will be classified as a Level I incident and does not implement the Contingency Plan.

    a. The product does not require a U.S. Department of Transportation (**DOT**) placard, is a NFPA listed 0 or 1 for all categories, or is Other Regulated Materials A, B, C, or D.

    b. The fire is under control and the reactivity rating of the material is less than a rating 2, indicating a low potential for subsequent explosion as the hazardous material can be considered normally stable.

    c. There was no release or the release can be confined with readily available resources.

    d. There is no life-threatening situation.

    e. There is no potential environmental impact.

4. Incident Level II: According to NFPA 471, Responding to Hazardous Materials Incidents, (See Table D-3). If the product(s) involved in the fire, explosion, spill or leakage meets the following criteria, it will be classified as a Level II incident and the Contingency Plan will be implemented by the RCRA Emergency Coordinator.

    a. The product requires a DOT placard, is an NFPA 2 for any categories, or is Environmental Protection Agency (**EPA**) regulated waste (Site-specific: Table D-1 and TRU mixed waste) AND

    b. The incident involves multiple packages.

    c. There is potential for the fire to spread since the hazardous material's flammability level (rating 2) is below 200 degrees Fahrenheit, or the reactivity (rating 2) indicates that violent chemical changes are possible and thus may be explosive.

    d. The release may not be controllable without special resources.

    e. The incident requires evacuation of a limited area for life safety.

    f. The potential for environmental impact is limited to soil and air within incident boundaries.

    g. The container is damaged but able to contain the contents to allow handling or transfer of product.

5. Incident Level III: According to NFPA 471, Responding to Hazardous Materials Incidents (See Table D--3). If the product(s) involved in the fire, explosion, spill or leakage meet the following criteria, it will be classified as a Level III incident and the Contingency Plan will be implemented by the RCRA Emergency Coordinator.

    a. The product is a poison A (gas), an explosive A/B, organic peroxide, flammable solid, material that is dangerous when wet, chlorine, fluorine, anhydrous ammonia, NFPA 3 and 4 for any categories including special hazards, EPA extremely hazardous substances, and cryogenics.

    b. The site-specific container size for this incident level will be a tank truck.

    c. There is potential for the fire to spread since the hazardous material's flammability level (rating 3 or 4) is below 100 degrees Fahrenheit, or the reactivity (rating 3 or 4) indicates that the material may explode.

    d. The release may not be controlled even with special resources.

    e. The incident requires mass evacuation of a large area for life safety.

    f. Even though the NFPA guidelines for this incident level indicate that the potential for environmental impact is severe, due to the site engineering controls, the impact is contained within the HWMUs.

    g. The container is damaged to such an extent that catastrophic rupture is possible.

The above categories include fire situations, weather conditions, natural phenomena, and explosions which will have to be evaluated to make an incident level determination. A Level II (potential threat to human health in localized area, potential for moderate on-site environmental impact) or Level III (potential threat to human health in a larger area, potential for severe environmental impact) incident by definition is considered to be a potential threat to human health or the environment and, therefore, is considered to be an emergency requiring activation of the Contingency Plan.

D-4 Emergency Response Method

Methods that describe how and when the WIPP Contingency Plan will be implemented cover the following 11 implementation areas:

1. Notification (Section D-4a)
2. Identification of hazardous materials (Section D-4b)
3. Assessment of the nature and extent of the emergency (Section D-4c)
4. Control, containment, and correction of the emergency (Section D-4d)
5. Prevention of recurrence or spread of fires, explosions, or releases (Section D-4e)
6. Management and containment of released material and waste (Section D-4f)
7. Incompatible waste (Section D-4g)
8. Post-emergency facility and equipment maintenance and reporting (Section D-4h)
9. Container spills and leakage (Section D-4i)
10. Tank spills and leakage (Section D-4j)
11. Surface impoundment spills and leakage (Section D-4k)

D-4a Notification

Notification requirements in the event of an emergency at a RCRA hazardous waste management facility are defined by 20.4.1.500 NMAC (incorporating 40 CFR §§264.56(a) and (d)). Necessary notifications in case of an emergency at the WIPP facility are described in this section (Figure D-4a). Personnel at the WIPP facility are trained to respond to emergency notifications.

D-4a(1) Initial Emergency Response and Alerting the RCRA Emergency Coordinator

The first person to become aware of an incident shall immediately report the situation to the CMRO, and provide the following information, as appropriate:

- Name and telephone number of the caller
- Location of the incident and the caller
- Time and type of incident
- Severity of the incident
- Magnitude of the incident
- Cause of the incident
- Assistance needed to deal with or control the incident
- Areas or personnel affected by the incident

In addition to receiving incident reports, the CMRO continuously monitors (24 hours a day) the status of mechanical, electrical, and/or radiological conditions at selected points on the site, both above and below ground. Alarms to indicate abnormal conditions are located throughout the WIPP facility. The alarm(s) (e.g., fire, radiation) may be the first notification of an emergency situation received by the CMRO. The CMRO monitors alarms, takes telephone calls and radio messages, and initiates outgoing calls to emergency staff and outside agencies.

Once the CMRO is notified of a fire, explosion, or a release anywhere in the facility (either by eyewitness or an alarm), the RCRA Emergency Coordinator is immediately notified. Once notified, the RCRA Emergency Coordinator assumes responsibility for the management of activities related to the assessment, abatement, and/or cleanup of the incident.

A RCRA Emergency Coordinator is on-site at all times and, therefore, can be reached at any time via a two-way radio or over the public address (**PA**) and plectrons on-site. If the RCRA Emergency Coordinator is unavailable or unable to perform these duties, a qualified alternate RCRA Emergency Coordinator is available.

The EST/FPT is also notified in case of fire, explosion, or release. The RCRA Emergency Coordinator, as incident commander, determines if supplemental emergency responders are necessary. Notification of the ERT (surface) is made by using the ERT pagers and/or the public announcement system. Notification of the FLIRT is by using the Mine Page Phone System. If the MRT is needed the RCRA Emergency Coordinator will instruct the CMRO to make a PA announcement for the MRT to assemble in the Mine Rescue Room, located in a predetermined location.

Off-shift personnel may be notified using the on-call list, which is updated weekly by the Permittees. The FSM/CMRO, each individual on the on-call list, and WIPP Security receive copies of the on-call list. The CMRO may direct Security to make the notifications.

The response to an unplanned event will be performed in accordance with procedures based on the applicable Federal, State, or local regulations and/or guidelines for that response. These include the U.S. Mine Safety and Health Administration (**MSHA**); NMAC; CERCLA; Chapter 74, Article 4B, New Mexico Statutes Annotated 1978, New Mexico Emergency Management Act; and agreements between the Permittees and local authorities (Section D-6) for emergencies throughout the WIPP facility.

After notification by the CMRO, the EST/FPT shall immediately investigate to determine pertinent information relevant to the actual or potential threat posed to human health or the environment. The information will include the location of release, type, and quantity of spilled or released material (or potential for release due to fire, explosion, weather conditions, or other naturally occurring phenomena), source, areal extent, and date and time of release. The EST/FPT shall provide information for classification of the incident, according to the emergency response guidelines, to the RCRA Emergency Coordinator. The RCRA Emergency Coordinator then classifies the incident after evaluation of all pertinent information. This classification will consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

When the RCRA Emergency Coordinator determines that an Incident Level II or III has occurred, the Contingency Plan is implemented. The RCRA Emergency Coordinator then may choose to activate the EOC for additional support (Figure D-4). If the RCRA Emergency Coordinator determines that due to extenuating circumstances the potential to upgrade to an incident Level II or III exists, the RCRA Emergency Coordinator also may activate the EOC. The EOC will assist the RCRA Emergency Coordinator in mitigation of the incident with use of communications equipment and technical expertise from any WIPP organization (see Section D-4c).

The EOC staff will assess opportunities for coordination and the use of mutual-aid agreements with local outside agencies making additional emergency personnel and equipment available (Section D-6), as well as the use of specialized response teams available through various State and Federal agencies. As a DOE-owned facility, the WIPP facility may use the resources available from the Federal Response Plan, signed by 27 Federal departments and agencies in April 1987, and developed under the authorities of the Earthquake Hazards Reduction Act of 1977 (42 U.S.C. 7701 et seq.) and amended by the Stafford Disaster Relief Act of 1988. Most resources are available within 24 hours. The WIPP facility maintains its own emergency response capabilities on-site. In addition to the supplemental emergency responders, radiological control technicians, environmental sampling technicians, wildlife biologists, and various other technical experts are available for use on an as-needed basis.

D-4a(2) Communication of Emergency Conditions to Facility Employees

Procedures for notifying facility personnel of emergencies depend upon the type of emergency. Methods of notification are:

- Local Fire Alarms

  The local fire alarms sound a bell tone and may be activated automatically or manually in the event of a fire.

- Surface Evacuation Signal

  The evacuation signal is a yelp[2] tone and is manually activated by the CMRO when needed. The CMRO shall follow the evacuation signal with verbal instructions and ensure the Site Notification System (i.e., the plectron) has been activated.

- Underground Evacuation Warning System

  The evacuation signal is a yelp tone and flashing strobe light. In the event of an evacuation signal, underground personnel will proceed to the nearest egress hoist station (Section D-7b) to be apprised of the nature of the emergency and the evacuation route to take. Underground personnel are trained to report to the underground assembly areas and await further instruction if all power fails or if ventilation stops. If evacuation of underground personnel is required, this will be done using the backup electric generators and in accordance with the applicable requirements of MSHA.

- Contingency Evacuation Notification

  If the primary warning system consisting of alarms and signals fails to operate when activated (as in a total power outage and failure of the back-up power systems), WIPP Security will be notified by the CMRO to initiate the contingency evacuation plan. In this event Security officers will alert personnel to evacuate the area and will check trailers, if possible, to ensure that personnel have been alerted/evacuated.

WIPP facility personnel are trained and given instruction during General Employee Training to recognize the various alarm signals and the significance of each alarm. WIPP facility employees and site visitors are required to comply with directions from emergency personnel and alarm system notifications and to follow instructions concerning emergency equipment, shutdown procedures, and emergency evacuation routes and exits.

D-4a(3) Notification of Local, State, and Federal Authorities

If it is determined that the facility has had a fire, an explosion, a spill, or a release of hazardous waste or hazardous waste constituents (included in 20.4.1.200 NMAC (incorporating 40 CFR § 261)) in the miscellaneous unit or TRU mixed waste handling areas, or an emergency resulting in a release of a hazardous substance (included in 40 CFR §302.4 and §302.6 or the New

[2] The yelp tone increases from 500 to 1,000 hertz and drops to 500 hertz.

Mexico Emergency Management Act, §74-4B-3 and §74-4B-5) that could threaten human health or the environment outside the facility, the RCRA Emergency Coordinator, after consultation with the DOE as the owner of the facility, will assure that local authorities are notified by telephone and/or radio, including:

- Carlsbad Police Department (telephone number: [575] 885-2111) (or 911)
- Carlsbad Fire Department (telephone number: [575] 885-2111) (or 911)
- Eddy County Sheriff (telephone number: [575] 887-7551)
- Hobbs Fire Department (telephone number: [575] 397-9265)

After local authorities are notified, the RCRA Emergency Coordinator will ensure notification of the following:

- New Mexico Environment Department (**NMED**)
  Department of Public Safety
  24-Hour Emergency Reporting Telephone Number: (505) 827-9329
  FAX number: (505) 827-9368

- Department of Public Safety WIPP Coordinator
  Telephone Number: (505) 827-9221
  FAX number: (505) 829-3434

- Hazardous Materials Emergency Response, Chemical Safety Office, Department of Public Safety, State Emergency Response Commission
  Telephone number: (505) 476-9681
  FAX number: (505) 476-9695

- National Response Center
  Telephone number: 1-800-424-8802
  FAX number: (202) 479-7181

- Local Emergency Planning Committee
  Telephone number: (575) 885-3581
  Fax number: (575) 628-3973

The first notification of public safety and regulatory agencies will include the following:

- The name and address of the facility and the name and phone number of the reporter
- The type of incident (fire, explosion, or release)
- The date and time of the incident
- The type and quantity of material(s) involved, to the extent known
- The exact location of the incident
- The source of the incident

- The extent of injuries, if any
- Possible hazards to human health and the environment (air, soil, water, wildlife, etc.) outside the facility
- The name, address, and telephone number of the party in charge of or responsible for the facility or activity associated with the incident
- The name and the phone number of the RCRA Emergency Coordinator
- The identity of any surface and/or groundwater involved or threatened and the extent of actual and potential water pollution
- The steps being taken or proposed to contain and clean up the material involved in the incident

The RCRA Emergency Coordinator will also be available to advise the appropriate local, State, or Federal officials on whether or not local areas should be evacuated.

D-4a(4) Notification of the General Public

Immediate notification of the general public through the public safety and emergency agencies listed above will be made by, or under the direction of, the RCRA Emergency Coordinator following an evaluation to determine if local adjacent areas need to be evacuated. This evaluation will be made in consultation with the DOE who, as the owner of the facility, has management responsibility for the land withdrawal area. DOE policy is to provide accurate and timely information to the public by the most expeditious means possible concerning emergency situations at the WIPP site that may affect off-site personnel, public health and safety, and/or the environment. A DOE (**DOE**) Management representative is always on-call. This person is available by pager or telephone 24 hours a day.

A Hazards Assessment was conducted, which indicated no need for protective actions or emergency action levels, as defined by the Permittees, for the facility. Therefore, no procedures are in place for evacuation of the public. Procedures are in place for notification of the public by radio, television, and newspapers for news items which might include notification of on-site emergency situations. These procedures include a Public Affairs Coordinator in the EOC who writes and transmits press releases to the DOE office, where formal press conferences are conducted.

D-4b Identification of Hazardous Materials

The identification of hazardous wastes, hazardous waste constituents, or hazardous materials involved in a fire, an explosion, or a release to the environment is a necessary part of the assessment of an incident, as described in 20.4.1.500 NMAC (incorporating 40 CFR §264.56(b)). RCRA hazardous waste and hazardous substances and materials listed in 40 CFR §302.4 and §302.6 or New Mexico Emergency Management Act, §74-4B-3 and §74-4B-5 and, involved in any release at the WIPP facility will be identified. The identification of likely hazardous materials at any location is enhanced because hazardous materials and hazardous waste are only stored or managed in specified locations throughout the WIPP facility. An attempt will be made to identify products involved by occupancy/location, container shape,

markings/color, placards/labels, United Nations/North America/Product Identification Number, on-site technical experts, or field sampling. Further, the ES&H department maintains an updated inventory of hazardous materials/substances that are brought on site, and a master MSDS listing in the Safety and Emergency Services Facility, Building 452.

Sources of information available to identify the hazardous wastes, substances, or materials involved in a fire, an explosion, or a release at the WIPP facility include operator/supervisor knowledge of their work areas, materials used, and work activities underway; the WIPP Waste Information System (**WWIS**), which identifies the location within the facility of emplaced TRU mixed waste, including emplaced derived waste; and waste manifests and other waste characterization information in the operating record. The WWIS also includes information on wastes that are in the waste handling process. Also available are MSDSs for hazardous material in the various user areas throughout the facility, waste acceptance records, and materials inventories for buildings and operating groups at the WIPP facility. Information or data from the derived waste accumulation areas, the hazardous waste staging area, satellite staging areas, and nonregulated waste accumulation areas are included.

TRU mixed waste received by the WIPP facility during the Disposal Phase will be characterized for hazardous constituents prior to receipt, and acceptable knowledge will be used to characterize derived waste prior to emplacement.

Information required for identifying TRU mixed hazardous constituents in case of an incident is readily available through the WWIS and the waste acceptance records. Waste accepted at WIPP is already known to be compatible with all materials used to respond to an emergency. All non-TRU mixed waste materials received on site, other than those listed in Table D-1, are in such small quantities that no reaction could develop which would trigger an Incident Level II or III response.

The RCRA Emergency Coordinator will have access to the WWIS through Operations, or through the Facility Shift Manager's Office.

The RCRA Emergency Coordinator has access to the inventory lists and MSDSs in the Safety and Emergency Services Facility at all times.

D-4c Assessment of the Nature and Extent of the Emergency

Once the required notifications have been made, the RCRA Emergency Coordinator will ensure that the identity, exact source, amount, and areal extent of any released materials are determined, as required under 20.4.1.500 NMAC (incorporating 40 CFR §264.56(b)). The RCRA Emergency Coordinator will determine whether the occurrence constitutes an emergency based on knowledge of the area and access to the waste identification/characterization information described in Section D-4b. An emergency will require response by only trained emergency response personnel. The RCRA Emergency Coordinator will be responsible for responding to immediate and potential hazards, using the services of trained personnel to determine: 1) the identity of hazardous wastes, hazardous waste constituents, and other hazardous materials involved in a release, as described in Section D-4b; 2) whether or not a release involved a reportable quantity of a hazardous substance; 3) the areal extent of a release; 4) the exact source of a release; and 5) the potential hazards to human health or to the environment.

After the materials involved in an emergency are identified, the specific information on the associated hazards, appropriate personal protective equipment (**PPE**), decontamination, etc., will be obtained from MSDSs and from appropriate chemical reference materials at the same location. These information sources may be accessed by the RCRA Emergency Coordinator or through several WIPP facility organizations.

The emergency assessment requires determination of hazards involving evaluation of several criteria, including:

- Exposure: magnitude of actual or potential exposure to employees, the general public, and the environment; duration of human and environmental exposure; pathways of exposure
- Toxicity: types of adverse health or environmental effects associated with exposures; the relationship between the magnitude of exposure and adverse effects
- Reactivity: hazardous materials or hazardous wastes, which are not TRU mixed wastes, involved in an incident will be assessed for reactivity through accessing the MSDSs for the affected material and the recommended method(s) for managing such waste
- Uncertainties: considerations for undeterminable or future exposures; uncertain or unknown health effects, including future health effects

D-4d Control, Containment, and Correction of the Emergency

The WIPP facility is required to control an emergency and to minimize the potential for the occurrence, recurrence, or spread of releases due to the emergency situation, as described in 20.4.1.500 NMAC (incorporating 40 CFR §264.56 (e)). The WIPP Emergency Response procedures utilize the incident mitigation guidelines in NFPA 471, Responding to Hazardous Materials Incidents, with initial response priority being on control, and those actions necessary to ensure confinement and containment (the first line of defense) in the early, critical stages of a spill or leak. The RCRA Emergency Coordinator is responsible for stopping processes and operations when necessary, and removing or isolating containers. TRU mixed waste will remain within the WHB Unit, the Parking Area Unit, and the underground HWDU.

D-4d(1) All Emergencies

The WIPP Emergency Response procedures include, but are not limited to, the following actions appropriate for control:

1. Isolate the area from unauthorized person by fences, barricades, warning signs, or other security and site control precautions. Isolation and evacuation distances vary, depending upon the chemical/product, fire, and weather situations.
2. Identify the chemical/product according to Section D-4b.
3. Drainage controls.
4. Stabilization of physical controls (such as dikes or impoundment[s]).

5. Capping of contaminated soils to reduce migration.

6. Using chemicals and other materials to retard the spread of the release or to mitigate its effects.

7. Excavation, consolidation, removal, or disposal of contaminated soils.

8. Removal of drums, barrels, or tanks where it will reduce exposure risk during situations such as fires.

If the facility stops operations in response to a fire, explosion, or release, the RCRA Emergency Coordinator shall ensure continued monitoring for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever appropriate. If operations continue, personnel normally assigned to these tasks will continue.

Both natural and synthetic methods will be employed to limit the releases of hazardous materials so that effective recovery and treatment can be accomplished with minimum additional risk to human health or the environment. A combination of the above methods to achieve protection of human health and the environment, with emphasis on two basic methods for mitigation of hazardous materials incidents - Physical and Chemical (Tables D-4, D-5) mitigation, will be used.

1. Physical methods of control involve any of several processes to reduce the area of the spill/leak, or other release mechanism (such as fire suppression).

   A. Absorption is the process in which materials hold liquids through the process of wetting. Absorption is accompanied by an increase in the volume of the sorbate/sorbent system through the process of swelling. Some of the materials utilized in response to Level I incidents or Level II incidents involving liquids will be absorbent sheets of polyolefin-type fibers, spill control bucket materials (specifically for solvents, neutralization, or for acids/caustics), and absorbent socks for general liquids or oils.

   B. Covering refers to a temporary form of mitigation for radioactive incidents that will be utilized in response to Level II or Level III incidents involving CH TRU mixed waste. These could include absorbent sheets, plastic, or actual ambulance blankets.

   C. Dikes or Diversions refer to the use of physical barriers to prevent or reduce the quantity of liquid flowing into the environment. Dikes may be soil or other barriers temporarily utilized to hold back the spill or leak. Diversion refers to the methods used to physically change the direction of the flow of the liquid. Absorbent socks or earth may be utilized as dikes or diversions for all levels of incidents.

   D. Overpacking is accomplished by the use of an oversized container. Overpack containers will be compatible with the hazards of the materials involved.

   E. Plug and Patch refers to the use of compatible plugs and patches to reduce or temporarily stop the flow of materials from small holes, rips, tears, or gashes in containers. A Series "A" hazardous response kit containing nonsparking

equipment to control and plug leaks may be utilized for response to all levels of incidents.

F. Transfer refers to the process of moving a liquid, gas, or some forms of solids, either manually or by pump, from a leaking or damaged container. Scoops, shovels, jugs, and pails as well as drum transfer pumps for chemical and petroleum transfer are utilized as needed in response to all levels of incidents.

G. Vapor Suppression refers to the reduction or elimination of vapors emanating from a spilled or released material through the most efficient method or application of specially designed agents such as an aqueous foam blanket.

2. Chemical Methods of Mitigation

A. Neutralization is the process of applying acids or bases to a spill to form a neutral salt. The application of solids for neutralizing can often result in confinement of the spilled material. This would include using the neutralizing adsorbents.

B. Solidification is the process whereby a hazardous liquid is added to material such as an absorbent so that a solid material results.

The established procedures are based upon the incident level and a graded approach for nonradioactive or CH TRU waste emergencies and initiated to:

1. Minimize contamination or contact (through PPE, etc.)
2. Limit migration of contaminants
3. Properly dispose of contaminated materials

For RH TRU mixed waste that is not managed in shielded containers, the detection of contamination on or damage to a RH TRU mixed waste canister or a facility canister may occur outside the Hot Cell during cask to cask transfer of the canister or during loading of the Shielded Insert in the Transfer Cell. When such contamination or damage is found, the Permittees have the option to decontaminate or return the canister to the generator/storage site or another site for remediation. In the case of a damaged facility canister, the Shielded Insert may be used as an overpack to facilitate further management. Contamination may also be detected within the Hot Cell during the unloading of the CNS 10-160B shipping cask. In this case, the Permittees may decontaminate the 55-gallon drums or return them to the generator/storage site or another site for remediation. Spills or releases that occur within the RH Complex or the underground as the result of RH TRU mixed waste handling will be mitigated by using appropriate measures which may include the items above.

D-4d(2) Fire

The incident level emergency response identified in Section D-3 includes fire/explosion potential. WIPP fire response includes incipient, exterior structure fires, and internal structure fires. The RCRA Emergency Coordinator can implement the Memoranda of Understanding (**MOU**) for additional support.

The first option in mine fire response will be to apply mechanical methods to stop fires (e.g., cut electrical power). The last option in mine fire response will be to reconfigure ventilation using

control doors associated with the underground ventilation system. The following actions are implemented in the event of a fire:

1. All emergency response personnel at an incident will wear appropriate PPE.

2. Only fire extinguishing materials that are compatible with the materials involved in the fire will be used to extinguish fires. Compatibility with materials involved in a fire are determined by pre-fire plans, Emergency Response Guide Book (DOT, 1993), DOT labeling, and site-specific knowledge of the emergency response personnel. Water and dry chemical materials have been determined to be compatible with all components of the TRU mixed waste. Pre-fire plans for the WHB are included in Figures D-10 and D-11.

   Fires in areas of the WHB Unit should not propagate, due to limited amount of combustibles, and the concrete and steel construction of the structures. Administrative controls, such as landlord inspections and EST/FPT inspections, help to insure good housekeeping is maintained. Combustible material and TRU mixed waste will be isolated, if possible. Firewater drain trenches collect the water and channel it into a sump. In areas not adjacent to the trenches, portable absorbent dikes (pigs) will be used to retain as much as possible, until it can be transferred to containers or sampled and analyzed for hazardous constituents.

3. If the fire spreads or increases in intensity, personnel will be directed to evacuate.

4. The RCRA Emergency Coordinator will remain in contact with responding personnel to advise them of the known hazards.

5. In order to ensure that storm drains and/or sewers do not receive potentially hazardous runoff, dikes will be built around storm drains to control discharge as needed. Collected waste will be sampled and analyzed for hazardous constituents, before being discharged to evaporation ponds. There are two ponds south of the security fence, opposite the WHB Unit, that will collect drainage from the parking area. The rest of the site, inside the security fence, drains to the large pond to the west. Samples will be taken from these ponds, after the emergency has been abated, to determine any cleanup requirements. NMED will approve any procedures associated with the sampling and analysis of the ponds.

6. The RCRA Emergency Coordinator maintains overall control of the emergency and may accept and evaluate the advice of WIPP facility personnel and emergency response organization members, but retains overall responsibility.

7. The RCRA Emergency Coordinator will be in overall control of WIPP facility emergency response efforts until the emergency is terminated.

8. Materials involved in a fire can be identified in the following ways:

   - According to Section D-4b.

   - If the contents of the waste container cannot be determined based on its location and the label is destroyed by fire, the material will be treated as an

unknown, evaluated for radiological contamination, and analyzed according to methods in the EPA's "Test Methods for Evaluating Solid Waste Physical/Chemical Methods" (**SW-846**), Third Edition, after the fire has been extinguished.

- Airborne radioactivity samples may be obtained during a fire involving radioactive materials, using portable and fixed air samplers. Response personnel will be adequately protected from airborne radioactivity by their PPE required for fire response.

9. Only materials compatible with the waste may be used for fire response.

10. When cleanup has proceeded to the point of finding no radionuclide activity, then the "swipe" can be sent for analysis for hazardous constituents. The use of these confirmation analyses is as follows:

    - For waste containers, once radiologically clean and free of any visible evidence of hazardous waste spills on the container, it will be placed in the underground without further action.

    - For area contamination, once the area is cleaned up and is shown to be radiologically clean, it will be sampled for the presence of hazardous waste residues (for further information see Section D-4d, Emergency Termination Procedures).

11. Fire suppression materials used in response to incidents will be retained on-scene, where an evaluation will be performed to determine appropriate recovery and disposal methods.

D-4d(3) Explosion

The following actions will be implemented in the event that an explosion that involves or threatens hazardous or TRU mixed waste or hazardous materials has occurred:

1. The area will be evacuated immediately.

2. The CMRO will immediately notify the appropriate emergency response personnel and the RCRA Emergency Coordinator about the explosion.

3. Injured personnel will be treated and transported as necessary.

4. The RCRA Emergency Coordinator will remain in contact with responding personnel to advise them of the known hazards involved and the degree and location of the explosion and associated fires.

5. The RCRA Emergency Coordinator will be in command and may accept and evaluate the advice of WIPP facility personnel and emergency response organization members, but retains the overall responsibility. Selections of methods and tactics of response are the responsibility of the Incident Commander.

6. The RCRA Emergency Coordinator will be in overall control of WIPP facility emergency response efforts until the emergency is terminated.

7. When cleanup has proceeded to the point of finding no radionuclide activity, then samples may be taken for chemical analysis if there is visible evidence to suspect additional hazardous waste residues. Chemical residues on floor surfaces resulting from a hazardous waste explosion will be evaluated, sampled, analyzed (if required), isolated, and returned to appropriate containers, and surfaces will be cleaned using appropriate cleaners.

8. The RCRA Emergency Coordinator may shut down operational units (e.g., process equipment and ventilation equipment) that have been affected directly or indirectly by the explosion. Once the areas have been determined safe for reentry, processes may be reactivated.

D-4d(4) Spills

Protection of response personnel at a hazardous material incident is paramount. The primary methods to protect personnel are time, distance, and shielding. If a Level II or III incident exists, the RCRA Emergency Coordinator will implement the following actions:

1. The immediate area will be evacuated.

2. The RCRA Emergency Coordinator will review facility records to determine the identity and chemical nature of released material.

3. Entry team procedures will be utilized, with special attention to the following:

   - Buddy system
   - Appropriate PPE
   - Backup rescue team
   - Supplemental communication signals (hand signals and hand-light signals)
   - Monitoring equipment
   - Exposure time limitations

4. If possible, the source of the release will be secured.

5. A dike to contain runoff may be built.

6. Emergency responders will ensure that storm drains and/or sewers do not receive potentially hazardous runoff or spilled material. They may build dikes around storm drains to control discharge.

7. Released wastes may be collected and contained by stabilizing or neutralizing the spilled material, as appropriate, pouring an absorbent over the spilled material, and sweeping or shoveling the absorbed material into drums or other appropriate containers. The absorbents have been determined to be compatible with all components of the TRU mixed waste.

8. No TRU mixed waste that may be incompatible with the released material will be managed in the affected area until cleanup procedures are complete.

9. The RCRA Emergency Coordinator will direct spill control, decontamination, and termination procedures described below.

D-4d(5) Decontamination of Personnel

Decontamination of personnel with radioactive contamination is the responsibility of the Radiological Control (**RC**) section. If a person is contaminated with radioactivity during a site evacuation to the staging areas, the contaminated area will be covered before the person can be moved (under escort by RC personnel) to the staging area. The RC personnel will ensure the contaminated person remains segregated from other site personnel while under RC supervision.

In the event of an emergency that requires immediate evacuation of the area, the contamination can be covered by any method warranted, given the circumstance (e.g., clean clothing wrapped around the area). If the size of the radioactive contamination on the body is small and localized, it can be covered with clothing (e.g., glove, shoe cover, coveralls). If the size of the radioactive contamination on the body is large, it may be covered by dressing the individual in a full set of Anti-Contamination clothing (coveralls, hood, gloves, shoe covers, etc.).

If time and location permit and the contamination is on the face, it will be decontaminated immediately using a cloth moistened with tepid water (and a mild detergent, if necessary). If the size of the radioactive contamination on the individual's body is small and localized, it will be decontaminated using the same method as for the face, but after the individual has been transferred to an area appropriate for conducting decontamination.

If the individual is transferred to the staging area prior to decontamination, he/she will be decontaminated at the staging area using site procedures for personnel decontamination and using decontamination supplies and equipment as appropriate for the extent and magnitude of the contamination.

D-4d(6) Control of Spills or Leaking or Punctured Containers of CH and RH TRU Mixed Waste

In the event of spills or leaking or punctured containers of CH and RH TRU mixed waste, the WIPP responds to three distinct phases: 1) the event, 2) the re-entry, and 3) the recovery.

During the event, the following immediate actions are completed: 1) stop work, 2) warn others (notify CMR), 3) isolate the area, 4) minimize exposure, and 5) close off unfiltered ventilation. These actions can take place simultaneously, as long as they are completed before proceeding to the re-entry phase.

CH TRU Mixed Waste

Prior to the re-entry following an event involving containers that are managed as CH TRU mixed waste, a Radiological Work Permit (**RWP**) is written for personnel to enter with protective clothing to assess the conditions, take surveys and samples, and mitigate problems that could compound the hazards in the area (cover up spilled material with plastic material sheeting and or any approved fixatives such as paint, place equipment in a safe configuration, etc.). During the re-entry phase, smears and air sample filters are taken and counted. This information is

used by cognizant managers, RC personnel, and As Low As Reasonably Achievable (**ALARA**) Committee representatives to determine an appropriate course of action to recover the area. A plan to decontaminate and recover affected areas and equipment will be approved with a separate RWP written to establish the radiological controls required for the recovery.

During the recovery phase, the plan will be executed to utilize the necessary resources to conduct decontamination and/or overpacking operations as needed. The completion of this phase will occur prior to returning the affected area and/or equipment to normal activities. The recovery phase will include activities to minimize the spread of contamination to other areas. These activities will involve placing the waste material in another container; vacuuming the waste material; overpacking or plugging/patching the spilled, leaking, or punctured waste container; and/or decontaminating the affected area(s). If an affected surface cannot be decontaminated to releasable levels, it may be covered with a fixative coating and established as a Fixed Contamination Area to prevent spread of contamination, or it may be removed using heavy machinery and tools, packaged in approved waste containers, and emplaced in the underground. Every reasonable effort to minimize the amount of derived waste, while providing for the health and safety of personnel, will be made.

Should a breach of a CH TRU mixed waste container occur at the WIPP that results in removable contamination exceeding the small area "spot" decontamination levels, the affected container(s) (e.g., breached and contaminated) will be placed into an available overpack container (e.g., 85-gal drum, SWB, TDOP), except that TDOPs and SLB2s will be decontaminated, repaired/patched in accordance with 49 CFR §173 and §178 (e.g., 49 CFR §173.28), or returned to the generator. The decontamination of equipment and the overpacking of contaminated/damaged waste containers will be performed in the vicinity of the incident. For example, under normal operations CH TRU mixed waste will be handled only in the areas of the WHB Unit. Therefore, it is within these same areas that decontamination and/or overpacking operations would occur. By eliminating the transport of contaminated equipment to other areas for decontamination or overpacking, the risk of spreading contamination is reduced.

Equipment used during a spill cleanup or CH TRU mixed waste overpacking operation could include: cloths, brushes, scoops, absorbents, squeegees, tape, bags, pails, slings, hand tools, and others as needed for a given incident.

At the underground emplacement room, salt contaminated by a spill of CH TRU mixed waste would be either covered or cleaned up, depending on location, extent, and spilled material, due to potential radioactive contamination spread via the salt dust. The contaminated salt would be covered to isolate it from the workers, and the stacking of waste containers would resume or would be removed and packaged as site-derived waste using applicable site procedures for decontaminating surfaces.

The decontamination methods will initially involve wiping down structures, equipment, and other containers in the area with absorbent cloths moistened with tepid water. Surveys of these structures will take place and the need to continue decontamination activities will be established. If further decontamination is required, nonhazardous decontaminating agents, such as Liquinox©, Simple Green©, Windex©, citric acid, Bartlett Strip Coat©, and high pressure CO_2 will be used to prevent generating CH TRU mixed waste.

RWPs and other administrative controls provide protective measures to help ensure that new hazardous constituents will not be added during decontamination activities.

Certain structures and/or equipment may be disassembled to facilitate decontamination or may be placed directly into a derived waste container. Items used in the spill cleanup and decontamination operations (e.g., swipes, tools, PPE, etc.) may also be placed into a derived waste container.

When decontamination is deemed by the recovery team to be complete, RC personnel will conduct one final, intensive radcon survey of the area and components in the area to release it for uncontrolled use. The free release criteria for items, equipment, and areas is < 20 dpm/100 cm^2 for alpha radioactivity and < 200 dpm/100 cm^2 for beta-gamma radioactivity. Personnel will then perform hazardous material sampling after decontamination efforts are complete to verify the removal of hazardous waste substances. After cleanup is complete, facility personnel will complete an inspection and include the details of the spill and cleanup in the log.

RH TRU Mixed Waste

For RH TRU mixed waste, the detection of contamination on or damage to a RH TRU mixed waste canister or a facility canister may occur outside the Hot Cell during cask to cask transfer of the canister or during loading of the Shielded Insert in the Transfer Cell. When such contamination or damage is found, the Permittees have the option to decontaminate or return the canister to the generator/storage site or another site for remediation. In the case of a damaged facility canister, the Shielded Insert may be used as an overpack to facilitate further management. Contamination may also be detected within the Hot Cell during the unloading of the CNS 10-160B shipping cask. In this case, the Permittees may decontaminate the 55-gallon drums or return them to the generator/storage site or another site for remediation. Spills or releases that occur within the RH Complex or the underground as the result of RH TRU mixed waste handling will be mitigated by using the following measures, as appropriate:

During the re-entry phase, an evaluation of the incident, including the nature of the release, amount, location, and other appropriate factors, will be performed. A RWP will be written and approved prior to personnel entering the Hot Cell with the appropriate PPE to further assess the situation, perform surveys and take samples, and, if possible, mitigate problems that could compound the hazards in the area. Based on the results of the evaluation, a determination will be made by the RCRA Emergency Coordinator, with input from the cognizant managers, radiological control personnel, and ALARA Committee representatives whether to implement the Contingency Plan and to determine the appropriate course of action to recover from the event. An action response plan to decontaminate and recover affected areas and equipment, together with an RWP establishing the radiological controls required for the recovery will be developed and approved.

Should a breach of a RH TRU mixed waste container occur in the Hot Cell that results in removable contamination exceeding the small area "spot" decontamination levels, the affected container(s) (e.g., breached and contaminated) will be placed into a canister and processed for disposal. The decontamination of equipment, cleanup of spilled material and the overpacking of contaminated/damaged waste containers will be performed in the vicinity of the incident. For example, under normal operations RH TRU mixed waste in 55-gallon drums will be handled only in the Hot Cell. Therefore, it is within this area that decontamination and/or overpacking operations would occur. By eliminating the transport of contaminated equipment to other areas for decontamination or overpacking, the risk of spreading contamination is reduced. Contaminated materials for the cleanup and overpacking of a breached RH TRU mixed waste container may be managed as CH TRU mixed waste, depending on the surface dose rate.

Equipment used during a spill cleanup or RH TRU mixed waste overpacking operation could include: cloths, brushes, scoops, absorbents, squeegees, tape, bags, pails, slings, hand tools, and other equipment as needed for a given incident.

The decontamination methods may initially involve wiping down structures, equipment, and other containers in the area with absorbent cloths moistened with tepid water. Surveys of these structures will take place and the need to continue decontamination activities will be established. If further decontamination is required, nonhazardous decontaminating agents, such as Liquinox©, Simple Green©, Windex©, citric acid, Bartlett Strip Coat©, and high pressure CO_2 will be used to prevent generating CH TRU mixed waste.

RWPs and other administrative controls provide protective measures to help ensure that new hazardous constituents will not be added during decontamination activities.

Certain structures and/or equipment within the Hot Cell may be disassembled to facilitate decontamination or may be placed directly into a derived waste container. Items used in the spill cleanup and decontamination operations (e.g., swipes, tools, PPE, etc.) may also be placed into a derived waste container.

When decontamination of the Hot Cell is deemed by the recovery team to be complete, RC personnel will conduct one final, intensive radcon survey of the area and components in the area to release it for continued use. The free release criteria for items and equipment that will be released for uncontrolled use are < 20 dpm/100 cm^2 for alpha radioactivity and < 200 dpm/100 cm^2 for beta-gamma radioactivity. Personnel will then perform hazardous material sampling after decontamination efforts are complete to confirm the removal of hazardous waste substances. After cleanup is complete, facility personnel will complete an inspection and include the details of the spill and cleanup in the log. The recovery phase must be completed before the affected area and/or equipment are returned to service.

D-4d(7) Natural Emergencies

After a natural emergency (earthquake, flood, lightning strike, etc.) that involves hazardous waste or hazardous materials, the FSM will ensure the following actions are taken:

1. Inspect containers which have not been disposed and containment for signs of leakage or damage. Inspect areas where containers are stored looking for leaking containers and for deterioration of containers and the containment system.

2. Inspect affected equipment or areas associated with hazardous waste management activities for proper operating mode in accordance with site procedures and manually check to ensure automatic and alarmed features on the units are working.

3. Inspect affected equipment or areas within the HWMUs in accordance with site procedures for damage.

4. Inspect electrical boards and overhead electrical lines for damage.

5. Check container areas for signs of leakage or damage to drums and containers.

6. Check affected buildings and fencing directly related to hazardous waste management activities for damage.

7. Conduct a general survey of the site looking for signs of land movement, etc.

8. Take any necessary corrective measures, however temporary, to rectify potential or real problems.

9. Record inspection results.

D-4d(8) Roof Fall

Roof fall is not expected to affect RH TRU mixed waste because it is emplaced in the rib of the disposal room and not subject to impact from a roof fall. The following incident description and mitigation apply to CH TRU mixed waste.

The WIPP underground is routinely evaluated for stability and safety of the underground openings. These evaluations can be as simple as the MSHA required visual checks by personnel working in the area or as extensive as the expert review of the roof support system for Room 1 Panel 1 conducted in 1991. An in-depth evaluation of all of the accessible underground is performed on an annual basis as part of the formal ground control operating plans. Weekly visual and sounding inspections are performed by the Permittees. More frequent inspections and evaluations are performed in areas where roof or ribs are in need of evaluations, based on visual observations, analysis of rock deformation data, excavation effects program data acquired from observation holes, and support system performance.

This process applies not only to the waste disposal rooms but to the entire WIPP underground. Prior to waste emplacement, stability of each room will be evaluated. This evaluation will concentrate on the age and current performance of the installed support systems (if any) and the rate of roof beam expansion based on data from installed instrumentation. The roof support system's performance and surety, to provide the support necessary for the required time will be addressed. Criteria used will include design parameters such as the amount of load, the deformation of the installed system, and the number and type of component failures observed, if any. Geotechnical criteria will include parameters such as the type and quantity of fracturing, roof beam expansion rates, and future ground performance based on a predictive model.

Should the evaluation results indicate that remedial actions are necessary prior to placement of waste, experiences at the WIPP indicate that rebolting or installing supplemental support can extend the safe life of a room for several years.

After waste emplacement commences, geomechanical monitoring will continue with monitors that are tied into a computer network program. The readings obtained will provide information needed for the roof beam stability assessment. Visual observations of the ground and the support systems will also continue in all accessible areas. Based on the experiences from the Site and Preliminary Design Validation test rooms, it has been proven that any developing instability will be detected through monitoring. Multiple measures to deal with the observed conditions can be implemented months before an event to mitigate any risk associated with a roof fall in the storage room or any affected area within the mine. At a minimum, the affected area will be isolated and withdrawn from ventilation flow. Isolation operations will utilize current available methods, materials, and equipment.

Ground control conditions which could result in a fall can be divided into two scenarios: The first consists of spalling (falling) of individual small and localized rock falling on waste containers.

By definition, they can be considered insignificant as no damage to the drums can occur. The second consists of an entire section of roof falling on multiple stacks of waste containers. Each of these scenarios is discussed below.

Spalling-of-Ground Scenario

The maximum distance between the room roof and a container of waste is 10 ft. Waste containers are designed to withstand impact loads of at least 1,000 pounds (lbs) dropped from a height of 6 ft. flat or 450 lbs dropped on a circumferential edge from a height of 4 ft. Both of which correspond to an allowable impact stress of 25,450 pounds per square inch (psi). Rocks from spalling are small and would not be of sufficient weight when striking a drum from a 10 ft vertical height to cause an impact stress of more than 25,450 psi. Taking into account the falling distance, average weight, and the typical shape of the salt rock, the conclusion is that puncturing a drum by spalling is non-credible.

Fall-of-Ground Scenario

Fall-of-ground occurs when a large section of roof beam falls onto the waste containers. As previously discussed, the possibility of this occurring in an active room is remote, due to continuous monitoring and engineered roof support systems.

The following actions have been developed and will be taken by the RCRA Emergency Coordinator should a rock fall occur in an active waste emplacement area of the repository:

Spalling-of-Ground Actions

1. Determine whether the roof conditions allow for safe entry and if the waste container or containers in question are accessible.

   The process used to determine if a roof condition of a room will allow for safe entry is the same as the ground control inspection process used for inspection of the ground conditions and roof bolt integrity. The inspection will begin at a safe and sound roof starting point and consist of visual inspections of roof bolts, roof, and rib areas for missing or damaged bolts; deformed roof bolt plates; or roof and rib cracks, fractures, or separations. If during the visual inspection suspicious roof bolts, roof, or ribs are found, then operators will proceed with sounding the area in question with a scaling bar for loose roof bolts, bad roof, or ribs (loose roof bolts will not ring when sounded). Bad roof or ribs will have a drummy, hollow, or un-solid sound when struck with the scaling bar. When this operation is performed, a safe avenue for retreat is always maintained. Also maintained is a position such that an unexpected event will not place personnel in a position where the scaling bar or material being scaled could fall on personnel. If the inspection reveals ground that cannot be safely scaled manually or with the available mining equipment, the affected area, up to and including the entire room, will be barricaded and removed from ventilation flow.

   The criteria used to determine whether a waste container is accessible is based on the location of the container, the amount of waste in the room, and the expense of

reaching the waste container safely versus the expense of abandonment of the room. For example, if the room is 95% filled and spalling-of-ground punctured a waste container at or near the exit of the room, the decision to isolate the room and move waste emplacement activities to the next room would be prudent.

2. Restrict access in ventilation flow path downstream of the incident.

3. Restrict ventilation to the affected room to ensure that there is no spread of contamination that may have been released. Survey for contamination and establish the boundaries.

4. Inspect accessible and affected containers and containment for signs of leakage or damage.

5. Cover the spill area with material such as plastic or fabric sheets or paint, in a way that would safely isolate the area.

6. Determine if the covered spill area safely allows for continued waste disposal operations or whether further cleanup is required. If further cleanup is required, provide with cleanup methods described below. Note: Cleaning may not be required since this is the permitted disposal area.

7. Inspect any affected equipment (vehicles, handling equipment, and communication and alarm equipment) for proper function.

8. Repackage spilled waste and repackage, plug, or patch breached waste containers into 55 or 85-gallon drums, SWBs, or TDOPs, depending on volume. Temporarily locate overpack waste containers in an adjacent room. Remove only those intact waste containers necessary to clear the area for decontamination.

9. At the underground emplacement room, salt contaminated by a spill of TRU mixed waste will be covered with materials such as salt, plastic or fabric sheets or PVA to isolate it from the workers or removed and packaged as site derived waste in accordance with site procedures for decontaminating surfaces.

10. Manage the radioactive debris as derived waste.

11. Characterize containers of waste based on the waste containers that were damaged.

12. Replace the removed and derived waste containers into the waste stack as appropriate and update the WWIS.

13. Document activities and record results.

<u>Fall-of-Ground Actions</u>

1. Restrict access in ventilation flow path downstream of the incident.

2. Restrict the room from ventilation flow by closing bulkhead regulators.

3. Survey for radiological contamination and establish the boundary for a Radiological Buffer Area.

4. Install barricade devices to remove access.

5. At the underground emplacement room, salt contaminated by a spill of TRU mixed waste will be covered with materials such as salt, plastic or fabric sheets, or PVA to isolate it from the worker or removed and packaged as site derived waste using damp rags, hand tools, and HEPA filtered vacuums.

   The criteria used to determine whether to close the entire panel or just the affected room of waste containers would include the location of the roof fall and the stability of the unaffected roof area in the panel. Techniques to determine the stability would be the same as previously described in this section.

D-4d(9) Structural Integrity Emergencies

In the event of a WIPP facility emergency involving underground structural integrity, the situation will be handled as a natural emergency. Monitoring and inspection procedures ensure the safety and integrity of the WIPP facility underground.

D-4d(10) Emergency Termination Procedures

For the transition from emergency phase to cleanup phase, the following items will be complete:

- Emergency scene will be stable
- Release of hazardous substance will be stopped
- Reaction of hazardous substance will be controlled
- The released hazardous substance will be contained within a localized and manageable area
- The area of contamination will be adequately secure from unauthorized entry

At every incident involving hazardous materials, there is a possibility that response personnel and their equipment will become contaminated. Emergency response personnel have procedures to minimize contamination or contact, and to properly dispose of contaminated materials.

For nonemergencies and Incident Level I emergencies, the following methods of decontamination are available for personnel, environment, and/or equipment according to emergency response procedures:

- Absorption
- Adsorption
- Chemical degradation
- Dilution
- Disposal

- Isolation
- Neutralization
- Solidification

Any necessary verification of air, soil, or water samples will be directed by the RCRA Emergency Coordinator. Immediately after an emergency, the RCRA Emergency Coordinator will provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility in accordance with standard operating procedures.

For Level II and III incidents after the emergency itself is controlled and contained, the RCRA Emergency Coordinator will be responsible for the development and implementation of an incident-specific decontamination plan.

PPE will be decontaminated or disposed according to procedure before it is returned to its storage location.

As part of the facility's defense-in-depth approach, equipment will be assumed to be contaminated after each hazardous material response and a thorough check for radioactive contamination will be conducted. If contamination is found, a technically sound decontamination process will be followed. Many types of equipment are difficult to decontaminate and may have to be discarded as hazardous or derived waste. Whenever possible, pieces of equipment will be disposable or made of nonporous material.

If radioactive contamination is detected on equipment or on structures, it will be assumed that hazardous constituents may also be present. Radiological surveys to determine whether a potential release of hazardous constituents has occurred (Permit Attachment I3) will be used along with other techniques as a detection method to determine when decontamination is required. Radiological cleanup standards will be used to determine the effectiveness of decontamination efforts. To provide verification of the effectiveness of the removal of hazardous waste constituents, once a contaminated surface is demonstrated to be radiologically clean, the "swipe" can be sent for analysis for hazardous constituents. The use of these confirmation analyses is as follows:

For waste containers, the analyses become documentation of the condition of the container at the time of emplacement. These containers will be placed in the underground without further action, once the radiological contamination is removed, unless there is visible evidence of hazardous waste spills or hazardous waste on the container and this contamination is considered likely to be released prior to emplacement in the underground. In no case shall these containers contain a total liquid content equal to, or which exceeds, one volume percent of the container.

For area contamination, once the area is cleaned up and is shown to be radiologically clean, it will be sampled for the presence of hazardous waste residues. If the area is large, a sampling plan will be developed. The sampling plan will be approved by the NMED before it is implemented. If the area is small, swipes will be used. If the results of the analysis show that residual contamination remains, a decision will be made whether further cleaning will be beneficial or whether final clean up will be deferred until closure. Appropriate notations will be entered into the operating record to assure proper consideration of formerly contaminated areas at the time of closure. Furthermore,

measures such as covering, barricading, and/or placarding will be used as needed to mark areas that remain contaminated.

For all Contingency Plan emergency responses, the RCRA Emergency Coordinator will ensure, in keeping with standard operating procedures, that, in the affected area(s) of the facility:

- No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed
- All emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use, or replaced before operations are resumed

D-4e Prevention of Recurrence or Spread of Fires, Explosions, or Releases

During an emergency, the RCRA Emergency Coordinator will ensure that reasonable measures are taken so that fires, explosions, and releases do not occur, recur, or spread to TRU mixed waste or other hazardous materials at the facility, as required under 20.4.1.500 NMAC (incorporating 40 CFR §§264.56(e) and (f)). These measures include:

- Stopping processes and operations.
- Collecting and containing released wastes and materials.
- Removing or isolating containers of waste or hazardous substances posing a threat.
- Ensuring that wastes managed during an emergency are handled, stored, or treated with due consideration for compatibility with other wastes and materials on site and with containers utilized (Section D-4h).
- Restricting personnel not needed for response activities from the scene of the incident.
- Evacuating the area.
- Curtailing nonessential activities in the area.
- Conducting preliminary inspections of adjacent facilities and equipment to assess damage.
- Overpacking and/or removing damaged containers/drums from affected areas. Damaged equipment and facilities will be repaired as appropriate.
- Constructing, monitoring, and reinforcing temporary dikes as needed.
- Maintaining fire equipment on standby at the incident site in cases where ignitable liquids have been or may be released and ensuring that all ignition sources are kept out of the area. Ignitable liquids will be segregated, contained, confined, diluted, or otherwise controlled to preclude inadvertent explosion or detonation.

No operation that has been shut down in response to the incident will be restarted until authorized by the RCRA Emergency Coordinator. Sections D-4g, Incompatible Waste, and D-4h, Post-Emergency Facility and Equipment Maintenance and Reporting, address specific issues related to decreasing the possibility of a recurrence or spread of a release, a fire, or an explosion.

After resolution of the incident, a Root Cause Analysis will be conducted to review all Level II and Level III incidents for determination of cause, and the corrective action plan to prevent recurrence.

D-4f Management and Containment of Released Material and Waste

Once initial release or spill containment has been completed, the RCRA Emergency Coordinator will ensure that recovered hazardous materials and waste are properly stored and/or disposed, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.56(g)). For spills of liquid, the perimeter of the spill will be diked with an absorbent material that is compatible with the material(s) released. Free-standing liquid will be transferred to a marked compatible container. The remaining liquid will be absorbed with an absorbent material and swept or scooped into a marked compatible container. Spill residue will be removed. Spills of dry material will be swept or shoveled into a labeled compatible recovery container. Material recovered from the spill will be transferred to clean containers or tanks or to containers or tanks that have held a compatible material. All containers will meet DOT specifications for shipping the wastes, and materials will be recovered.

Nonradioactive hazardous waste resulting from the cleanup of a fire, an explosion, or a release involving a nonradioactive hazardous waste or hazardous substance at the WIPP facility will be contained and managed as a hazardous waste until such time as the waste is disposed of, or determined to be nonhazardous, as defined in 20.4.1.200 NMAC (incorporating 40 CFR §261) Subparts C and D. In most cases, hazardous materials inventories for the various buildings and areas at the facility will allow a determination of the hazardous materials present in any cleanup of a release or of the residues from an emergency condition (The quantities of such spills are so small, it is not likely to trigger an Incident Level II or III). When necessary samples of the waste will be collected and analyzed to determine the presence of any hazardous characteristics and/or hazardous waste constituents; this information is needed to evaluate disposal options. EPA-approved sampling and analytical methods will be utilized. Hazardous wastes will be transferred to the Hazardous Waste Staging Area. The staging area is used to store hazardous waste awaiting transfer to an off-site treatment or disposal facility in accordance with applicable regulations (e.g., 20.4.1 NMAC and DOT regulations). The Hazardous Waste Staging Area for nonradioactive hazardous waste is Buildings 474A and 474B, as shown in Figure D-1. Nonradioactive hazardous wastes will be shipped off-site for disposal at a RCRA permitted disposal facility.

Under normal operations, administrative controls will be implemented to ensure that hazardous materials and incompatible materials will not be introduced to the radioactive materials area during TRU mixed waste handling operations. Examples of administrative controls include restricting the waste received in the TRU mixed waste management area(s) to TRU mixed waste properly manifested from the generator sites and ensuring that materials used in these area(s) are restricted to only those that have previously been determined to be compatible with the TRU mixed waste. The RCRA Emergency Coordinator will have access to building design information and information on specific equipment used within an area upon which to base a

determination of the compatibility of materials with the area. If necessary, the RCRA Emergency Coordinator will use EPA-600/2-80-076, "A Method for Determining the Compatibility of Hazardous Waste," (EPA, 1980) for making compatibility determinations. Waste resulting from the cleanup of a fire, explosion, or release in the miscellaneous unit, the CH TRU mixed waste handling areas, or the RH Complex will be considered derived from the received TRU mixed waste and may be treated and managed as CH TRU mixed waste depending on the surface dose rate.

In the event of a prolonged cessation of TRU mixed waste handling operations, TRU mixed waste can be placed in areas of the WHB Unit that are available for such contingencies. These areas and the TRU mixed waste containers in them would be located so that adequate aisle space would be maintained for unobstructed movement of personnel and equipment in an emergency. Permit Attachments A1 and A2 describe the HWMUs in detail, including the facility description, support structures and equipment, security, waste handling areas, ventilation, and fire protection.

The contaminated area will be decontaminated. If a release is to a permeable surface, such as soil, asphalt, concrete, or other surface, the surface material will be removed and placed in containers meeting applicable DOT requirements. Contaminated soil, asphalt, concrete, or other surface material, as well as materials used in the cleanup (e.g., rags and absorbent material) will be contained and disposed of in the same manner as dictated for the contaminant. Clean soil, new asphalt, or new concrete will be emplaced at the spill location.

If a spill occurs on an impermeable surface, the surface will be decontaminated with water and/or a detergent. In the event that the spilled material is water reactive, a compatible nonhazardous cleaning solution will be used. Contaminated wash water or cleaning solution will be transferred to an appropriate container, marked, and managed as described above for nonradioactive or radioactive liquid wastes.

In the event of a hazardous material or hazardous waste release, the RCRA Emergency Coordinator will ensure that no wastes will be received or disposed of in the affected areas until cleanup operations have been completed. This is to ensure that incompatible waste will not be present in the vicinity of the release.

Because of the restrictions which the WIPP facility places on generators, and because of control of WIPP operations, TRU mixed wastes and derived wastes will not contain any incompatible wastes. However, the areas established for the temporary holding of nonradioactive waste routinely generated at the WIPP facility is divided into bays to accommodate the management of wastes that may be incompatible. If waste is generated as the result of a spill or release of hazardous materials or nonradioactive hazardous waste, the waste generated as a result of abatement and cleanup will be evaluated to determine its compatibility with other wastes being managed in the temporary holding areas. The evaluation will be by identifying the material or waste that was spilled or released and determining its characteristics (e.g., ignitable, reactive, corrosive, or toxic). The waste generated by the abatement and cleanup activities will be stored in that part of the temporary holding area that has been established to manage wastes with which it is compatible.

For small nonemergency liquid spills (e.g., a detergent solution leaking out of the pump handle during decontamination, a spill of hydraulic fluid while servicing a vehicle), spill control procedures will be used to contain and absorb free-standing liquid. The contaminated absorbent

will be swept or shoveled into a compatible container and managed as described above. No notifications will be required, but site procedures require documentation of the incident.

D-4g Incompatible Waste

Implementation of the TSDF-WAC for the WIPP ensures that incompatible TRU mixed waste will not be shipped to the WIPP facility. Nonradioactive waste at the WIPP facility will be carefully segregated during handling and holding and will be transported within and off the facility. The RCRA Emergency Coordinator will not allow hazardous or TRU mixed waste operations to resume in a building or area in which incompatible materials have been released prior to completion of necessary post-emergency cleanup operations to remove potentially incompatible materials. In making the determination of compatibility, the RCRA Emergency Coordinator will have available the resources and information described in Section D-4b, Identification of Hazardous Materials. In addition, ES&H department personnel will be available for consultation. Finally, the RCRA Emergency Coordinator may use EPA-600/2-80-076, (EPA, 1980).

D-4h Post-Emergency Facility and Equipment Maintenance and Reporting

The RCRA Emergency Coordinator will ensure that emergency equipment that is located or used in the affected area(s) of the facility and listed in the Contingency Plan is cleaned and ready for its intended use before operations are resumed, as specified in 20.4.1.500 NMAC (incorporating 40 CFR §264.56(h)(2)). Any equipment that cannot be decontaminated will be discarded as waste (e.g., hazardous, mixed, solid), as appropriate. The WIPP facility is committed to replacing any needed equipment or supplies that cannot be reused following an emergency. After the equipment has been cleaned, repaired, or replaced, a post-emergency facility and equipment inspection will be performed, and the results will be documented.

Cleaning and decontaminating equipment will be accomplished by physically removing gross or solid residue; rinsing with water or another suitable liquid, if required; and/or washing with detergent and water. Decontamination and cleaning will be conducted in a confined area, such as a wash pad or building equipped with a floor drain and sump isolated from the environment. Care will be taken to prevent wind dispersion of particles and spray. Liquid or particulate resulting from cleaning and decontamination of equipment will be placed in clean, compatible containers. Waste produced in an emergency cleanup in the TRU mixed waste handling areas is derived waste and will be emplaced in the underground derived waste emplacement area. Waste resulting from decontamination operations elsewhere in the WIPP facility will be analyzed for hazardous waste constituents and/or hazardous waste characteristics to ensure proper management.

When the WIPP facility has completed post-emergency cleanup of waste and hazardous residues from areas where waste management operations are ready to resume and the RCRA Emergency Coordinator has ensured that emergency equipment used in managing the emergency has been cleaned or replaced and is fit for service, the notifications will be made by the Permittees to the following: the EPA Region VI Administrator; the Secretary of the NMED; and any relevant local authorities. This post-emergency notification complies with 20.4.1.500 NMAC (incorporating 40 CFR §264.56(i)), and is the responsibility of the RCRA Emergency Coordinator.

D-4i Container Spills and Leakage

The waste received at the WIPP facility will meet stringent TSDF-WAC (e.g., no more than one percent liquid), which will minimize the possibility of waste container degradation and liquid spills. Should a spill or release occur from a container, following an initial assessment of the event, the WIPP facility will immediately take the following actions, in compliance with 20.4.1.500 NMAC (incorporating 40 CFR §264.52(a) and §264.171):

- Assemble the required response equipment, such as protective clothing and gear, heavy equipment, empty drums, overpack drums, and hand tools
- Transfer the released material to a container that is in good condition or overpack the leaking container into another container that is in good condition
- Once the release has been contained, determine the areal extent of migration of the release and proceed with appropriate cleanup action, such as chemical neutralization, vacuuming, or excavation

D-4j Tank Spills and Leakage

The TRU mixed waste handling areas at the WIPP facility do not include tank storage or treatment of hazardous waste, as defined in 20.4.1.101 NMAC (incorporating 40 CFR §260.10), and as regulated under 20.4.1.500 NMAC (incorporating 40 CFR §264) Subpart J. At the WIPP facility, tanks are used to store water and petroleum fuels only. The petroleum tanks store diesel and unleaded gasoline.

D-4k Surface Impoundment Spills and Leakage

The WIPP facility does not manage hazardous or TRU mixed waste using a surface impoundment, as defined in 20.4.1.101 NMAC (incorporating 40 CFR §260.10), and as regulated under 20.4.1.500 NMAC (incorporating 40 CFR, §264) Subpart K. Surface impoundment regulations are not applicable to the WIPP facility.

D-5 Emergency Equipment

A variety of equipment is available at the facility for emergency response, containment, and cleanup operations in both the HWMUs and the facility in general. This includes equipment for spill control, fire control, personnel protection, monitoring, first aid and medical attention, communications, and alarms. This equipment is immediately available to emergency response personnel. A listing of major emergency equipment available at the WIPP facility, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.52(e)), is shown in Table D-6. Table D-7 identifies the locations where fire suppression systems are provided. Locations of the underground emergency equipment are shown in Figure D-5. The firewater-distribution system map is shown in Figure D-6. The underground fuel area fire-protection system is shown in Figure D-7.

D-6 Coordination Agreements

The Permittees have established MOUs with off-site emergency response agencies for firefighting, medical assistance, hazardous materials response, and law enforcement. In the

event that on-site response resources are unable to provide all the needed response actions during either a medical, fire, hazardous materials, or security emergency, the RCRA Emergency Coordinator will notify appropriate off-site response agencies and request assistance. Once on site, off-site emergency response agency personnel will be under the direction of the RCRA Emergency Coordinator.

The MOUs with off-site cooperating agencies are available from the Permittees. A listing and description of the MOUs with state and local agencies and mining operations in the vicinity of the WIPP facility, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.37 and §264.52(c)), are:

- An agreement among the Permittees, Intrepid Potash NM LLC, and Mosaic Potash Carlsbad Inc., provides for the mutual aid and assistance, in the form of MRTs, in the event of a mine disaster or other circumstance at either of the two facilities. This provision ensures that the WIPP MOC will have two MRTs available at all times when miners are underground.

- A memorandum of agreement between the City of Carlsbad, New Mexico, and the WIPP MOC for ambulance service assistance provides that, upon notification by the WIPP MOC, the Carlsbad Fire Department/Ambulance Service will be dispatched from Carlsbad toward the WIPP site by a designated route and will accept the transfer of patient(s) being transported by the WIPP facility ambulance at the point both ambulances meet. If the patient(s) is not transferrable, the Carlsbad Fire Department/Ambulance Service will provide equipment and personnel to the WIPP facility ambulance, as necessary.

- A MOU between the DOE and the Carlsbad Medical Center provides for the treatment of radiologically contaminated personnel who have incurred injuries beyond the treatment capabilities at the WIPP facility. The DOE will provide transport of the patient(s) to the Carlsbad Medical Center for decontamination and medical treatment.

- A MOU between the DOE and the Lea Regional Medical Center provides for the treatment of radiologically contaminated personnel who have incurred injuries beyond the treatment capabilities at the WIPP facility. The DOE will provide transport of the patient(s) to the Lea Regional Medical Center for decontamination and medical treatment.

- A MOU between the DOE and the U.S. Department of Interior (**DOI**), represented by the Bureau of Land Management (**BLM**), Roswell District, provides for a fire-management program that will ensure a timely, well-coordinated, and cost-effective response to suppress wild fire within the withdrawal area using the WIPP incident commander for fire-management activities. The DOI will provide firefighting support if requested. In addition, the MOU provides for responsibilities concerning cultural resources, grazing, wildlife, mining, gas and oil production, realty/lands/rights-of-way, and reclamation.

- A mutual-aid firefighting agreement between the Eddy County Commission and the DOE provides for the assistance of the Otis and Joel Fire Departments (a volunteer fire district created under the Eddy County Commission and the New Mexico State Fire

Marshall's Office), including equipment and personnel, at any location within the WIPP Fire Protection Area upon request by an authorized representative of the WIPP Project. These responsibilities are reciprocal.

- A mutual-aid agreement between the City of Hobbs and the DOE provides for mutual ambulance, medical, fire, rescue, and hazardous material response services; provides for joint annual exercises; provides for use of WIPP facility radio frequencies by the City of Hobbs during emergencies; and provides for mutual security and law enforcement services, within the appropriate jurisdiction limits of each party.

- A mutual-aid agreement between the City of Carlsbad and the DOE provides for mutual ambulance, medical, fire, rescue, and hazardous material response services; provides for joint annual exercises; provides for use of WIPP facility radio frequencies by the City of Carlsbad during emergencies; and provides for mutual security and law enforcement services, within the appropriate jurisdiction limits of each party.

- A MOU between the DOE and the New Mexico Department of Public Safety (**DPS**) concerning Mutual Assistance and Emergency Management applies to any actual or potential emergency or incident that: 1) involves a significant threat to employees of the Permittees or general public; 2) involves property under the control or jurisdiction of either the DOE or the State; 3) involves a threat to the environment which is reportable to an off-site agency; 4) requires the combined resources of the DOE and the state; 5) requires a resource that the DOE has which the State does not have, or a resource the State has which DOE does not have; or 6) involves any other incident for which a joint determination has been made by the DOE and the State that the provisions of this MOU will apply. The MOU provides that the DPS shall permit qualified and security cleared DOE Emergency Management members into the State EOC for the purpose of: a) coordinating communications functions; b) evaluating and maintaining communications capabilities; c) participating in exercises; d) link the State's High Frequency radio communications network with the DOE; and e) assisting the State during radioactive materials accidents that require joint operations or the use of the DOE Radiological Assistance Program team. The DOE shall permit qualified and security cleared members the State Emergency Management community into the DOE's EOCs for the purposes of coordinating communications and activities. Additional duties for each participant are specified for assistance in incidents or emergencies.

D-7 Evacuation Plan

If it becomes necessary to evacuate the WIPP facility, the assigned on-site and off-site staging areas have been established. The off-site staging areas are outside the security fence. The WIPP facility has implementation procedures for both surface and underground evacuations. Drills are performed on these procedures at the WIPP facility at least once annually. The following sections describe the evacuation plan for the WIPP facility, as required under 20.4.1.500 NMAC (incorporating 40 CFR §264.52(f)).

D-7a Surface Evacuation On-site and Off-site Staging Areas

Figure D-8 shows the surface staging areas. Personnel report to their Office Wardens at designated staging areas where accountability is conducted. If site evacuation is necessary, the

RCRA Emergency Coordinator will decide which staging areas are to be used and will advise Office Wardens of the selections. The RCRA Emergency Coordinator will communicate the locations to Office Wardens via office warden pager, radio, plectron, WIPP Security, or telephone, as appropriate. Office Wardens will direct personnel to the selected staging area outside the security fence. Personnel who are working in a contaminated area when site evacuation is announced, will assemble at specific staging areas to minimize contact with other personnel during the evacuation (Figure D-8).

Office Wardens conduct accountability of personnel assigned to their specific areas. For complete surface accountability, the Office Wardens report to their ACOW, who reports to the COW. When the COW has reports from all ACOWs, surface accountability is reported to the CMRO, who then notifies the RCRA Emergency Coordinator of the accountability.

The COW and all ACOWs communicate between themselves and the CMRO using devices (e.g., telephones, radios, pagers, the public address system, email, Internet). The Office Wardens, Assistant Office Wardens, ACOWs, and COW are notified by a public address announcement (or other devices) in accordance with emergency response procedures for evacuation or sheltering in place. At the staging areas Office Wardens report directly to their ACOW.

There are three off-site staging areas identified on Figure D-8. The RCRA Emergency Coordinator determines which staging area will be used. Security officers remain at the primary staging area gate 24 hours a day, and the vehicle trap is opened for personnel during emergency evacuations. The north gate has a single person gate and large gate which can be opened, similar to the main gates for the primary staging area. The east gate is a turnstile gate. Upon notification by the RCRA Emergency Coordinator, Security will respond, open gates, and facilitate egress for evacuation.

The on-site staging areas are identified in Figure D-8. These are used for building or area evacuations as determined by the RCRA Emergency Coordinator.

D-7b Underground Assembly Areas and Egress Hoist Stations

In the event of an underground or surface event, the RCRA Emergency Coordinator can call for underground personnel to report to assembly areas (Figure D-9). Underground personnel are also trained to immediately report to assembly areas under specific circumstances (i.e. loss of underground power or ventilation). If accountability is required, the underground will be evacuated. The Underground Controller is responsible for underground accountability by comparing the brass numbers with the brass tags signed out in the lamproom. Each assembly area contains a Mine Page Phone, miner's aid station, and evacuation maps.

In accordance with 30 CFR §57.11, the mine maintains two escapeways. These escapeways are designated as Egress Hoist Stations. When an underground evacuation is called for, all underground personnel report to the Egress Hoist Stations.

Decontamination of underground personnel will be conducted the same way as described for surface decontamination. Contaminated personnel are trained to remain segregated from other personnel until RC personnel can respond to the incident at the underground location.

D-7c Plan for Surface Evacuation

Surface evacuation notification is initiated by the RCRA Emergency Coordinator directing the CMRO to sound the surface evacuation alarm. The Office Wardens assist personnel in evacuation from their areas. Evacuation routes and instructions are posted throughout the site.

If the FSM/CMRO notifies the ERT members by a communication device (e.g., pager) to respond to an identified area, these members will not depart the site during an evacuation, but will report to the FSM for instructions and accountability. The EST/FPT notifies the COW of response members present. These personnel will not evacuate until released by the RCRA Emergency Coordinator.

D-7d Plan for Underground Evacuation

Notification for underground evacuation will be made using the underground evacuation alarm and strobe light signals.

Personnel will evacuate to the nearest egress hoist station. Primary underground evacuation routes (identified by green reflectors on the rib) will be used, if possible. Secondary underground evacuation routes (identified by red reflectors on the rib) will be used if necessary (Figure D-5). Brass tags will be collected from personnel at the hoist collar on the surface, and taken to the Underground Controller, who functions as an Office Warden. When all brass tags are accounted for, underground accountability is reported to the RCRA Emergency Coordinator.

Upon reaching the surface, personnel will report to their on-site staging area to receive further instructions.

Members of the FLIRT and the MRT who may be underground, will evacuate the underground when an underground evacuation is called for. A reentry by the MRT will be performed according to 30 CFR 49 and MSHA regulations for reentry into a mine. The two MRTs are trained in compliance with 30 CFR 49 in mine mapping, mine gases, ventilation, exploration, mine fires, rescue, and recovery.

D-7e Further Site Evacuation

In the event of an evacuation involving the need to transport employees, the following transportation will be available:

- Buses/vans—WIPP facility buses/vans will be available for evacuation of personnel. The buses/vans are stationed in the employee parking lot.

- Privately Owned Vehicles—Because many employees drive to work in their own vehicles, these vehicles may be utilized in an emergency. Personnel may be directed as to routes to be taken when leaving the facility.

These vehicles may be used to transport personnel who have been released from the site by the RCRA Emergency Coordinator.

D-8 Required Reports

The RCRA Emergency Coordinator, on behalf of the Permittees, will note in the operating record the time, date, and details of any incident that requires implementing this Contingency Plan. This notation will be in the facility log maintained by the CMRO. In compliance with 20.4.1.500 NMAC (incorporating 40 CFR §264.56(j)), within 15 days after the incident, the Permittees will ensure that a written report on the incident will be submitted to the EPA Region VI Administrator and to the Secretary of the NMED. The report will include:

- The name, address, and telephone number of the Owner/Operator
- The name, address, and telephone number of the facility
- The date, time, and type of incident (e.g., fire, explosion or release)
- The name and quantity of material(s) involved
- The extent of injuries, if any
- An assessment of actual or potential hazards to human health or the environment, where this is applicable
- The estimated quantity and disposition of recovered material that resulted from the incident

In addition to the above report, the Permittees will ensure that the ES&H Manager, or designee, submits reports to the appropriate agencies as listed in Tables D-8 and D-9.

In accordance with 20.4.1.500 NMAC (incorporating 40 CFR §264.56(i)), the Permittees will notify the Secretary of the NMED and EPA Region VI Administrator that the WIPP facility is in compliance with requirements for the cleanup of areas affected by the emergency and that emergency equipment used in the emergency response has been cleaned, repaired, or replaced and is fit for its intended use prior to the resumption of waste management operations in affected areas. The means the WIPP facility will use to meet these requirements are described in Sections D-4e, D-4f, D-4g, and D-4h.

The WIPP requires the EST/FPT to initiate the "WIPP Hazardous Materials Incident Report" if the Contingency Plan is implemented. A form is attached as Figure D-12. The form is initiated by the EST/FPT. The RCRA Emergency Coordinator, CMRO, and Environmental Compliance representatives complete their respective sections.

D-9 Location of the Contingency Plan and Plan Revision

The owner/operator of the WIPP facility will ensure that copies of this Contingency Plan are available to all emergency personnel and organizations described in Section D-2. When the Contingency Plan is revised, updated copies are manually distributed (electronically or via site mail) or hand delivered to applicable WIPP Facility emergency personnel and alternate Emergency Operations Center and Joint Information Center. In addition, the owner/operator will make copies available to the following outside agencies:

- Intrepid Potash NM LLC and Mosaic Potash Carlsbad Inc.
- Carlsbad Fire Department, Carlsbad
- Carlsbad Medical Center, Carlsbad
- Lea Regional Medical Center, Hobbs
- Otis Fire Department, Otis
- Hobbs Fire Department, Hobbs
- Joel Fire Department, Carlsbad
- BLM, Carlsbad
- New Mexico State Police

The owner/operator of the WIPP facility will ensure that this plan is reviewed annually and amended whenever:

- Applicable regulations are revised
- The RCRA Part B permit for the WIPP facility is revised in any way that would affect the Contingency Plan
- This plan fails in an emergency
- The WIPP facility design, construction, operation, maintenance, or other circumstances change in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous constituents or change the response necessary in an emergency
- The list of RCRA Emergency Coordinators change
- The list of WIPP facility emergency equipment changes.

References

U.S. Environmental Protection Agency, "A Method for Determining the Compatibility of Hazardous Waste," EPA-600/2-80-076, 1980.

U.S. Department of Transportation, Emergency Response Guidebook, U.S. Government Printing Office, 1993.

Westinghouse Electric Corporation, 1994, "Quality Assurance Project Plan for WIPP Site Effluent and Hazardous Materials Sampling," WP 02-EM1, Westinghouse Electric Corporation, Carlsbad, New Mexico.

U. S. Department of Energy, "WIPP Safety Analysis Report," DOE/WIPP-95-2065, Rev. 2

U. S. Department of Energy, "WP 12-5, WIPP Radiation Safety Manual".

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TABLES

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Table D-1
Hazardous Substances in Large Enough Quantities to Constitute a Level II Incident

Chemical Description	Building Location	Hazard Category
Ethylene Glycol Solution - 35%	Buildings 411; 412; 451; 452; 486; 463; 474C; FAC 414	Immediate (acute) Delayed (chronic)
Gasoline, Unleaded GASC0001	FAC 480	Fire Immediate (acute) Delayed (chronic)
No. 1 Diesel Fuel Oil GASC0210	U/G Fuel Station; Oil Depot U/G; FACs 480, 255.1 & 255.2; Transport Tank; Building 456	Fire Immediate (acute) Delayed (chronic)
Multiple containers of TRU Waste as described in Permit Section 3.3.1	WHB Waste Shaft U/G	Delayed (chronic)
Hazardous materials in quantities that exceed 5 times the Reportable Quantity (Per DOE O 151.1) values as defined in 40 CFR 302	It should be noted that WIPP is not expected to possess such quantities.	Fire Immediate (acute) Delayed (chronic)

Table D-2
Resource Conservation and Recovery Act Emergency Coordinators

Name	Address*	Office Phone	Personal Phone*
R. C. (Russ) Stroble (primary)[1]		234-8276 or 234-8554	
J. E. (Joseph) Bealler[2]		234-8276 or 234-8916	
M. G. (Mike) Proctor[2]		234-8276 or 234-8143	
G. L. (Gary) Kessler[2]		234-8326	
A. E. (Alvy) Williams[1] (primary)		234-8276 or 234-8216	
P. J. (Paul) Paneral[1] (primary)		234-8498	
J. R. (Joel) Howard[2]		234-8325	
M. L. (Mark) Long[1] (primary)		234-8170	
A.C (Andy) Cooper[2]		234-8197	

* NOTE: Personal information (home addresses and personal phone numbers) has been removed from informational copies of this Permit.

[1] The on-duty Facility Shift Manager is the primary RCRA Emergency Coordinator pursuant to 20.4.1.500 NMAC (incorporating 40 CFR §264.52), and is designated to serve as the RCRA Emergency Coordinator.

[2] The on-duty Facility Operations Engineer is the alternate RCRA Emergency Coordinator and is available as needed.

Table D-3
Planning Guide for Determining Incident Levels and Response

Incident Condition	Incident Level		
	I	II *	III *
Product identifications	Placard not required, NFPA 0 or 1 all categories, all Other Regulated Materials A, B, C, and D.	DOT placarded, NFPA 2 for any categories, PCBs without fire, EPA regulated waste. SITE SPECIFIC: Table D-1 and TRU mixed waste AND	Poison A (gas), explosive A/B, organic peroxide, flammable, solid, materials dangerous when wet, chlorine, fluorine, anhydrous ammonia, radioactive materials, NFPA 3 and 4 for any categories including special hazards, PCBs and fire including special hazards, PCBs and fire DOT inhalation hazard, EPA extremely hazardous substances, and cryogenics.
Container size	Container size does not impact this incident level.	Involves multiple packages.	Tank truck.
Fire/explosion potential	Under control.	May spread/may be explosive.	May spread/may be explosive.
Leak severity	No release or small release contained or confined with readily available resources.	Release may not be controllable without special resources.	Release may not be controllable even with special resources.
Life safety	No life-threatening situation from materials involved.	Localized area, limited evacuation area.	Localized area, limited evacuation area.
Environmental impact (Potential)	None.	Limited to incident boundaries	Contained within the Hazardous waste Management Units.
Container integrity	Not damaged.	Damaged but able to contain the contents to allow handling or transfer of product.	Damaged to such an extent that catastrophic rupture is possible.

* Contingency Plan is implemented

Table D-4
Physical Methods of Mitigation

Method	Chemical		Radiological	
	Liquid	Solid	Liquid	Solid
Absorption	Yes	No	Yes	No
Covering	Yes	Yes	Yes	Yes
Dikes, diversions	Yes	Yes	Yes	Yes
Overpack	Yes	Yes	Yes	Yes
Plug/patch	Yes	Yes	Yes	Yes
Transfer	Yes	Yes	Yes	Yes
Vapor suppression	Yes	Yes	No	No

Table D-5
Chemical Methods of Mitigation

Method	Chemical		Radiological	
	Liquid	Solid	Liquid	Solid
Neutralization	Yes	Yes(1)	No	No
Solidification	Yes	No	Yes(2)	No

(1) When solid neutralizing agents are used, they will be used simultaneously with water.

(2) This method could be utilized for mitigation of firewater involving TRU-waste.

Table D-6
Emergency Equipment Maintained at the Waste Isolation Pilot Plant

Equipment	Description and Capabilities	Location
	Communications	
Building Fire Alarms	Manual pull stations and automatic devices (sprinkler system flow, and smoke and thermal detectors) trigger fire alarm; locally visible and audible; visual display and alarm in Central Monitoring Room (CMR)	Guard and Security Building, Pumphouse, Warehouse/Shops, Exhaust Filter Building, Support Building, CMR/ Computer Room, Waste Handling Building, TRUPACT Maintenance Facility, SH Hoisthouse, Maintenance Shops, Guard Shack*, Auxiliary Warehouse, Core Storage Building, Engineering Building, Training Facility, Safety Building, Maintenance Shop, Hazardous Waste Storage (non-TRU) Area (Facility 474) *local alarms; not connected to the CMR
Underground Fire Alarms	Automatic/Manual; have priority over other paging channel signals but not override intercom channels; alarms sound in the general area of the control panel and are connected to the underground evacuation alarms; they also interface with the CMR.	Fire detection and control panel locations: Waste Shaft Underground Station, SH Shaft Underground Station, Between E-140 and E-300 in S-2180 Drift, E-O/N-1200, Fuel Station
Site-wide Evacuation Alarm	Transmitted over paging channel of the public address system, overriding its normal use; manually initiated according to procedures requiring evacuation; audible alarm produced by tone generator at 10 decibels above ambient noise level (or at least 75 decibels); flashing strobe lights; radios and/or pagers are used to notify facility personnel outside alarm range. Monthly test are performed on the PA, site notification alarms, and plectrons.	Site-wide
Vehicle Siren	Manual; oscillating; emergency services/surface response vehicles, is mechanical and electronic.	WIPP surface emergency vehicles
Public Address System	Includes intercom phones; handset stations and loudspeaker assemblies, each with own amplifiers; multichannel, one for public address and pages, and others for independent party lines.	Surface and underground
Intraplant Phones	Private automatic branch exchange; direct dial; provide communication link between surface and underground operations	Throughout surface and underground

Equipment	Description and Capabilities	Location
Mine Page Phones	Battery-operated paging system	CMR, Mine Rescue Room, EOC, lamproom, underground at S550/W30, S100/W30, S1950/E140, SH Shaft Collar and Underground Station, Waste Shaft Collar and Underground Station, FSM desk, EST Station
Emergency Pagers	Manual; , intermittent alarm signals	Issued to appropriate emergency personnel
Plectrons	Tone-alert radio receivers placed in areas not accessible by the public address system	Site-wide
Portable Radios	Two-way, portable; transmits and monitors information to/from other transmitters	Issued to individuals
Plant Base Radios	Two-way, stationary, VHF-FM; linked to Eddy County Sheriff Department, NM State Police, and Otis Fire Department), and WIPP Channels 1-18 (Communication with the Lea County Sheriff's Department, the Hobbs Fire Department, Carlsbad Medical Center and Lea Regional Hospital is available via the Eddy County dispatcher) (Site Security, Site Operations and Site Emergency, maintenance, repeater to Carlsbad). Wireless communications such as cellular phones may be used to contact the Eddy County emergency responders.	Various site locations
Mobile Phones	Provide communications link between WIPP Security and key personnel	Issued to individuals plus emergency vehicles,
Spill Response		
SPILL-X-S Guns and Recharge Powder	Containment; (1)SPILL-X model SC-30-C(Gun) (1)SPILL-X model XC-30-S(Gun) (1)SPILL-X model SC-30-A(Gun); (1) A-Acid, 5 gallon bucket (Recharge Powder) (1)S-Solvent, 5 gallon bucket (Recharge Powder) (1)C-Caustic, 5 gallon bucket (Recharge Powder)	HAZMAT trailer
Absorbent Sheets	Containment or cleanup; (1) 3' x 100' Sheet	HAZMAT trailer
Absorbents	Grab and Go container; spill control bucket; (1) for solvents and neutralizing absorbents; 5 gallon bucket (1) for acids/caustics; 5 gallon bucket	HAZMAT trailer
Absorbent Material	Containment or cleanup; (1) 100 ft. rolled or equivalent socks "Pig" for general liquid (1) 100 ft. rolled or equivalent socks "Pig" for oil	HAZMAT trailer

Equipment	Description and Capabilities	Location
Air Bag System	Extrication, Stabilization, Cribbing (1) bag system with tank kit and the following bag sizes: (1)12-ton, (1) 21.8-ton, (1)17-ton	Surface rescue truck
Air Chisel	Extrication (1) Capable of cutting 3/16" steel	Surface rescue truck
Drum Transfer Pumps and Drum Opener	Containment or cleanup; (1) unit for chemical transfer (1) hand operated pump for petroleum transfer (1) drum opener	HAZMAT trailer
Floor Squeegee	Containment or cleanup; (1) straight rubber blade, nonwood handle	HAZMAT trailer
Foam Concentrate	AFFF 6% (4) 5-gallon pail	Fire truck # 1
Gas Cylinder Leak Control Kit	(1)Series A Hazardous Material Response Kit; contains nonsparking equipment to control and plug leaks	HAZMAT trailer
Portable Generator	(1)Backup power; 5,000 watt; 120 or 240 volt	Surface rescue truck

Equipment	Description and Capabilities	Location
Hand Tools	Containment and cleanup; Underground rescue truck: (1)12# Sledge Hammer (1)3/8" Drive Socket Set (1)½" Drive Socket Set (1)3/4" Drive Socket Set (1)25' ½" Chain (1)6' Wrecking Bar (1)Bottle Jack (1)4# Hammer (1)18" Crescent Wrench (1)5' Pry Bar (1)2' Pry Bar (1)100' Extension Cord (1)4' Nylon Sling (1)6' Nylon Sling (1)10' Nylon Sling These tools are located in the HAZMAT Trailer. They are non-sparking. (1)14"L adjustable pipe wrench (1)15" multi-opening bung wrench (1)hammer/crate opener (1)8" pipe pliers (1)8" blade Phillips (1)#2 screwdriver (1)6" blade standard screwdriver (1)Claw Hammer	Underground rescue truck, HAZMAT trailer
Come-a-longs	(1) 4-ton; cable-type Ratchet lever tool designed specifically for lifting, lowering and pulling applications including jobs requiring rigging, positioning, and stretching. Used in rescue for extrication.	Surface rescue truck and underground rescue truck
Porta-power	(1) 10-ton hydraulic, hand-powered jaws used for extrication during rescues.	Surface rescue truck
Jugs	Containment or cleanup; (4) 1-gallon plastic	HAZMAT trailer
Pails	Containment or cleanup; (3) 5-gallon plastic with lid	HAZMAT trailer
Portable Lighting	(1) Emergency lighting system; 120 volts; 500-watt bulbs, suitable for wet location	Underground rescue truck
Patching Kit	Series A Hazardous Response Kit; Class A; contains nonsparking equipment to control and plug leaks.	HAZMAT trailer
Scoops and Shovels	Cleanup; plastic; various sizes; nonsparking; nonwood handles (1) Scoop (3) Shovels	HAZMAT trailer

Equipment	Description and Capabilities	Location
	Medical Resources	
Ambulance #1	Equipped as per Federal Specifications KKK-A-1822 and New Mexico Emergency Medical Services Act General Order 35; equipped with a radio to Carlsbad Medical Center, VHF radio, UHF medical frequency, cellular phone	Surface (Safety and Emergency Services Facility)
Ambulance #2	Diesel and/or electric ambulance equipped with first aid kit, 2 stretchers, and other associated medical supplies	Underground
Rescue Truck	Special purpose vehicle; light and heavy duty rescue equipment; transports 1 litter patient, medical oxygen and supplies for mass casualties, fire suppression support equipment (rescue tool, air bag, K-12 Rescue Saw, 5,000-watt generator, self-contained breathing apparatus (SCBA), and much more equipment	Surface (Safety and Emergency Services Facility)
	Fire Detection and Fire Suppression Equipment	
Building Smoke, Thermal Detectors, or Manual Pull Stations	Ionization and photoelectric or fixed temperature/rate of rise detectors; visual display and alarm in CMR; manual pull stations. The underground has manual fire alarm pull stations located where personnel have access when evacuating. These are connected to the U/G evacuation alarm.	Guard and Security Building, Warehouse/Shops, Support Building, CMR/Computer Room, Waste Handling Building, TRUPACT Maintenance Facility, Waste Shaft Collar, Underground Fuel Station, SH Hoisthouse, Engineering Building, Industrial Safety Building, Training Facility
Fire Truck # 1	Equipped per Class "A" fire truck per NFPA; capacity 750 gallons, with pump capacity of 1200 gallons per minute	Surface (Safety and Emergency Services Facility)
Rescue Truck # 2 (U/G)	(1) 125-pound dry chemical extinguisher (1) 150-pound foam extinguisher	Underground
Extinguishers	Individual fire extinguisher stations; various types located throughout the facility, conforming to NFPA-10.	Buildings, underground, and underground vehicles
Automatic Dry Chemical Extinguishing Systems	Automatic; 1,000-pound system (Dry Chemical); actuated by thermal detectors or by manual pull stations	Underground fuel station
Sprinkler Systems	Fire alarms activated by water flow	Pumphouse, Guard and Security Building, Support Building, Waste Handling Building (contact- transuranic waste area only), Warehouse/Shops Building, Auxiliary Warehouse Building, TRUPACT Maintenance Facility, Training Facility, SH Shaft Hoisthouse, Exhaust Filter Building, Engineering Building, and Safety Building

Equipment	Description and Capabilities	Location
Water Tanks, Hydrants	Fire suppression water supply; one 180,000-gallon capacity tank, plus a second tank with 100,000 gallon reserve	Tanks are at southwestern edge of WIPP facility; pipelines and hydrants are throughout the surface
Fire Water Pumps	Fire suppression water supply; pumps are rated at 125 pounds per square inch, 1,500 gallons per minute centrifugal pump, one with electric motor drive, the other with diesel engine; pressure maintenance pump	Pumphouse
Personal Protection Equipment		
Headlamps	Mounted on hard hat; battery operated	Each person underground
Underground Self-Rescuer Units	Short-term rebreathers; approximately 300	Each person underground
Self-Contained Self-Rescuer	At least 60 minutes of oxygen available. Approximately 400 units cached throughout the underground	Cached throughout the underground
Self-Contained Breathing Apparatus (SCBA)	Oxygen supply; 4-hour units; approximately 14 Mine Rescue Team Draeger units	Mine Rescue Training Room
Chemical and Chemical-Supported Gloves	Body protection; (12 pair) inner-cloth, (12 pair) outer-pvc, (5 pair) outer-viton	HAZMAT trailer
Suit, Acid	Body protection; (4) acid	HAZMAT trailer
Suit, Fully Encapsulated	Body protection; used with SCBAs; full outerboot; (4) Level A; (4) Level B	HAZMAT trailer
Emergency Medical Equipment		
Antishock Trousers	Shock treatment; (2) inflatable, one on each ambulance	Ambulance # 1 and # 2
Heart Monitor and Defibrillator	Heart Monitor/defibrillator	Ambulance # 1 and # 2
Oxygen	Patient care; Size D: (2) Ambulance #1 (1) Underground Ambulance (1) Health Services Size E: (1) Rescue Truck (2) Underground Ambulance Size M: (1) Ambulance #1	Ambulance # 1 and # 2, surface rescue truck

Equipment	Description and Capabilities	Location
Resuscitators (Bag)	Disposable bag resuscitation Ambulance #1: (2) adult size (1) child size Underground Ambulance: (2) adult size	Ambulance # 1, Ambulance # 2
Splints	Immobilize limbs; (1) Adult traction splint, lower extremity, with limb-supporting slings, padded ankle hitch and traction device per ambulance. (2) Rigid splinting devices or equivalents, suitable for immobilization of upper extremities per ambulance. (2) Rigid splinting devices or equivalents, suitable for the immobilization of lower extremities. (1) Set of Airsplints: 6 assorted splints; hand/wrist, half arm, full arm, foot/ankle, half leg, and full leg per miner's aid stations.	Ambulance # 1 and # 2, Miner's Aid Stations
Stretchers	Patient transport; (2) Spine Boards, one short and one long, with nylon straps per ambulance. (also used to perform cardiopulmonary resuscitation) (2) Emergency Stretchers or scoops, or combination per ambulance (1) All-purpose multi-level ambulance stretch (gurney), with 3 safety straps and locking mechanism per ambulance. (1) Stretcher in each miner's aid station.	Various combinations in Ambulance # 1 and # 2, Miner's Aid Station
Suctions	For medical emergencies: Portable (1) Suction unit, capable of delivering at least 300 mm. HG on each ambulance.	Ambulances #1 and #2
Trauma Kits	(1) adult blood pressure cuff and stethoscope (4) soft-roller bandages (3) triangular bandages (1) pkg. band-aids (2) trauma dressings (25) 4X4 sponges (1) roll adhesive tape (1) bite stick (1) penlight (1) sterile burn sheet (1) oropharyngeal airway (1) glucose substance (2) sterile gauze dressings	(1) kit in each: Ambulances #1 and #2, surface rescue truck

Equipment	Description and Capabilities	Location
First Aid Supplies	(2) #16g angiosets (2) #18g angiosets (2) #20g angiosets (1) 1000cc LR IV fluid (1) 500cc NS IV fluid	Ambulances #1 and #2, surface rescue truck
General Plant Emergency Equipment		
Emergency Lighting	For employee rescue and evacuation, and fire/spill containment; linked to main power supply, and selectively linked to back up diesel power supply and/or battery-backed power supply	Surface and underground
Backup Power Sources	Two diesel generators, and battery-powered uninterruptible power supply (UPS); use limited to essential loads; manual or remote starting 1,100-kilowatt diesel generators with on-site fuel for 62% load for 3 days for selected loads; 30-minute battery capacity for essential loads	Generators are east of Safety and Emergency Services Building; UPS is located at the essential loads
Hoists	Hoists in Waste Shaft, Air Intake Shaft, and SH Shaft	Waste Shaft, Air Intake Shaft, SH Shaft
Radiation Monitoring Equipment	(5) Portable alpha and beta survey meters, portable air samplers, and portable continuous air monitors	Building 412
Emergency Shower	For emergency flushing of chemical contact or injury	Surface
Eye Wash Fountains	For emergency flushing of affected eyes	Various locations on surface and in the underground
Decon Shower Equipment	Self-contained decon shower trailer, portable decon shower unit	Surface
Overpack containers	14-85 Gallon drums 4-SWBs 1-TDOP	Building 481 Building 481 Building 481
HEPA Vacuums	2 HEPA Vacuums to be utilized for removal of contamination.	Building 481
Aquaset or Cement	100 lbs. of aquaset or cement material for solidification of liquid waste generated as a result of fire fighting water or decontamination solutions.	Building 481
Paint or Fixative	1 - 5 gallon bucket of approved fixative to be used during recovery.	Building 481
TDOP Upender	Upender facilitates overpacking standard waste boxes	Building 481
Non hazardous Decontaminating Agents	4-1 Gallon bottles for decontamination of surfaces, equipment, and personnel	Building 481

Equipment	Description and Capabilities	Location
Miner's Aid Station	For First Aid Stations in the Underground (1) Stretcher--as referenced above per station (1) Set of airsplints--as referenced above per station (1) Blanket per station (1) Box of latex gloves (50) per station (5) Pathogen Wipes per station (1) First Aid Kit (24) per station; includes, (3) Band-Aid Combo Paks (2) Swabs, PVP (1) Antibiotic Ointment (1) Sting-Kill Swab (2) Dressing, compresses (2) Roller Bandages (2) Tape (2) Triangle Bandage (1) Eyedressing Pak (1) Burn Dressing (1) Ammonia Inhalants (1) User Log Sheet	Miner's Aid Stations - Various Underground Locations
First Aid Supplies	According to General Order #35 (12) bandages, soft roller, self-adhering type--4" or 6" x 5 yards. (6) triangular bandages, 40" (1) box band-aids (1) 1 pair bandage shears (6) Trauma dressings, 30" x 10" (6) Trauma dressings, 5" x 7" (50) 4" x 4" sponges, individually wrapped and sterile (2) rolls adhesive tape (1) penlight (2) sterile burn sheets (2) oropharyngeal airways -- adult (2) oropharyngeal airways -- child (Ambulance #1 only) (2) oropharyngeal airways -- infant (Ambulance #1 only) (1) Glucose substance (3) Occlusive dressings (1) Roll aluminum foil (6) Rigid cervical collars--2 each small, medium and large sizes (4) Cold packs (4) Heat packs (2) Bite sticks	Ambulance #1
First Aid Supplies	(2) Transfer sheets (2) Blankets	Ambulances #1 and #2

Table D-7
Types of Fire Suppression Systems by Location

Location	AS	AD	MPS	PFE
Waste Handling Building	*		*	*
Support Building	*		*	*
Exhaust Filter Building	*		*	*
Water Pumphouse	*		*	*
Underground Support Areas (also has rescue truck) (as illustrated in Figure D-5)		*	*	*
Station A Effluent Monitoring Shed			*	*
Station B Effluent Monitoring Shed			*	*

(1) Symbols for WIPP fire-protection systems:

AS = Automatic Wet Pipe Sprinkler System
AD = Automatic Dry Chemical Extinguishing System
MPS = Manual Pull Stations
PFE = Portable Fire Extinguishers

(2) The Waste Handling Building and the Support Building contain the following:

- Automatic wet pipe sprinklers
- Fire detection in the heating, ventilation, and air conditioning instrumentation (Support Building, only)
- Manual pull stations
- Portable fire extinguishers
- Automatic detectors

The Safety and Emergency Services Building contains the following:

- Automatic wet pipe sprinklers
- Manual pull stations
- Portable fire extinguishers
- Automatic detectors

The Core Storage Building contains the following:

- Automatic wet pipe sprinklers
- Portable fire extinguishers

(3) The Exhaust Filter Building, Underground Facilities, Warehouse/Shops Building, Water Pumphouse, and Salt Handling Hoist house also have portable fire extinguishers, manual pull stations, and automatic detectors.

Table D-8
Hazardous Release Reporting, Federal

Statute	Chemical Releases Covered	To Whom Report Will Be Made	What Will Be Reported	
			Immediately (Oral)	Subsequently (Written)
Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)/Superfund Amendments and Reauthorization Act (SARA) (40 CFR Part 302)	"Reportable quantities" of CERCLA/SARA "hazardous substances."	National Response Center: (800) 424-8802, State Emergency Response Commission: (505) 476-9681 (New Mexico State Police, Hazardous Materials Emergency Response), and Local Emergency Planning Committee: (575) 885-3581	1) Chemical identification; 2) what hazardous substance; 3) quantity released; 4) time, location and duration of release; 5) media of release; 6) health risks and medical advice; 7) proper precautions (e.g., evacuation); and 8) name and phone number of reporter and facility.	As soon as practicable, update of oral notice and response action taken. Send report to: New Mexico State Emergency Response Commission, Department of Public Safety, Title III Bureau, P.O. Box 1628, Santa Fe, New Mexico, 87504-1628, and Local Emergency Planning Committee, 324 S. Canyon Street, Suite B, Carlsbad, New Mexico 88220. National Response Center will contact the U.S. Environmental Protection Agency (EPA). EPA may request a written report.
Emergency Planning and Community Right-to-Know Act (SARA Title III) (40 CFR Parts 302 and 355)	SARA Title III "extremely hazardous substances."	National Response Center: (800) 424-8802, State Emergency Response Commission: (505) 476-9681 (New Mexico State Police, Hazardous Materials Emergency Response), and Local Emergency Planning Committee: (575) 885-3581.	1) Chemical identification; 2) what extremely hazardous substance; 3) quantity released; 4) time, location and duration of release; 5) media of release; 6) health risks and medical advice; 7) proper precautions (e.g. evacuation); and 8) name and phone number of reporter and facility.	As soon as practicable, update of oral notice and response action taken. Send report to: New Mexico State Emergency Response Commission, Department of Public Safety, Title III Bureau, P.O. Box 1628, Santa Fe, New Mexico, 87504-1628, and Local Emergency Planning Committee, 324 S. Canyon Street, Suite B, Carlsbad, New Mexico 88220. National Response Center will contact the U.S. Environmental Protection Agency (EPA) for an address if a written report is requested by EPA.
Resource Conservation and Recovery Act (RCRA), 40 CFR §§264.56(a) and 265.56(a)	Any imminent or actual emergency situation.	State or local agencies with designated response roles, if their help is needed: Carlsbad Police Department: 885-2111; Carlsbad Fire Department: 885-2111; Eddy County Sheriff: 887-7551.	What assistance is required.	Not Applicable (NA)

Statute	Chemical Releases Covered	To Whom Report Will Be Made	What Will Be Reported	
			Immediately (Oral)	Subsequently (Written)
RCRA, 40 CFR §§264.56(d), 264.56(i), 265.56(d), and 265.56(i)	RCRA "hazardous waste" release, fire, or explosion, which could threaten human health or environment outside the facility.	National Response Center: (800) 424-8802 and State Emergency Response Commission: (505) 476-9681 (New Mexico State Police, Hazardous Materials Emergency Response).	(1) Name and telephone number of reporter; (2) name and telephone number of facility; (3) time and type of incident; (4) name and quantity of materials involved; (5) extent of injuries, if any; and (6) possible health or environmental hazards outside the facility.	Prior to resumption of operations, notify that: (1) no waste that may be incompatible with released material is treated, stored, or disposed of until cleanup is complete, and (2) all emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use. Send to Secretary, New Mexico Environment Department, P.O. Box 26110, Santa Fe, New Mexico, 87502.
RCRA, 40 CFR §§264.56(i), 264.56(j), 265.56(i), and 265.56(j)	Any incident which triggers implementation of Contingency Plan.	New Mexico Environment Department, Emergency Response Office, 24-hour telephone: (505) 827-9329 (emergencies); for non-emergencies contact (866) 428-6535 (24 hour voice mail) or Monday to Friday, 8 am to 5 pm: (505) 476-6000.	NA	Within 15 days: 1) name, address and telephone number of owner/operator; 2) name, address and telephone number of facility; 3) date, time and type of incident (e.g. fire, explosion); 4) name and quantity of materials involved; 5) extent of injuries, if any; 6) possible hazards to human health or the environment; 7) estimated quantity of material that resulted from the incident. Prior to resumption of operations, notify that: 1) no waste that may be incompatible with released material is treated, stored, or disposed of until cleanup is complete, and 2) all emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use. Send to Secretary, New Mexico Environment Department, P.O. Box 26110, Santa Fe, New Mexico, 87502.

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Table D-9
Hazardous Release Reporting, State of New Mexico

Regulations	Chemical Releases Covered	To Whom Report Will Be Made	What Will Be Reported	
			Immediately (Oral)	Subsequently (Written)
20.4.1.500 and 600 NMAC	RCRA "hazardous waste" releases, fire, or explosion, which could threaten human health or environment outside the facility.	National Response Center: (800) 424-8802; State Emergency Response Commission and (505) 476-9620 (New Mexico State Police, Hazardous Materials Emergency Response)	1) Name and telephone number of reporter; 2) name and telephone number of facility; 3) time and type of incident; 4) name and quantity of material involved; 5) extent of injuries, if any; and 6) possible health or environmental hazards outside the facility.	Prior to resumption of operations, notify that: 1) no waste that may be incompatible with released material is treated, stored, or disposed of until cleanup is complete, and 2) all emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use. Send to Secretary, New Mexico Environment Department, P.O. Box 26110, Santa Fe, New Mexico, 87502.
20.4.1.500 and .600 NMAC	Any incident which triggers implementation of Contingency Plan.	New Mexico Environment Department, Emergency Response Office, 24-hour telephone: (505) 827-9329 (emergencies); for non-emergencies contact (866) 428-6535 (24 hour voice mail) or Monday to Friday, 8 am to 5 pm: (505) 476-6000.	1) Name and telephone number of reporter; 2) name and address of facility; 3) name and quantity of materials involved, to extent known; 4) extent of injuries, if any; and 5) possible hazards to human health or the environment, outside the facility.	Within 15 days: 1) name, address and telephone number of owner/operator; 2) name, address and telephone number of facility; 3) date, time and type of incident (e.g., fire, explosion); 4) name and quantity of materials involved; 5) extent of injuries, if any; 6) possible hazards to human health or the environment; and 7) estimated quantity of material that resulted from the incident. Prior to resumption of operations, notify that: 1) no waste that may be incompatible with released material is treated, stored or disposed of until cleanup is complete, and 2) all emergency equipment listed in the Contingency Plan is cleaned and fit for its intended use. Send to Secretary, New Mexico Environment Department, P.O. Box 26110, Santa Fe, New Mexico, 87502.

Regulations	Chemical Releases Covered	To Whom Report Will Be Made	What Will Be Reported	
			Immediately (Oral)	Subsequently (Written)
New Mexico Emergency Management Act, Section 74-4B-5	Any accident (spill) involving hazardous materials (including hazardous substances, radioactive substances, or a combination thereof) which may endanger human health or the environment.	New Mexico Environment Department: (505) 827-9329, State Emergency Response Commission: (505) 476-9681 (New Mexico State Police, Hazardous Materials Emergency Response), and Local Emergency Planning Committee: (575) 885-3581	1) Name, address and telephone number of owner or operator; 2) name, address and telephone number of facility; 3) date, time and type of incident; 4) name and quantity of material(s) involved; 5) extent of any injuries; 6) assessment of actual or potential threat to environment or human health; and 7) estimated quantity and disposition of recovered material.	Written submission within one week of time permittees become aware of discharge. Same as oral and description of noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence. Send reports to New Mexico Environment Department, Chief, Ground Water Quality Bureau, P.O. Box 26110, Santa Fe, New Mexico, 87502, New Mexico State Emergency Response Commission Department of Public Safety, Title III Bureau, P.O. Box 1628 Santa Fe, New Mexico, 87504-1628, and Local Emergency Planning Committee, 324 S. Canyon Street, Suite B, Carlsbad, New Mexico 88220.
New Mexico Water Quality Control Commission, Part 1, Section 203	Any discharge from any facility of oil or any other water contaminant in such quantities as may, with reasonable probability, injure or be detrimental to human health, animal or plant life, or property.	Chief, Ground Water Quality Bureau, New Mexico Environment Department, or his counterpart in any constituent agency delegated responsibility for enforcement of the rules as to any facility subject to such delegation (505) 827-2918.	Within 24 hours: 1) the name, address, and telephone number of the person or persons in charge of the facility; 2) the name, address, and telephone number of the owner/operator of the facility; 3) the date, time, location, and duration of the discharge; 4) the source and cause of the discharge; 5) a description of the discharge, including its chemical composition; and 6) the estimated volume of discharge, and immediate damage from the discharge.	Submit within seven days: verification of the prior oral notification, also provide any appropriate additions or corrections to the information contained in the prior oral notification. Within 15 days: submit a written report describing any corrective actions taken and/or to be taken relative to the discharge. Send reports to Chief, Ground Water Quality Bureau, New Mexico Environment Department, P.O. Box 26110, Santa Fe, New Mexico, 87502.

Regulations	Chemical Releases Covered	To Whom Report Will Be Made	What Will Be Reported	
			Immediately (Oral)	Subsequently (Written)
New Mexico Underground Storage Tank Regulations-2	Any known or suspected release from an Underground Storage Tank (UST) system, any spill or any other emergency situation.	New Mexico Environment Department Petroleum Storage Tank Bureau (505) 984-1741.	Within 24 hours: 1) the name, address, and telephone number of the agent in charge of the site at which the UST system is located, as well as the owner/operator of the system; 2) the name and address of the site and the location of the UST system on that site; 3) the date, time, location, and duration of the spill, release, or suspected release; 4) the source and cause of the spill, release, or suspected release; 5) a description of the spill, release, or suspected release, including its chemical composition; 6) the estimated volume of the spill, release, or suspected release; and 7) action taken to mitigate immediate damage from the spill, release, or suspected release.	Mail or deliver within seven days of the incident, a written notice describing the spill, release, or suspected release and any investigation or follow-up action taken or to be taken. Send reports to Petroleum Storage Tank Bureau, New Mexico Environment Department, 2044 Galisteo Street, Santa Fe, New Mexico, 87504.

FIGURES

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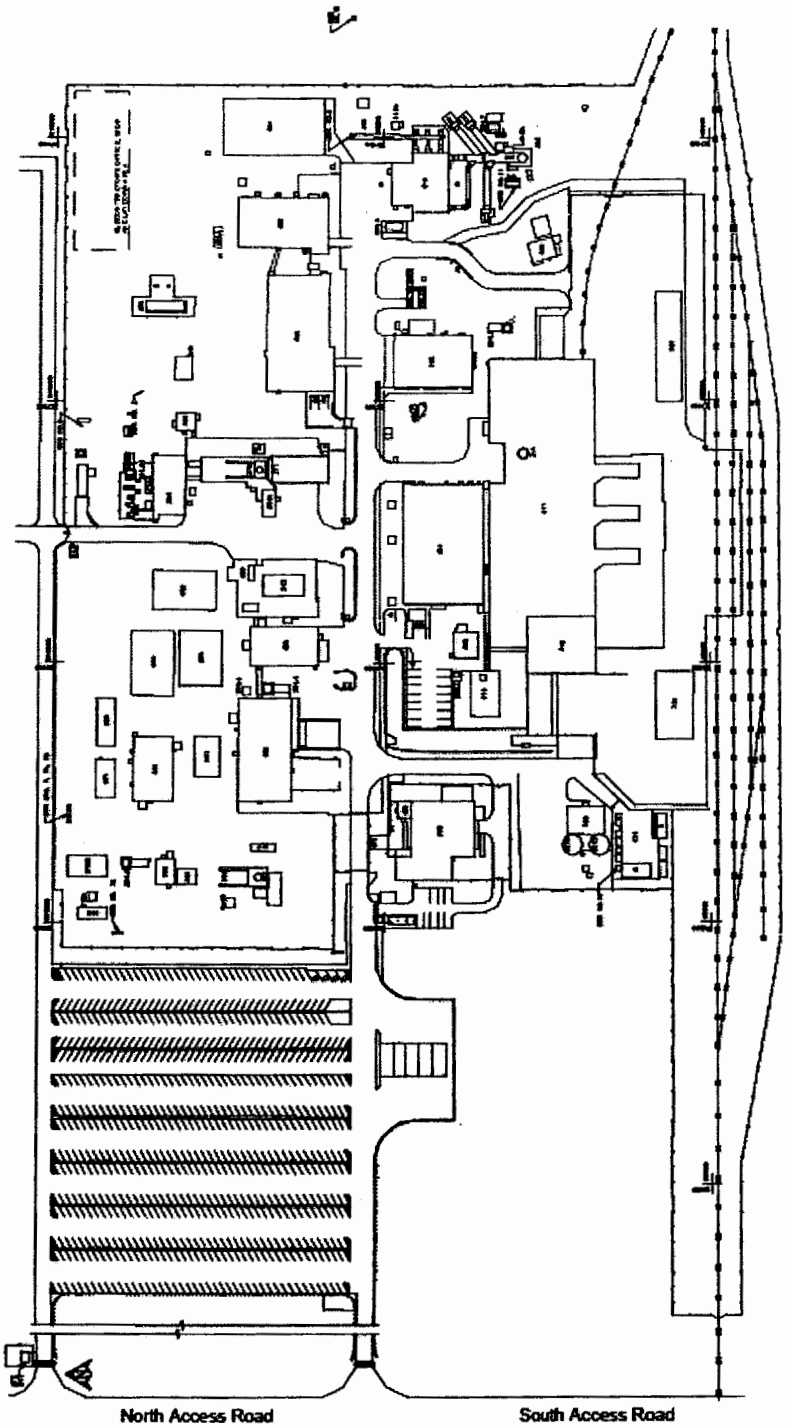

Figure D-1
WIPP Surface Structures

BLDG./ FAC.#	DESCRIPTION	BLDG./ FAC.#	DESCRIPTION	BLDG./ FAC.#	DESCRIPTION
#241	EQUIPMENT SHED	#384	SALT HANDLING SHAFT HOISTHOUSE	#475	GATEHOUSE
#242	GUARDSHACK	#384A	MINING OPERATIONS	#480	VEHICLE FUEL STATION
#243	SALT HAULING TRUCKS SHELTER	#411	WASTE HANDLING BUILDING	#481	WAREHOUSE ANNEX
#245	TRUPACT TRAILER SHELTER	#412	TRUPACT MAINTENANCE BUILDING	#482	EXHAUST SHAFT HOIST EQUIP WAREHOUSE
#246	MgO STORAGE SHELTER	#413	EXHAUST SHAFT FILTER BUILDING	#485	SULLAIR COMPRESSOR BUILDING
#253	13.8 KV SWITCHGEAR 25p-SWG15/1	#413A	MONITORING STATION A	#486	ENGINEERING BUILDING
#254.1	AREA SUBSTATION NO. 1 25P-SW15.1	#413B	MONITORING STATION B	#489	TRAINING BUILDING
#254.2	AREA SUBSTATION NO. 2 25P-SW15.2	#414	WATER CHILLER FACILITY & BLDG	#H-16	SANDIA TEST WELL
#254.3	AREA SUBSTATION NO. 3 25P-SW15.3	#451	SUPPORT BUILDING	#917	AIS MONITORING
#254.4	AREA SUBSTATION NO. 4 25P-SW15.4	#452	SAFETY & EMERGENCY SERVICES FACILITY	#918	VOC TRAILER
#254.5	AREA SUBSTATION NO. 5 25P-SW15.5	#453	WAREHOUSE/SHOPS BUILDING	#918A	VOC AIR MONITORING STATION
#254.6	AREA SUBSTATION NO. 6 25P-SW15.6	#455	AUXILIARY WAREHOUSE BUILDING	#918B	VOC LAB TRAILER
#254.7	AREA SUBSTATION NO. 7 25P-SW15.7	#456	WATER PUMPHOUSE	#950	WORK CONTROL TRAILER
#254.8	AREA SUBSTATION NO. 8 25P-SW15.8	#457N	WATER TANK 25-D-001B	#951	PROCUREMENT/PURCHASING
#254.9	480V SWITCHGEAR (25P-SWGO4/9)	#457S	WATER TANK 25-D-001A	#952	TRAILER
#255.1	BACK-UP DIESEL GENERATOR #1 25-PE 503	#458	GUARD AND SECURITY BUILDING	#953	MODULAR OFFICE COMPLEX
#255.2	BACK-UP DIESEL GENERATOR #2 25-PE 504	#459	CORE STORAGE BUILDING	#971	HUMAN RESOURCES TRAILER
#256.4	SWITCHBOARD #4 (25P-SBD04/4)	#463	COMPRESSOR BUILDING	#966	PUBLICATIONS & PROCEDURES TRAILER
#311	WASTE SHAFT	#465	AUXILIARY AIR INTAKE	SWR NO. 6	SWITCHRACK NO. 6
#351	EXHAUST SHAFT	#466	TELEPHONE HUT	SWR NO. 7 7A, 7B	SWITCHRACK NO. 7, 7A, 7B
#361	AIR INTAKE SHAFT	#473	ARMORY BUILDING	SWR NO. 7C	SWITCHRACK NO. 7C
#362	AIR INTAKE SHAFT/HOIST HOUSE	#474	HAZARDOUS WASTE STORAGE FACILITY	SWR NO. 10	SWITCHRACK NO. 10
#363	AIR INTAKE SHAFT/WINCH HOUSE	#474A	HAZARDOUS WASTE STORAGE BUILDING	SWR NO. 11	SWITCHRACK NO. 11
#364	EFFLUENT MONITORING INSTRUMENT SHED A	#474B	HAZARDOUS WASTE STORAGE BUILDING	SWR NO. 12	SWITCHRACK NO. 12
#365	EFFLUENT MONITORING INSTRUMENT SHED B	#474C	OIL & GREASE STORAGE BUILDING	SWR NO. 15	SWITCHRACK NO. 15
#366	AIR INTAKE SHAFT HEADFRAME	#474D	GAS BOTTLE STORAGE BUILDING		
#371	SALT HANDLING SHAFT	#474E	HAZARD MATERIAL STORAGE BUILDING		
#372	SALT HANDLING SHAFT HEADFRAME	#474F	WASTE OIL RETAINER		

Figure D-1a
Legend to Figure D-1

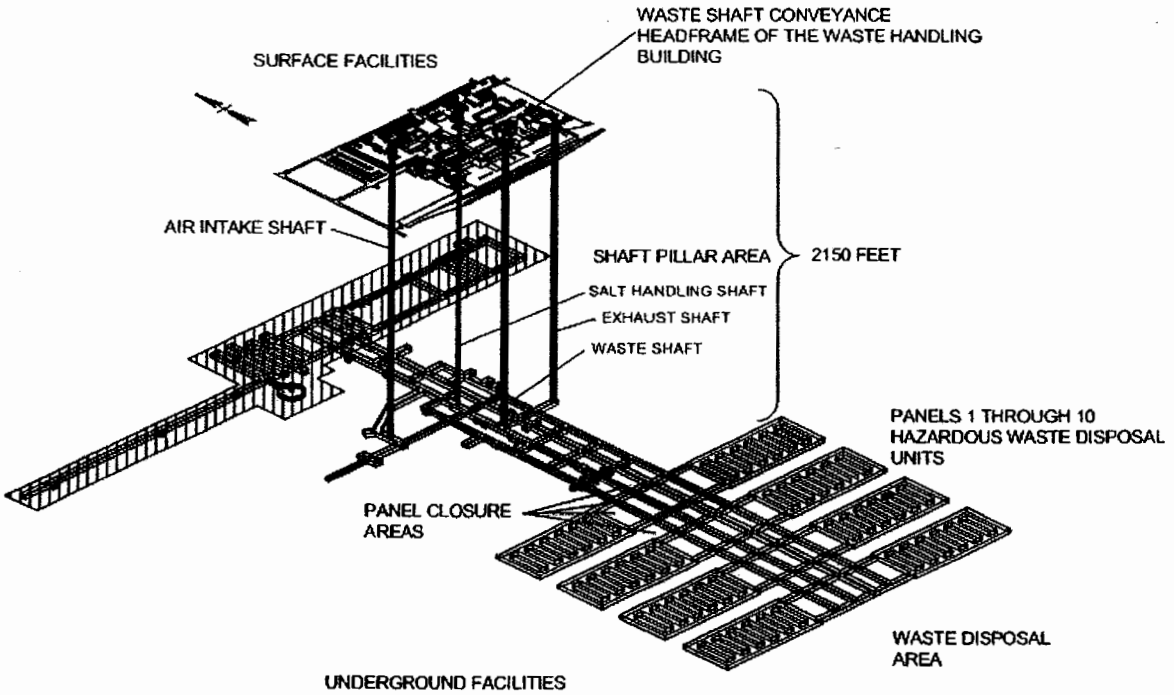

Figure D-2
Spatial View of the WIPP Facility

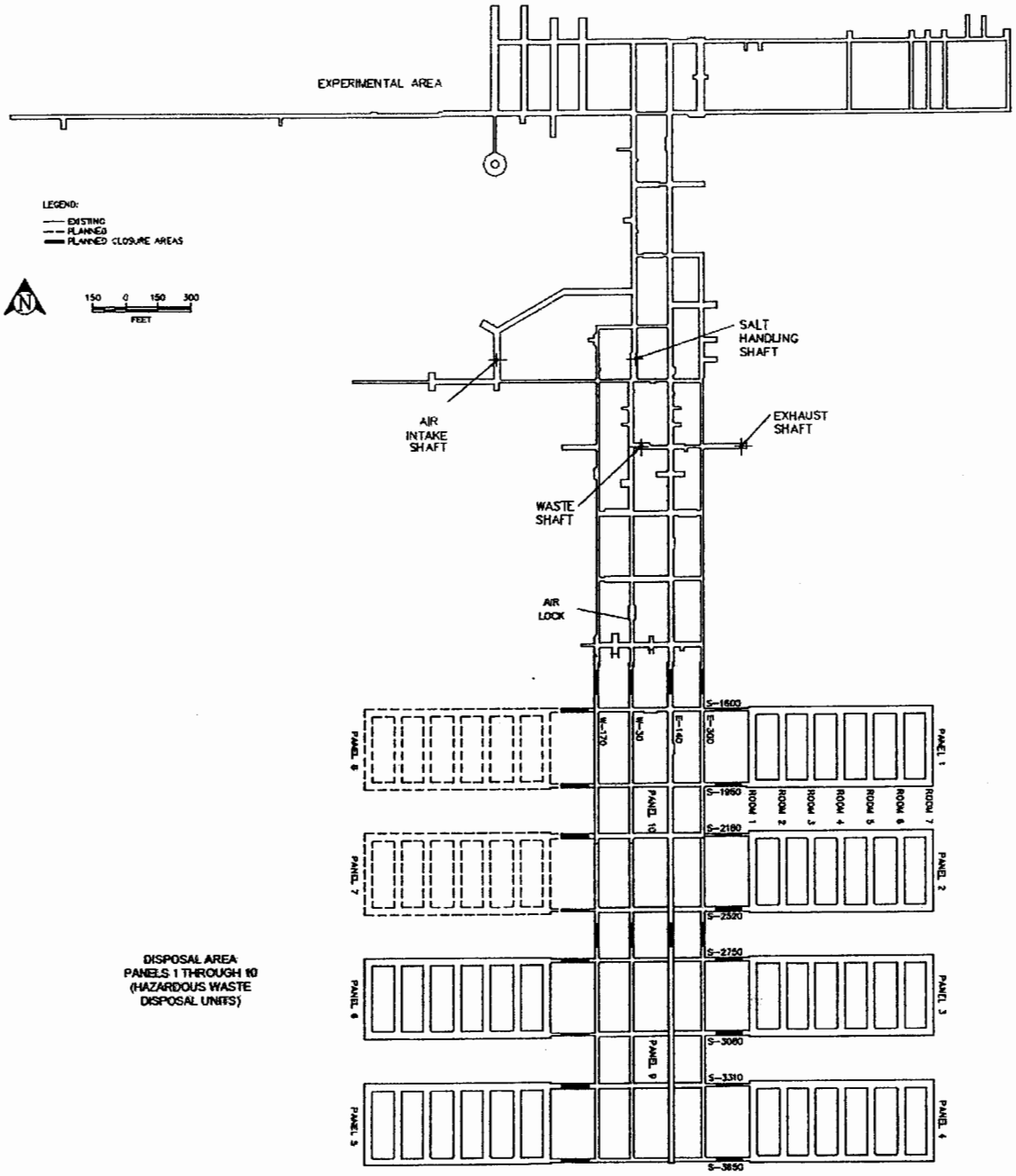

Figure D-3
WIPP Underground Facilities

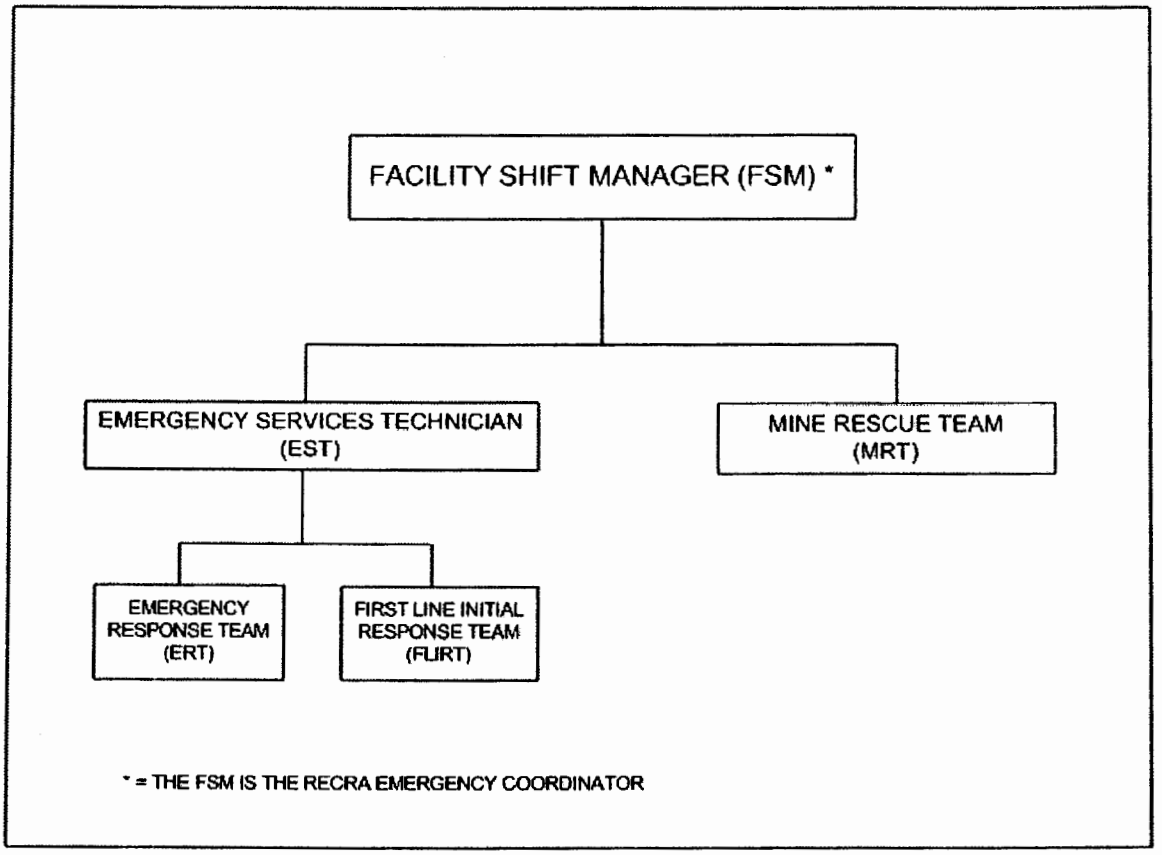

Figure D-4
Direction and Control Under Emergency Conditions in Which the Plan Has Been Implemented

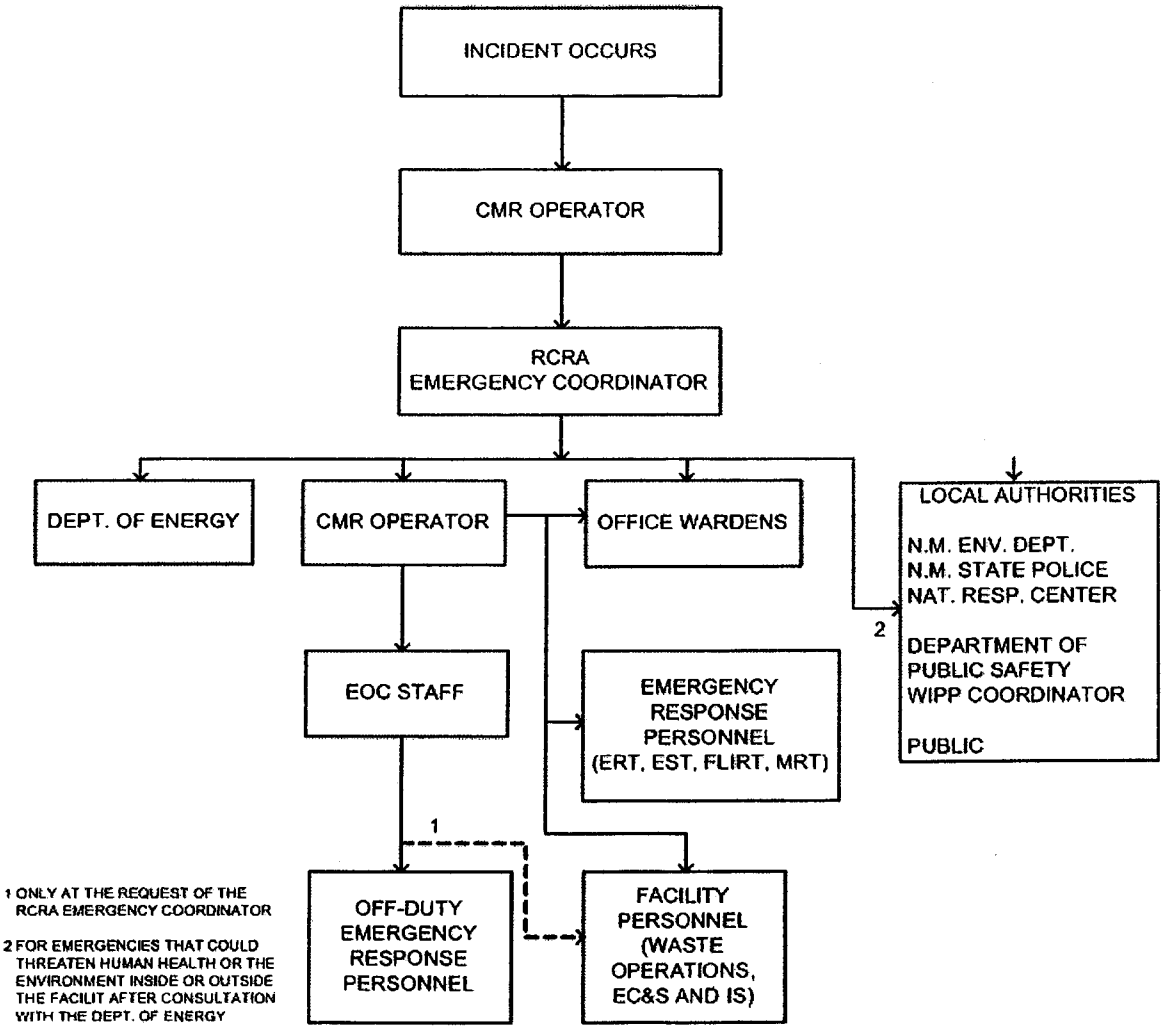

Figure D-4a
WIPP Facility Emergency Notifications

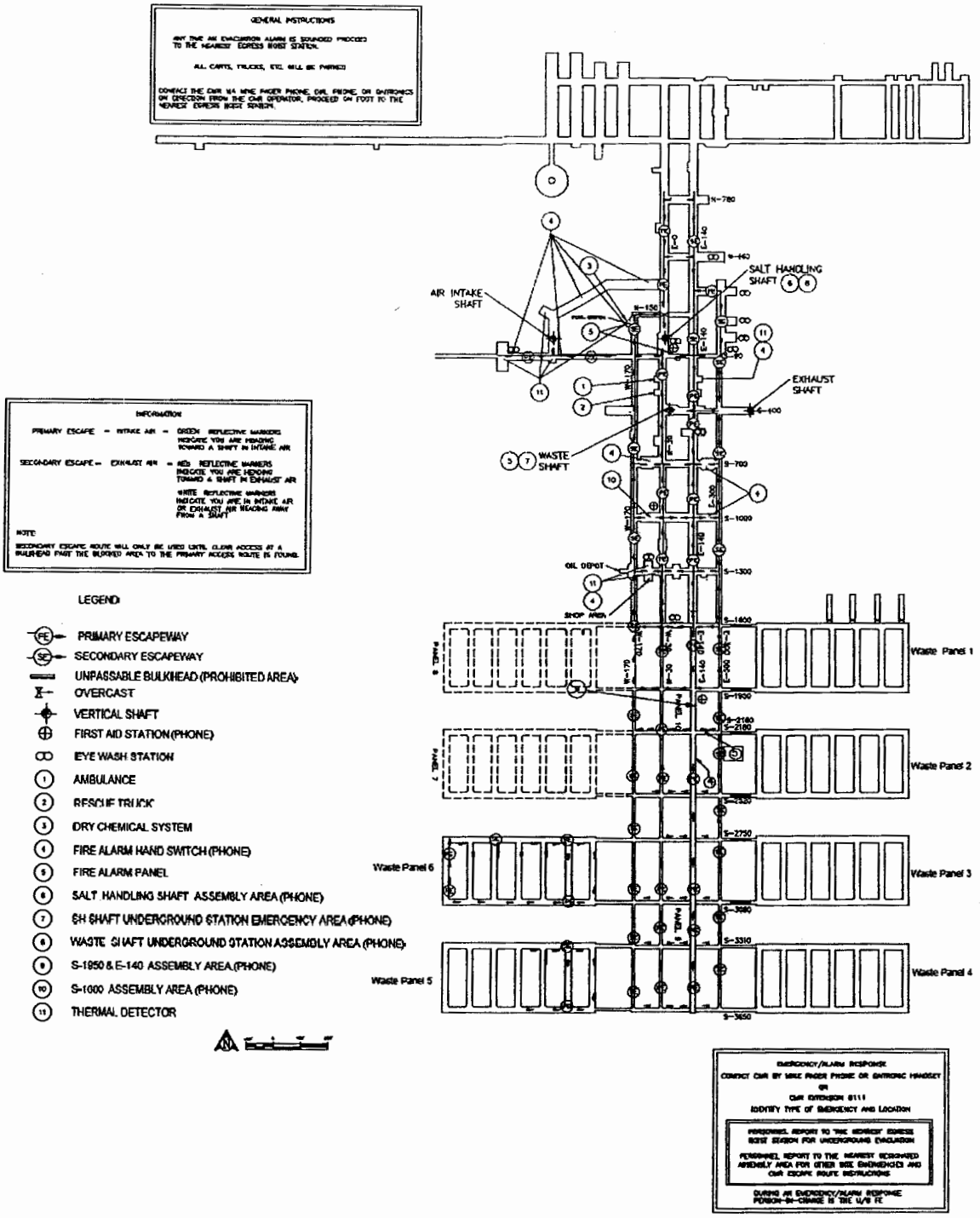

Figure D-5
Underground Emergency Equipment Locations and Underground Evacuation Routes

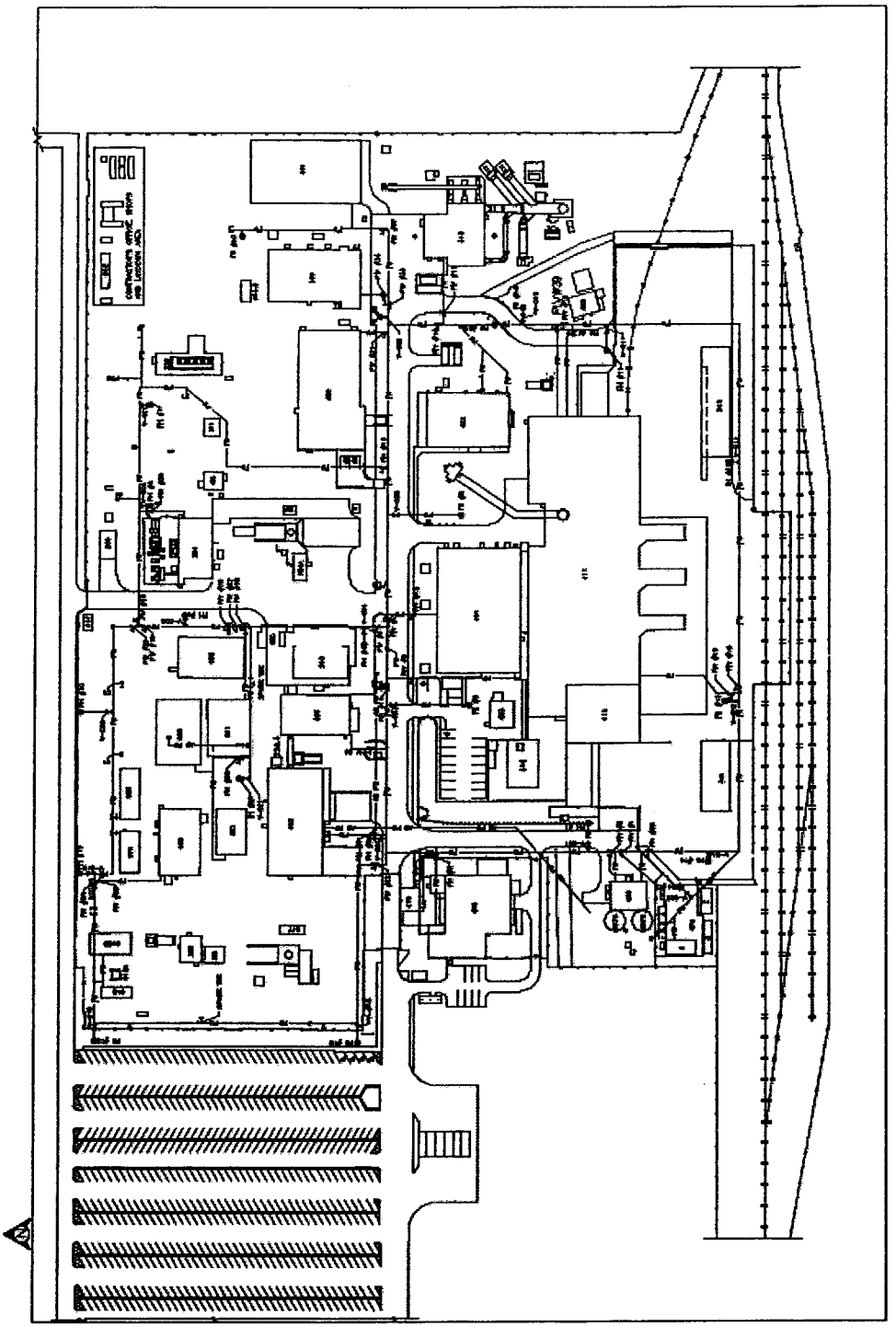

Figure D-6
Fire-Water Distribution System

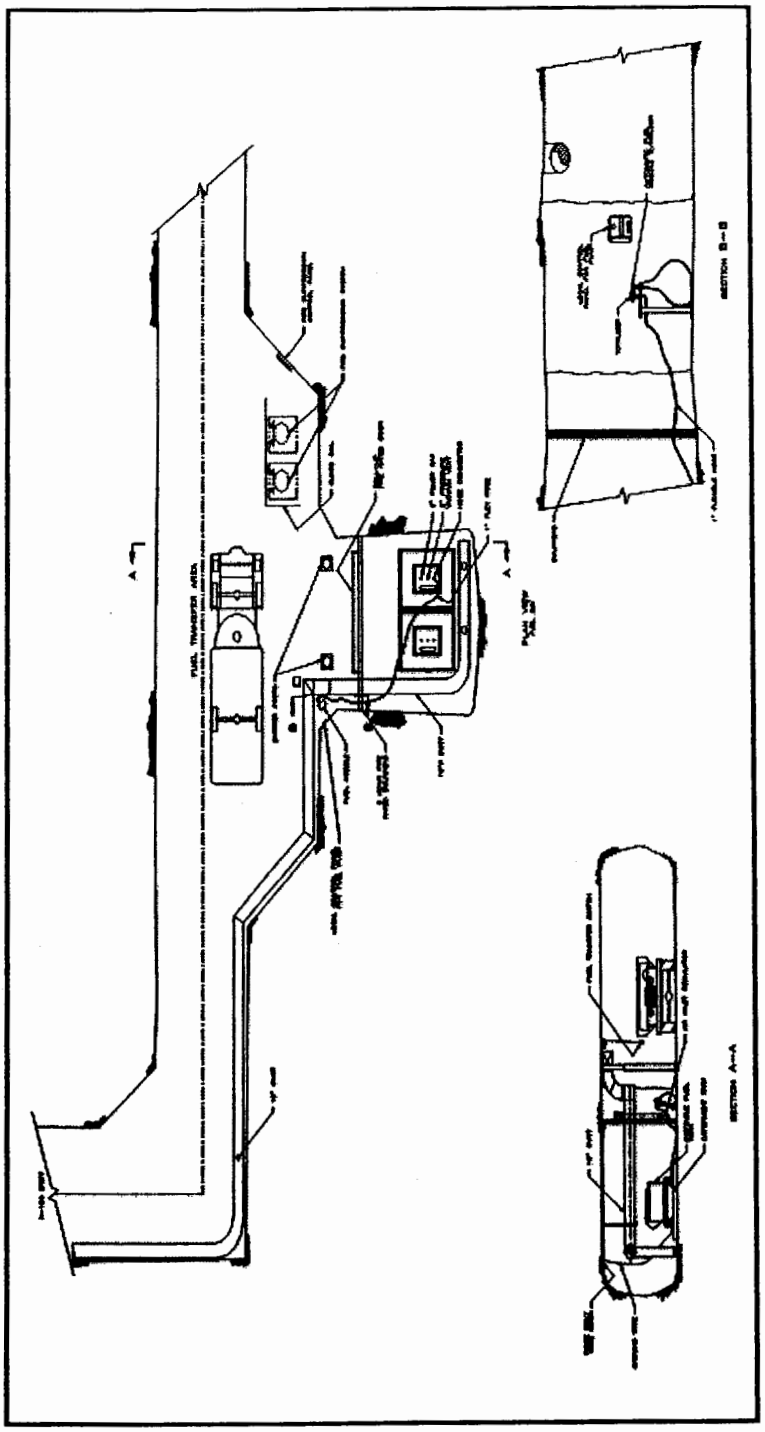

Figure D-7
Underground Diesel Fuel-Station Area Fire-Protection System

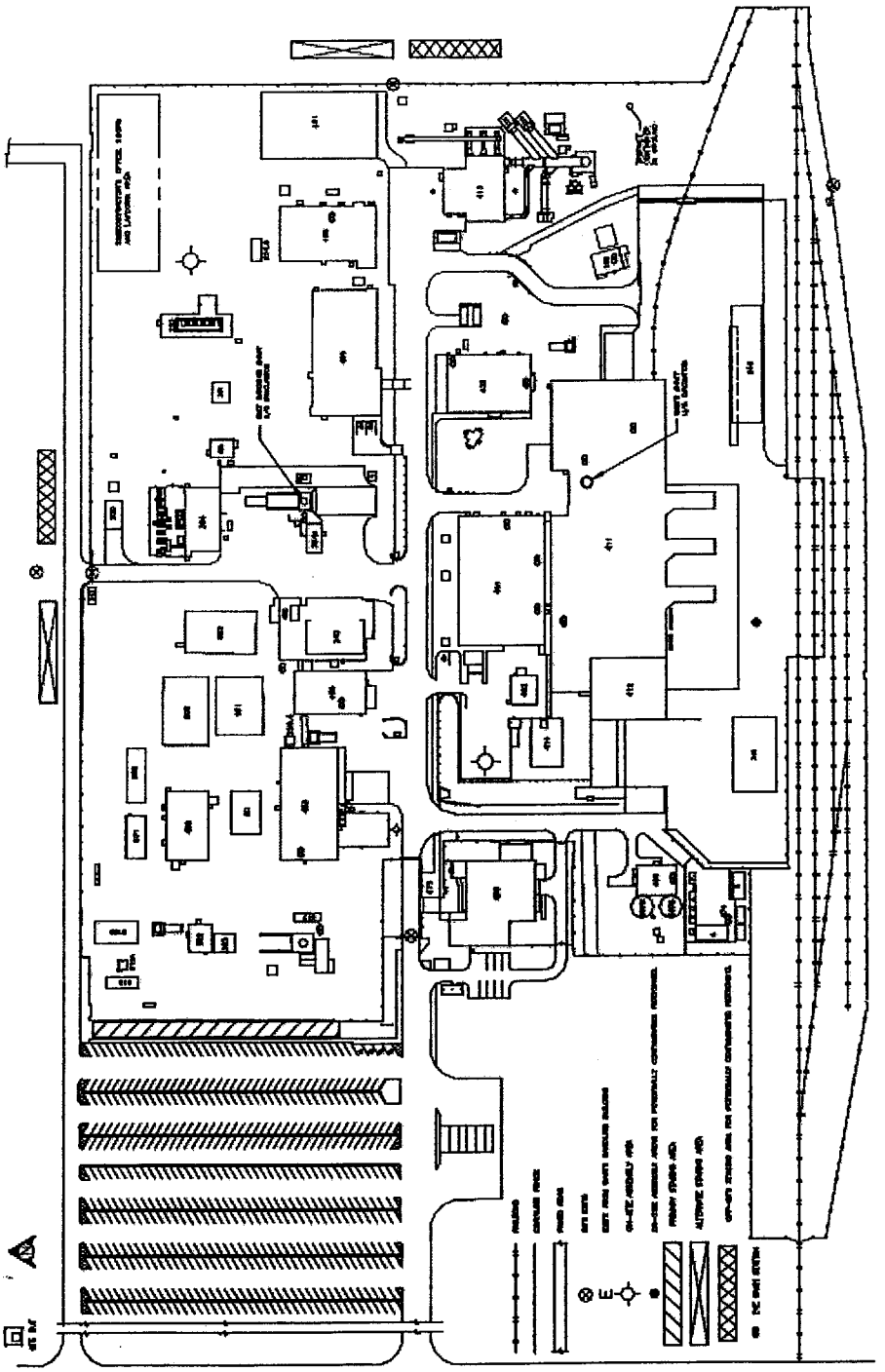

Figure D-8
WIPP On-Site Assembly Areas and WIPP Staging Areas

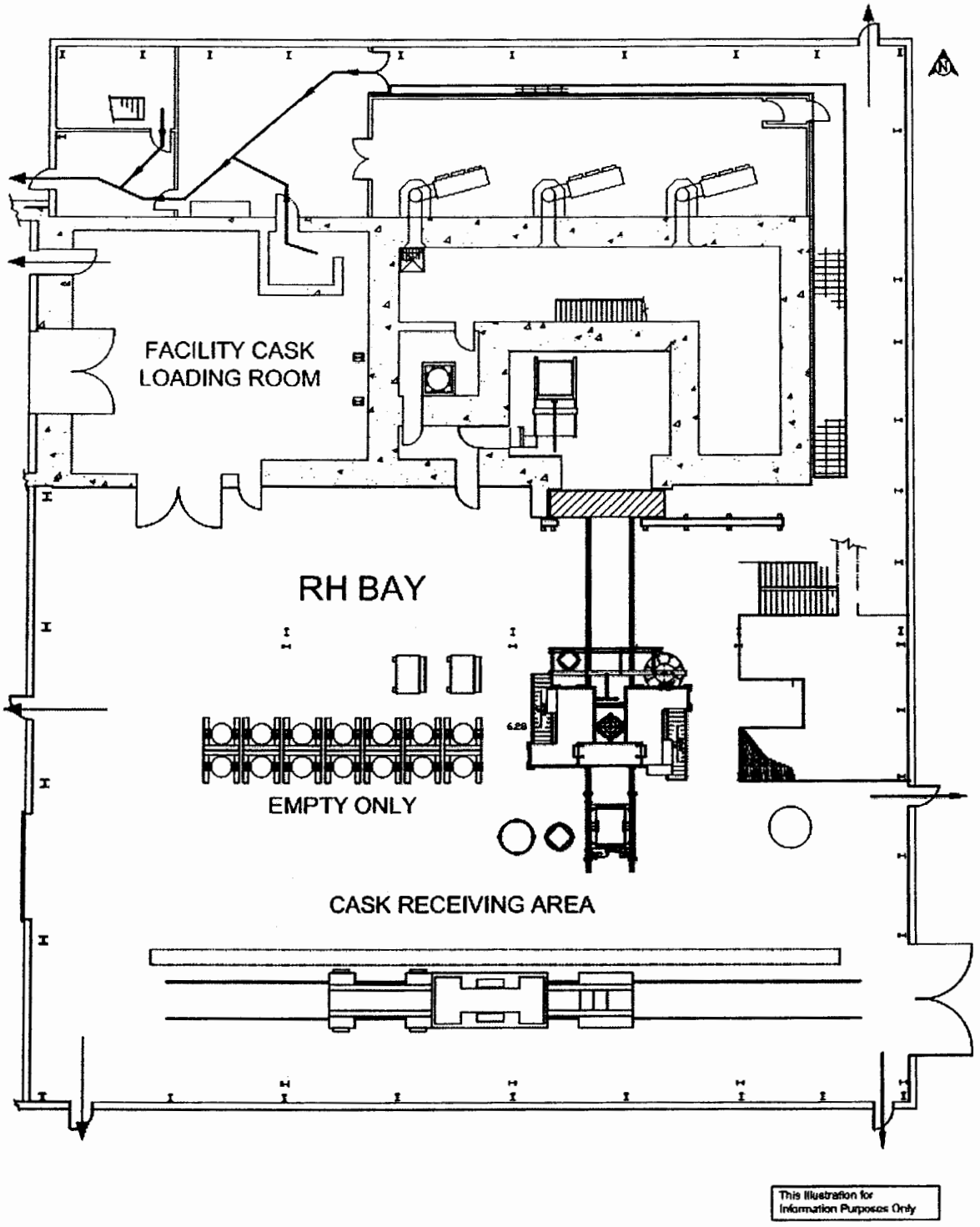

Figure D-8a
RH Bay Evacuation Routes

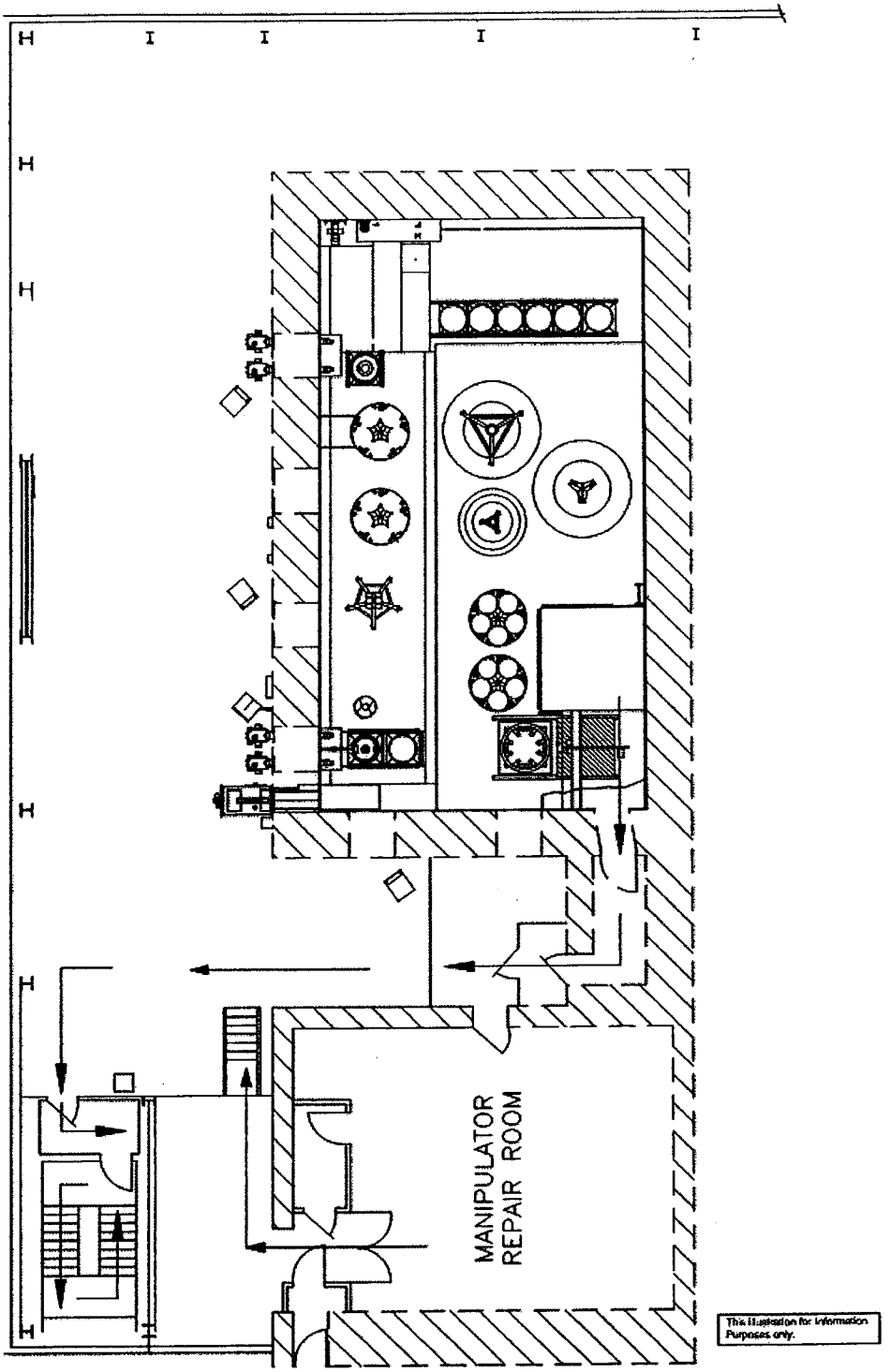

Figure D-8b
RH Bay Hot Cell Evacuation Route

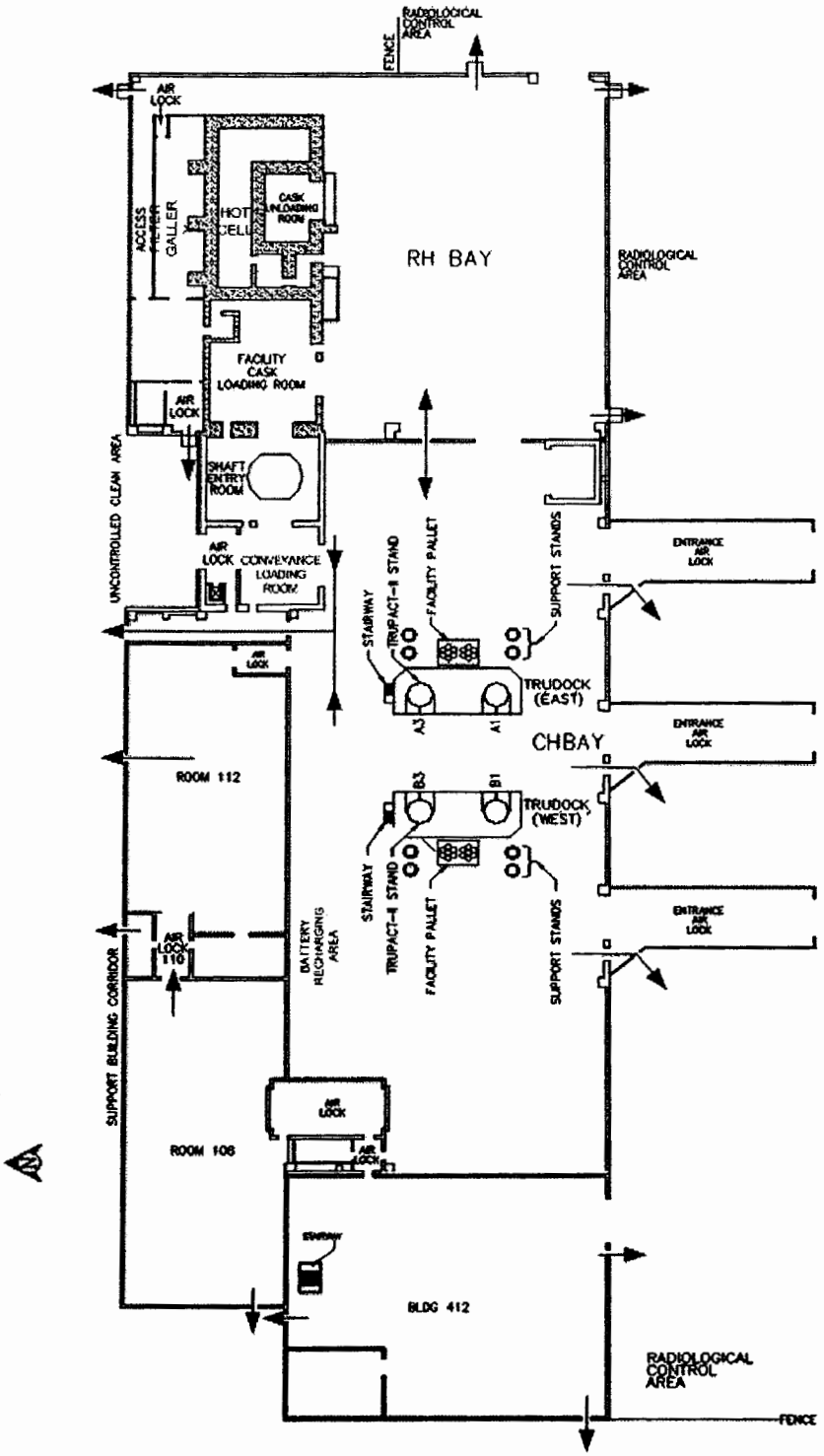

Figure D-8c
Evacuation Routes in the Waste Handling Building

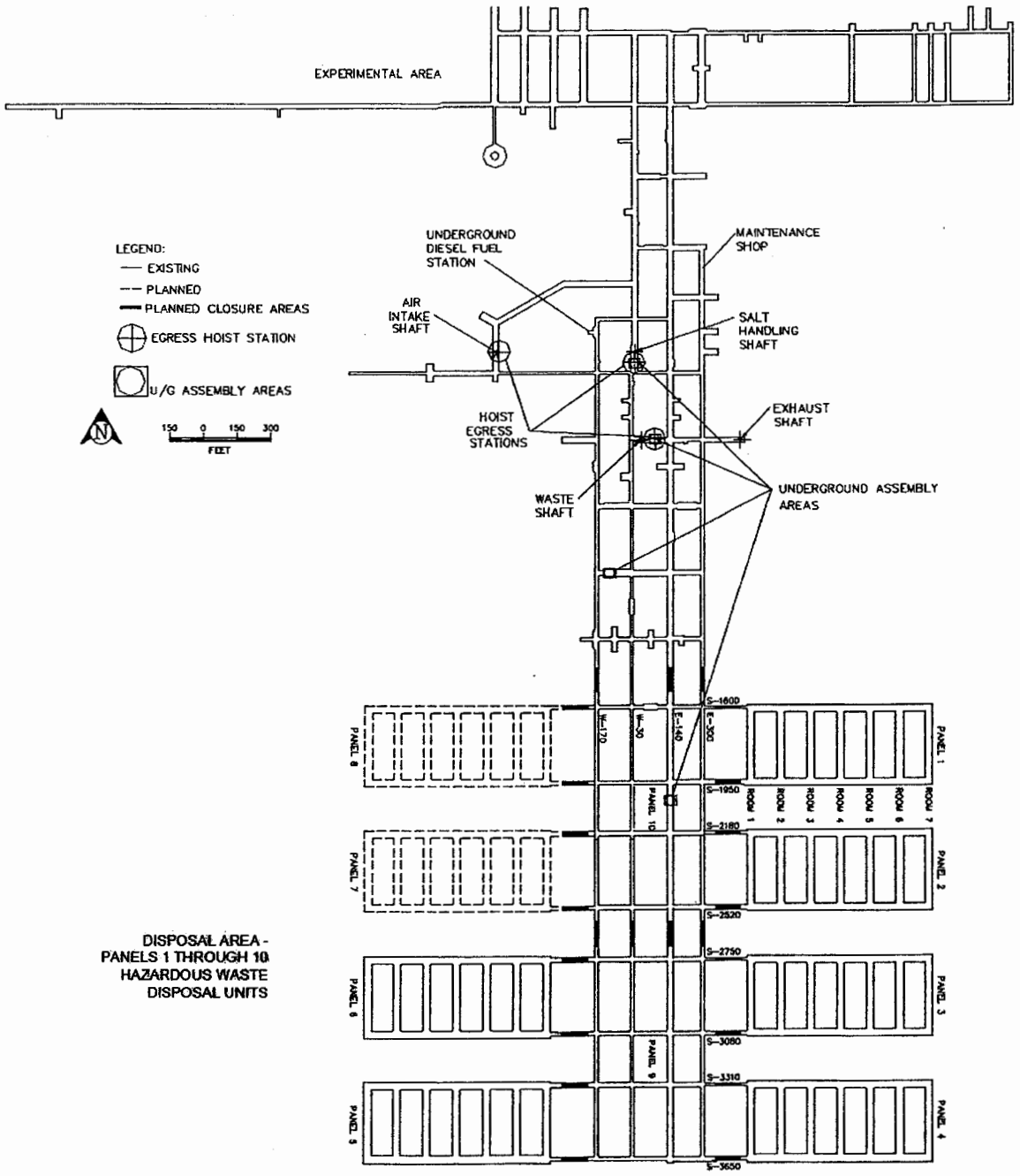

Figure D-9
Designated Underground Assembly Areas

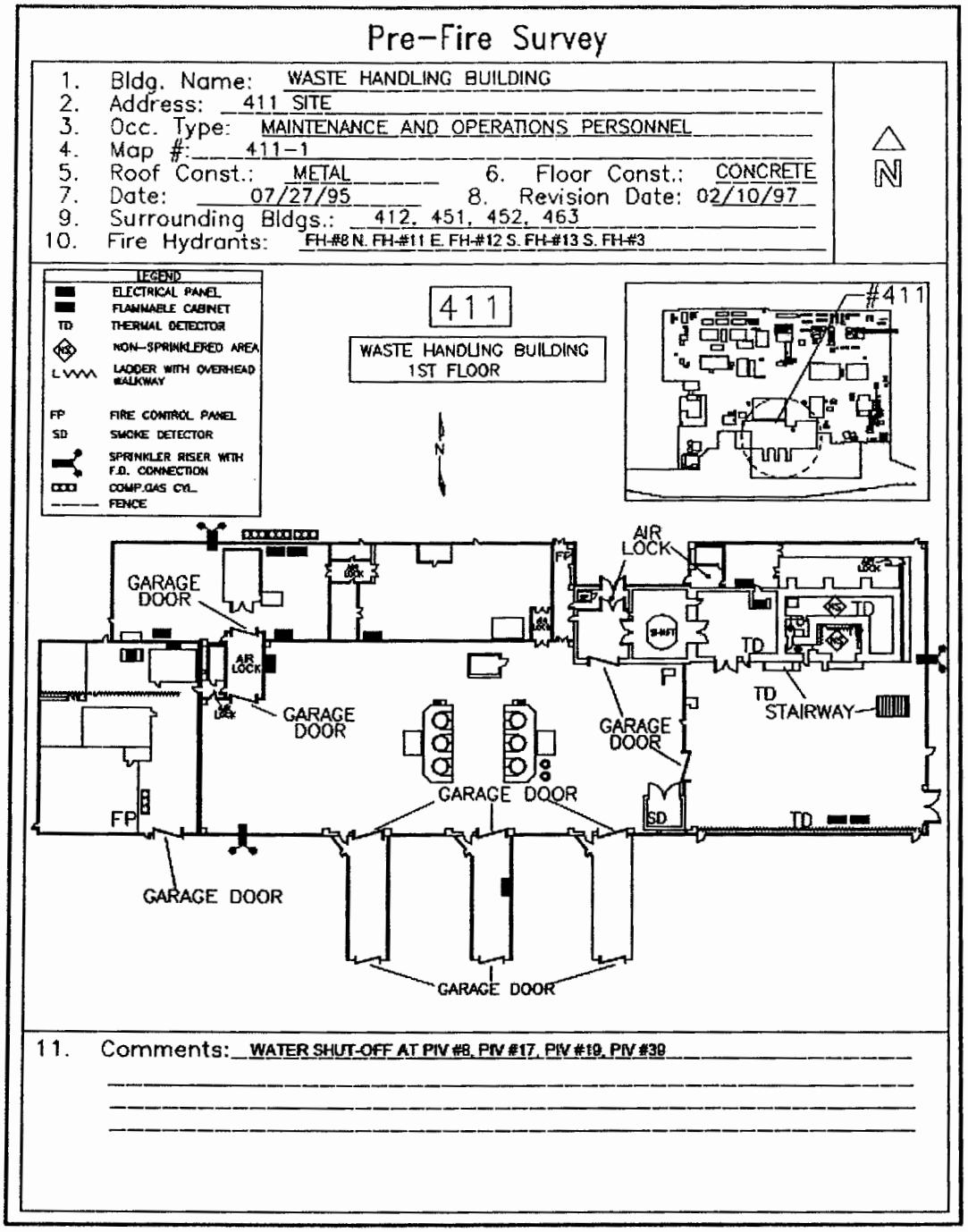

Figure D-10
Waste Handling Building Pre-Fire Survey (First Floor)

Pre-Fire Survey Cont.

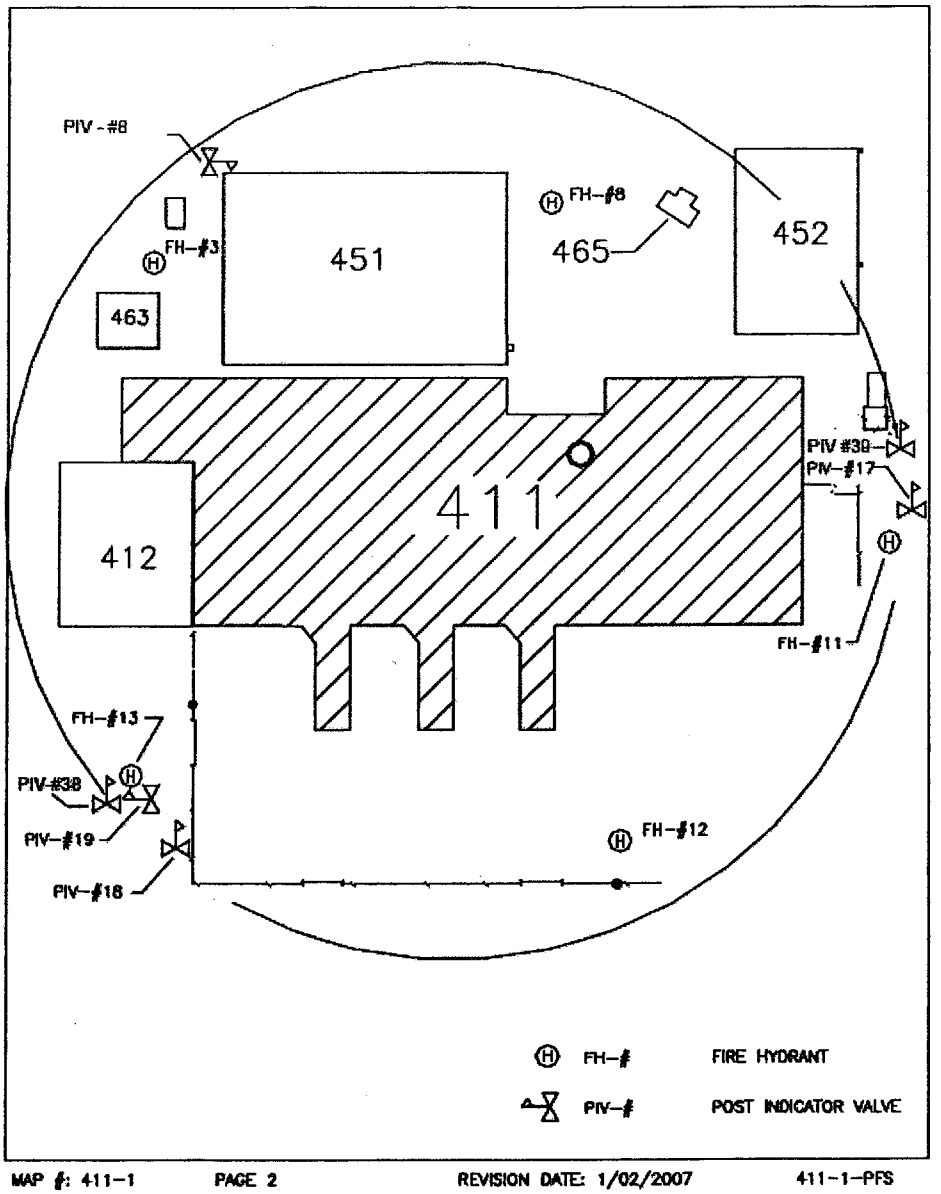

Figure D-10a
Waste Handling Building Pre-Fire Survey
(First Floor - Fire Hydrant/Post Indicator Location)

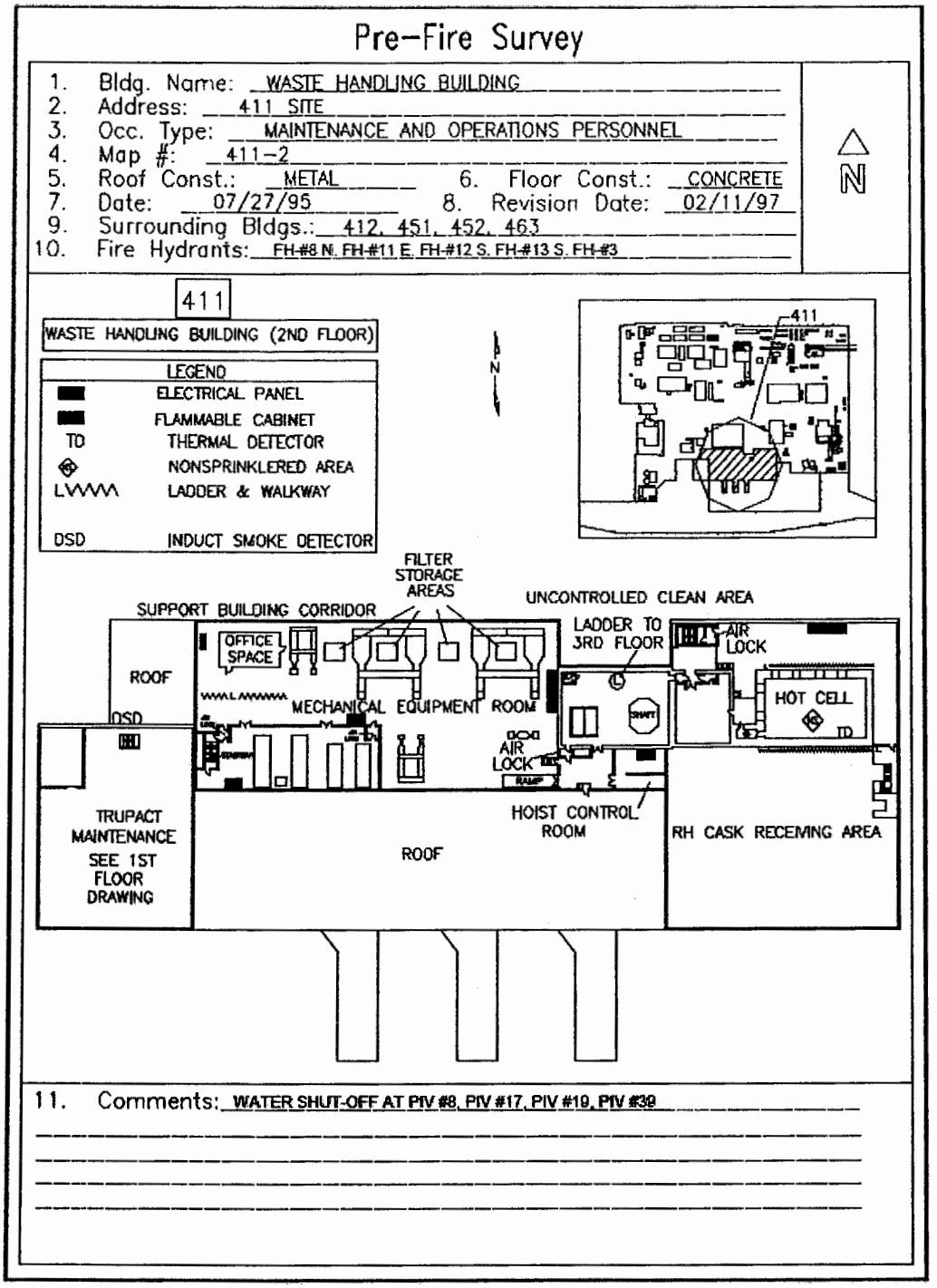

Figure D-11
Waste Handling Building Pre-Fire Survey (Second Floor)

Pre-Fire Survey Cont.

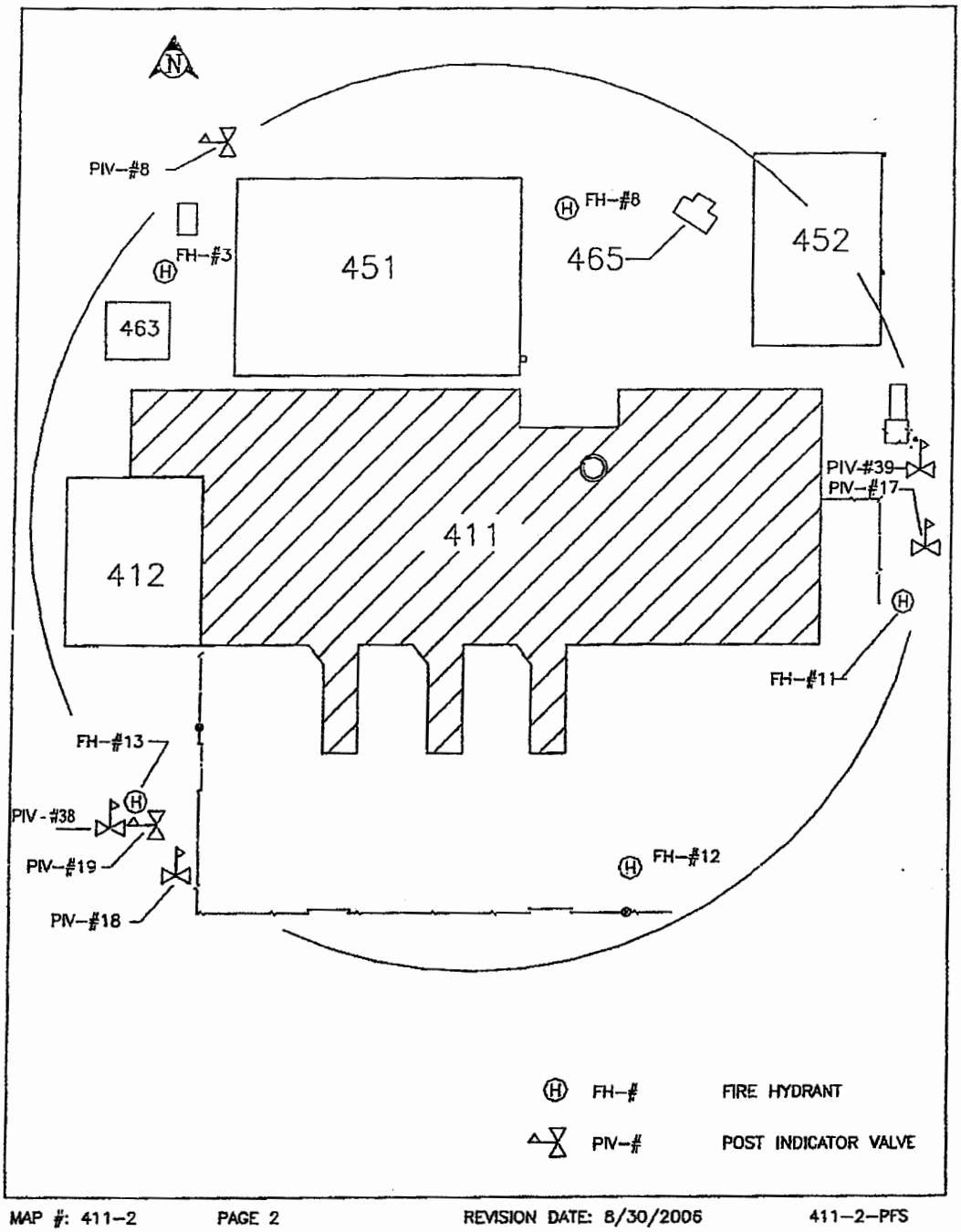

Figure D-11a
Waste Handling Building Pre-Fire Survey
(Second Floor - Fire Hydrant/Post Indicator Location)

WIPP HAZARDOUS MATERIAL INCIDENT REPORT

Date:_____ Location:_____

I. INITIAL INFORMATION DATE:_____ TIME:_____
EST:_____ REPORTED LOCATION:_____
REPORTED BY:_____ DEPT.:_____
INITIALLY REPORTED TO:_____ DEPT.:_____
RESPONSIBLE MANAGER:_____ DEPT.:_____

II. WEATHER CONDITIONS WIND DIRECTION_____ WIND SPEED:_____mph TEMP.:_____F
CONDITIONS (i.e.., icy, snowing, raining, cloudy, sunny):_____

III. TYPE OF INCIDENT (SPILL, LEAK, ETC.):_____ Fire involved: [ ]YES [ ]NO
(If fire is involved attach a copy of the fire report)

MATERIALS INVOLVED	UN/NA NO.	QUANTITY	HAZARD CLASS	NFPA CLASS

IV. PERSONNEL INVOLVED IN CLEAN-UP ACTIVITIES

PERSONNEL/DEPT	DECON METHOD/MEDICAL TREATMENT

V. PERSONNEL CONTAMINATED NOT INVOLVED IN THE CLEANUP ACTIVITIES

PERSONNEL/DEPT.	MATERIAL CONTACTED	DECON/MEDICAL TREATMENT

Figure D-12
WIPP Hazardous Materials Incident Report, Page 1 of 3

WIPP HAZARDOUS MATERIAL INCIDENT REPORT

Date:_____ Location:_____

VI. EQUIPMENT USED FOR CLEAN-UP AND CONTROL MEASURES

EQUIPMENT/MATERIAL/PPE	QUANTITY	DISPOSITION (decon or replacement)

VII. DESCRIPTION OF INCIDENT AND RESPONSE (including containment and control)

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

VIII. ENVIRONMENTAL COMPLIANCE
Date:_____ Time:_____of evaluation.
Waste Category_____

Disposition_____

ORGANIZATION	DATE	TIME

EC Representative:_____
Print name Signature Date

Figure D-12 (Continued)
WIPP Hazardous Materials Incident Report, Page 2 of 3

WIPP HAZARDOUS MATERIAL INCIDENT REPORT

Date:_____ Location:_____

IX. INITIAL NOTIFICATION BY CMRO

DEPARTMENT	PERSON CONTACTED	TIME	NOTIFIED BY
Facility Ops (FSM)			
Emerg. Mgmt (EST)			
EC			
Industrial Safety			
Facility Ops. (FM/FMD)			

CMRO:_____
Print name Signature Date
FSM:_____
Print name Signature Date

X. CONTINGENCY PLAN IMPLEMENTATION

Contingency Plan implemented [ ]YES [ ]NO

FSM:_____
Print name Signature Date

XI. REVIEWS

Report submitted by:_____
Print name Signature Date
Emergency Management Manger:_____
Print name Signature Date
EC Manager:_____
Print name Signature Date
COMMENTS:_____

Figure D-12 (Continued)
WIPP Hazardous Materials Incident Report, Page 3 of 3

1

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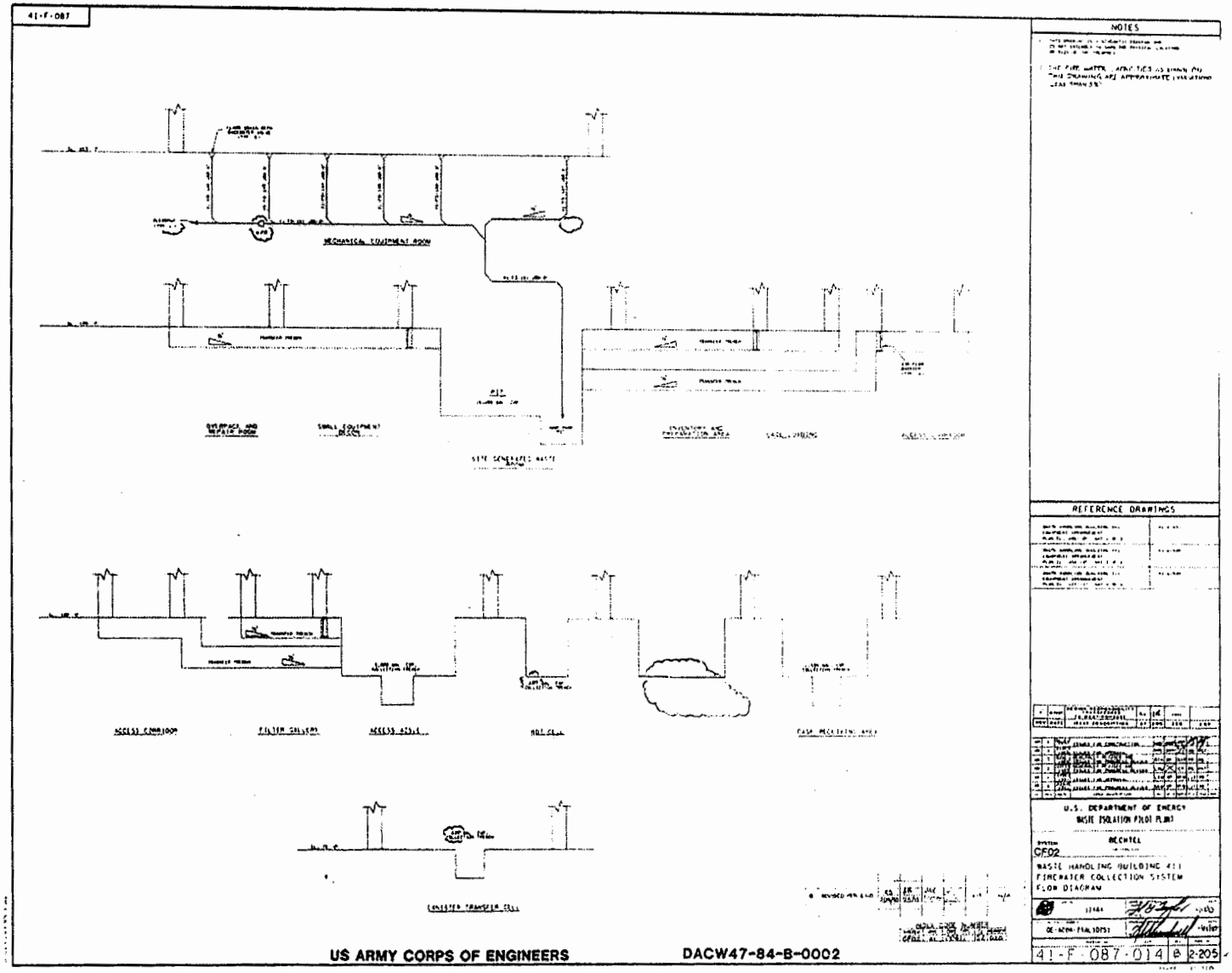
DRAWINGS

1 (This page intentionally blank)


41-F-087
NOTES
REFERENCE DRAWINGS
MECHANICAL EQUIPMENT ROOM
U.S. DEPARTMENT OF ENERGY
WASTE ISOLATION PILOT PLANT
BECHTEL
CF02
WASTE HANDLING BUILDING 411
FIREWATER COLLECTION SYSTEM
FLOW DIAGRAM
41-F-087-014 B 2-205
US ARMY CORPS OF ENGINEERS
DACW47-84-B-0002

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

9.a **Complete copy of the WWIS Data Change Log from April 1, 2013 to May 15, 2013. [11 pages]**

Waste Isolation Pilot Plant
Data Change Log Report

Report Statistics

Report Version:	**1.1**
WDS Instance:	**prd05.wipp.carlsbad.nm.us**
Generated on:	**September 17, 2013 08.47 AM**
Generated by:	**OFFNERS**
Total Pages:	**10**

Selection Criteria

Start Date:	**04/01/2013**
End Date:	**05/15/2013**
Certification Program ID:	**%**
Shipping Program ID:	**%**
Report Content:	**All**

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
05/15/2013 14:38:40	BREWERB	C4	LA00000065473	DOMINGL 04/11/2013 12:58:23	STATUS RESET	drum located in Nevada
05/15/2013 14:38:22	BREWERB	C4	LA00000065442	DOMINGL 04/11/2013 12:58:21	STATUS RESET	drum located in Nevada
05/15/2013 14:38:01	BREWERB	C4	LA00000065416	PETTUSH 07/05/2012 09:59:08	STATUS RESET	drum located in Nevada
05/15/2013 14:37:45	BREWERB	C4	LA00000065415	DOMINGL 04/11/2013 12:58:19	STATUS RESET	drum located in Nevada
05/15/2013 14:37:29	BREWERB	C4	LA00000064599	DOMINGL 04/11/2013 12:58:16	STATUS RESET	drum located in Nevada
05/15/2013 14:37:01	BREWERB	C4	LA00000064557	DOMINGL 04/11/2013 12:58:12	STATUS RESET	drum located in Nevada
05/15/2013 14:36:40	BREWERB	C4	LA00000064503	PETTUSH 04/11/2013 15:14:29	STATUS RESET	drum located in Nevada
05/15/2013 14:36:23	BREWERB	C4	LA00000064502	PETTUSH 04/11/2013 15:14:27	STATUS RESET	drum located in Nevada
05/15/2013 14:36:04	BREWERB	C4	LA00000064501	PETTUSH 04/11/2013 15:14:25	STATUS RESET	drum located in Nevada
05/15/2013 13:45:04	BREWERB	C4	LA00000093389	PETTUSH 05/15/2013 10:26:37	STATUS RESET	needs further evaluation
05/15/2013 13:41:07	BREWERB	C4	LA00000062769	DOMINGL 03/12/2013 16:05:02	STATUS RESET	drum located in Nevada

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
05/15/2013 13:31:16	MCCURDS	BN	BN10213579	AMWTP 11/19/2012 09:58:12	STATUS RESET	Change Shipping Category
05/09/2013 08:06:36	KIRKESC	C8	BN10489116	HENSLEL 04/18/2013 14:06:25	STATUS RESET	change neutron
05/02/2013 14:16:16	HENSLEL	C4	LA00000093012	PETTUSH 04/03/2013 08:51:10	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 14:15:32	HENSLEL	C4	LA00000091661	VALENB 03/04/2013 15:57:04	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 14:14:44	HENSLEL	C4	LA00000092190	DOMINGL 02/22/2013 10:58:46	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 14:12:08	HENSLEL	C4	LA00000092190	DOMINGL 02/22/2013 10:58:46	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 14:00:02	HENSLEL	C4	LA00000066991	DOMINGL 03/05/2013 08:22:59	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:57:16	HENSLEL	C4	LA00000067084	VALENB 03/22/2013 14:18:27	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:54:23	HENSLEL	C4	LA00000092144	DOMINGL 02/21/2013 14:28:11	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:51:41	HENSLEL	C4	LA00000067091	DOMINGL 03/05/2013 14:31:37	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:50:52	HENSLEL	C4	LA00000067094	VALENB 02/11/2013 13:32:01	STATUS RESET	CHANGE CONTAINER TYPE

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
05/02/2013 13:49:47	HENSLEL	C4	LA00000092488	DOMINGL 03/05/2013 16:07:14	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:46:08	HENSLEL	C4	LA00000066840	VALENB 04/05/2013 10:17:10	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:40:56	HENSLEL	C4	LA00000067089	VALENB 02/11/2013 12:58:45	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:34:57	HENSLEL	C4	LA00000092866	VALENB 03/25/2013 14:14:48	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:28:53	HENSLEL	C4	LA00000092926	VALENB 03/18/2013 10:49:16	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:23:25	HENSLEL	C4	LA00000092713	DOMINGL 03/12/2013 14:33:33	STATUS RESET	CHANGE CONTAINER TYPE
05/02/2013 13:10:58	HENSLEL	C4	LA00000092963	DOMINGL 03/21/2013 13:38:51	STATUS RESET	CHANGE CONTAINER TYPE
04/30/2013 16:35:51	RAMIREM	C4	LA00000093103	DOMINGL 04/30/2013 09:34:59	STATUS RESET	host site inquiry
04/29/2013 11:54:44	KIRKESC	C9	ANLE24B	DOMINGL 01/25/2013 14:43:46	STATUS RESET	Change TRUCON Code
04/29/2013 07:57:20	HENSLEL	C8	BN10489107	VALENB 04/17/2013 09:31:04	STATUS RESET	change cert date
04/29/2013 07:55:18	HENSLEL	C8	BN10489101	VALENB 04/17/2013 09:06:20	STATUS RESET	change cert date

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
04/25/2013 16:41:18	HERNANC	C9	ID0332	KIRKESC 02/26/2013 10:51:41	STATUS RESET	reset wac rev
04/25/2013 16:40:46	HERNANC	C9	ID0331	KIRKESC 02/26/2013 10:49:18	STATUS RESET	change wac rev
04/25/2013 15:52:32	BREWERB	C4	LA00000093273	PETTUSH 04/17/2013 15:38:12	STATUS RESET	Change Shipping Category
04/25/2013 15:52:00	BREWERB	C4	LA00000093125	DOMINGL 04/18/2013 10:04:25	STATUS RESET	Change Shipping Category
04/25/2013 15:51:14	BREWERB	C4	LA00000092591	PETTUSH 04/17/2013 14:22:14	STATUS RESET	Change Shipping Category
04/25/2013 15:50:43	BREWERB	C4	LA00000092272	DOMINGL 04/23/2013 10:45:37	STATUS RESET	Change Shipping Category
04/25/2013 15:50:18	BREWERB	C4	LA00000092268	DOMINGL 04/23/2013 10:45:35	STATUS RESET	Change Shipping Category
04/25/2013 15:49:34	BREWERB	C4	LA00000092263	DOMINGL 04/23/2013 10:45:32	STATUS RESET	Change Shipping Category
04/25/2013 15:48:55	BREWERB	C4	LA00000091885	DOMINGL 04/23/2013 10:45:30	STATUS RESET	Change Shipping Category
04/25/2013 15:47:32	BREWERB	C4	LA00000091797	DOMINGL 04/23/2013 10:45:28	STATUS RESET	Change Shipping Category
04/25/2013 15:47:01	BREWERB	C4	LA00000063830	VALENB 04/22/2013 15:06:51	STATUS RESET	Change Shipping Category

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
04/25/2013 14:25:10	BREWERB	C4	LA00000093148	PETTUSH 04/24/2013 14:26:07	STATUS RESET	Change Shipping Category
04/25/2013 14:24:41	BREWERB	C4	LA00000092982	PETTUSH 04/25/2013 09:45:35	STATUS RESET	Change Shipping Category
04/25/2013 14:18:25	BREWERB	C4	LA00000092414	PETTUSH 04/25/2013 09:45:33	STATUS RESET	Change Shipping Category
04/25/2013 14:17:02	BREWERB	C4	LA00000091934	PETTUSH 04/25/2013 09:45:30	STATUS RESET	Change Shipping Category
04/25/2013 14:00:14	BREWERB	C4	LA00000091825	PETTUSH 04/24/2013 14:25:57	STATUS RESET	change container type
04/25/2013 08:12:26	RAMIREM	C4	LA00000064701	DOMINGL 03/26/2013 15:10:25	STATUS RESET	Failed Container Integrity
04/23/2013 12:17:55	RAMIREM	C1	SR57171712	DOMINGL 11/29/2012 13:16:20	STATUS RESET	add PCB comment
04/22/2013 12:03:00	KIRKESC	C1	SR57171712	DOMINGL 11/29/2012 13:16:20	STATUS RESET	PCB WASTE
04/16/2013 14:32:34	HENSLEL	C1	SR500174	PETTUSH 01/24/2013 12:20:26	STATUS RESET	change location id
04/16/2013 10:44:15	OFFNERS	C1	SR500174	PETTUSH 01/24/2013 12:20:26	INSERTED	Restored container at L. Hensley's request.
04/12/2013 12:35:05	HENSLEL	C8	SRP12007	DOMINGL 04/09/2013 10:43:07	STATUS RESET	Change TRUCON Code

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
04/12/2013 12:34:38	HENSLEL	C8	SRP12006	DOMINGL 04/09/2013 10:43:05	STATUS RESET	Change TRUCON Code
04/12/2013 12:34:10	HENSLEL	C8	SRP12004	DOMINGL 04/09/2013 10:43:03	STATUS RESET	Change TRUCON Code
04/12/2013 12:33:38	HENSLEL	C8	SRP12002	DOMINGL 04/09/2013 10:43:01	STATUS RESET	Change TRUCON Code
04/12/2013 12:32:56	HENSLEL	C8	SRP12000	DOMINGL 04/09/2013 10:42:57	STATUS RESET	Change TRUCON Code
04/12/2013 08:50:41	RAMIREM	C4	LA00000092484	DOMINGL 02/22/2013 09:37:02	STATUS RESET	Change Shipping Category
04/12/2013 08:49:55	RAMIREM	C4	LA00000067088	VALENB 02/14/2013 16:03:25	STATUS RESET	Change Shipping Category
04/12/2013 08:49:14	RAMIREM	C4	LA00000092339	VALENB 04/05/2013 10:17:16	STATUS RESET	Change Shipping Category
04/12/2013 08:48:07	RAMIREM	C4	LA00000092486	DOMINGL 03/05/2013 15:14:10	STATUS RESET	Change Shipping Category
04/12/2013 08:47:22	RAMIREM	C4	LA00000092188	DOMINGL 02/22/2013 10:58:45	STATUS RESET	Change Shipping Category
04/12/2013 08:46:40	RAMIREM	C4	LA00000092204	VALENB 02/18/2013 14:19:00	STATUS RESET	Change Shipping Category
04/12/2013 08:45:54	RAMIREM	C4	LA00000066997	PETTUSH 04/10/2013 13:33:19	STATUS RESET	Change Shipping Category

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
04/12/2013 08:44:30	RAMIREM	C4	LA00000066804	PETTUSH 04/10/2013 10:55:46	STATUS RESET	Change Shipping Category
04/12/2013 08:40:59	RAMIREM	C4	LA00000066982	PETTUSH 04/10/2013 10:55:52	STATUS RESET	Change Shipping Category
04/12/2013 08:24:32	RAMIREM	C4	LA00000093190	DOMINGL 04/11/2013 10:55:32	STATUS RESET	Change Shipping Category
04/12/2013 08:23:13	RAMIREM	C4	LA00000067058	PETTUSH 04/10/2013 11:41:22	STATUS RESET	Change Shipping Category
04/10/2013 14:27:24	RAMIREM	C4	LA00000092996	DOMINGL 04/02/2013 16:11:19	STATUS RESET	Change TRUCON Code
04/09/2013 15:49:23	RAMIREM	C4	LA00000093218	DOMINGL 04/09/2013 13:21:43	STATUS RESET	Change Shipping Category
04/09/2013 15:48:34	RAMIREM	C4	LA00000093199	DOMINGL 04/09/2013 13:21:41	STATUS RESET	Change Shipping Category
04/09/2013 15:47:36	RAMIREM	C4	LA00000093186	DOMINGL 04/09/2013 13:21:39	STATUS RESET	Change Shipping Category
04/09/2013 14:05:34	HERNANC	C8	SRP12033	DOMINGL 04/09/2013 10:46:33	STATUS RESET	Change TRUCON Code
04/09/2013 14:05:06	HERNANC	C8	SRP12032	DOMINGL 04/09/2013 10:46:31	STATUS RESET	Change TRUCON Code
04/09/2013 14:04:00	HERNANC	C8	SRP12031	DOMINGL 04/09/2013 10:46:29	STATUS RESET	Change TRUCON Code

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
04/09/2013 14:03:30	HERNANC	C8	SRP12030	DOMINGL 04/09/2013 10:46:28	STATUS RESET	Change TRUCON Code
04/09/2013 14:01:56	HERNANC	C8	SRP12029	DOMINGL 04/09/2013 10:46:25	STATUS RESET	Change TRUCON Code
04/09/2013 13:39:18	RAMIREM	C8	SRP12039	DOMINGL 04/09/2013 08:09:50	STATUS RESET	Change TRUCON Code
04/09/2013 13:38:48	RAMIREM	C8	SRP12038	DOMINGL 04/09/2013 08:09:48	STATUS RESET	Change TRUCON Code
04/09/2013 13:38:19	RAMIREM	C8	SRP12037	DOMINGL 04/09/2013 08:09:46	STATUS RESET	Change TRUCON Code
04/09/2013 13:37:44	RAMIREM	C8	SRP12035	DOMINGL 04/09/2013 08:09:45	STATUS RESET	Change TRUCON Code
04/09/2013 13:37:15	RAMIREM	C8	SRP12034	DOMINGL 04/09/2013 08:09:43	STATUS RESET	Change TRUCON Code
04/09/2013 13:36:33	RAMIREM	C8	SRP12028	DOMINGL 04/09/2013 07:52:54	STATUS RESET	Change TRUCON Code
04/09/2013 13:36:00	RAMIREM	C8	SRP12027	DOMINGL 04/09/2013 07:52:52	STATUS RESET	Change TRUCON Code
04/09/2013 13:35:30	RAMIREM	C8	SRP12026	DOMINGL 04/09/2013 07:52:50	STATUS RESET	Change TRUCON Code
04/09/2013 13:34:58	RAMIREM	C8	SRP12025	DOMINGL 04/09/2013 07:52:48	STATUS RESET	Change TRUCON Code

Container Data Change Log

Change Date	Change User ID	Certification Program ID	Container Number	Insert User ID/ Insert Date	Change Action	Change Reason
04/09/2013 13:34:01	RAMIREM	C8	SRP12024	DOMINGL 04/09/2013 07:52:42	STATUS RESET	Change TRUCON Code
04/02/2013 13:27:30	HENSLEL	C4	LAS822874	PETTUSH 03/20/2013 08:45:13	STATUS RESET	Failed Container Integrity
04/02/2013 13:26:32	HENSLEL	C4	LAS833217	DOMINGL 03/05/2013 14:59:26	STATUS RESET	Failed Container Integrity
04/02/2013 13:25:50	HENSLEL	C4	LAS803151	DOMINGL 03/07/2013 12:47:07	STATUS RESET	Failed Container Integrity
04/02/2013 13:23:33	HENSLEL	C4	LAS825891	PETTUSH 03/20/2013 08:45:15	STATUS RESET	Failed Container Integrity
04/02/2013 13:22:42	HENSLEL	C4	LAS804985	VALENB 03/18/2013 10:49:18	STATUS RESET	Failed Container Integrity
04/02/2013 13:20:18	HENSLEL	C4	LA00000058994	DOMINGL 03/07/2013 12:36:19	STATUS RESET	Failed Container Integrity
04/02/2013 13:18:27	HENSLEL	C4	LA00000054835	DOMINGL 03/07/2013 12:43:26	STATUS RESET	Failed Container Integrity

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

10.a **Maps of waste disposal location and quantity from April 1, 2013 to May 15, 2013 as specified in Permit Condition 4.8.2. [26 pages, 4 maps]**

Waste Containers Emplaced at WIPP between April 1, 2013 and May 15, 2013:

Panel	Room	Row	Col	Hgt	BH	Container Type	Container Number	Manifest Number	Disposal Date
6	3	49	5	T		100GD	BN10471796	001600666GBF	2-Apr-13
6	3	49	5	T		100GD	BN10472170	001600666GBF	2-Apr-13
6	3	49	5	T		100GD	BN10473314	001600666GBF	2-Apr-13
6	3	50	2	T		100GD	BN10472106	001600666GBF	2-Apr-13
6	3	50	2	T		100GD	BN10473543	001600666GBF	2-Apr-13
6	3	50	2	T		100GD	BN10473726	001600666GBF	2-Apr-13
6	3	50	4	B		SWB	LASB01915	010784055JJK	2-Apr-13
6	3	50	4	M		SWB	LA00000092846	010784055JJK	2-Apr-13
6	3	50	4	T		SWB	LA00000092830	010784055JJK	2-Apr-13
6	3	50	6	B		SWB	LASB01917	010784055JJK	2-Apr-13
6	3	50	6	M		SWB	LA00000092869	010784055JJK	2-Apr-13
6	3	50	6	T		SWB	LASB01914	010784055JJK	2-Apr-13
6	3	51	1	B		SWB	LASB01929	010784052JJK	3-Apr-13
6	3	51	1	M		SWB	LA00000092742	010784052JJK	3-Apr-13
6	3	51	1	T		SWB	SRSB01225	001600666GBF	3-Apr-13
6	3	51	3	B		SWB	LA00000093077	010784056JJK	2-Apr-13
6	3	51	3	M		SWB	LASB01932	010784056JJK	2-Apr-13
6	3	51	3	T		SWB	LASB01935	010784053JJK	3-Apr-13
6	3	51	5	B		SWB	LA00000092875	010784056JJK	2-Apr-13
6	3	51	5	M		SWB	LASB01918	010784056JJK	2-Apr-13
6	3	51	5	T		SWB	LA00000092797	010784053JJK	3-Apr-13
6	3	53	1	B		SLB2	SR55680801	001077789GBF	4-Apr-13
6	3	53	1	T		SWB	LA00000092953	010784057JJK	4-Apr-13
6	3	53	3	B		SLB2	SR503584	001077790GBF	3-Apr-13
6	3	53	3	T		100GD	BN10473289	001600664GBF	3-Apr-13
6	3	53	3	T		100GD	BN10473538	001600664GBF	3-Apr-13
6	3	53	3	T		100GD	BN10473652	001600664GBF	3-Apr-13
6	3	53	5	B		SLB2	SR80903	001077791GBF	3-Apr-13
6	3	53	5	T		100GD	BN10471794	001600664GBF	3-Apr-13
6	3	53	5	T		100GD	BN10473656	001600664GBF	3-Apr-13
6	3	53	5	T		100GD	BN10473724	001600664GBF	3-Apr-13
6	3	54	2	B		SWB	LASB01944	010784057JJK	4-Apr-13
6	3	54	2	M		SWB	LA00000092903	010784057JJK	4-Apr-13
6	3	54	2	T		SWB	LA00000052315	010784057JJK	4-Apr-13
6	3	54	4	B		SWB	LA00000093046	010784056JJK	4-Apr-13
6	3	54	4	M		SWB	LASB01919	010784056JJK	4-Apr-13
6	3	54	4	T		55GD	FCA080001A	001077795GBF	4-Apr-13
6	3	54	4	T		55GD	FCA080004A	001077795GBF	4-Apr-13
6	3	54	4	T		55GD	FCA080007	001077795GBF	4-Apr-13
6	3	54	4	T		55GD	SR46068XB	001077795GBF	4-Apr-13
6	3	54	4	T		55GD	SR57052925	001077795GBF	4-Apr-13
6	3	54	4	T		55GD	SR598202C	001077795GBF	4-Apr-13
6	3	54	4	T		55GD	SR94984B	001077795GBF	4-Apr-13

6	3	54	6 B	55GD	772F110002	001077793GBF	4-Apr-13
6	3	54	6 B	55GD	FCA080003B	001077793GBF	4-Apr-13
6	3	54	6 B	55GD	FCA080005	001077793GBF	4-Apr-13
6	3	54	6 B	55GD	SR508807	001077793GBF	4-Apr-13
6	3	54	6 B	55GD	SR509850F	001077793GBF	4-Apr-13
6	3	54	6 B	55GD	SR515749	001077793GBF	4-Apr-13
6	3	54	6 B	55GD	SR57052926	001077793GBF	4-Apr-13
6	3	54	6 M	55GD	SR506666C	001077793GBF	4-Apr-13
6	3	54	6 M	55GD	SR506666D	001077793GBF	4-Apr-13
6	3	54	6 M	55GD	SR509850C	001077793GBF	4-Apr-13
6	3	54	6 M	55GD	SR51647203	001077793GBF	4-Apr-13
6	3	54	6 M	55GD	SR520320A	001077793GBF	4-Apr-13
6	3	54	6 M	55GD	SR522324A	001077793GBF	4-Apr-13
6	3	54	6 M	55GD	SR544288A	001077793GBF	4-Apr-13
6	3	54	6 T	55GD	SR130567A	001077795GBF	4-Apr-13
6	3	54	6 T	55GD	SR46050WA	001077795GBF	4-Apr-13
6	3	54	6 T	55GD	SR500175X	001077795GBF	4-Apr-13
6	3	54	6 T	55GD	SR500175Z	001077795GBF	4-Apr-13
6	3	54	6 T	55GD	SR520745A	001077795GBF	4-Apr-13
6	3	54	6 T	55GD	SR55680226	001077795GBF	4-Apr-13
6	3	54	6 T	55GD	SWD10346	001077795GBF	4-Apr-13
6	3	55	1 B	100GD	BN10474468	001600664GBF	5-Apr-13
6	3	55	1 B	100GD	BN10474469	001600664GBF	5-Apr-13
6	3	55	1 B	100GD	BN10474878	001600664GBF	5-Apr-13
6	3	55	1 M	100GD	BN10472574	001600664GBF	5-Apr-13
6	3	55	1 M	100GD	BN10472593	001600664GBF	5-Apr-13
6	3	55	1 M	100GD	BN10473322	001600664GBF	5-Apr-13
6	3	55	1 T	100GD	BN10473352	001600664GBF	5-Apr-13
6	3	55	1 T	100GD	BN10473354	001600664GBF	5-Apr-13
6	3	55	1 T	100GD	BN10474747	001600664GBF	5-Apr-13
6	3	55	3 B	55GD	FCA080008	001077793GBF	4-Apr-13
6	3	55	3 B	55GD	FCA080009	001077793GBF	4-Apr-13
6	3	55	3 B	55GD	FCA080009A	001077793GBF	4-Apr-13
6	3	55	3 B	55GD	MDL0504544	001077793GBF	4-Apr-13
6	3	55	3 B	55GD	SD00005621	001077793GBF	4-Apr-13
6	3	55	3 B	55GD	SR216490	001077793GBF	4-Apr-13
6	3	55	3 B	55GD	SR46052Q	001077793GBF	4-Apr-13
6	3	55	3 M	55GD	SR118870B	001077793GBF	4-Apr-13
6	3	55	3 M	55GD	SR171240F	001077793GBF	4-Apr-13
6	3	55	3 M	55GD	SR171240G	001077793GBF	4-Apr-13
6	3	55	3 M	55GD	SR268060C	001077793GBF	4-Apr-13
6	3	55	3 M	55GD	SR26811402	001077793GBF	4-Apr-13
6	3	55	3 M	55GD	SR512069B	001077793GBF	4-Apr-13
6	3	55	3 M	55GD	SR61016315	001077793GBF	4-Apr-13
6	3	55	3 T	100GD	BN10472588	001600665GBF	4-Apr-13
6	3	55	3 T	100GD	BN10474475	001600665GBF	4-Apr-13
6	3	55	3 T	100GD	BN10474545	001600665GBF	4-Apr-13

6	3	55	5 B	SWB	LASB01940	010784057JJK	4-Apr-13
6	3	55	5 M	SWB	LA00000056111	010784057JJK	4-Apr-13
6	3	55	5 T	100GD	BN10472577	001600665GBF	4-Apr-13
6	3	55	5 T	100GD	BN10472584	001600665GBF	4-Apr-13
6	3	55	5 T	100GD	BN10473362	001600665GBF	4-Apr-13
6	3	57	1 B	SLB2	SR51647202	001077798GBF	9-Apr-13
6	3	57	1 T	SWB	LA00000093032	010784060JJK	9-Apr-13
6	3	57	3 B	SLB2	SR150239B	001077794GBF	9-Apr-13
6	3	57	3 T	SWB	SB10105	010784060JJK	9-Apr-13
6	3	57	5 B	SLB2	SR54300602	001077796GBF	9-Apr-13
6	3	57	5 T	SWB	SR57053112	001077799GBF	9-Apr-13
6	3	58	2 B	SWB	SB10071	010784060JJK	9-Apr-13
6	3	58	2 M	SWB	LA00000092617	010784060JJK	9-Apr-13
6	3	58	2 T	SWB	FCAN06040	001077799GBF	9-Apr-13
6	3	58	4 B	SWB	LA00000092945	010784060JJK	9-Apr-13
6	3	58	4 M	SWB	LA00000092981	010784060JJK	9-Apr-13
6	3	58	4 T	SWB	LA00000092505	010784059JJK	9-Apr-13
6	3	58	6 B	SWB	SB10072	010784059JJK	9-Apr-13
6	3	58	6 M	SWB	LA00000064757	010784059JJK	9-Apr-13
6	3	58	6 T	SWB	SB10082	010784059JJK	9-Apr-13
6	3	59	1 B	SWB	LA00000066104	010784058JJK	9-Apr-13
6	3	59	1 M	SWB	LA00000092946	010784058JJK	9-Apr-13
6	3	59	1 T	SWB	LASB01939	010784058JJK	9-Apr-13
6	3	59	3 B	55GD	SR508802	001077793GBF	10-Apr-13
6	3	59	3 B	55GD	SR508806	001077793GBF	10-Apr-13
6	3	59	3 B	55GD	SR515740	001077793GBF	10-Apr-13
6	3	59	3 B	55GD	SR515742	001077793GBF	10-Apr-13
6	3	59	3 B	55GD	SR515743	001077793GBF	10-Apr-13
6	3	59	3 B	55GD	SR515746	001077793GBF	10-Apr-13
6	3	59	3 B	55GD	SR515748	001077793GBF	10-Apr-13
6	3	59	3 M	55GD	SR505375	001077793GBF	10-Apr-13
6	3	59	3 M	55GD	SR508809	001077793GBF	10-Apr-13
6	3	59	3 M	55GD	SR512025C	001077793GBF	10-Apr-13
6	3	59	3 M	55GD	SR514396B	001077793GBF	10-Apr-13
6	3	59	3 M	55GD	SR514732	001077793GBF	10-Apr-13
6	3	59	3 M	55GD	SR515745	001077793GBF	10-Apr-13
6	3	59	3 M	55GD	SR515747	001077793GBF	10-Apr-13
6	3	59	3 T	100GD	BN10473241	001600651GBF	10-Apr-13
6	3	59	3 T	100GD	BN10473276	001600651GBF	10-Apr-13
6	3	59	3 T	100GD	BN10473284	001600651GBF	10-Apr-13
6	3	59	5 B	100GD	BN10468344	001600666GBF	10-Apr-13
6	3	59	5 B	100GD	BN10469128	001600666GBF	10-Apr-13
6	3	59	5 B	100GD	BN10472365	001600666GBF	10-Apr-13
6	3	59	5 M	100GD	BN10466286	001600666GBF	10-Apr-13
6	3	59	5 M	100GD	BN10469125	001600666GBF	10-Apr-13
6	3	59	5 M	100GD	BN10472360	001600666GBF	10-Apr-13
6	3	59	5 T	100GD	BN10472217	001600651GBF	10-Apr-13

6	3	59	5 T	100GD	BN10473296	001600651GBF	10-Apr-13
6	3	59	5 T	100GD	BN10473297	001600651GBF	10-Apr-13
6	3	60	2 B	SWB	LASB01892	010784047JJK	10-Apr-13
6	3	60	2 M	SWB	LA00000092042	010784047JJK	10-Apr-13
6	3	60	2 T	55GD	ARP70947	001600671GBF	11-Apr-13
6	3	60	2 T	55GD	ARP71108	001600671GBF	11-Apr-13
6	3	60	2 T	55GD	ARP71111	001600671GBF	11-Apr-13
6	3	60	2 T	55GD	ARP71133	001600671GBF	11-Apr-13
6	3	60	2 T	55GD	ARP71142	001600671GBF	11-Apr-13
6	3	60	2 T	55GD	ARP71147	001600671GBF	11-Apr-13
6	3	60	2 T	55GD	ARP71174	001600671GBF	11-Apr-13
6	3	60	4 B	55GD	ARP71098	001600671GBF	10-Apr-13
6	3	60	4 B	55GD	ARP71104	001600671GBF	10-Apr-13
6	3	60	4 B	55GD	ARP71112	001600671GBF	10-Apr-13
6	3	60	4 B	55GD	ARP71116	001600671GBF	10-Apr-13
6	3	60	4 B	55GD	ARP71148	001600671GBF	10-Apr-13
6	3	60	4 B	55GD	ARP71154	001600671GBF	10-Apr-13
6	3	60	4 B	55GD	ARP71159	001600671GBF	10-Apr-13
6	3	60	4 M	55GD	ARP70900	001600671GBF	10-Apr-13
6	3	60	4 M	55GD	ARP71088	001600671GBF	10-Apr-13
6	3	60	4 M	55GD	ARP71094	001600671GBF	10-Apr-13
6	3	60	4 M	55GD	ARP71101	001600671GBF	10-Apr-13
6	3	60	4 M	55GD	ARP71144	001600671GBF	10-Apr-13
6	3	60	4 M	55GD	ARP71162	001600671GBF	10-Apr-13
6	3	60	4 M	55GD	ARP71180	001600671GBF	10-Apr-13
6	3	60	4 T	55GD	ARP71007	001600671GBF	11-Apr-13
6	3	60	4 T	55GD	ARP71109	001600671GBF	11-Apr-13
6	3	60	4 T	55GD	ARP71114	001600671GBF	11-Apr-13
6	3	60	4 T	55GD	ARP71131	001600671GBF	11-Apr-13
6	3	60	4 T	55GD	ARP71150	001600671GBF	11-Apr-13
6	3	60	4 T	55GD	ARP71152	001600671GBF	11-Apr-13
6	3	60	4 T	55GD	ARP71182	001600671GBF	11-Apr-13
6	3	60	6 B	100GD	BN10476247	001600667GBF	10-Apr-13
6	3	60	6 B	100GD	BN10476256	001600667GBF	10-Apr-13
6	3	60	6 B	100GD	BN10476367	001600667GBF	10-Apr-13
6	3	60	6 M	100GD	BN10476246	001600667GBF	10-Apr-13
6	3	60	6 M	100GD	BN10476255	001600667GBF	10-Apr-13
6	3	60	6 M	100GD	BN10476373	001600667GBF	10-Apr-13
6	3	60	6 T	100GD	BN10475580	001600667GBF	11-Apr-13
6	3	60	6 T	100GD	BN10476249	001600667GBF	11-Apr-13
6	3	60	6 T	100GD	BN10476254	001600667GBF	11-Apr-13
6	3	61	1 B	55GD	FCA080001	001077795GBF	11-Apr-13
6	3	61	1 B	55GD	FCA080003	001077795GBF	11-Apr-13
6	3	61	1 B	55GD	FCA080011	001077795GBF	11-Apr-13
6	3	61	1 B	55GD	FCA080012A	001077795GBF	11-Apr-13
6	3	61	1 B	55GD	MD0504544A	001077795GBF	11-Apr-13
6	3	61	1 B	55GD	MD0504544B	001077795GBF	11-Apr-13

6	3	61	1 B	55GD	SWD041062	001077795GBF	11-Apr-13
6	3	61	1 M	55GD	MDL026250	001077795GBF	11-Apr-13
6	3	61	1 M	55GD	SD00005930	001077795GBF	11-Apr-13
6	3	61	1 M	55GD	SR100233C	001077795GBF	11-Apr-13
6	3	61	1 M	55GD	SR148843A	001077795GBF	11-Apr-13
6	3	61	1 M	55GD	SR57170828	001077795GBF	11-Apr-13
6	3	61	1 M	55GD	SWD041253B	001077795GBF	11-Apr-13
6	3	61	1 M	55GD	SWD071371	001077795GBF	11-Apr-13
6	3	61	1 T	55GD	ARP71002	001600671GBF	11-Apr-13
6	3	61	1 T	55GD	ARP71025	001600671GBF	11-Apr-13
6	3	61	1 T	55GD	ARP71028	001600671GBF	11-Apr-13
6	3	61	1 T	55GD	ARP71035	001600671GBF	11-Apr-13
6	3	61	1 T	55GD	ARP71120	001600671GBF	11-Apr-13
6	3	61	1 T	55GD	ARP71183	001600671GBF	11-Apr-13
6	3	61	1 T	55GD	ARP71257	001600671GBF	11-Apr-13
6	3	61	3 B	12-in POP	HBL120055	001077797GBF	11-Apr-13
6	3	61	3 B	12-in POP	HBL120058	001077797GBF	11-Apr-13
6	3	61	3 B	12-in POP	HBL120062	001077797GBF	11-Apr-13
6	3	61	3 B	12-in POP	HBL120064	001077797GBF	11-Apr-13
6	3	61	3 B	12-in POP	HBL120067	001077797GBF	11-Apr-13
6	3	61	3 B	12-in POP	HBL120068	001077797GBF	11-Apr-13
6	3	61	3 B	12-in POP	HBL120267	001077797GBF	11-Apr-13
6	3	61	3 M	12-in POP	HBL110131	001077797GBF	11-Apr-13
6	3	61	3 M	12-in POP	HBL120006	001077797GBF	11-Apr-13
6	3	61	3 M	12-in POP	HBL120007	001077797GBF	11-Apr-13
6	3	61	3 M	12-in POP	HBL120022	001077797GBF	11-Apr-13
6	3	61	3 M	12-in POP	HBL120027	001077797GBF	11-Apr-13
6	3	61	3 M	12-in POP	HBL120042	001077797GBF	11-Apr-13
6	3	61	3 M	55GD	SRSDUN662	001077797GBF	11-Apr-13
6	3	61	3 T	55GD	BCSWB04B	001077795GBF	11-Apr-13
6	3	61	3 T	55GD	HBL090019	001077795GBF	11-Apr-13
6	3	61	3 T	55GD	HBL090027	001077795GBF	11-Apr-13
6	3	61	3 T	55GD	HBL090039	001077795GBF	11-Apr-13
6	3	61	3 T	55GD	SD00005605	001077795GBF	11-Apr-13
6	3	61	3 T	55GD	SD00005606	001077795GBF	11-Apr-13
6	3	61	3 T	55GD	SD00005607	001077795GBF	11-Apr-13
6	3	61	5 B	SWB	SB10090	010784059JJK	11-Apr-13
6	3	61	5 M	SWB	LA00000092503	010784059JJK	11-Apr-13
6	3	61	5 T	55GD	BCSWB02A	001077795GBF	11-Apr-13
6	3	61	5 T	55GD	BCSWB04A	001077795GBF	11-Apr-13
6	3	61	5 T	55GD	FCA080005A	001077795GBF	11-Apr-13
6	3	61	5 T	55GD	HBL100026	001077795GBF	11-Apr-13
6	3	61	5 T	55GD	KAC0900023	001077795GBF	11-Apr-13
6	3	61	5 T	55GD	MD0311403B	001077795GBF	11-Apr-13
6	3	61	5 T	55GD	SD00005613	001077795GBF	11-Apr-13
6	3	62	2 B	SWB	LA00000092465	010784058JJK	11-Apr-13
6	3	62	2 M	SWB	SB10047	010784058JJK	11-Apr-13

6	3	62	2 T	SWB	WMPSWB540A	001077799GBF	13-Apr-13
6	3	62	4 B	SWB	SR598226A	001077799GBF	13-Apr-13
6	3	62	4 M	SWB	SR14706105	001077799GBF	14-Apr-13
6	3	62	4 T	SWB	FCAN06037	001077799GBF	13-Apr-13
6	3	62	6 B	SWB	FCAN06035	000148338MWI	13-Apr-13
6	3	62	6 M	SWB	SR14706101	000148338MWI	13-Apr-13
6	3	62	6 T	100GD	BN10473316	001600672GBF	13-Apr-13
6	3	62	6 T	100GD	BN10473542	001600672GBF	13-Apr-13
6	3	62	6 T	100GD	BN10474272	001600672GBF	13-Apr-13
6	3	63	1 B	12-in POP	HBL110115	001077797GBF	13-Apr-13
6	3	63	1 B	12-in POP	HBL120010	001077797GBF	13-Apr-13
6	3	63	1 B	12-in POP	HBL120013	001077797GBF	13-Apr-13
6	3	63	1 B	12-in POP	HBL120014	001077797GBF	13-Apr-13
6	3	63	1 B	12-in POP	HBL120016	001077797GBF	13-Apr-13
6	3	63	1 B	12-in POP	HBL120019	001077797GBF	13-Apr-13
6	3	63	1 B	12-in POP	HBL120038	001077797GBF	13-Apr-13
6	3	63	1 M	12-in POP	HBL110124	001077797GBF	13-Apr-13
6	3	63	1 M	12-in POP	HBL110134	001077797GBF	13-Apr-13
6	3	63	1 M	12-in POP	HBL110170	001077797GBF	13-Apr-13
6	3	63	1 M	12-in POP	HBL110174	001077797GBF	13-Apr-13
6	3	63	1 M	12-in POP	HBL110198	001077797GBF	13-Apr-13
6	3	63	1 M	12-in POP	HBL110200	001077797GBF	13-Apr-13
6	3	63	1 M	55GD	SRSDUN663	001077797GBF	13-Apr-13
6	3	63	1 T	100GD	BN10471788	001600672GBF	13-Apr-13
6	3	63	1 T	100GD	BN10473277	001600672GBF	13-Apr-13
6	3	63	1 T	100GD	BN10473649	001600672GBF	13-Apr-13
6	3	63	3 B	12-in POP	HBL110133	001077797GBF	13-Apr-13
6	3	63	3 B	12-in POP	HBL120018	001077797GBF	13-Apr-13
6	3	63	3 B	12-in POP	HBL120060	001077797GBF	13-Apr-13
6	3	63	3 B	12-in POP	HBL120075	001077797GBF	13-Apr-13
6	3	63	3 B	12-in POP	HBL120080	001077797GBF	13-Apr-13
6	3	63	3 B	12-in POP	HBL120281	001077797GBF	13-Apr-13
6	3	63	3 B	12-in POP	HBL120490	001077797GBF	13-Apr-13
6	3	63	3 M	12-in POP	HBL110110	001077797GBF	13-Apr-13
6	3	63	3 M	12-in POP	HBL110120	001077797GBF	13-Apr-13
6	3	63	3 M	12-in POP	HBL110128	001077797GBF	13-Apr-13
6	3	63	3 M	12-in POP	HBL110196	001077797GBF	13-Apr-13
6	3	63	3 M	12-in POP	HBL110197	001077797GBF	13-Apr-13
6	3	63	3 M	12-in POP	HBL110199	001077797GBF	13-Apr-13
6	3	63	3 M	55GD	SRSDUN664	001077797GBF	13-Apr-13
6	3	63	3 T	100GD	BN10473535	001600672GBF	13-Apr-13
6	3	63	3 T	100GD	BN10473722	001600672GBF	13-Apr-13
6	3	63	3 T	100GD	BN10473729	001600672GBF	13-Apr-13
6	3	63	5 B	SWB	SR14706103	000148338MWI	14-Apr-13
6	3	63	5 M	SWB	FCAN06038	000148338MWI	13-Apr-13
6	3	63	5 T	SWB	BN10470608	001600668GBF	13-Apr-13
6	3	64	2 B	100GD	BN10455029	001600669GBF	13-Apr-13

6	3	64	2 B	100GD	BN10470154	001600669GBF	13-Apr-13
6	3	64	2 B	100GD	BN10470165	001600669GBF	13-Apr-13
6	3	64	2 M	100GD	BN10442682	001600669GBF	13-Apr-13
6	3	64	2 M	100GD	BN10445631	001600669GBF	13-Apr-13
6	3	64	2 M	100GD	BN10466288	001600669GBF	13-Apr-13
6	3	64	2 T	100GD	BN10473239	001600672GBF	14-Apr-13
6	3	64	2 T	100GD	BN10473540	001600672GBF	14-Apr-13
6	3	64	2 T	100GD	BN10474192	001600672GBF	14-Apr-13
6	3	64	4 B	100GD	BN10474541	001600667GBF	14-Apr-13
6	3	64	4 B	100GD	BN10474749	001600667GBF	14-Apr-13
6	3	64	4 B	100GD	BN10476200	001600667GBF	14-Apr-13
6	3	64	4 M	100GD	BN10474540	001600667GBF	14-Apr-13
6	3	64	4 M	100GD	BN10476248	001600667GBF	14-Apr-13
6	3	64	4 M	100GD	BN10476252	001600667GBF	14-Apr-13
6	3	64	4 T	100GD	BN10473320	001600672GBF	14-Apr-13
6	3	64	4 T	100GD	BN10473731	001600672GBF	14-Apr-13
6	3	64	4 T	100GD	BN10474265	001600672GBF	14-Apr-13
6	3	64	6 B	SWB	BN10470607	001600670GBF	14-Apr-13
6	3	64	6 M	SWB	BN10458641	001600670GBF	14-Apr-13
6	3	64	6 T	100GD	BN10473361	001600669GBF	14-Apr-13
6	3	64	6 T	100GD	BN10473536	001600669GBF	14-Apr-13
6	3	64	6 T	100GD	BN10474276	001600669GBF	14-Apr-13
6	3	66	2 B	SLB2	SR54300506	000148339MWI	16-Apr-13
6	3	66	2 T	SWB	BN10470606	001600670GBF	17-Apr-13
6	3	66	4 B	SLB2	SR51647501	000148337MWI	16-Apr-13
6	3	66	4 T	SWB	BN10469826	001600670GBF	17-Apr-13
6	3	66	6 B	SLB2	SR54300611	000148341MWI	16-Apr-13
6	3	66	6 T	SWB	BN10468390	001600670GBF	17-Apr-13
6	3	67	1 B	SWB	SR46015YB	000148340MWI	17-Apr-13
6	3	67	1 M	SWB	SR54300605	000148340MWI	17-Apr-13
6	3	67	1 T	SWB	SR608873A	000148342MWI	17-Apr-13
6	3	67	3 B	55GD	LA00000092524	010784063JJK	17-Apr-13
6	3	67	3 B	55GD	LA00000093002	010784063JJK	17-Apr-13
6	3	67	3 B	55GD	LAS813444	010784063JJK	17-Apr-13
6	3	67	3 B	55GD	LAS824607	010784063JJK	17-Apr-13
6	3	67	3 B	55GD	LAS862268	010784063JJK	17-Apr-13
6	3	67	3 B	55GD	LAS862271	010784063JJK	17-Apr-13
6	3	67	3 B	55GD	LAS910727	010784063JJK	17-Apr-13
6	3	67	3 M	55GD	LA00000092494	010784063JJK	17-Apr-13
6	3	67	3 M	55GD	LA00000092586	010784063JJK	17-Apr-13
6	3	67	3 M	55GD	LA00000092600	010784063JJK	17-Apr-13
6	3	67	3 M	55GD	LA00000092701	010784063JJK	17-Apr-13
6	3	67	3 M	55GD	LA00000092959	010784063JJK	17-Apr-13
6	3	67	3 M	55GD	LAS822556	010784063JJK	17-Apr-13
6	3	67	3 M	55GD	LAS855309	010784063JJK	17-Apr-13
6	3	67	3 T	55GD	LA00000059420	010784061JJK	17-Apr-13
6	3	67	3 T	55GD	LA00000061760	010784061JJK	17-Apr-13

6	3	67	3 T	55GD	LA00000066524	010784061JJK	17-Apr-13
6	3	67	3 T	55GD	LA00000066801	010784061JJK	17-Apr-13
6	3	67	3 T	55GD	LA00000066838	010784061JJK	17-Apr-13
6	3	67	3 T	55GD	LA00000066839	010784061JJK	17-Apr-13
6	3	67	3 T	55GD	LA00000091508	010784061JJK	17-Apr-13
6	3	67	5 B	55GD	LA00000052355	010784061JJK	17-Apr-13
6	3	67	5 B	55GD	LA00000052497	010784061JJK	17-Apr-13
6	3	67	5 B	55GD	LA00000052936	010784061JJK	17-Apr-13
6	3	67	5 B	55GD	LA00000052948	010784061JJK	17-Apr-13
6	3	67	5 B	55GD	LA00000053304	010784061JJK	17-Apr-13
6	3	67	5 B	55GD	LA00000053530	010784061JJK	17-Apr-13
6	3	67	5 B	55GD	LA00000054412	010784061JJK	17-Apr-13
6	3	67	5 M	55GD	LA00000052027	010784061JJK	17-Apr-13
6	3	67	5 M	55GD	LA00000052028	010784061JJK	17-Apr-13
6	3	67	5 M	55GD	LA00000053355	010784061JJK	17-Apr-13
6	3	67	5 M	55GD	LA00000054186	010784061JJK	17-Apr-13
6	3	67	5 M	55GD	LA00000054320	010784061JJK	17-Apr-13
6	3	67	5 M	55GD	LA00000066615	010784061JJK	17-Apr-13
6	3	67	5 M	55GD	LA00000066680	010784061JJK	17-Apr-13
6	3	67	5 T	55GD	LA00000064847	010784061JJK	17-Apr-13
6	3	67	5 T	55GD	LA00000064848	010784061JJK	17-Apr-13
6	3	67	5 T	55GD	LA00000066562	010784061JJK	17-Apr-13
6	3	67	5 T	55GD	LA00000066799	010784061JJK	17-Apr-13
6	3	67	5 T	55GD	LA00000066998	010784061JJK	17-Apr-13
6	3	67	5 T	55GD	LA00000067063	010784061JJK	17-Apr-13
6	3	67	5 T	55GD	LA00000091586	010784061JJK	17-Apr-13
6	3	68	2 B	SWB	WMAPSWB468	000148342MWI	17-Apr-13
6	3	68	2 M	SWB	WMAPSWB354	000148342MWI	17-Apr-13
6	3	68	2 T	SWB	SR54300707	000148342MWI	17-Apr-13
6	3	68	4 B	100GD	BN10471792	001600673GBF	18-Apr-13
6	3	68	4 B	100GD	BN10473657	001600673GBF	18-Apr-13
6	3	68	4 B	100GD	BN10473723	001600673GBF	18-Apr-13
6	3	68	4 M	100GD	BN10471450	001600673GBF	18-Apr-13
6	3	68	4 M	100GD	BN10472173	001600673GBF	18-Apr-13
6	3	68	4 M	100GD	BN10473660	001600673GBF	18-Apr-13
6	3	68	4 T	100GD	BN10472596	001600673GBF	18-Apr-13
6	3	68	4 T	100GD	BN10474472	001600673GBF	18-Apr-13
6	3	68	4 T	100GD	BN10474874	001600673GBF	18-Apr-13
6	3	68	6 B	55GD	LA00000066815	010784063JJK	18-Apr-13
6	3	68	6 B	55GD	LA00000066905	010784063JJK	18-Apr-13
6	3	68	6 B	55GD	LA00000066942	010784063JJK	18-Apr-13
6	3	68	6 B	55GD	LA00000066992	010784063JJK	18-Apr-13
6	3	68	6 B	55GD	LA00000067067	010784063JJK	18-Apr-13
6	3	68	6 B	55GD	LA00000067068	010784063JJK	18-Apr-13
6	3	68	6 B	55GD	LA00000067098	010784063JJK	18-Apr-13
6	3	68	6 M	55GD	LA00000066908	010784063JJK	18-Apr-13
6	3	68	6 M	55GD	LA00000092154	010784063JJK	18-Apr-13

6	3	68	6 M	55GD	LA00000092166	010784063JJK	18-Apr-13
6	3	68	6 M	55GD	LA00000092181	010784063JJK	18-Apr-13
6	3	68	6 M	55GD	LA00000092355	010784063JJK	18-Apr-13
6	3	68	6 M	55GD	LA00000092466	010784063JJK	18-Apr-13
6	3	68	6 M	55GD	LA00000092751	010784063JJK	18-Apr-13
6	3	68	6 T	100GD	BN10472025	001600673GBF	18-Apr-13
6	3	68	6 T	100GD	BN10474322	001600673GBF	18-Apr-13
6	3	68	6 T	100GD	BN10474743	001600673GBF	18-Apr-13
6	3	69	1 B	55GD	LA00000054839	010784061JJK	18-Apr-13
6	3	69	1 B	55GD	LA00000055176	010784061JJK	18-Apr-13
6	3	69	1 B	55GD	LA00000055612	010784061JJK	18-Apr-13
6	3	69	1 B	55GD	LA00000055693	010784061JJK	18-Apr-13
6	3	69	1 B	55GD	LA00000056814	010784061JJK	18-Apr-13
6	3	69	1 B	55GD	LA00000062095	010784061JJK	18-Apr-13
6	3	69	1 B	55GD	LA00000063592	010784061JJK	18-Apr-13
6	3	69	1 M	55GD	LA00000057049	010784061JJK	18-Apr-13
6	3	69	1 M	55GD	LA00000058258	010784061JJK	18-Apr-13
6	3	69	1 M	55GD	LA00000059159	010784061JJK	18-Apr-13
6	3	69	1 M	55GD	LA00000064745	010784061JJK	18-Apr-13
6	3	69	1 M	55GD	LA00000064756	010784061JJK	18-Apr-13
6	3	69	1 M	55GD	LA00000066764	010784061JJK	18-Apr-13
6	3	69	1 M	55GD	LA00000092951	010784061JJK	18-Apr-13
6	3	69	1 T	100GD	BN10476371	001600675GBF	18-Apr-13
6	3	69	1 T	100GD	BN10478857	001600675GBF	18-Apr-13
6	3	69	1 T	100GD	BN10478990	001600675GBF	18-Apr-13
6	3	69	3 B	SWB	SWD12193	000148344MWI	18-Apr-13
6	3	69	3 M	SWB	SWD12211	000148344MWI	18-Apr-13
6	3	69	3 T	100GD	BN10477293	001600675GBF	18-Apr-13
6	3	69	3 T	100GD	BN10477400	001600675GBF	18-Apr-13
6	3	69	3 T	100GD	BN10478849	001600675GBF	18-Apr-13
6	3	69	5 B	SWB	SB10099	010784064JJK	18-Apr-13
6	3	69	5 M	SWB	LA00000059618	010784064JJK	18-Apr-13
6	3	69	5 T	SWB	LASB01937	010784064JJK	18-Apr-13
6	3	70	2 B	SWB	WMAPSWB549	000148338MWI	19-Apr-13
6	3	70	2 M	SWB	WMAPSWB541	000148338MWI	19-Apr-13
6	3	70	2 T	100GD	BN10473358	001600675GBF	19-Apr-13
6	3	70	2 T	100GD	BN10473359	001600675GBF	19-Apr-13
6	3	70	2 T	100GD	BN10476788	001600675GBF	19-Apr-13
6	3	70	4 B	SWB	BN10469828	001600668GBF	19-Apr-13
6	3	70	4 M	SWB	BN10468391	001600668GBF	19-Apr-13
6	3	70	4 T	100GD	BN10473353	001600675GBF	19-Apr-13
6	3	70	4 T	100GD	BN10474873	001600675GBF	19-Apr-13
6	3	70	4 T	100GD	BN10476417	001600675GBF	19-Apr-13
6	3	70	6 B	SWB	LA00000092299	010784064JJK	19-Apr-13
6	3	70	6 M	SWB	LASB01943	010784064JJK	19-Apr-13
6	3	70	6 T	55GD	LA00000066179	010784065JJK	19-Apr-13
6	3	70	6 T	55GD	LA00000066408	010784065JJK	19-Apr-13

6	3	70	6 T	55GD	LA00000066800	010784065JJK	19-Apr-13
6	3	70	6 T	55GD	LA00000066824	010784065JJK	19-Apr-13
6	3	70	6 T	55GD	LA00000066994	010784065JJK	19-Apr-13
6	3	70	6 T	55GD	LA00000067015	010784065JJK	19-Apr-13
6	3	70	6 T	55GD	LA00000067016	010784065JJK	19-Apr-13
6	3	71	1 B	SWB	SR54064304	000148344MWI	20-Apr-13
6	3	71	1 M	SWB	SR50207501	000148344MWI	20-Apr-13
6	3	71	1 T	55GD	LA00000065377	010784065JJK	20-Apr-13
6	3	71	1 T	55GD	LA00000066414	010784065JJK	20-Apr-13
6	3	71	1 T	55GD	LA00000066665	010784065JJK	20-Apr-13
6	3	71	1 T	55GD	LA00000066744	010784065JJK	20-Apr-13
6	3	71	1 T	55GD	LA00000066779	010784065JJK	20-Apr-13
6	3	71	1 T	55GD	LA00000066810	010784065JJK	20-Apr-13
6	3	71	1 T	55GD	LA00000091991	010784065JJK	20-Apr-13
6	3	71	3 B	SWB	SR51782008	000148344MWI	19-Apr-13
6	3	71	3 M	SWB	WMAPSWB546	000148344MWI	19-Apr-13
6	3	71	3 T	SWB	SR500488A	000148340MWI	19-Apr-13
6	3	71	5 B	SWB	WMAPSWB559	000148340MWI	19-Apr-13
6	3	71	5 M	SWB	WMPSLB053A	000148340MWI	19-Apr-13
6	3	71	5 T	SWB	SR54064303	000148340MWI	19-Apr-13
6	3	73	1 B	SLB2	SR21524411	001077792GBF	20-Apr-13
6	3	73	1 T	SWB	SWD12234	000148342MWI	20-Apr-13
6	3	73	3 B	SLB2	SR54300703	000148345MWI	20-Apr-13
6	3	73	3 T	SWB	SWD12010	000148346MWI	20-Apr-13
6	3	73	5 B	SLB2	WMAPSLB021	000148343MWI	20-Apr-13
6	3	73	5 T	SWB	SWD061629	000148346MWI	20-Apr-13
6	3	74	2 B	SWB	BN10468392	001600668GBF	21-Apr-13
6	3	74	2 M	SWB	BN10468394	001600668GBF	21-Apr-13
6	3	74	2 T	100GD	BN10435873	001600669GBF	21-Apr-13
6	3	74	2 T	100GD	BN10452137	001600669GBF	21-Apr-13
6	3	74	2 T	100GD	BN10470155	001600669GBF	21-Apr-13
6	3	74	4 B	SWB	SB10098	010784065JJK	20-Apr-13
6	3	74	4 M	SWB	LA00000092979	010784065JJK	20-Apr-13
6	3	74	4 T	100GD	BN10470156	001600669GBF	21-Apr-13
6	3	74	4 T	100GD	BN10472019	001600669GBF	21-Apr-13
6	3	74	4 T	100GD	BN10476419	001600669GBF	21-Apr-13
6	3	74	6 B	SWB	SR54064306	000148346MWI	20-Apr-13
6	3	74	6 M	SWB	SR55680805	000148346MWI	20-Apr-13
6	3	74	6 T	SWB	SR21524415	000148342MWI	20-Apr-13
6	3	75	1 B	12-in POP	HBL110201	000148350MWI	21-Apr-13
6	3	75	1 B	12-in POP	HBL110203	000148350MWI	21-Apr-13
6	3	75	1 B	12-in POP	HBL120011	000148350MWI	21-Apr-13
6	3	75	1 B	12-in POP	HBL120290	000148350MWI	21-Apr-13
6	3	75	1 B	12-in POP	HBL120409	000148350MWI	21-Apr-13
6	3	75	1 B	12-in POP	HBL120483	000148350MWI	21-Apr-13
6	3	75	1 B	12-in POP	HBL120523	000148350MWI	21-Apr-13
6	3	75	1 M	12-in POP	HBL110202	000148350MWI	21-Apr-13

6	3	75	1 M	12-in POP	HBL120020	000148350MWI	21-Apr-13
6	3	75	1 M	12-in POP	HBL120046	000148350MWI	21-Apr-13
6	3	75	1 M	12-in POP	HBL120061	000148350MWI	21-Apr-13
6	3	75	1 M	12-in POP	HBL120063	000148350MWI	21-Apr-13
6	3	75	1 M	55GD	SRSDUN668	000148350MWI	21-Apr-13
6	3	75	1 M	55GD	SRSDUN669	000148350MWI	21-Apr-13
6	3	75	1 T	55GD	LA00000066499	010784066JJK	21-Apr-13
6	3	75	1 T	55GD	LA00000066676	010784066JJK	21-Apr-13
6	3	75	1 T	55GD	LA00000066806	010784066JJK	21-Apr-13
6	3	75	1 T	55GD	LA00000066890	010784066JJK	21-Apr-13
6	3	75	1 T	55GD	LA00000092133	010784066JJK	21-Apr-13
6	3	75	1 T	55GD	LA00000092341	010784066JJK	21-Apr-13
6	3	75	1 T	55GD	LA00000092364	010784066JJK	21-Apr-13
6	3	75	3 B	12-in POP	HBL120256	000148350MWI	21-Apr-13
6	3	75	3 B	12-in POP	HBL120263	000148350MWI	21-Apr-13
6	3	75	3 B	12-in POP	HBL120268	000148350MWI	21-Apr-13
6	3	75	3 B	12-in POP	HBL120269	000148350MWI	21-Apr-13
6	3	75	3 B	12-in POP	HBL120283	000148350MWI	21-Apr-13
6	3	75	3 B	12-in POP	HBL120285	000148350MWI	21-Apr-13
6	3	75	3 B	12-in POP	HBL120287	000148350MWI	21-Apr-13
6	3	75	3 M	12-in POP	HBL110130	000148350MWI	21-Apr-13
6	3	75	3 M	12-in POP	HBL120009	000148350MWI	21-Apr-13
6	3	75	3 M	12-in POP	HBL120069	000148350MWI	21-Apr-13
6	3	75	3 M	12-in POP	HBL120125	000148350MWI	21-Apr-13
6	3	75	3 M	12-in POP	HBL120254	000148350MWI	21-Apr-13
6	3	75	3 M	12-in POP	HBL120255	000148350MWI	21-Apr-13
6	3	75	3 M	55GD	SRSDUN665	000148350MWI	21-Apr-13
6	3	75	3 T	55GD	LA00000066413	010784066JJK	21-Apr-13
6	3	75	3 T	55GD	LA00000066988	010784066JJK	21-Apr-13
6	3	75	3 T	55GD	LA00000085524	010784066JJK	21-Apr-13
6	3	75	3 T	55GD	LA00000092315	010784066JJK	21-Apr-13
6	3	75	3 T	55GD	LA00000092376	010784066JJK	21-Apr-13
6	3	75	3 T	55GD	LA00000092463	010784066JJK	21-Apr-13
6	3	75	3 T	55GD	LA00000092474	010784066JJK	21-Apr-13
6	3	75	5 B	SWB	SR54064309	000148346MWI	21-Apr-13
6	3	75	5 M	SWB	WMAPSWB543	000148346MWI	21-Apr-13
6	3	75	5 T	12-in POP	HBL120053	000148350MWI	23-Apr-13
6	3	75	5 T	12-in POP	HBL120057	000148350MWI	23-Apr-13
6	3	75	5 T	12-in POP	HBL120279	000148350MWI	23-Apr-13
6	3	75	5 T	12-in POP	HBL120282	000148350MWI	23-Apr-13
6	3	75	5 T	12-in POP	HBL120286	000148350MWI	23-Apr-13
6	3	75	5 T	12-in POP	HBL120299	000148350MWI	23-Apr-13
6	3	75	5 T	12-in POP	HBL120300	000148350MWI	23-Apr-13
6	3	76	2 B	SWB	SB10102	010784066JJK	21-Apr-13
6	3	76	2 M	SWB	LA00000093010	010784066JJK	21-Apr-13
6	3	76	2 T	12-in POP	HBL120059	000148350MWI	23-Apr-13
6	3	76	2 T	12-in POP	HBL120258	000148350MWI	23-Apr-13

6	3	76	2 T	12-in POP	HBL120265	000148350MWI	23-Apr-13
6	3	76	2 T	12-in POP	HBL120275	000148350MWI	23-Apr-13
6	3	76	2 T	12-in POP	HBL120295	000148350MWI	23-Apr-13
6	3	76	2 T	55GD	SRSDUN666	000148350MWI	23-Apr-13
6	3	76	2 T	55GD	SRSDUN667	000148350MWI	23-Apr-13
6	3	76	4 B	55GD	BCSWB02B	000148348MWI	23-Apr-13
6	3	76	4 B	55GD	BCSWB02C	000148348MWI	23-Apr-13
6	3	76	4 B	55GD	FCA080003A	000148348MWI	23-Apr-13
6	3	76	4 B	55GD	FCA080006	000148348MWI	23-Apr-13
6	3	76	4 B	55GD	FCA080006A	000148348MWI	23-Apr-13
6	3	76	4 B	55GD	FCA080007A	000148348MWI	23-Apr-13
6	3	76	4 B	55GD	FCA080008B	000148348MWI	23-Apr-13
6	3	76	4 M	55GD	772F120001	000148348MWI	23-Apr-13
6	3	76	4 M	55GD	772F120018	000148348MWI	23-Apr-13
6	3	76	4 M	55GD	BCSWB02D	000148348MWI	23-Apr-13
6	3	76	4 M	55GD	BCSWB02E	000148348MWI	23-Apr-13
6	3	76	4 M	55GD	BCSWB06C	000148348MWI	23-Apr-13
6	3	76	4 M	55GD	FCA080008A	000148348MWI	23-Apr-13
6	3	76	4 M	55GD	HBL060079	000148348MWI	23-Apr-13
6	3	76	4 T	100GD	BN10466284	001600673GBF	23-Apr-13
6	3	76	4 T	100GD	BN10474877	001600673GBF	23-Apr-13
6	3	76	4 T	100GD	BN10475244	001600673GBF	23-Apr-13
6	3	76	6 B	100GD	BN10474750	001600665GBF	23-Apr-13
6	3	76	6 B	100GD	BN10476203	001600665GBF	23-Apr-13
6	3	76	6 B	100GD	BN10476210	001600665GBF	23-Apr-13
6	3	76	6 M	100GD	BN10474742	001600665GBF	23-Apr-13
6	3	76	6 M	100GD	BN10474748	001600665GBF	23-Apr-13
6	3	76	6 M	100GD	BN10475575	001600665GBF	23-Apr-13
6	3	76	6 T	55GD	BN10199951	001600665GBF	23-Apr-13
6	3	76	6 T	55GD	BN10199952	001600665GBF	23-Apr-13
6	3	76	6 T	55GD	BN10207342	001600665GBF	23-Apr-13
6	3	76	6 T	55GD	BN10213477	001600665GBF	23-Apr-13
6	3	76	6 T	55GD	BN10213606	001600665GBF	23-Apr-13
6	3	76	6 T	55GD	BN10357185	001600665GBF	23-Apr-13
6	3	76	6 T	55GD	BN10383643	001600665GBF	23-Apr-13
6	3	78	2 B	SLB2	SR54300701	000148351MWI	25-Apr-13
6	3	78	2 T	SWB	LASB01949	010784067JJK	25-Apr-13
6	3	78	4 B	SLB2	SR54064312	000148347MWI	25-Apr-13
6	3	78	4 T	SWB	LASB01947	010784067JJK	25-Apr-13
6	3	78	6 B	SLB2	SR54300702	000148349MWI	25-Apr-13
6	3	78	6 T	100GD	BN10469839	001600675GBF	25-Apr-13
6	3	78	6 T	100GD	BN10472097	001600675GBF	25-Apr-13
6	3	78	6 T	100GD	BN10472103	001600675GBF	25-Apr-13
6	3	79	1 B	SWB	WMAPSWB060	000148352MWI	25-Apr-13
6	3	79	1 M	SWB	WMAPSWB471	000148352MWI	25-Apr-13
6	3	79	1 T	55GD	SR46023V	000148348MWI	26-Apr-13
6	3	79	1 T	55GD	SR514324B	000148348MWI	26-Apr-13

6	3	79	1 T	55GD	SR523950A	000148348MWI	26-Apr-13
6	3	79	1 T	55GD	SR57169318	000148348MWI	26-Apr-13
6	3	79	1 T	55GD	SR66230	000148348MWI	26-Apr-13
6	3	79	1 T	55GD	SWD11222	000148348MWI	26-Apr-13
6	3	79	1 T	55GD	SWD11440	000148348MWI	26-Apr-13
6	3	79	3 B	SWB	FBL03221	000148352MWI	25-Apr-13
6	3	79	3 M	SWB	SWD12060	000148352MWI	25-Apr-13
6	3	79	3 T	55GD	SR118870C	000148348MWI	26-Apr-13
6	3	79	3 T	55GD	SR46005J	000148348MWI	26-Apr-13
6	3	79	3 T	55GD	SR509850E	000148348MWI	26-Apr-13
6	3	79	3 T	55GD	SR57053427	000148348MWI	26-Apr-13
6	3	79	3 T	55GD	SR61016221	000148348MWI	26-Apr-13
6	3	79	3 T	55GD	SWD12163	000148348MWI	26-Apr-13
6	3	79	3 T	55GD	SWD12169	000148348MWI	26-Apr-13
6	3	79	5 B	55GD	HBL090015	000148348MWI	26-Apr-13
6	3	79	5 B	55GD	HBL090021	000148348MWI	26-Apr-13
6	3	79	5 B	55GD	MDL011079	000148348MWI	26-Apr-13
6	3	79	5 B	55GD	SR32369305	000148348MWI	26-Apr-13
6	3	79	5 B	55GD	SR46032UA	000148348MWI	26-Apr-13
6	3	79	5 B	55GD	SR46033W	000148348MWI	26-Apr-13
6	3	79	5 B	55GD	SR46050W	000148348MWI	26-Apr-13
6	3	79	5 M	55GD	HBL110034	000148348MWI	26-Apr-13
6	3	79	5 M	55GD	HBL110038	000148348MWI	26-Apr-13
6	3	79	5 M	55GD	SR148963	000148348MWI	26-Apr-13
6	3	79	5 M	55GD	SR46072T	000148348MWI	26-Apr-13
6	3	79	5 M	55GD	SR46079RD	000148348MWI	26-Apr-13
6	3	79	5 M	55GD	SR46079UA	000148348MWI	26-Apr-13
6	3	79	5 M	55GD	SR503700B	000148348MWI	26-Apr-13
6	3	79	5 T	100GD	BN10476207	001600678GBF	26-Apr-13
6	3	79	5 T	100GD	BN10476426	001600678GBF	26-Apr-13
6	3	79	5 T	100GD	BN10476712	001600678GBF	26-Apr-13
6	3	80	2 B	SWB	SR54300708	000148352MWI	26-Apr-13
6	3	80	2 M	SWB	SR598204A	000148352MWI	26-Apr-13
6	3	80	2 T	100GD	BN10475247	001600678GBF	26-Apr-13
6	3	80	2 T	100GD	BN10476199	001600678GBF	26-Apr-13
6	3	80	2 T	100GD	BN10476204	001600678GBF	26-Apr-13
6	3	80	4 B	55GD	ARP70898	001601299GBF	26-Apr-13
6	3	80	4 B	55GD	ARP70911	001601299GBF	26-Apr-13
6	3	80	4 B	55GD	ARP71018	001601299GBF	26-Apr-13
6	3	80	4 B	55GD	ARP71184	001601299GBF	26-Apr-13
6	3	80	4 B	55GD	ARP71266	001601299GBF	26-Apr-13
6	3	80	4 B	55GD	ARP71268	001601299GBF	26-Apr-13
6	3	80	4 B	55GD	ARP71272	001601299GBF	26-Apr-13
6	3	80	4 M	55GD	ARP71127	001601299GBF	26-Apr-13
6	3	80	4 M	55GD	ARP71175	001601299GBF	26-Apr-13
6	3	80	4 M	55GD	ARP71176	001601299GBF	26-Apr-13
6	3	80	4 M	55GD	ARP71204	001601299GBF	26-Apr-13

6	3	80	4 M	55GD	ARP71206	001601299GBF	26-Apr-13
6	3	80	4 M	55GD	ARP71261	001601299GBF	26-Apr-13
6	3	80	4 M	55GD	ARP71271	001601299GBF	26-Apr-13
6	3	80	4 T	100GD	BN10469838	001601299GBF	26-Apr-13
6	3	80	4 T	100GD	BN10470050	001601299GBF	26-Apr-13
6	3	80	4 T	100GD	BN10472579	001601299GBF	26-Apr-13
6	3	80	6 B	55GD	ARP70799	001600676GBF	26-Apr-13
6	3	80	6 B	55GD	ARP71091	001600676GBF	26-Apr-13
6	3	80	6 B	55GD	ARP71130	001600676GBF	26-Apr-13
6	3	80	6 B	55GD	ARP71135	001600676GBF	26-Apr-13
6	3	80	6 B	55GD	ARP71151	001600676GBF	26-Apr-13
6	3	80	6 B	55GD	ARP71171	001600676GBF	26-Apr-13
6	3	80	6 B	55GD	ARP71200	001600676GBF	26-Apr-13
6	3	80	6 M	55GD	ARP70919	001600676GBF	26-Apr-13
6	3	80	6 M	55GD	ARP70921	001600676GBF	26-Apr-13
6	3	80	6 M	55GD	ARP71023	001600676GBF	26-Apr-13
6	3	80	6 M	55GD	ARP71110	001600676GBF	26-Apr-13
6	3	80	6 M	55GD	ARP71155	001600676GBF	26-Apr-13
6	3	80	6 M	55GD	ARP71161	001600676GBF	26-Apr-13
6	3	80	6 M	55GD	ARP71163	001600676GBF	26-Apr-13
6	3	80	6 T	100GD	BN10441731	001600676GBF	26-Apr-13
6	3	80	6 T	100GD	BN10473355	001600676GBF	26-Apr-13
6	3	80	6 T	100GD	BN10477291	001600676GBF	26-Apr-13
6	3	81	1 B	55GD	ARP71081	001601299GBF	27-Apr-13
6	3	81	1 B	55GD	ARP71097	001601299GBF	27-Apr-13
6	3	81	1 B	55GD	ARP71107	001601299GBF	27-Apr-13
6	3	81	1 B	55GD	ARP71121	001601299GBF	27-Apr-13
6	3	81	1 B	55GD	ARP71207	001601299GBF	27-Apr-13
6	3	81	1 B	55GD	ARP71208	001601299GBF	27-Apr-13
6	3	81	1 B	55GD	ARP71274	001601299GBF	27-Apr-13
6	3	81	1 M	55GD	ARP71106	001601299GBF	27-Apr-13
6	3	81	1 M	55GD	ARP71157	001601299GBF	27-Apr-13
6	3	81	1 M	55GD	ARP71164	001601299GBF	27-Apr-13
6	3	81	1 M	55GD	ARP71188	001601299GBF	27-Apr-13
6	3	81	1 M	55GD	ARP71189	001601299GBF	27-Apr-13
6	3	81	1 M	55GD	ARP71259	001601299GBF	27-Apr-13
6	3	81	1 M	55GD	ARP71265	001601299GBF	27-Apr-13
6	3	81	1 T	SWB	LASB01921	010784067JJK	27-Apr-13
6	3	81	3 B	100GD	BN10470152	001600678GBF	27-Apr-13
6	3	81	3 B	100GD	BN10477129	001600678GBF	27-Apr-13
6	3	81	3 B	100GD	BN10477296	001600678GBF	27-Apr-13
6	3	81	3 M	100GD	BN10477297	001600678GBF	27-Apr-13
6	3	81	3 M	100GD	BN10477404	001600678GBF	27-Apr-13
6	3	81	3 M	100GD	BN10479291	001600678GBF	27-Apr-13
6	3	81	3 T	100GD	BN10475474	001600678GBF	27-Apr-13
6	3	81	3 T	100GD	BN10475637	001600678GBF	27-Apr-13
6	3	81	3 T	100GD	BN10475683	001600678GBF	27-Apr-13

6	3	81	5 B	SWB	BN10471456	001600677GBF	27-Apr-13
6	3	81	5 M	SWB	BN10471453	001600677GBF	27-Apr-13
6	3	81	5 T	SWB	BN10471163	001600677GBF	27-Apr-13
6	3	82	2 B	12-in POP	LA00000061249	010784068JJK	27-Apr-13
6	3	82	2 B	12-in POP	LA00000063361	010784068JJK	27-Apr-13
6	3	82	2 B	12-in POP	LA00000066917	010784068JJK	27-Apr-13
6	3	82	2 B	12-in POP	LA00000082360	010784068JJK	27-Apr-13
6	3	82	2 B	12-in POP	LA00000090740	010784068JJK	27-Apr-13
6	3	82	2 B	12-in POP	LA00000090741	010784068JJK	27-Apr-13
6	3	82	2 B	12-in POP	LA00000090963	010784068JJK	27-Apr-13
6	3	82	2 M	12-in POP	LA00000066748	010784068JJK	27-Apr-13
6	3	82	2 M	12-in POP	LA00000066752	010784068JJK	27-Apr-13
6	3	82	2 M	12-in POP	LA00000066932	010784068JJK	27-Apr-13
6	3	82	2 M	12-in POP	LA00000066933	010784068JJK	27-Apr-13
6	3	82	2 M	12-in POP	LA00000066934	010784068JJK	27-Apr-13
6	3	82	2 M	12-in POP	LA00000066939	010784068JJK	27-Apr-13
6	3	82	2 M	12-in POP	LA00000067078	010784068JJK	27-Apr-13
6	3	82	2 T	SWB	BN10471162	001600677GBF	28-Apr-13
6	3	82	4 B	SWB	SR46072N	000148353MWI	27-Apr-13
6	3	82	4 M	SWB	SR46024WB	000148353MWI	27-Apr-13
6	3	82	4 T	SWB	BN10471165	001600677GBF	28-Apr-13
6	3	82	6 B	55GD	ARP71039	001600676GBF	28-Apr-13
6	3	82	6 B	55GD	ARP71122	001600676GBF	28-Apr-13
6	3	82	6 B	55GD	ARP71181	001600676GBF	28-Apr-13
6	3	82	6 B	55GD	ARP71194	001600676GBF	28-Apr-13
6	3	82	6 B	55GD	ARP71199	001600676GBF	28-Apr-13
6	3	82	6 B	55GD	ARP71202	001600676GBF	28-Apr-13
6	3	82	6 B	55GD	ARP71260	001600676GBF	28-Apr-13
6	3	82	6 M	55GD	ARP71008	001600676GBF	28-Apr-13
6	3	82	6 M	55GD	ARP71066	001600676GBF	28-Apr-13
6	3	82	6 M	55GD	ARP71102	001600676GBF	28-Apr-13
6	3	82	6 M	55GD	ARP71169	001600676GBF	28-Apr-13
6	3	82	6 M	55GD	ARP71253	001600676GBF	28-Apr-13
6	3	82	6 M	55GD	ARP71258	001600676GBF	28-Apr-13
6	3	82	6 M	55GD	ARP71270	001600676GBF	28-Apr-13
6	3	82	6 T	SWB	SR46008C	000148353MWI	28-Apr-13
6	3	83	1 B	12-in POP	LA00000091491	010784068JJK	28-Apr-13
6	3	83	1 B	12-in POP	LA00000091940	010784068JJK	28-Apr-13
6	3	83	1 B	12-in POP	LA00000091976	010784068JJK	28-Apr-13
6	3	83	1 B	12-in POP	LA00000091977	010784068JJK	28-Apr-13
6	3	83	1 B	12-in POP	LA00000091978	010784068JJK	28-Apr-13
6	3	83	1 B	12-in POP	LA00000091979	010784068JJK	28-Apr-13
6	3	83	1 B	12-in POP	LA00000091992	010784068JJK	28-Apr-13
6	3	83	1 M	12-in POP	LA00000091060	010784068JJK	28-Apr-13
6	3	83	1 M	12-in POP	LA00000091816	010784068JJK	28-Apr-13
6	3	83	1 M	12-in POP	LA00000091868	010784068JJK	28-Apr-13
6	3	83	1 M	12-in POP	LA00000091869	010784068JJK	28-Apr-13

6	3	83	1 M	12-in POP	LA00000091883	010784068JJK	28-Apr-13
6	3	83	1 M	12-in POP	LA00000091910	010784068JJK	28-Apr-13
6	3	83	1 M	12-in POP	LA00000091957	010784068JJK	28-Apr-13
6	3	83	1 T	SWB	SR46008D	000148353MWI	28-Apr-13
6	3	83	3 B	12-in POP	LA00000058688	010784069JJK	28-Apr-13
6	3	83	3 B	12-in POP	LA00000061506	010784069JJK	28-Apr-13
6	3	83	3 B	12-in POP	LA00000062313	010784069JJK	28-Apr-13
6	3	83	3 B	12-in POP	LA00000066726	010784069JJK	28-Apr-13
6	3	83	3 B	12-in POP	LA00000066727	010784069JJK	28-Apr-13
6	3	83	3 B	12-in POP	LA00000066729	010784069JJK	28-Apr-13
6	3	83	3 B	12-in POP	LA00000093037	010784069JJK	28-Apr-13
6	3	83	3 M	12-in POP	LA00000058689	010784069JJK	28-Apr-13
6	3	83	3 M	12-in POP	LA00000061443	010784069JJK	28-Apr-13
6	3	83	3 M	12-in POP	LA00000061444	010784069JJK	28-Apr-13
6	3	83	3 M	12-in POP	LA00000090220	010784069JJK	28-Apr-13
6	3	83	3 M	12-in POP	LA00000091069	010784069JJK	28-Apr-13
6	3	83	3 M	12-in POP	LA00000091488	010784069JJK	28-Apr-13
6	3	83	3 M	12-in POP	LA00000091933	010784069JJK	28-Apr-13
6	3	83	3 T	SWB	WMAPSWB454	000148359MWI	1-May-13
6	3	83	5 B	12-in POP	LA00000091615	010784069JJK	28-Apr-13
6	3	83	5 B	12-in POP	LA00000091620	010784069JJK	28-Apr-13
6	3	83	5 B	12-in POP	LA00000091631	010784069JJK	28-Apr-13
6	3	83	5 B	12-in POP	LA00000091839	010784069JJK	28-Apr-13
6	3	83	5 B	12-in POP	LA00000091841	010784069JJK	28-Apr-13
6	3	83	5 B	12-in POP	LA00000091847	010784069JJK	28-Apr-13
6	3	83	5 B	12-in POP	LA00000091951	010784069JJK	28-Apr-13
6	3	83	5 M	12-in POP	LA00000091616	010784069JJK	28-Apr-13
6	3	83	5 M	12-in POP	LA00000091621	010784069JJK	28-Apr-13
6	3	83	5 M	12-in POP	LA00000091629	010784069JJK	28-Apr-13
6	3	83	5 M	12-in POP	LA00000091632	010784069JJK	28-Apr-13
6	3	83	5 M	12-in POP	LA00000091842	010784069JJK	28-Apr-13
6	3	83	5 M	12-in POP	LA00000091845	010784069JJK	28-Apr-13
6	3	83	5 M	12-in POP	LA00000091846	010784069JJK	28-Apr-13
6	3	83	5 T	100GD	BN10476201	001600679GBF	1-May-13
6	3	83	5 T	100GD	BN10476202	001600679GBF	1-May-13
6	3	83	5 T	100GD	BN10476206	001600679GBF	1-May-13
6	3	84	4 B	SWB	WMAPSWB452	000148357MWI	1-May-13
6	3	84	4 M	SWB	WMAPSWB186	000148357MWI	1-May-13
6	3	84	4 T	100GD	BN10477292	001600679GBF	1-May-13
6	3	84	4 T	100GD	BN10477513	001600679GBF	1-May-13
6	3	84	4 T	100GD	BN10477515	001600679GBF	1-May-13
6	3	84	6 B	SWB	SR54300606	000148357MWI	1-May-13
6	3	84	6 M	SWB	SR57171712	000148357MWI	1-May-13
6	3	84	6 T	100GD	BN10476363	001600679GBF	1-May-13
6	3	84	6 T	100GD	BN10478986	001600679GBF	1-May-13
6	3	84	6 T	100GD	BN10478993	001600679GBF	1-May-13
6	3	85	1 B	SLB2	SR51647402	000148354MWI	28-Apr-13

6	3	85	1 T	SWB	WMAPSWB502	000148359MWI	1-May-13
6	3	85	3 B	12-in POP	LA00000091416	010748070JJK	1-May-13
6	3	85	3 B	12-in POP	LA00000091417	010748070JJK	1-May-13
6	3	85	3 B	12-in POP	LA00000091420	010748070JJK	1-May-13
6	3	85	3 B	12-in POP	LA00000091421	010748070JJK	1-May-13
6	3	85	3 B	12-in POP	LA00000091422	010748070JJK	1-May-13
6	3	85	3 B	12-in POP	LA00000091424	010748070JJK	1-May-13
6	3	85	3 B	12-in POP	LA00000091611	010748070JJK	1-May-13
6	3	85	3 M	12-in POP	LA00000091414	010748070JJK	1-May-13
6	3	85	3 M	12-in POP	LA00000091423	010748070JJK	1-May-13
6	3	85	3 M	12-in POP	LA00000091427	010748070JJK	1-May-13
6	3	85	3 M	12-in POP	LA00000091428	010748070JJK	1-May-13
6	3	85	3 M	12-in POP	LA00000092723	010748070JJK	1-May-13
6	3	85	3 M	12-in POP	LA00000092730	010748070JJK	1-May-13
6	3	85	3 M	12-in POP	LA00000092731	010748070JJK	1-May-13
6	3	85	3 T	SWB	SR51782012	000148355MWI	1-May-13
6	3	85	5 B	SWB	WMAPSWB542	000148355MWI	1-May-13
6	3	85	5 M	SWB	SWD11369	000148355MWI	1-May-13
6	3	85	5 T	SWB	SR503113D	000148355MWI	1-May-13
6	3	86	2 B	12-in POP	LA00000091402	010748070JJK	1-May-13
6	3	86	2 B	12-in POP	LA00000092997	010748070JJK	1-May-13
6	3	86	2 B	12-in POP	LA00000093018	010748070JJK	1-May-13
6	3	86	2 B	12-in POP	LA00000093020	010748070JJK	1-May-13
6	3	86	2 B	12-in POP	LA00000093021	010748070JJK	1-May-13
6	3	86	2 B	12-in POP	LA00000093038	010748070JJK	1-May-13
6	3	86	2 B	12-in POP	LA00000093108	010748070JJK	1-May-13
6	3	86	2 M	12-in POP	LA00000090676	010748070JJK	1-May-13
6	3	86	2 M	12-in POP	LA00000090742	010748070JJK	1-May-13
6	3	86	2 M	12-in POP	LA00000091405	010748070JJK	1-May-13
6	3	86	2 M	12-in POP	LA00000091409	010748070JJK	1-May-13
6	3	86	2 M	12-in POP	LA00000091410	010748070JJK	1-May-13
6	3	86	2 M	12-in POP	LA00000091411	010748070JJK	1-May-13
6	3	86	2 M	12-in POP	LA00000092998	010748070JJK	1-May-13
6	3	86	2 T	100GD	BN10480047	001600681GBF	2-May-13
6	3	86	2 T	100GD	BN10480367	001600681GBF	2-May-13
6	3	86	2 T	100GD	BN10481331	001600681GBF	2-May-13
6	3	86	4 B	SWB	SR505213	000148355MWI	1-May-13
6	3	86	4 M	SWB	SR500706	000148355MWI	1-May-13
6	3	86	4 T	100GD	BN10476366	001600679GBF	1-May-13
6	3	86	4 T	100GD	BN10476372	001600679GBF	1-May-13
6	3	86	4 T	100GD	BN10478985	001600679GBF	1-May-13
6	3	86	6 B	SWB	WMAPSWB190	000148357MWI	1-May-13
6	3	86	6 M	SWB	WMAPSWB538	000148357MWI	1-May-13
6	3	86	6 T	100GD	BN10476364	001600679GBF	1-May-13
6	3	86	6 T	100GD	BN10477294	001600679GBF	1-May-13
6	3	86	6 T	100GD	BN10477517	001600679GBF	1-May-13
6	3	87	1 B	SWB	BN10439625	001600683GBF	2-May-13

6	3	87	1	M	SWB	BN10439626	001600683GBF	2-May-13
6	3	87	1	T	SWB	BN10471168	001600683GBF	2-May-13
6	3	87	3	B	100GD	BN10469841	001600682GBF	2-May-13
6	3	87	3	B	100GD	BN10472101	001600682GBF	2-May-13
6	3	87	3	B	100GD	BN10472105	001600682GBF	2-May-13
6	3	87	3	M	100GD	BN10476245	001600682GBF	2-May-13
6	3	87	3	M	100GD	BN10478307	001600682GBF	2-May-13
6	3	87	3	M	100GD	BN10478609	001600682GBF	2-May-13
6	3	87	3	T	100GD	BN10477519	001600682GBF	2-May-13
6	3	87	3	T	100GD	BN10478983	001600682GBF	2-May-13
6	3	87	3	T	100GD	BN10478987	001600682GBF	2-May-13
6	3	87	5	B	SWB	BN10469825	001600683GBF	2-May-13
6	3	87	5	M	SWB	BN10471161	001600683GBF	2-May-13
6	3	87	5	T	100GD	BN10479500	001600681GBF	2-May-13
6	3	87	5	T	100GD	BN10479504	001600681GBF	2-May-13
6	3	87	5	T	100GD	BN10481125	001600681GBF	2-May-13
6	3	88	2	B	SWB	TEMP15A	000148359MWI	2-May-13
6	3	88	2	M	SWB	SR910057A	000148359MWI	2-May-13
6	3	88	2	T	100GD	BN10478730	001600681GBF	2-May-13
6	3	88	2	T	100GD	BN10478984	001600681GBF	2-May-13
6	3	88	2	T	100GD	BN10478988	001600681GBF	2-May-13
6	3	88	4	B	55GD	ARP71072	001600680GBF	3-May-13
6	3	88	4	B	55GD	ARP71092	001600680GBF	3-May-13
6	3	88	4	B	55GD	ARP71099	001600680GBF	3-May-13
6	3	88	4	B	55GD	ARP71126	001600680GBF	3-May-13
6	3	88	4	B	55GD	ARP71178	001600680GBF	3-May-13
6	3	88	4	B	55GD	ARP71190	001600680GBF	3-May-13
6	3	88	4	B	55GD	ARP71251	001600680GBF	3-May-13
6	3	88	4	M	55GD	ARP70451	001600680GBF	3-May-13
6	3	88	4	M	55GD	ARP71103	001600680GBF	3-May-13
6	3	88	4	M	55GD	ARP71119	001600680GBF	3-May-13
6	3	88	4	M	55GD	ARP71123	001600680GBF	3-May-13
6	3	88	4	M	55GD	ARP71170	001600680GBF	3-May-13
6	3	88	4	M	55GD	ARP71197	001600680GBF	3-May-13
6	3	88	4	M	55GD	ARP71250	001600680GBF	3-May-13
6	3	88	4	T	100GD	BN10478288	001600686GBF	3-May-13
6	3	88	4	T	100GD	BN10478611	001600686GBF	3-May-13
6	3	88	4	T	100GD	BN10479494	001600686GBF	3-May-13
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6	3	88	6	M	SWB	SR55680802	000148359MWI	3-May-13
6	3	88	6	T	100GD	BN10479711	001600681GBF	3-May-13
6	3	88	6	T	100GD	BN10481021	001600681GBF	3-May-13
6	3	88	6	T	100GD	BN10481335	001600681GBF	3-May-13
6	3	89	1	B	100GD	BN10477928	001600682GBF	3-May-13
6	3	89	1	B	100GD	BN10478612	001600682GBF	3-May-13
6	3	89	1	B	100GD	BN10479491	001600682GBF	3-May-13
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6	3	89	1 M	100GD	BN10478308	001600682GBF	3-May-13
6	3	89	1 M	100GD	BN10479490	001600682GBF	3-May-13
6	3	89	1 T	100GD	BN10478615	001600686GBF	3-May-13
6	3	89	1 T	100GD	BN10479287	001600686GBF	3-May-13
6	3	89	1 T	100GD	BN10479295	001600686GBF	3-May-13
6	3	89	3 B	100GD	BN10477288	001600686GBF	3-May-13
6	3	89	3 B	100GD	BN10477298	001600686GBF	3-May-13
6	3	89	3 B	100GD	BN10478614	001600686GBF	3-May-13
6	3	89	3 M	100GD	BN10477407	001600686GBF	3-May-13
6	3	89	3 M	100GD	BN10477518	001600686GBF	3-May-13
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6	3	89	3 T	100GD	BN10478463	001600686GBF	3-May-13
6	3	89	3 T	100GD	BN10478726	001600686GBF	3-May-13
6	3	89	5 B	SWB	SR46008E	000148353MWI	3-May-13
6	3	89	5 M	SWB	SR14706109	000148353MWI	3-May-13
6	3	89	5 T	100GD	BN10481128	001600681GBF	3-May-13
6	3	89	5 T	100GD	BN10481338	001600681GBF	3-May-13
6	3	89	5 T	100GD	BN10481342	001600681GBF	3-May-13
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6	3	90	2 B	55GD	ARP71074	001600680GBF	4-May-13
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6	3	90	2 B	55GD	ARP71166	001600680GBF	4-May-13
6	3	90	2 B	55GD	ARP71173	001600680GBF	4-May-13
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6	3	90	4 B	55GD	ARP70642	001600684GBF	4-May-13
6	3	90	4 B	55GD	ARP70770	001600684GBF	4-May-13
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6	3	90	4 B	55GD	ARP70809	001600684GBF	4-May-13
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6	3	90	4 M	55GD	ARP70856	001600684GBF	4-May-13
6	3	90	4 M	55GD	ARP71024	001600684GBF	4-May-13
6	3	90	4 M	55GD	ARP71034	001600684GBF	4-May-13
6	3	90	4 M	55GD	ARP71036	001600684GBF	4-May-13

6	3	90	4 M	55GD	ARP71062	001600684GBF	4-May-13
6	3	90	4 M	55GD	ARP71063	001600684GBF	4-May-13
6	3	90	4 M	55GD	ARP71065	001600684GBF	4-May-13
6	3	90	4 T	55GD	LA00000066583	010784073JJK	4-May-13
6	3	90	4 T	55GD	LA00000066584	010784073JJK	4-May-13
6	3	90	4 T	55GD	LA00000092479	010784073JJK	4-May-13
6	3	90	4 T	55GD	LA00000092606	010784073JJK	4-May-13
6	3	90	4 T	55GD	LA00000092859	010784073JJK	4-May-13
6	3	90	4 T	55GD	LA00000093179	010784073JJK	4-May-13
6	3	90	4 T	55GD	LA00000093197	010784073JJK	4-May-13
6	3	90	6 B	SWB	LA00000060499	010784072JJK	4-May-13
6	3	90	6 M	SWB	LA00000093106	010784072JJK	4-May-13
6	3	90	6 T	100GD	BN10433911	001600685GBF	4-May-13
6	3	90	6 T	100GD	BN10457346	001600685GBF	4-May-13
6	3	90	6 T	100GD	BN10472020	001600685GBF	4-May-13
6	3	91	1 B	SWB	LA00000093121	010784072JJK	4-May-13
6	3	91	1 M	SWB	LA00000093122	010784072JJK	4-May-13
6	3	91	1 T	SWB	BN10466924	001600684GBF	4-May-13
6	3	91	3 B	100GD	BN10478291	001600685GBF	4-May-13
6	3	91	3 B	100GD	BN10478724	001600685GBF	4-May-13
6	3	91	3 B	100GD	BN10479492	001600685GBF	4-May-13
6	3	91	3 M	100GD	BN10477851	001600685GBF	4-May-13
6	3	91	3 M	100GD	BN10477860	001600685GBF	4-May-13
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6	3	91	3 T	100GD	BN10458635	001600685GBF	5-May-13
6	3	91	3 T	100GD	BN10470163	001600685GBF	5-May-13
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6	3	91	5 B	55GD	ARP71045	001600684GBF	4-May-13
6	3	91	5 B	55GD	ARP71046	001600684GBF	4-May-13
6	3	91	5 B	55GD	ARP71064	001600684GBF	4-May-13
6	3	91	5 B	55GD	ARP71069	001600684GBF	4-May-13
6	3	91	5 B	55GD	ARP71073	001600684GBF	4-May-13
6	3	91	5 B	55GD	ARP71085	001600684GBF	4-May-13
6	3	91	5 M	55GD	ARP70825	001600684GBF	4-May-13
6	3	91	5 M	55GD	ARP70901	001600684GBF	4-May-13
6	3	91	5 M	55GD	ARP70922	001600684GBF	4-May-13
6	3	91	5 M	55GD	ARP71042	001600684GBF	4-May-13
6	3	91	5 M	55GD	ARP71068	001600684GBF	4-May-13
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6	3	91	5 M	55GD	ARP71084	001600684GBF	4-May-13
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6	3	91	5 T	55GD	LA00000066987	010784073JJK	5-May-13
6	3	91	5 T	55GD	LA00000091486	010784073JJK	5-May-13
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6	3	91	5 T	55GD	LA00000092660	010784073JJK	5-May-13
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6	3	92	2 M	SWB	LA00000093167	010784074JJK	5-May-13
6	3	92	2 T	SWB	BN10439632	001600687GBF	5-May-13
6	3	92	4 B	55GD	LA00000066581	010784073JJK	5-May-13
6	3	92	4 B	55GD	LA00000066586	010784073JJK	5-May-13
6	3	92	4 B	55GD	LA00000067064	010784073JJK	5-May-13
6	3	92	4 B	55GD	LA00000090962	010784073JJK	5-May-13
6	3	92	4 B	55GD	LA00000092476	010784073JJK	5-May-13
6	3	92	4 B	55GD	LA00000092753	010784073JJK	5-May-13
6	3	92	4 B	55GD	LA00000093130	010784073JJK	5-May-13
6	3	92	4 M	SWB	LASB01956	010784074JJK	5-May-13
6	3	92	4 T	SWB	LA00000092944	010784074JJK	5-May-13
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6	3	92	6 B	100GD	BN10478459	001600687GBF	5-May-13
6	3	92	6 B	100GD	BN10479293	001600687GBF	5-May-13
6	3	92	6 M	100GD	BN10477931	001600687GBF	5-May-13
6	3	92	6 M	100GD	BN10478464	001600687GBF	5-May-13
6	3	92	6 M	100GD	BN10478732	001600687GBF	5-May-13
6	3	92	6 T	100GD	BN10451643	001600685GBF	5-May-13
6	3	92	6 T	100GD	BN10470157	001600685GBF	5-May-13
6	3	92	6 T	100GD	BN10470158	001600685GBF	5-May-13
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6	3	93	1 M	SWB	LA00000092942	010784075JJK	7-May-13
6	3	93	1 T	100GD	BN10482313	001600691GBF	8-May-13
6	3	93	1 T	100GD	BN10482974	001600691GBF	8-May-13
6	3	93	1 T	100GD	BN10483281	001600691GBF	8-May-13
6	3	93	3 B	TDOP	BN10441821	001600689GBF	5-May-13
6	3	93	3 T	SWB	LASB01942	010784075JJK	5-May-13
6	3	93	5 B	SWB	LASB01957	010784076JJK	7-May-13
6	3	93	5 M	SWB	LA00000093208	010784076JJK	7-May-13
6	3	93	5 T	100GD	BN10482209	001600691GBF	8-May-13
6	3	93	5 T	100GD	BN10482970	001600691GBF	8-May-13
6	3	93	5 T	100GD	BN10482976	001600691GBF	8-May-13
6	3	94	2 B	SWB	BN10439628	001600691GBF	7-May-13
6	3	94	2 M	SWB	BN10439627	001600689GBF	7-May-13
6	3	94	2 T	100GD	BN10478293	001600692GBF	8-May-13
6	3	94	2 T	100GD	BN10478294	001600692GBF	8-May-13
6	3	94	2 T	100GD	BN10478607	001600692GBF	8-May-13
6	3	94	4 B	TDOP	BN10489107	001600693GBF	8-May-13
6	3	94	4 T	100GD	BN10478306	001600692GBF	8-May-13
6	3	94	4 T	100GD	BN10478466	001600692GBF	8-May-13
6	3	94	4 T	100GD	BN10479286	001600692GBF	8-May-13
6	3	94	6 B	TDOP	BN10489103	001600690GBF	8-May-13
6	3	94	6 T	100GD	BN10478302	001600688GBF	9-May-13
6	3	94	6 T	100GD	BN10478610	001600688GBF	9-May-13
6	3	94	6 T	100GD	BN10478731	001600688GBF	9-May-13

6	3	95	1 B	TDOP	BN10441823	001600689GBF	8-May-13
6	3	95	1 T	100GD	BN10478618	001600688GBF	9-May-13
6	3	95	1 T	100GD	BN10478727	001600688GBF	9-May-13
6	3	95	1 T	100GD	BN10479294	001600688GBF	9-May-13
6	3	95	3 B	TDOP	BN10489108	001600690GBF	9-May-13
6	3	95	3 T	100GD	BN10481341	001600691GBF	9-May-13
6	3	95	3 T	100GD	BN10482804	001600691GBF	9-May-13
6	3	95	3 T	100GD	BN10482975	001600691GBF	9-May-13
6	3	95	5 B	100GD	BN10482204	001600694GBF	9-May-13
6	3	95	5 B	100GD	BN10482306	001600694GBF	9-May-13
6	3	95	5 B	100GD	BN10482967	001600694GBF	9-May-13
6	3	95	5 M	100GD	BN10482201	001600694GBF	9-May-13
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6	3	95	5 T	100GD	BN10482311	001600691GBF	9-May-13
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6	3	95	5 T	100GD	BN10482977	001600691GBF	9-May-13
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6	3	96	2 T	55GD	LA00000065515	010784072JJK	10-May-13
6	3	96	2 T	55GD	LA00000066496	010784072JJK	10-May-13
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6	3	96	2 T	55GD	LA00000066989	010784072JJK	10-May-13
6	3	96	2 T	55GD	LA00000066996	010784072JJK	10-May-13
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6	3	96	4 M	SWB	LASB01945	010784076JJK	9-May-13
6	3	96	4 T	100GD	BN10478465	001600688GBF	10-May-13
6	3	96	4 T	100GD	BN10478733	001600688GBF	10-May-13
6	3	96	4 T	100GD	BN10479292	001600688GBF	10-May-13
6	3	96	6 B	SWB	LASB01953	010784074JJK	10-May-13
6	3	96	6 M	SWB	LA00000092967	010784074JJK	10-May-13
6	3	96	6 T	100GD	BN10480368	001600692GBF	10-May-13
6	3	96	6 T	100GD	BN10481343	001600692GBF	10-May-13
6	3	96	6 T	100GD	BN10482207	001600692GBF	10-May-13
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6	3	97	1 B	55GD	ARP70915	001600687GBF	10-May-13
6	3	97	1 B	55GD	ARP71026	001600687GBF	10-May-13
6	3	97	1 B	55GD	ARP71044	001600687GBF	10-May-13
6	3	97	1 B	55GD	ARP71053	001600687GBF	10-May-13
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6	3	97	1 M	55GD	ARP70832	001600687GBF	10-May-13
6	3	97	1 M	55GD	ARP70896	001600687GBF	10-May-13
6	3	97	1 M	55GD	ARP70929	001600687GBF	10-May-13

6	3	97	1 M	55GD	ARP70939	001600687GBF	10-May-13
6	3	97	1 M	55GD	ARP71040	001600687GBF	10-May-13
6	3	97	1 M	55GD	ARP71041	001600687GBF	10-May-13
6	3	97	1 T	100GD	BN10469196	001600694GBF	10-May-13
6	3	97	1 T	100GD	BN10482103	001600694GBF	10-May-13
6	3	97	1 T	100GD	BN10482205	001600694GBF	10-May-13
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6	3	97	3 T	100GD	BN10482101	001600694GBF	10-May-13
6	3	97	3 T	100GD	BN10482105	001600694GBF	10-May-13
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6	3	97	5 B	TDOP	BN10489105	001600693GBF	10-May-13
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6	3	97	5 T	100GD	BN10478850	001600700GBF	12-May-13
6	3	98	2 B	TDOP	BN10489106	001600693GBF	10-May-13
6	3	98	2 T	SWB	LA00000093252	010784078JJK	12-May-13
6	3	98	4 B	TDOP	BN10489100	001600699GBF	10-May-13
6	3	98	4 T	SWB	SB10107	010784078JJK	12-May-13
6	3	98	6 B	TDOP	BN10489102	001600695GBF	12-May-13
6	3	98	6 T	100GD	BN10482310	001600700GBF	12-May-13
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6	3	99	1 T	100GD	BN10482799	001600700GBF	12-May-13
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6	3	99	3 T	100GD	BN10441930	001600698GBF	12-May-13
6	3	99	3 T	100GD	BN10469132	001600698GBF	12-May-13
6	3	99	5 B	SWB	LASB01960	010784078JJK	12-May-13
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6	3	99	5 T	100GD	BN10413386	001600698GBF	12-May-13
6	3	99	5 T	100GD	BN10454554	001600698GBF	12-May-13
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6	3	100	2 B	100GD	BN10478723	001600700GBF	12-May-13
6	3	100	2 B	100GD	BN10478846	001600700GBF	12-May-13
6	3	100	2 M	100GD	BN10478851	001600700GBF	12-May-13
6	3	100	2 M	100GD	BN10478852	001600700GBF	12-May-13
6	3	100	2 M	100GD	BN10478992	001600700GBF	12-May-13
6	3	100	2 T	100GD	BN10469833	001600699GBF	12-May-13
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6	3	100	4 B	SWB	LASB01961	010784078JJK	12-May-13
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6	3	100	4 T		100GD	BN10478295	001600698GBF	12-May-13
6	3	100	4 T		100GD	BN10479489	001600698GBF	12-May-13
6	3	100	6 B		100GD	BN10475581	001600701GBF	14-May-13
6	3	100	6 B		100GD	BN10475631	001600701GBF	14-May-13
6	3	100	6 B		100GD	BN10475686	001600701GBF	14-May-13
6	3	100	6 M		100GD	BN10475638	001600701GBF	14-May-13
6	3	100	6 M		100GD	BN10475639	001600701GBF	14-May-13
6	3	100	6 M		100GD	BN10475677	001600701GBF	14-May-13
6	3	100	6 T		100GD	BN10483918	001600701GBF	14-May-13
6	3	100	6 T		100GD	BN10483937	001600701GBF	14-May-13
6	3	100	6 T		100GD	BN10485248	001600701GBF	14-May-13
6	3	102	2 B		SLB2	SR51647002	000148358MWI	14-May-13
6	3	102	2 T		100GD	BN10476423	001600703GBF	14-May-13
6	3	102	2 T		100GD	BN10477131	001600703GBF	14-May-13
6	3	102	2 T		100GD	BN10477974	001600703GBF	14-May-13
6	3	102	4 B		SLB2	SR51647701	000148360MWI	14-May-13
6	3	102	4 T		100GD	BN10476416	001600703GBF	14-May-13
6	3	102	4 T		100GD	BN10477738	001600703GBF	14-May-13
6	3	102	4 T		100GD	BN10478285	001600703GBF	14-May-13
6	3	102	6 B		SLB2	SR51647001	000148356MWI	14-May-13
6	3	102	6 T		100GD	BN10475578	001600702GBF	14-May-13
6	3	102	6 T		100GD	BN10475583	001600702GBF	14-May-13
6	3	102	6 T		100GD	BN10475684	001600702GBF	14-May-13
6	3	103	1 B		100GD	BN10475633	001600701GBF	14-May-13
6	3	103	1 B		100GD	BN10475634	001600701GBF	14-May-13
6	3	103	1 B		100GD	BN10475678	001600701GBF	14-May-13
6	3	103	1 M		100GD	BN10475582	001600701GBF	14-May-13
6	3	103	1 M		100GD	BN10475680	001600701GBF	14-May-13
6	3	103	1 M		100GD	BN10475682	001600701GBF	14-May-13
6	3	103	3 B		100GD	BN10476703	001600702GBF	14-May-13
6	3	103	3 B		100GD	BN10476707	001600702GBF	14-May-13
6	3	103	3 B		100GD	BN10476710	001600702GBF	14-May-13
6	3	103	3 M		100GD	BN10476421	001600702GBF	14-May-13
6	3	103	3 M		100GD	BN10476424	001600702GBF	14-May-13
6	3	103	3 M		100GD	BN10476910	001600702GBF	14-May-13
6	2			089	72-B Rem	ID0322	001499852JJK	2-Apr-13
6	2			090	72-B Rem	ID0312	001499853JJK	3-Apr-13
6	2			091	72-B Rem	ID0314	001499861JJK	4-Apr-13
6	2			092	72-B Rem	AE0148	008858989JJK	5-Apr-13
6	2			093	72-B Rem	ID0313	001499859JJK	10-Apr-13
6	2			094	72-B Rem	ID0315	001499863JJK	11-Apr-13
6	2			095	72-B Rem	AE0147	008858996JJK	16-Apr-13
6	2			096	72-B Rem	ID0300	001499864JJK	17-Apr-13
6	2			097	72-B Rem	AE0125	010995001JJK	18-Apr-13
6	1			041	72-B Rem	ID0301	001499867JJK	19-Apr-13
6	1			042	72-B Rem	ID0302	001499876JJK	23-Apr-13
6	1			043	72-B Rem	AE0146	008858983JJK	24-Apr-13

6	1	044	72-B Rem	ID0303	001499881JJK	25-Apr-13
6	1	045	72-B Rem	ID0323	001499882JJK	26-Apr-13
6	1	046	72-B Rem	AE0149	010995004JJK	30-Apr-13
6	1	047	72-B Rem	AE0150	010995008JJK	1-May-13
6	1	048	72-B Rem	ID0324	001499883JJK	3-May-13
6	1	049	72-B Rem	ID0325	001499886JJK	8-May-13
6	1	050	72-B Rem	AE0151	010995010JJK	9-May-13
6	1	051	72-B Rem	ID0326	001499887JJK	10-May-13
6	1	052	72-B Rem	ID0327	001499889JJK	14-May-13
6	1	053	72-B Rem	ID0329	001499898JJK	15-May-13

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

10.a **Maps of waste disposal location and quantity from April 1, 2013 to May 15, 2013 as specified in Permit Condition 4.8.2. [26 pages, 4 maps]**

MAPS 1 of 2

TO VIEW THE MAP AND/OR MAPS WITH THIS DOCUMENT, PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

10.a **Maps of waste disposal location and quantity from April 1, 2013 to May 15, 2013 as specified in Permit Condition 4.8.2. [26 pages, 4 maps]**

MAPS 2 of 2

TO VIEW THE MAP AND/OR MAPS WITH THIS DOCUMENT, PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

11.a **Analytical laboratory results from Panel 6 disposal room VOC Monitoring for all of April 2013 of any one round, both paper and as an electronic spreadsheet. [3 pages 1 Disc]**

Panel 6, VOC Monitoring Data April 2013

LABSAMPID	LABCODE	MATRIX	METHOD	CLIENTSAMPID	SAMPDATE	ANALDATE	ANALTIME	LABCTLID	DILUTION	REPLMT	UNITS	RESULTS	DATAFLAGS	COMPOUND NAME	CASNUM	COMMENTS	SAMPLE LOCATION
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	149197.14		Carbon Tetrachloride	56-23-5		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	8430.89		Chloroform	67-66-3		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	2197.34		Methylene Chloride	75-09-2		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	360.86	J	Toluene	108-88-3		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	53898.62		1,1,1-Trichloroethane	71-55-6		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	75648.33		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5		PPBV	4035.02	NJ	Trichloromonofluoromethane	75-69-4		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5		PPBV	32247.32	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R5I
1304110 05	CEMRC	AIR	TO-15/TICs	8120	4/9/2013	4/17/2013	1726	041113 001	3280.5		PPBV	30049.38	NJ	Tetrachloroethylene	127-18-4		P6R5I
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	166080.78		Carbon Tetrachloride	56-23-5		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	9447.84		Chloroform	67-66-3		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	1880.82		Methylene Chloride	75-09-2		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	393.66	J	Toluene	108-88-3		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	62985.60		1,1,1-Trichloroethane	71-55-6		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	78513.30		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374		PPBV	37966.32	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R5E
1304110 06	CEMRC	AIR	TO-15/TICs	8121	4/9/2013	4/17/2013	1812	041113 001	4374		PPBV	28431.00	NJ	Tetrachloroethylene	127-18-4		P6R5E
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	1763.37		Carbon Tetrachloride	56-23-5		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	98.01	J	Chloroform	67-66-3		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	42.93	J	Methylene Chloride	75-09-2		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	8.51	J	Toluene	108-88-3		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	622.08		1,1,1-Trichloroethane	71-55-6		P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	927.86		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R4I
1304110 07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113 001	40.5	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R4I
1304110_07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113_001	40.5		PPBV	54.68	NJ	Trichloromonofluoromethane	75-69-4		P6R4I
1304110_07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113_001	40.5		PPBV	373.82	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R4I
1304110_07	CEMRC	AIR	TO-15/TICs	8122	4/10/2013	4/17/2013	1859	041113_001	40.5		PPBV	492.08	NJ	Tetrachloroethylene	127-18-4		P6R4I
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	1598.94		Carbon Tetrachloride	56-23-5		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	89.10	J	Chloroform	67-66-3		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	42.12	J	Methylene Chloride	75-09-2		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	7.29	J	Toluene	108-88-3		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	562.55		1,1,1-Trichloroethane	71-55-6		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5	500	PPBV	834.71		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R4I-FD
1304110_08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113_001	40.5	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R4I-FD
1304110_08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113_001	40.5		PPBV	52.65	NJ	Trichloromonofluoromethane	75-69-4		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5		PPBV	338.99	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R4I-FD
1304110 08	CEMRC	AIR	TO-15/TICs	8123	4/10/2013	4/17/2013	1945	041113 001	40.5		PPBV	426.47	NJ	Tetrachloroethylene	127-18-4		P6R4I-FD
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	2626.56		Carbon Tetrachloride	56-23-5		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	153.36	J	Chloroform	67-66-3		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	160.92	J	Methylene Chloride	75-09-2		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	22.14	J	Toluene	108-88-3		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	965.52		1,1,1-Trichloroethane	71-55-6		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	1449.36		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R4E
1304110_09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113_001	54		PPBV	100.98	NJ	Trichloromonofluoromethane	75-69-4		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54		PPBV	564.30	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R4E
1304110 09	CEMRC	AIR	TO-15/TICs	8124	4/10/2013	4/17/2013	2037	041113 001	54		PPBV	808.92	NJ	Tetrachloroethylene	127-18-4		P6R4E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	1896260.22		Carbon Tetrachloride	56-23-5		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	120066.30		Chloroform	67-66-3		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	13384.44		Methylene Chloride	75-09-2		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	2361.96		Toluene	108-88-3		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	397202.94		1,1,1-Trichloroethane	71-55-6		P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	1013674.50		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R7E
1304180 05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813 001	39366	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R7E
1304180_05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813_001	39366		PPBV	212182.74	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R7E
1304180_05	CEMRC	AIR	TO-15/TICs	8129	4/16/2013	4/24/2013	1658	041813_001	39366		PPBV	371221.38	NJ	Tetrachloroethylene	127-18-4		P6R7E
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	1472977.31		Carbon Tetrachloride	56-23-5		P6R7I
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R7I
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	87392.52		Chloroform	67-66-3		P6R7I
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R7I
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R7I
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	11809.80		Methylene Chloride	75-09-2		P6R7I

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11.a **Analytical laboratory results from Panel 6 disposal room VOC Monitoring for all of April 2013 of any one round, both paper and as an electronic spreadsheet. [3 pages 1 Disc]**

Panel 6, VOC Monitoring Data April 2013

1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R7I				
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	1771.47		Toluene	108-88-3		P6R7I				
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	327426.71		1,1,1-Trichloroethane	71-55-6		P6R7I				
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	707702.27		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R7I				
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R7I				
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5		PPBV	186004.35	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R7I				
1304180 06	CEMRC	AIR	TO-15/TICs	8130	4/16/2013	4/24/2013	1744	041813 001	29524.5		PPBV	238491.25	NJ	Tetrachloroethylene	127-18-4		P6R7I				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	3.51	J	Carbon Tetrachloride	56-23-5		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	0.26	J	Chloroform	67-66-3		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	0.34	J	Methylene Chloride	75-09-2		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	0.50	J	Toluene	108-88-3		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	1.23	J	1,1,1-Trichloroethane	71-55-6		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	2.18	J	Trichloroethylene *	79-01-6	* Additional requested analytes	P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1	500	PPBV	0.02	J	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1		PPBV	2.83	NJ	Pentane	109-66-0		P6R3E				
1304180 07	CEMRC	AIR	TO-15/TICs	8131	4/16/2013	4/24/2013	1832	041813 001	1		PPBV	1.12	NJ	Tetrachloroethylene	127-18-4		P6R3E				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	2.76	J	Carbon Tetrachloride	56-23-5		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	0.24	J	Chloroform	67-66-3		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	0.35	J	Methylene Chloride	75-09-2		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	0.53	J	Toluene	108-88-3		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	1.06	J	1,1,1-Trichloroethane	71-55-6		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	2.24	J	Trichloroethylene *	79-01-6	* Additional requested analytes	P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1	500	PPBV	0.02	J	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1		PPBV	1.22	NJ	Acetone	67-64-1		P6R3E-FD				
1304180 08	CEMRC	AIR	TO-15/TICs	8132	4/16/2013	4/24/2013	1919	041813 001	1		PPBV	2.86	NJ	Pentane	109-66-0		P6R3E-FD				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	842826.06		Carbon Tetrachloride	56-23-5		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	52553.61		Chloroform	67-66-3		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	6298.56		Methylene Chloride	75-09-2		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	1377.81		Toluene	108-88-3		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	220252.77		1,1,1-Trichloroethane	71-55-6		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	414720.81		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683		PPBV	116917.02	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R6E				
1304180 09	CEMRC	AIR	TO-15/TICs	8133	4/17/2013	4/24/2013	2005	041813 001	19683		PPBV	150378.12	NJ	Tetrachloroethylene	127-18-4		P6R6E				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	740474.46		Carbon Tetrachloride	56-23-5		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	49797.99		Chloroform	67-66-3		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	7282.71		Methylene Chloride	75-09-2		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	1771.47		Toluene	108-88-3		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	201160.26		1,1,1-Trichloroethane	71-55-6		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	401730.03		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683		PPBV	111996.27	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R6I				
1304180 10A	CEMRC	AIR	TO-15/TICs	8134	4/17/2013	4/24/2013	2311	041813 001	19683		PPBV	145654.20	NJ	Tetrachloroethylene	127-18-4		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	746182.53		Carbon Tetrachloride	56-23-5		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	49601.16		Chloroform	67-66-3		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	6889.05		Methylene Chloride	75-09-2		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	1771.47		Toluene	108-88-3		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	199979.28		1,1,1-Trichloroethane	71-55-6		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	400549.05		Trichloroethylene *	79-01-6	* Additional requested analytes	P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683	500	PPBV	ND	U	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683		PPBV	113570.91	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R6I				
1304180 10AA	CEMRC	AIR	TO-15/TICs	8134-dup	4/17/2013	4/24/2013	2356	041813 001	19683		PPBV	144866.88	NJ	Tetrachloroethylene	127-18-4		P6R6I				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	219.90	J	Carbon Tetrachloride	56-23-5		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	ND	U	Chlorobenzene	108-90-7		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	13.08	J	Chloroform	67-66-3		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	ND	U	1,2-Dichloroethane	107-06-2		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	ND	U	1,1-Dichloroethylene	75-35-4		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	3.66	J	Methylene Chloride	75-09-2		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	ND	U	1,1,2,2-Tetrachloroethane	79-34-5		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	1.14	J	Toluene	108-88-3		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	66.72	J	1,1,1-Trichloroethane	71-55-6		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	109.92	J	Trichloroethylene *	79-01-6	* Additional requested analytes	P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6	500	PPBV	0.18	J	1,2,4-Trimethylbenzene *	95-63-6	* Additional requested analytes	P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6		PPBV	39.90	NJ	hane, 1,1,2-trichloro-1,2,2-trifluo	76-13-1		P6R2E				
1304180 11	CEMRC	AIR	TO-15/TICs	8135	4/17/2013	4/25/2013	0043	041813 001	6		PPBV	41.52	NJ	Tetrachloroethylene	127-18-4		P6R2E				

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

12. List of names for four personnel (one for each position) on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current. Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013.

12.a <u>List of names for four personnel (one for each position) on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current. [5 pages]</u>

Please refer to the password protected file, sent via email to Ms. Trais Kliphuis, to access the documentation requested for this item.

12.b Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013.

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

12. List of names for four personnel (one for each position) on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current. Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013.

    12.a List of names for all personnel on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current.

    12.b <u>Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013. [300 pages & 3 Disc's]</u>

IN130032 Confirmed

Ray, Adam - RES

Sent: Thursday, April 04, 2013 6:20 AM
To: Weyerman, Wade - LANL; Sensibaugh, Mike - WTS; carpsj@amwtp.inl.gov; cordsa@amwtp.inl.gov; Edward.Hart@amwtp.inl.gov; jackjm@amwtp.inl.gov; JORGKR@amwtp.inl.gov; petegd@amwtp.inl.gov; SCHWEP@amwtp.inl.gov; storme@amwtp.inl.gov
Cc: Stegman, Dustin - RES; Romo, Favian - WRES; Romo, Renee - WRES; Mahlin, Jay - RES; Billman, Robert - WRES; PPool, Crystal - WRES; Haschets, John - RES; Nelson, Jeremy - RES

All,

Shipment IN130032 has been Confirmed.

BEST AVAILABLE COPY

Adam Ray
Nuclear Waste Partnership LLC-Regulatory/Environmental Support
Contractor to the Department of Energy
850 Energy Dr. Suite 134
Idaho Falls, ID 83401
(208) 557-6337 work
(575) 725-8192 cell

From: wdsadmin@wipp.ws [wdsadmin@wipp.ws]
Sent: Thursday, April 04, 2013 6:19 AM
To: DL WWIS C
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER IN130032 (prd05)

Shipment Number IN130032 has been confirmed by Waste Confirmation in the WDS.

SUMMARY: Following is an abbreviated shipment summary:

Payload Number	Controlled	Ship Period	Assembly	Containers
96662	N	60	IN125246	3 100-GALLON DRUM
			IN125245	3 100-GALLON DRUM
96663	N	60	IN125251	3 100-GALLON DRUM
			IN125252	3 100-GALLON DRUM
96610	N	60	IN125223	3 100-GALLON DRUM

WASTE STREAMS: The containers included in this shipment are from the following waste stream(s):

Payload Number	Waste Streams
96662	BN510.1 (SUPERCOMPACTED DEBRIS WASTE)
96663	BN510.1 (SUPERCOMPACTED DEBRIS WASTE)
96610	BN510.1 (SUPERCOMPACTED DEBRIS WASTE)

CBFO Form MP 5.1-1
February 2013

ATTACHMENT II
Page 1 of 1

DOE Management Representative Review of Confirmation Data Package Checklist

line		YES	NO
1	Step 5.4 Review of RES Form EA02RC1102-1-0		
2	Site: AMWTP		
3	Shipment Number: IN130032		
4	Has the OP signed and dated the form?	✓	
5	Has the ITR signed and dated the form?	✓	
6	Has the PCR signed and dated the form?	✓	
7	Step 5.4.4 Technically Reasonable		
8	Were the data generated at a site certified by NTP?	✓	
9	Were the data generated in a process (technique) certified by NTP?	✓	
10	Are the data technically reasonable based on the technique used?	✓	
11	Step 5.4.5 Independent Technical Review		
12	Have the data received independent technical review?	✓	
13	Step 5.4.6 Ignitable, corrosive, reactive, and physical form		
14	Do the data indicate no ignitable, corrosive, reactive, and the physical form is correct?	✓	
15	Step 5.4.7 QC Checks		
16	Have the QC checks been performed?	✓	
17	Step 5.4.8 QAOs		
18	Have the QAOs been met?	✓	

19 ✓ APPROVED _____ DISAPPROVED

20 Michael R. Brown — NAME; [signature] — SIGNATURE; 4/03/2013 — DATE

RE: Request for DOE Management Representative Review for Shipment IN130032

Brown, Mike - DOE
Sent: Wednesday, April 03, 2013 3:44 PM
To: Ray, Adam - RES; Mackie, Bill - DOE; Morgan, Thomas - DOE; Pinzel, Marcus - DOE; Site Documents - DOE; Stroble, J. R. - DOE; Walker, Andy - DOE
Cc: Haschets, John - RES; Romo, Favian - WRES; Brown, Mike - DOE; Urquidez, Ken - RES

Shipment **IN130032** has been reviewed by the DOE Management Representative and is approved per Section C7-1e(2) of the WIPP HWFP.

Michael R. Brown
Transportation Packaging Manager
Phone: 575-234-7476
Fax: 575-234-7061
e-mail: mike.brown@wipp.ws
U.S. Department of Energy
4021 National Parks Highway
Carlsbad, New Mexico 88220

From: Ray, Adam - RES
Sent: Wednesday, April 03, 2013 1:23 PM
To: Brown, Mike - DOE; Mackie, Bill - DOE; Morgan, Thomas - DOE; Pinzel, Marcus - DOE; Site Documents - DOE; Stroble, J. R. - DOE; Walker, Andy - DOE
Cc: Haschets, John - RES; Romo, Favian - WRES
Subject: Request for DOE Management Representative Review for Shipment IN130032

To: DOE Management Representative

From: RES Permittees Confirmation Representative

As required by Permit Attachment C7, Section C7-1e (2), the **confirmation data package** for Shipment **IN130032** is attached and contains the following:

- EA02RC1102-1-0 Rev. 7 (1 for each waste stream in Shipment **IN130032**)
- EA02RC1102-2-0 Rev. 1 (ITR Checklist)
- EA02RC1102-3-0 Rev. 1 (PCR Checklist)

Per the WIPP Eight week Rolling Schedule, **IN130032** is scheduled to ship on **Saturday, April 06, 2013 at 15:00.**

Shipment IN130032 can be viewed in its entirety at \\arrey\DOE_Shipment_Review.

Once your review is complete, please **REPLY to ALL via email** with your approval and/or comments.

Thank You

Adam Ray
Nuclear Waste Partnership LLC-Regulatory/Environmental Support
Contractor to the Department of Energy

850 Energy Dr. Suite 134
Idaho Falls, ID 83401
(208) 557-6337 work
(575) 725-8192 cell

Working Copy

TRU WASTE CONFIRMATION PCR REVIEW CHECKLIST

Shipment Number: IN130032

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. The data are technically reasonable based on the technique used. Reference Source: (C7-1e(2))	✓			
2. The data have received independent technical review. Reference Source: (C7-1e(2))	✓			
3. The data indicate that the waste examined contained no ignitable, corrosive, or reactive waste. Reference Source (C7-1e(2))	✓			
4. The data indicate that the physical form of the waste was consistent with the waste stream description in the waste stream profile form. Reference Source: (C7-1e(2))	✓			
5. The data met the established QAOs for RTR? Mark N/A if there are no RTRs for this shipment. Reference Source: (C7-1e(2))			✓	
5a. Precision Were discrepancies between two operators with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WC limits, and identification of compressed gases through independent replicate scans and independent observations reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(1))			✓	
5b. Accuracy Was the lines-Pair Resolution Test Check included in the BDR? Reference Source: (C7-1d(1))			✓	
5c. Accuracy Are the training qualifications for all radiography personnel acceptable? Reference Source: (C7-1d(1))			✓	
5d. Representativeness Was a Confirmation module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(1))			✓	

Working Copy

Shipment Number: IN130032

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
5e. Completeness Was a video and audio media recording of the radiography examination and a validated radiography data form obtained for 100 percent of the waste containers selected for confirmation? Reference Source: (C7-1d(1))	☐	☐	☑	
5f. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(1))	☐	☐	☑	
5g. Comparability Are the confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(1))	☐	☐	☑	
6. The data meet the established QAOs for VE? Mark N/A if there are no VEs for this shipment. Reference Source: (C7-1e(2))	☑	☐	☐	
6a. Precision Discrepancies between the operator and the independent technical reviewer with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WAC limits, and identification of compressed gases have been reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(2))	☐	☐	☑	No discrepancies
6b. Accuracy Are the training qualifications for all Visual Examination personnel acceptable? Reference Source: (C7-1d(2))	☑	☐	☐	
6c. Representativeness Was a Confirmation Module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(2))	☑	☐	☐	

Working Copy

Shipment Number: IN130032

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
6d. Completeness A validated VE data form was obtained for 100 percent of the waste containers subject to VE? Reference Source: (C7-1d(2))	✓			
6e. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(2))	✓			
6f. Comparability Are confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(2))	✓			

Comments:
N/A

Adam K Ray	Adam K Ray	4/3/2013
PCR Printed Name	Signature	Date

Shipment payloads have been verified and have not changed:

Adam K Ray	Adam K Ray	4-4-13
PCR Printed Name	Signature	Date

Working Copy

TRU WASTE CONFIRMATION ITR REVIEW CHECKLIST

Shipment Number: IN130032

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. Data generation and reduction were conducted in a technically correct manner in accordance with the methods used (procedure with revision). Data were reported in the proper units and correct number of significant figures. Reference Source: (C7-1e(1))	✓			
2. Is the media complete, if applicable? Reference Source: (C7-1e(1))			✓	
3. The data have been reviewed for transcription errors? Reference Source (C7-1e(1))	✓			
4. Ensure the generator/storage site radiography video and audio media recordings were reviewed (independent observation) on a waste container basis at a minimum of once per shipment or once per day of operation, whichever is less frequent. The radiography video/audio recording was reviewed against the data reported on the radiography form to ensure that the data are correct and complete. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))			✓	
5. If review of radiography scans recorded by the generator/storage site was used to perform confirmation, were two observations performed for each shipment or two observations per day, whichever is less frequent. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))			✓	

Comments:
N/A

ITR Printed Name Dustin Stegman	Signature Dustin Stegman	Date 4/3/13

Waste Isolation Pilot Plant
Shipment Confirmation Payload Container List

Shipment Number: IN130032

Waste Stream Profile: BN510.1

	Container Num	Container Type	Payload	Type
1	BN10473316	23 - 100 GAL DRUM (DIRECT LOAD)	96610	HALFPACT
2	BN10473542	23 - 100 GAL DRUM (DIRECT LOAD)	96610	HALFPACT
3	BN10474272	23 - 100 GAL DRUM (DIRECT LOAD)	96610	HALFPACT
4	BN10473239	23 - 100 GAL DRUM (DIRECT LOAD)	96662	TP-II
5	BN10473320	23 - 100 GAL DRUM (DIRECT LOAD)	96662	TP-II
6	BN10473540	23 - 100 GAL DRUM (DIRECT LOAD)	96662	TP-II
7	BN10473731	23 - 100 GAL DRUM (DIRECT LOAD)	96662	TP-II
8	BN10474192	23 - 100 GAL DRUM (DIRECT LOAD)	96662	TP-II
9	BN10474265	23 - 100 GAL DRUM (DIRECT LOAD)	96662	TP-II
10	BN10471788	23 - 100 GAL DRUM (DIRECT LOAD)	96663	TP-II
11	BN10473277	23 - 100 GAL DRUM (DIRECT LOAD)	96663	TP-II
12	BN10473535	23 - 100 GAL DRUM (DIRECT LOAD)	96663	TP-II
13	BN10473649	23 - 100 GAL DRUM (DIRECT LOAD)	96663	TP-II
14	BN10473722	23 - 100 GAL DRUM (DIRECT LOAD)	96663	TP-II
15	BN10473729	23 - 100 GAL DRUM (DIRECT LOAD)	96663	TP-II

Count: 15

Waste Isolation Pilot Plant
TRU Waste Confirmation Module

Shipment Number: **IN130032**

WCM Initiated By: RAY, ADAM
WCM Initiated On: 04/03/2013 09:25

Adam K Ray

The Waste Confirmation Module has been run.

Waste Stream Profile: **BN510.1**

Container Num	Container Type	Payload	Type
BN10473316	23 - 100 GAL DRUM (DIRECT LOAD)	96610	HALFPACT
BN10471788	23 - 100 GAL DRUM (DIRECT LOAD)	96663	TP-II

IN130032 Notification

Ray, Adam - RES

Sent: Wednesday, April 03, 2013 9:29 AM
To: Weyerman, Wade - LANL; Sensibaugh, Mike - WTS; carpsj@amwtp.inl.gov; cordsa@amwtp.inl.gov; Edward.Hart@amwtp.inl.gov; jackjm@amwtp.inl.gov; JORGKR@amwtp.inl.gov; petegd@amwtp.inl.gov; SCHWEP@amwtp.inl.gov; storme@amwtp.inl.gov
Cc: Stegman, Dustin - RES; Romo, Favian - WRES; Romo, Renee - WRES; Mahlin, Jay - RES; Billman, Robert - WRES; PPool, Crystal - WRES; Haschets, John - RES; Nelson, Jeremy - RES
Attachments: IN130032 WCM.pdf (10 KB)

Attached is the TRU Waste Confirmation Module report from WDS for shipment IN130032 identifying the container(s) selected for Confirmation.

Any questions please call.

Adam K Ray
Nuclear Waste Partnership LLC-Regulatory/Environmental Support
Contractor to the Department of Energy
850 Energy Dr. Suite 136
Idaho Falls, ID 83401
(208) 557-6337 work
(575) 725-8192 cell
OR
Favian Romo
Nuclear Waste Partnership LLC- Regulatory/Environmental Support
Contractor to the Department of Energy
850 Energy Dr. Suite 134
Idaho Falls, ID 83401
(208) 557-0976 work
(575) 706-4019 cell

From: wdsadmin@wipp.ws [wdsadmin@wipp.ws]
Sent: Thursday, March 28, 2013 2:51 PM
To: Petersen, Gary - INL; DL WWIS C
Subject: Shipment IN130032 Ready for Confirmation (prd05)

Shipment IN130032 Is Ready For Confirmation.

Working Copy

TRU Waste Confirmation (RTR/VE) Approval Form

CH OR RH:	CH
Packaging Type:	HalfPACT

Procedure No:	WP 02-RC1108 Rev.11	RTR and/or VE Media and/or Records Review	
Generator Site:	AMWTP	Shipment Number:	IN130032
Waste Stream Profile Number:	BN510.1	Shipping Container Type:	100-Gal
Shipping Container Number:	BN10473316		

Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid in Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	ITR	PCR
4/3/2013	96610	10473201	VEB12-01136	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
4/3/2013	96610	10473205	VEB12-01136	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
4/3/2013	96610	10473213	VEB12-01136	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
4/3/2013	96610	10473214	VEB12-01136	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with HWN U134 assigned shall have no observable liquid

OP Reviewed by:	Jay Mahlin (Printed Name:)	Jay Mahlin (Signature:)	4/3/2013 (Date:)
IO Reviewed by:	N/A (Printed Name:)	N/A (Signature:)	N/A (Date:)
ITR Reviewed by:	Dustin Stegman (Printed Name:)	Dustin Stegman (Signature:)	4-3-13 (Date:)
PCR Reviewed by:	Adam K Ray (Printed Name:)	Adam K Ray (Signature:)	4-3-13 (Date:)

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	N/A

Shipment Number: IN130032
Container Number: BN10473316
Container Type: 23 - 100 GAL DRUM (DIRECT LOAD)

Certification Data Values

Generator Site:	BN	Waste Stream Profile Code:	BN510.1
Waste Handling Code:	CH	IDC Code:	550
Payload Number:	96610	Waste Matrix Code:	S5490
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	379.93
3	OTHER METAL/ALLOYS	1.30
4	OTHER INORGANIC MATERIALS	1.42
6	CELLULOSICS	5.87
7	RUBBER	0.70
8	PLASTICS	0.85
13	STEEL CONTAINER MATERIALS	56.70
	Waste Weight:	390.07
	Packaging Weight:	56.70
	Total Material Weight:	446.77

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D022	CHLOROFORM
D027	1,4-DICHLOROBENZENE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
D030	2,4-DINITROTOLUENE

Shipment Number: IN130032
Container Number: BN10473316
Container Type: 23 - 100 GAL DRUM (DIRECT LOAD)

Hazardous Codes

Hazardous Code	Description
D034	HEXACHLOROETHANE
D037	PENTACHLOROPHENOL
D043	VINYL CHLORIDE
F001	SPENT HALOGENATED SOLVENTS
F002	SPENT HALOGENATED SOLVENTS
F004	SPENT NONHALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS
F006	WASTEWATER TREATMENT SLUDGE
F007	SPENT CYANIDE PLATING BATH
F009	SPENT STRIPPING SOLUTION

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
BN	9VE7	BN-VEB: BOX LINE VE (REPACK BOXES TO DRUMS)	12/11/2012

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

Confirmation Report Coversheet

Date: 03-Apr-2013

Time: 09:30

Payload Container ID BN10473316 **Waste Stream Profile** BN510.1 **Waste Matrix Code** S5490

Shipment ID IN130032 **Payload Container Type** FOR NEW DRUM - 100

Payload ID 96610 **Test Facility** Idaho AMWTP

CHARACTERIZATION METHODS

Container	Waste Matrix Code	Characterization
10473201	S5490	VEB
10473205	S5490	VEB
10473213	S5490	VEB
10473214	S5490	VEB
BN10473316	S5490	

WASTE HAZARD CODES

EPA Codes	Description
D004	Arsenic
D005	Barium
D006	Cadmium
D007	Chromium
D008	Lead
D009	Mercury
D010	Selenium
D011	Silver
D022	Chloroform
D027	1,4-Dichlorobenzene
D028	1,2-Dichloroethane
D029	1,1-Dichloroethylene
D030	2,4-Dinitrotoluene
D034	Hexachloroethane
D037	Pentachlorophenol
D043	Vinyl chloride
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2,trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F004	The following spent nonhalogenated solvents: cresols, cresylic acid, and nitrobenzene; and the still bottoms from the recovery of these solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F005	The following spent nonhalogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
F007	Spent cyanide plating bath solutions from electroplating operations.
F009	Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.

NONCONFORMANCES

Container	NCR Number	Status	Comment

***** End of Report *****

AMWTP
Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013
Time: 09:30

Batch Id VEB12-01136 **Container Id** 10473201 **Analysis Id** 0000295136

VE Date 11-DEC-12 04:04:09 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 211.68 lbs.

Closure Date 11-DEC-12 04:04:09 **Procedure Id** INST-FOI-17 **Net Weight** 185.68 lbs.

Container Type 55 **Revision** 25

Operator 1 NOLAN JACOBS **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 ANTHONY SIGMON **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 72 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? Yes **Are Sharp Objects Protected?** No

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste Incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment The remaining waste by weight percent is scrap metal. Corrected source container number from 10137455 to 10137445. NJ and AS 12/12/12

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01136 **Container Id** 10473201 **Analysis Id** 0000295136

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10137445	destroyed @ 676- BXI/15	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Wood	2.000	PINTS	0.702	1.400
Glass	1.000	PINTS	2.082	2.080
Plastic	1.000	PINTS	0.937	0.940
Cloth Material	0.500	PINTS	2.000	1.000

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	100.000	180.260
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	2.080
Cellulosics	0.000	2.400
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	0.940
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2424869	JMARTINEZ	11-DEC-12 04:04:09	
2424870	BTRIPP	11-DEC-12 04:04:09	
2426571	NJACOBS	12-DEC-12 14:27:19	
2426572	ASIGMEN	12-DEC-12 14:27:19	

-----End of VE Boxline Report-----

Batch Id VEB12-01136 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer CRAIG SIMMONS **Approval Level** Independent Technical Reviewer
Approval Date 12-DEC-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
1. Is the QA documentation for the Batch Data Reports complete and includes data reports and QC results? o VE Batch Coversheet o Table of Contents (manual review only) o VE Analysis Reports o Analytical Balance Calibration Check Sheet (Form-1215), if applicable (manual review only) o ITR Checklist (Form-1415, manual review only) o Batch Data Report Supplemental Comment Form (Form-1491, manual review only) o Associated NCRs (referenced in WTS) o Audio/Video Recording References, if applicable	Yes		
2. Are there 20 containers or less in the batch?	Yes		
3. Was each VE Operator qualified at the time of the VE event?	Yes		
4. Was a VE data form completed for each container in the batch?	Yes		
Was the data generated in a technically correct manner using the correct revision of INST-OI-34, Non-facility Visual Examination, INST-FOI-17, Facility Visual Examination Operations, or INST-FOI-22, Visual Examination of S3000 Waste in the Facility, as applicable.	Yes		
6. Was the correct revision of the procedure documented on each analysis report?	Yes		
7. Was the E-signature History review performed?	Yes		
8. Was guidance from VEE documented, as applicable?	N/A		Not applicable for this VEB batch.
9. Does every drum reported in the batch have a valid audio/video recording (as applicable)?	N/A		Not applicable for this VEB batch.
10. Does the physical form match the waste stream description, waste matrix code and IDC?	Yes		
11. Did the VE event result in an IDC/Waste Matrix Code change? If so, was an NCR initiated?	No		
12. Were the waste material parameters documented correctly?	Yes		
13. Was the presence or absence of prohibited items properly identified? o If prohibited items were identified, were NCRs initiated?	Yes		
14. Has the description of rigid liners and layers of confinement been properly documented?	Yes		
15. Was the drum age criteria (DAC) entered correctly and completely? o Closure Method(s) o Liner Puncture Status o Layers of Confinement o Closure Date o Packaging Configuration o Type and number of filters, as applicable o Liner hole presence and diameter, as applicable	Yes		
16. Have filters been installed or removed from drum as	N/A		Not applicable for this VEB batch.

Batch Id VEB12-01136 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer CRAIG SIMMONS **Approval Level** Independent Technical Reviewer
Approval Date 12-DEC-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
recorded in WTS, as applicable?			
17. Hand calculations and unit conversions are correct? o Does the packaging weight plus the net weight equal the gross weight of the drum in the estimated waste material parameters, and for the unit conversions that are entered by volume or weight?	Yes		
18. Were all units and significant figures used correct for all reported volumes/weights?	Yes		
19. Has the data been reviewed for transcription errors as appropriate?	Yes		
20. Were the Visual Examination QAOs met? o Precision o Accuracy o Completeness o Comparability	Yes		
21. Is each data form signed by qualified VE Operators, as applicable per the appropriate procedure being used?	Yes		
22. Was the audio/video check satisfactory, as applicable?	N/A		Not applicable for this VEB batch.
23. Was the scale or balance check weight event satisfactory, as applicable?	N/A		Not applicable for this VEB batch.
24. Are the QC weight checks within the tolerance of the scale or balance, as applicable?	N/A		Not applicable for this VEB batch.
25. Were any NCRs generated for drums containing prohibited items or any nonconforming conditions that failed to meet DQOs or QAOs? o Include the NCRs as appropriate, in the Batch Data Report.	No		
26. Were the rework requirements clearly identified in WTS or on the BDR?	Yes		See batch comments

Batch Id VEB12-01136 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer PAM FETZER **Approval Level** SPM Data Validation
Approval Date 18-DEC-12 **Review Iteration** 1

Question Text	Answer	Requirement	Comment
(1) Has the batch received a Data Generation Level Independent Technical Review?	Yes	MP-TRUW-8.2, C3-10b(1)	
(2) Are the batch data review checklists complete?	Yes	MP-TRUW-8.2, C3-10b(1)	
(3) When identified, were PCBs, mercury, lead, or other hazardous contaminants consistent with the waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	Lead identified
(4) Are any ignitable, corrosive, or reactive wastes identified?	No	MP-TRUW-8.2, C4-3	
(5) Are the packaging configurations identified on the VE consistent with the waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(6) Do the drums in this batch contain typical waste items consistent with waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(7) Are the Waste Matrix Codes and physical form descriptions consistent with AK?	Yes	MP-TRUW-8.2, C4-3	
(8) Have all AK discrepancies been resolved and have all AK Resolution checklists been approved? Reference all waste stream AK documentation used in review of this data package.	N/A	MP-TRUW-8.2, C4-3	No AK discrepancies identified. References: AMWTP-RPT-TRUW-05 AMWTP-RPT-TRUW-06 AMWTP-RPT-TRUW-83
(9) Does the batch report identify the correct implementing procedure number and revision number used for this testing method?	Yes	MP-TRUW-8.2, C3-4 and Table C3-11	
(10) Have the Waste Matrix Code (WMC) and IDC for all drums in the batch remained the same as originally assigned by the historical designation? NOTE: If not, note the drum number in the comment field and notify the Acceptable Knowledge Expert (AKE) if an NCR does not exist for the WMC and IDC change.	N/A	MP-TRUW-8.2, C-3c and C1-4	BN-508 is assigned for newly-generated waste as a result of boxline operations. AKE reviews and NCRs are not required.
(11) Does the physical form of the waste match the WMC, waste stream description, and identify the absence of prohibited items?	Yes	MP-TRUW-8.2, C-3c and C1-4	
(12) If observable liquids exist in the drum, is an estimate of quantity given?	N/A	MP-TRUW-8.2, C-3c and C1-4	No observable liquids exist.
(13) Precision: Have all discrepancies been reconciled between the operator and the ITR with regard to identification of WMC, liquids in excess of TSDF-WAC limits, and compressed gases?	Yes	MP-TRUW-8.2 C3-4b	
(14) Accuracy: Have all operators passed a comprehensive examination and demonstrated satisfactory performance in the presence of the VE expert during initial and subsequent qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(15) Completeness: Has a validated VE data form been obtained for 100% of the waste containers subject to VE?	Yes	MP-TRUW-8.2 C3-4b	
(16) Comparability: Has the comparability of VE data from different operators been enhanced by use of standardized VE procedures and operator qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(17) Does the data for all containers within this batch meet the review, validation, and verification requirements?	Yes	MP-TRUW-8.2, C3-10b and Table C3-11	

Batch Id VEB12-01136 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer PAM FETZER **Approval Level** SPM Data Validation
Approval Date 18-DEC-12 **Review Iteration** 1

Question Text	Answer	Requirement	Comment
· Are proper units (e.g. Liters or pounds) and significant figure used? · Is the BDR complete (all pages identified in the BDR and numbered according)? - VE Batch Coversheet - Table of Contents (manual review only) - VE Analysis Reports - Analytical Balance Calibration Checklist (if applicable) - ITR Checklist (Form-1415) - Associated NCRs - Audio/Video Recordings (if applicable)			
(18) Do the drum reports contain the (a) Batch Data Report number and date, (b) waste container number (c)WMC, (d) implementing procedure and revision, (e) audio/video recording reference, (f) audio and video QC checks were performed and satisfactory, (g) verification that the physical form matches the waste stream description and WMC, (h) absence of prohibited items, (i) gross container weight, (j) waste material parameter weights, and (k) signature and date of examination (signatures of both operators when applicable)?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	VE event for newly generated waste using two operators does not require an audio/video record. All applicable EV&V data is present.
(19) Is the description of container contents detailed enough to provide verification of estimated weights for the waste matrix parameters identified?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	
(20) Is there a valid second weight check for every 10 items?	N/A	MP-TRUW-8.2, C1-4	Not required for VEB.
(21) Verification of two operator signatures when doing VE?	Yes	MP-TRUW-8.2, C-3d(1) and Table C3-11	
(22) Are there 20 or fewer containers in the batch?	Yes	MP-TRUW-8.2, C1-3 and C3-10	
(23) Review all NCRs (open and closed). Can the batch be approved?	Yes	MP-TRUW-8.2, C3-13	
(24) All data associated with this BDR is acceptable for signature release?	Yes	MP-TRUW-8.2, C3-10b and C3-10b(1)	

Batch Id VEB12-01136 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Esignature History

Esig Approval ID	User ID	Esig Date	Approval Level	Comments
2432692	PFETZER	18-DEC-12	SPM	Promoted
2426842	CSIMMONS	12-DEC-12	ITR	Promoted batch to SPM level.
2426736	CSIMMONS	12-DEC-12	ITR	Sent batch back to operations for rework.
2426050	CSIMMONS	12-DEC-12	ITR	Sent batch to operations for rework on source container issues.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01135 **Container Id** 10473205 **Analysis Id** 0000295123

VE Date 11-DEC-12 02:47:02 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 222.71 lbs.

Closure Date 11-DEC-12 02:47:02 **Procedure Id** INST-FOI-17 **Net Weight** 196.71 lbs.

Container Type 55 **Revision** 25

Operator 1 NOLAN JACOBS **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 ANTHONY SIGMON **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 66 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? Yes **Are Sharp Objects Protected?** No

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste Incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment The remaining waste by weight percent is scrap metal. Corrected source container number from 10137455 to 10137445. NJ and AS 12/12/12

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01135 **Container Id** 10473205 **Analysis Id** 0000295123

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10137445	destroyed @ 676- BXI/15	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Wood	1.000	PINTS	0.702	0.700
Glass	0.500	PINTS	2.082	1.040
Lead	0.250	PINTS	11.451	2.860
Plastic	1.000	PINTS	0.937	0.940
Cloth Material	1.000	PINTS	2.000	2.000

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	100.000	189.165
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	2.860
Other Inorganic Materials	0.000	1.040
Cellulosics	0.000	2.700
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	0.940
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2424821	JMARTINEZ	11-DEC-12 02:47:02	
2424822	BTRIPP	11-DEC-12 02:47:05	
2426531	NJACOBS	12-DEC-12 14:18:09	
2426532	ASIGMEN	12-DEC-12 14:18:09	

-----End of VE Boxline Report-----

Batch Id VEB12-01135 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer DENISE LEE **Approval Level** Independent Technical Reviewer
Approval Date 17-DEC-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
1. Is the QA documentation for the Batch Data Reports complete and includes data reports and QC results? o VE Batch Coversheet o Table of Contents (manual review only) o VE Analysis Reports o Analytical Balance Calibration Check Sheet (Form-1215), if applicable (manual review only) o ITR Checklist (Form-1415, manual review only) o Batch Data Report Supplemental Comment Form (Form-1491, manual review only) o Associated NCRs (referenced in WTS) o Audio/Video Recording References, if applicable	Yes		
2. Are there 20 containers or less in the batch?	Yes		
3. Was each VE Operator qualified at the time of the VE event?	Yes		
4. Was a VE data form completed for each container in the batch?	Yes		
Was the data generated in a technically correct manner using the correct revision of INST-OI-34, Non-facility Visual Examination, INST-FOI-17, Facility Visual Examination Operations, or INST-FOI-22, Visual Examination of S3000 Waste in the Facility, as applicable.	Yes		
6. Was the correct revision of the procedure documented on each analysis report?	Yes		
7. Was the E-signature History review performed?	Yes		
8. Was guidance from VEE documented, as applicable?	N/A		
9. Does every drum reported in the batch have a valid audio/video recording (as applicable)?	N/A		
10. Does the physical form match the waste stream description, waste matrix code and IDC?	Yes		
11. Did the VE event result in an IDC/Waste Matrix Code change? If so, was an NCR initiated?	No		
12. Were the waste material parameters documented correctly?	Yes		
13. Was the presence or absence of prohibited items properly identified? o If prohibited items were identified, were NCRs initiated?	Yes		
14. Has the description of rigid liners and layers of confinement been properly documented?	Yes		
15. Was the drum age criteria (DAC) entered correctly and completely? o Closure Method(s) o Liner Puncture Status o Layers of Confinement o Closure Date o Packaging Configuration o Type and number of filters, as applicable o Liner hole presence and diameter, as applicable	Yes		

Batch Id VEB12-01135 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer DENISE LEE **Approval Level** Independent Technical Reviewer
Approval Date 17-DEC-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
16. Have filters been installed or removed from drum as recorded in WTS, as applicable?	N/A		
17. Hand calculations and unit conversions are correct? o Does the packaging weight plus the net weight equal the gross weight of the drum in the estimated waste material parameters, and for the unit conversions that are entered by volume or weight?	Yes		
18. Were all units and significant figures used correct for all reported volumes/weights?	Yes		
19. Has the data been reviewed for transcription errors as appropriate?	Yes		
20. Were the Visual Examination QAOs met? o Precision o Accuracy o Completeness o Comparability	Yes		
21. Is each data form signed by qualified VE Operators, as applicable per the appropriate procedure being used?	Yes		
22. Was the audio/video check satisfactory, as applicable?	N/A		
23. Was the scale or balance check weight event satisfactory, as applicable?	N/A		
24. Are the QC weight checks within the tolerance of the scale or balance, as applicable?	N/A		
25. Were any NCRs generated for drums containing prohibited items or any nonconforming conditions that failed to meet DQOs or QAOs? o Include the NCRs as appropriate, in the Batch Data Report.	No		
26. Were the rework requirements clearly identified in WTS or on the BDR?	Yes		See comments

Batch Id VEB12-01135 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer KEN BURNSIDE **Approval Level** SPM Data Validation
Approval Date 18-DEC-12 **Review Iteration** 2

Question Text	Answer	Requirement	Comment
(1) Has the batch received a Data Generation Level Independent Technical Review?	Yes	MP-TRUW-8.2, C3-10b(1)	
(2) Are the batch data review checklists complete?	Yes	MP-TRUW-8.2, C3-10b(1)	
(3) When identified, were PCBs, mercury, lead, or other hazardous contaminants consistent with the waste stream AK Summary Report(s) and/or AK documentation?	N/A	MP-TRUW-8.2, C4-3	
(4) Are any ignitable, corrosive, or reactive wastes identified?	No	MP-TRUW-8.2, C4-3	
(5) Are the packaging configurations identified on the VE consistent with the waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(6) Do the drums in this batch contain typical waste items consistent with waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(7) Are the Waste Matrix Codes and physical form descriptions consistent with AK?	Yes	MP-TRUW-8.2, C4-3	
(8) Have all AK discrepancies been resolved and have all AK Resolution checklists been approved? Reference all waste stream AK documentation used in review of this data package.	N/A	MP-TRUW-8.2, C4-3	
(9) Does the batch report identify the correct implementing procedure number and revision number used for this testing method?	Yes	MP-TRUW-8.2, C3-4 and Table C3-11	
(10) Have the Waste Matrix Code (WMC) and IDC for all drums in the batch remained the same as originally assigned by the historical designation? NOTE: If not, note the drum number in the comment field and notify the Acceptable Knowledge Expert (AKE) if an NCR does not exist for the WMC and IDC change.	Yes	MP-TRUW-8.2, C-3c and C1-4	
(11) Does the physical form of the waste match the WMC, waste stream description, and identify the absence of prohibited items?	Yes	MP-TRUW-8.2, C-3c and C1-4	
(12) If observable liquids exist in the drum, is an estimate of quantity given?	N/A	MP-TRUW-8.2, C-3c and C1-4	
(13) Precision: Have all discrepancies been reconciled between the operator and the ITR with regard to identification of WMC, liquids in excess of TSDF-WAC limits, and compressed gases?	Yes	MP-TRUW-8.2 C3-4b	
(14) Accuracy: Have all operators passed a comprehensive examination and demonstrated satisfactory performance in the presence of the VE expert during initial and subsequent qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(15) Completeness: Has a validated VE data form been obtained for 100% of the waste containers subject to VE?	Yes	MP-TRUW-8.2 C3-4b	
(16) Comparability: Has the comparability of VE data from different operators been enhanced by use of standardized VE procedures and operator qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(17) Does the data for all containers within this batch meet the review, validation, and verification requirements?	Yes	MP-TRUW-8.2, C3-10b and Table C3-11	

Batch Id VEB12-01135 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Reviewer KEN BURNSIDE **Approval Level** SPM Data Validation
Approval Date 18-DEC-12 **Review Iteration** 2

Question Text	Answer	Requirement	Comment
· Are proper units (e.g. Liters or pounds) and significant figure used? · Is the BDR complete (all pages identified in the BDR and numbered according)? - VE Batch Coversheet - Table of Contents (manual review only) - VE Analysis Reports - Analytical Balance Calibration Checklist (if applicable) - ITR Checklist (Form-1415) - Associated NCRs - Audio/Video Recordings (if applicable)			
(18) Do the drum reports contain the (a) Batch Data Report number and date, (b) waste container number (c)WMC, (d) implementing procedure and revision, (e) audio/video recording reference, (f) audio and video QC checks were performed and satisfactory, (g) verification that the physical form matches the waste stream description and WMC, (h) absence of prohibited items, (i) gross container weight, (j) waste material parameter weights, and (k) signature and date of examination (signatures of both operators when applicable)?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	
(19) Is the description of container contents detailed enough to provide verification of estimated weights for the waste matrix parameters identified?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	
(20) Is there a valid second weight check for every 10 items?	N/A	MP-TRUW-8.2, C1-4	
(21) Verification of two operator signatures when doing VE?	Yes	MP-TRUW-8.2, C-3d(1) and Table C3-11	
(22) Are there 20 or fewer containers in the batch?	Yes	MP-TRUW-8.2, C1-3 and C3-10	
(23) Review all NCRs (open and closed). Can the batch be approved?	Yes	MP-TRUW-8.2, C3-13	
(24) All data associated with this BDR is acceptable for signature release?	Yes	MP-TRUW-8.2, C3-10b and C3-10b(1)	

Batch Id VEB12-01135 **Open Date** 11-DEC-12 **Close Date** 11-DEC-12

Esignature History

Esig Approval ID	User ID	Esig Date	Approval Level	Comments
2432470	KBURNSIDE	18-DEC-12	SPM	SPM reviewed and approved.
2430942	DLEE	17-DEC-12	ITR	ITR Checklist corrected. Promote to SPM.
2427482	KBURNSIDE	13-DEC-12	SPM	Please review ITR checklist question #5 and update as necessary. kb 12/13/12
2426751	RGRISE	12-DEC-12	ITR	Promote to SPM level
2426366	RGRISE	12-DEC-12	ITR	Demote to ops. for rework.

AMWTP
Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013
Time: 09:30

Batch Id VEB12-01135 **Container Id** 10473213 **Analysis Id** 0000295126

VE Date 11-DEC-12 03:20:14 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 183.02 lbs.

Closure Date 11-DEC-12 03:20:14 **Procedure Id** INST-FOI-17 **Net Weight** 157.02 lbs.

Container Type 55 **Revision** 25

Operator 1 MIKE REIDER **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 JEFFREY K BAILEY **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 65 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? Yes **Are Sharp Objects Protected?** No

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste Incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment The remaining waste by weight percent is iron based metal alloys consisting of misc. scrap metal.

AMWTP
Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013
Time: 09:30

Batch Id VEB12-01135 **Container Id** 10473213 **Analysis Id** 0000295126

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10137373	destroyed @ 676- BXI/9	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Wood	2.000	PINTS	0.702	1.400
Cardboard	1.000	PINTS	0.833	0.830

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	100.000	154.785
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	2.230
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	0.000
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2424853	MREIDER	11-DEC-12 03:20:14	
2424854	JBAILEY	11-DEC-12 03:20:15	

-----End of VE Boxline Report-----

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01135 **Container Id** 10473214 **Analysis Id** 0000295122

VE Date 11-DEC-12 02:49:36 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 242.55 lbs.

Closure Date 11-DEC-12 02:49:36 **Procedure Id** INST-FOI-17 **Net Weight** 216.55 lbs.

Container Type 55 **Revision** 25

Operator 1 MIKE REIDER **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 JEFFREY K BAILEY **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 75 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? Yes **Are Sharp Objects Protected?** No

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste Incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment The remaining waste by weight percent is iron based metal alloys consisting of misc. scrap metal.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01135 **Container Id** 10473214 **Analysis Id** 0000295122

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10137373	destroyed @ 676- BXI/9	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Rubber	1.000	PINTS	1.554	1.550
Wood	8.000	PINTS	0.702	5.620

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	100.000	209.380
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	5.620
Rubber	0.000	1.550
Plastic (Waste Materials)	0.000	0.000
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2424840	MREIDER	11-DEC-12 02:49:36	
2424841	JBAILEY	11-DEC-12 02:49:36	

-----End of VE Boxline Report-----

Working Copy

TRU Waste Confirmation (RTR/VE) Approval Form

CH OR RH:	CH
Packaging Type:	TRUPACT-II

Procedure No:	WP 02-RC1108 Rev.11	RTR and/or VE Media and/or Records Review	
Generator Site:	AMWTP	Shipment Number:	IN130032
Waste Stream Profile Number:	BN510.1	Shipping Container Type:	100-Gal
Shipping Container Number:	BN10471788		

Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid in Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	ITR	PCR
4/3/2013	96663	10471483	VEB12-01089	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
4/3/2013	96663	10471484	VEB12-01088	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
4/3/2013	96663	10471487	VEB12-01088	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
4/3/2013	96663	10471489	VEB12-01089	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
4/3/2013	96663	10471674	VEB12-01089	N/A	YES	NO	NO	S5490 UNKNOWN/OTHER HETEROGENEOUS DEBRIS	N/A	YES	N/A	JM	N/A	DS	AR
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with HWN U134 assigned shall have no observable liquid

OP Reviewed by:	Jay Mahlin (Printed Name:)	Jay Mahlin (Signature:)	4/3/2013 (Date:)
IO Reviewed by:	N/A (Printed Name:)	N/A (Signature:)	N/A (Date:)
ITR Reviewed by:	Dustin Stegman (Printed Name:)	Dustin Stegman (Signature:)	4-3-13 (Date:)
PCR Reviewed by:	Adam K Ray (Printed Name:)	Adam K Ray (Signature:)	4-3-13 (Date:)

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	N/A

Shipment Number: IN130032
Container Number: BN10471788
Container Type: 23 - 100 GAL DRUM (DIRECT LOAD)

Certification Data Values

Generator Site:	BN	Waste Stream Profile Code:	BN510.1
Waste Handling Code:	CH	IDC Code:	550
Payload Number:	96663	Waste Matrix Code:	S5490
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	187.58
4	OTHER INORGANIC MATERIALS	0.45
6	CELLULOSICS	4.94
7	RUBBER	5.29
8	PLASTICS	67.79
13	STEEL CONTAINER MATERIALS	56.70
	Waste Weight:	266.05
	Packaging Weight:	56.70
	Total Material Weight:	322.75

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D022	CHLOROFORM
D027	1,4-DICHLOROBENZENE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
D030	2,4-DINITROTOLUENE
D034	HEXACHLOROETHANE

Shipment Number: IN130032
Container Number: BN10471788
Container Type: 23 - 100 GAL DRUM (DIRECT LOAD)

Hazardous Codes

Hazardous Code	Description
D037	PENTACHLOROPHENOL
D043	VINYL CHLORIDE
F001	SPENT HALOGENATED SOLVENTS
F002	SPENT HALOGENATED SOLVENTS
F004	SPENT NONHALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS
F006	WASTEWATER TREATMENT SLUDGE
F007	SPENT CYANIDE PLATING BATH
F009	SPENT STRIPPING SOLUTION

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
BN	9VE7	BN-VEB: BOX LINE VE (REPACK BOXES TO DRUMS)	12/01/2012

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Advanced Mixed Waste Treatment Project

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Confirmation Report Coversheet

Date: 03-Apr-2013

Time: 09:30

Payload Container ID BN10471788

Shipment ID IN130032

Payload ID 96663

Waste Stream Profile BN510.1

Payload Container Type FOR NEW DRUM - 100

Test Facility Idaho AMWTP

Waste Matrix Code S5490

CHARACTERIZATION METHODS

Container	Waste Matrix Code	Characterization
10471483	S5490	VEB
10471484	S5490	VEB
10471487	S5490	VEB
10471489	S5490	VEB
10471674	S5490	VEB
BN10471788	S5490	

WASTE HAZARD CODES

EPA Codes	Description
D004	Arsenic
D005	Barium
D006	Cadmium
D007	Chromium
D008	Lead
D009	Mercury
D010	Selenium
D011	Silver
D022	Chloroform
D027	1,4-Dichlorobenzene
D028	1,2-Dichloroethane
D029	1,1-Dichloroethylene
D030	2,4-Dinitrotoluene
D034	Hexachloroethane
D037	Pentachlorophenol
D043	Vinyl chloride
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2,trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F004	The following spent nonhalogenated solvents: cresols, cresylic acid, and nitrobenzene; and the still bottoms from the recovery of these solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F005	The following spent nonhalogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
F007	Spent cyanide plating bath solutions from electroplating operations.
F009	Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.

NONCONFORMANCES

AMWTP

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Confirmation Report Coversheet

Date: 03-Apr-2013

Time: 09:30

Container	NCR Number	Status	Comment

***** End of Report *****

AMWTP

Advanced Mixed Waste Treatment Project

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VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01089 **Container Id** 10471483 **Analysis Id** 0000294099

VE Date 01-DEC-12 03:44:06 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 74.97 lbs.

Closure Date 01-DEC-12 03:44:06 **Procedure Id** INST-FOI-17 **Net Weight** 48.97 lbs.

Container Type 55 **Revision** 25

Operator 1 SHANE HIGH **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 ROBERT MINTON **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 80 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? No **Are Sharp Objects Protected?** Yes

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste Incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment Waste is Plastic consisting of bubble suits, bags, tape, and PPE.

AMWTP
Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013
Time: 09:30

Batch Id VEB12-01089 **Container Id** 10471483 **Analysis Id** 0000294099

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10176164	destroyed @ 676- BXI/9	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Paper	2.000	PINTS	0.969	1.940
Rubber	4.000	PINTS	1.554	6.220

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	0.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	1.940
Rubber	0.000	6.220
Plastic (Waste Materials)	100.000	40.810
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2413242	SHIGH	01-DEC-12 03:44:07	
2413243	RMINTON	01-DEC-12 03:44:09	

End of VE Boxline Report

Batch Id VEB12-01089 **Open Date** 01-DEC-12 **Close Date** 01-DEC-12

Reviewer CRAIG SIMMONS **Approval Level** Independent Technical Reviewer
Approval Date 04-DEC-12 **Review Iteration** 4

Question Text	Answer	Requirement	Comment
1. Is the QA documentation for the Batch Data Reports complete and includes data reports and QC results? o VE Batch Coversheet o Table of Contents (manual review only) o VE Analysis Reports o Analytical Balance Calibration Check Sheet (Form-1215), if applicable (manual review only) o ITR Checklist (Form-1415, manual review only) o Batch Data Report Supplemental Comment Form (Form-1491, manual review only) o Associated NCRs (referenced in WTS) o Audio/Video Recording References, if applicable	Yes		
2. Are there 20 containers or less in the batch?	Yes		
3. Was each VE Operator qualified at the time of the VE event?	Yes		
4. Was a VE data form completed for each container in the batch?	Yes		
Was the data generated in a technically correct manner using the correct revision of INST-OI-34, Non-facility Visual Examination, INST-FOI-17, Facility Visual Examination Operations, or INST-FOI-22, Visual Examination of S3000 Waste in the Facility, as applicable.	Yes		
6. Was the correct revision of the procedure documented on each analysis report?	Yes		
7. Was the E-signature History review performed?	Yes		
8. Was guidance from VEE documented, as applicable?	N/A		Not applicable for this VEB batch.
9. Does every drum reported in the batch have a valid audio/video recording (as applicable)?	N/A		Not applicable for this VEB batch.
10. Does the physical form match the waste stream description, waste matrix code and IDC?	Yes		
11. Did the VE event result in an IDC/Waste Matrix Code change? If so, was an NCR initiated?	No		
12. Were the waste material parameters documented correctly?	Yes		
13. Was the presence or absence of prohibited items properly identified? o If prohibited items were identified, were NCRs initiated?	Yes		
14. Has the description of rigid liners and layers of confinement been properly documented?	Yes		
15. Was the drum age criteria (DAC) entered correctly and completely? o Closure Method(s) o Liner Puncture Status o Layers of Confinement o Closure Date o Packaging Configuration o Type and number of filters, as applicable o Liner hole presence and diameter, as applicable	Yes		
16. Have filters been installed or removed from drum as	N/A		Not applicable for this VEB batch.

Batch Id VEB12-01089 **Open Date** 01-DEC-12 **Close Date** 01-DEC-12

Reviewer CRAIG SIMMONS **Approval Level** Independent Technical Reviewer
Approval Date 04-DEC-12 **Review Iteration** 4

Question Text	Answer	Requirement	Comment
recorded in WTS, as applicable?			
17. Hand calculations and unit conversions are correct? o Does the packaging weight plus the net weight equal the gross weight of the drum in the estimated waste material parameters, and for the unit conversions that are entered by volume or weight?	Yes		
18. Were all units and significant figures used correct for all reported volumes/weights?	Yes		
19. Has the data been reviewed for transcription errors as appropriate?	Yes		
20. Were the Visual Examination QAOs met? o Precision o Accuracy o Completeness o Comparability	Yes		
21. Is each data form signed by qualified VE Operators, as applicable per the appropriate procedure being used?	Yes		
22. Was the audio/video check satisfactory, as applicable?	N/A		Not applicable for this VEB batch.
23. Was the scale or balance check weight event satisfactory, as applicable?	N/A		Not applicable for this VEB batch.
24. Are the QC weight checks within the tolerance of the scale or balance, as applicable?	N/A		Not applicable for this VEB batch.
25. Were any NCRs generated for drums containing prohibited items or any nonconforming conditions that failed to meet DQOs or QAOs? o Include the NCRs as appropriate, in the Batch Data Report.	No		
26. Were the rework requirements clearly identified in WTS or on the BDR?	Yes		See batch comments.

Batch Id VEB12-01089 **Open Date** 01-DEC-12 **Close Date** 01-DEC-12

Reviewer PAM FETZER **Approval Level** SPM Data Validation
Approval Date 04-DEC-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
(1) Has the batch received a Data Generation Level Independent Technical Review?	Yes	MP-TRUW-8.2, C3-10b(1)	
(2) Are the batch data review checklists complete?	Yes	MP-TRUW-8.2, C3-10b(1)	
(3) When identified, were PCBs, mercury, lead, or other hazardous contaminants consistent with the waste stream AK Summary Report(s) and/or AK documentation?	N/A	MP-TRUW-8.2, C4-3	None identified.
(4) Are any ignitable, corrosive, or reactive wastes identified?	No	MP-TRUW-8.2, C4-3	
(5) Are the packaging configurations identified on the VE consistent with the waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(6) Do the drums in this batch contain typical waste items consistent with waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(7) Are the Waste Matrix Codes and physical form descriptions consistent with AK?	Yes	MP-TRUW-8.2, C4-3	
(8) Have all AK discrepancies been resolved and have all AK Resolution checklists been approved? Reference all waste stream AK documentation used in review of this data package.	N/A	MP-TRUW-8.2, C4-3	No AK discrepancies. References: AMWTP-RPT-TRUW-05 AMWTP-RPT-TRUW-83
(9) Does the batch report identify the correct implementing procedure number and revision number used for this testing method?	Yes	MP-TRUW-8.2, C3-4 and Table C3-11	
(10) Have the Waste Matrix Code (WMC) and IDC for all drums in the batch remained the same as originally assigned by the historical designation? NOTE: If not, note the drum number in the comment field and notify the Acceptable Knowledge Expert (AKE) if an NCR does not exist for the WMC and IDC change.	N/A	MP-TRUW-8.2, C-3c and C1-4	BN-508 is assigned for newly-generated waste as a result of boxline operations. AKE reviews and NCRs are not required.
(11) Does the physical form of the waste match the WMC, waste stream description, and identify the absence of prohibited items?	Yes	MP-TRUW-8.2, C-3c and C1-4	
(12) If observable liquids exist in the drum, is an estimate of quantity given?	N/A	MP-TRUW-8.2, C-3c and C1-4	No observable liquids exist.
(13) Precision: Have all discrepancies been reconciled between the operator and the ITR with regard to identification of WMC, liquids in excess of TSDF-WAC limits, and compressed gases?	Yes	MP-TRUW-8.2 C3-4b	
(14) Accuracy: Have all operators passed a comprehensive examination and demonstrated satisfactory performance in the presence of the VE expert during initial and subsequent qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(15) Completeness: Has a validated VE data form been obtained for 100% of the waste containers subject to VE?	Yes	MP-TRUW-8.2 C3-4b	
(16) Comparability: Has the comparability of VE data from different operators been enhanced by use of standardized VE procedures and operator qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(17) Does the data for all containers within this batch meet the review, validation, and verification requirements?	Yes	MP-TRUW-8.2, C3-10b and Table C3-11	

Batch Id VEB12-01089 **Open Date** 01-DEC-12 **Close Date** 01-DEC-12

Reviewer PAM FETZER **Approval Level** SPM Data Validation
Approval Date 04-DEC-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
· Are proper units (e.g. Liters or pounds) and significant figure used? · Is the BDR complete (all pages identified in the BDR and numbered according)? - VE Batch Coversheet - Table of Contents (manual review only) - VE Analysis Reports - Analytical Balance Calibration Checklist (if applicable) - ITR Checklist (Form-1415) - Associated NCRs - Audio/Video Recordings (if applicable)			
(18) Do the drum reports contain the (a) Batch Data Report number and date, (b) waste container number (c)WMC, (d) implementing procedure and revision, (e) audio/video recording reference, (f) audio and video QC checks were performed and satisfactory, (g) verification that the physical form matches the waste stream description and WMC, (h) absence of prohibited items, (i) gross container weight, (j) waste material parameter weights, and (k) signature and date of examination (signatures of both operators when applicable)?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	VE event for newly generated waste using two operators does not require a video and audio/record. All applicable EV&V data is present.
(19) Is the description of container contents detailed enough to provide verification of estimated weights for the waste matrix parameters identified?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	
(20) Is there a valid second weight check for every 10 items?	N/A	MP-TRUW-8.2, C1-4	Not required for VEB
(21) Verification of two operator signatures when doing VE?	Yes	MP-TRUW-8.2, C-3d(1) and Table C3-11	
(22) Are there 20 or fewer containers in the batch?	Yes	MP-TRUW-8.2, C1-3 and C3-10	
(23) Review all NCRs (open and closed). Can the batch be approved?	Yes	MP-TRUW-8.2, C3-13	
(24) All data associated with this BDR is acceptable for signature release?	Yes	MP-TRUW-8.2, C3-10b and C3-10b(1)	

Batch Id VEB12-01089 **Open Date** 01-DEC-12 **Close Date** 01-DEC-12

Esignature History

Esig Approval ID	User ID	Esig Date	Approval Level	Comments
2416471	PFETZER	04-DEC-12	SPM	promote
2416470	CSIMMONS	04-DEC-12	ITR	Promoted batch to SPM level.
2416461	PFETZER	04-DEC-12	SPM	demote for ITR checklist question #26.
2416412	CSIMMONS	04-DEC-12	ITR	Promoted batch to SPM level.
2416251	CSIMMONS	04-DEC-12	ITR	Sent batch to operations for rework per SPM batch comment.
2416206	PFETZER	04-DEC-12	SPM	Waste parameters for 10471613.
2414431	CSIMMONS	03-DEC-12	ITR	Promoted batch to SPM level.

AMWTP
Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013
Time: 09:30

Batch Id VEB12-01088 **Container Id** 10471484 **Analysis Id** 0000294086

VE Date 01-DEC-12 00:55:28 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 158.76 lbs.

Closure Date 01-DEC-12 00:55:28 **Procedure Id** INST-FOI-17 **Net Weight** 132.76 lbs.

Container Type 55 **Revision** 25

Operator 1 SHANE HIGH **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 ROBERT MINTON **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 75 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? Yes **Are Sharp Objects Protected?** No

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment Waste is Iron based metals consisting of scrap metal.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01088 **Container Id** 10471484 **Analysis Id** 0000294086

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10176164	destroyed @ 676- BXI/9	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Paper	0.250	PINTS	0.969	0.240
Rubber	0.500	PINTS	1.554	0.780
Plastic	10.000	PINTS	0.937	9.370
Floor Sweepings	1.000	PINTS	1.000	1.000

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	100.000	121.370
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	1.000
Cellulosics	0.000	0.240
Rubber	0.000	0.780
Plastic (Waste Materials)	0.000	9.370
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2413204	SHIGH	01-DEC-12 00:55:29	
2413205	RMINTON	01-DEC-12 00:55:32	

-----End of VE Boxline Report-----

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

Checklist Report

Date: 03-Apr-2013

Time: 09:36

Batch Id VEB12-01088 **Open Date** 30-NOV-12 **Close Date** 01-DEC-12

Reviewer JAY SIMONSON **Approval Level** Independent Technical Reviewer

Approval Date 21-DEC-12 **Review Iteration** 1

Question Text	Answer	Requirement	Comment
1. Is the QA documentation for the Batch Data Reports complete and includes data reports and QC results? o VE Batch Coversheet o Table of Contents (manual review only) o VE Analysis Reports o Analytical Balance Calibration Check Sheet (Form-1215), if applicable (manual review only) o ITR Checklist (Form-1415, manual review only) o Batch Data Report Supplemental Comment Form (Form-1491, manual review only) o Associated NCRs (referenced in WTS) o Audio/Video Recording References, if applicable	Yes		
2. Are there 20 containers or less in the batch?	Yes		
3. Was each VE Operator qualified at the time of the VE event?	Yes		
4. Was a VE data form completed for each container in the batch?	Yes		
Was the data generated in a technically correct manner using the correct revision of INST-OI-34, Non-facility Visual Examination, INST-FOI-17, Facility Visual Examination Operations, or INST-FOI-22, Visual Examination of S3000 Waste in the Facility, as applicable.	Yes		
6. Was the correct revision of the procedure documented on each analysis report?	Yes		
7. Was the E-signature History review performed?	Yes		
8. Was guidance from VEE documented, as applicable?	N/A		
9. Does every drum reported in the batch have a valid audio/video recording (as applicable)?	N/A		
10. Does the physical form match the waste stream description, waste matrix code and IDC?	Yes		
11. Did the VE event result in an IDC/Waste Matrix Code change? If so, was an NCR initiated?	No		
12. Were the waste material parameters documented correctly?	Yes		
13. Was the presence or absence of prohibited items properly identified? o If prohibited items were identified, were NCRs initiated?	Yes		
14. Has the description of rigid liners and layers of confinement been properly documented?	Yes		
15. Was the drum age criteria (DAC) entered correctly and completely? o Closure Method(s) o Liner Puncture Status o Layers of Confinement o Closure Date o Packaging Configuration o Type and number of filters, as applicable o Liner hole presence and diameter, as applicable	Yes		

Batch Id VEB12-01088 **Open Date** 30-NOV-12 **Close Date** 01-DEC-12

Reviewer JAY SIMONSON **Approval Level** Independent Technical Reviewer
Approval Date 21-DEC-12 **Review Iteration** 1

Question Text	Answer	Requirement	Comment
16. Have filters been installed or removed from drum as recorded in WTS, as applicable?	N/A		
17. Hand calculations and unit conversions are correct? o Does the packaging weight plus the net weight equal the gross weight of the drum in the estimated waste material parameters, and for the unit conversions that are entered by volume or weight?	Yes		
18. Were all units and significant figures used correct for all reported volumes/weights?	Yes		
19. Has the data been reviewed for transcription errors as appropriate?	Yes		
20. Were the Visual Examination QAOs met? o Precision o Accuracy o Completeness o Comparability	Yes		
21. Is each data form signed by qualified VE Operators, as applicable per the appropriate procedure being used?	Yes		
22. Was the audio/video check satisfactory, as applicable?	N/A		
23. Was the scale or balance check weight event satisfactory, as applicable?	N/A		
24. Are the QC weight checks within the tolerance of the scale or balance, as applicable?	N/A		
25. Were any NCRs generated for drums containing prohibited items or any nonconforming conditions that failed to meet DQOs or QAOs? o Include the NCRs as appropriate, in the Batch Data Report.	No		
26. Were the rework requirements clearly identified in WTS or on the BDR?	N/A		No operator rework.

Batch Id VEB12-01088 **Open Date** 30-NOV-12 **Close Date** 01-DEC-12

Reviewer NICK STYHL **Approval Level** SPM Data Validation
Approval Date 26-DEC-12 **Review Iteration** 1

Question Text	Answer	Requirement	Comment
(1) Has the batch received a Data Generation Level Independent Technical Review?	Yes	MP-TRUW-8.2, C3-10b(1)	
(2) Are the batch data review checklists complete?	Yes	MP-TRUW-8.2, C3-10b(1)	
(3) When identified, were PCBs, mercury, lead, or other hazardous contaminants consistent with the waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(4) Are any ignitable, corrosive, or reactive wastes identified?	No	MP-TRUW-8.2, C4-3	
(5) Are the packaging configurations identified on the VE consistent with the waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(6) Do the drums in this batch contain typical waste items consistent with waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(7) Are the Waste Matrix Codes and physical form descriptions consistent with AK?	Yes	MP-TRUW-8.2, C4-3	
(8) Have all AK discrepancies been resolved and have all AK Resolution checklists been approved? Reference all waste stream AK documentation used in review of this data package.	N/A	MP-TRUW-8.2, C4-3	No discrepancies. MP-TRUW-05, MP-TRUW-06
(9) Does the batch report identify the correct implementing procedure number and revision number used for this testing method?	Yes	MP-TRUW-8.2, C3-4 and Table C3-11	
(10) Have the Waste Matrix Code (WMC) and IDC for all drums in the batch remained the same as originally assigned by the historical designation? NOTE: If not, note the drum number in the comment field and notify the Acceptable Knowledge Expert (AKE) if an NCR does not exist for the WMC and IDC change.	N/A	MP-TRUW-8.2, C-3c and C1-4	The IDC/WMC and summary category for newly generated waste are assigned by the operators during the VE event.
(11) Does the physical form of the waste match the WMC, waste stream description, and identify the absence of prohibited items?	Yes	MP-TRUW-8.2, C-3c and C1-4	
(12) If observable liquids exist in the drum, is an estimate of quantity given?	N/A	MP-TRUW-8.2, C-3c and C1-4	No residual liquids exist.
(13) Precision: Have all discrepancies been reconciled between the operator and the ITR with regard to identification of WMC, liquids in excess of TSDF-WAC limits, and compressed gases?	Yes	MP-TRUW-8.2 C3-4b	
(14) Accuracy: Have all operators passed a comprehensive examination and demonstrated satisfactory performance in the presence of the VE expert during initial and subsequent qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(15) Completeness: Has a validated VE data form been obtained for 100% of the waste containers subject to VE?	Yes	MP-TRUW-8.2 C3-4b	
(16) Comparability: Has the comparability of VE data from different operators been enhanced by use of standardized VE procedures and operator qualifications?	Yes	MP-TRUW-8.2 C3-4b	
(17) Does the data for all containers within this batch meet the review, validation, and verification requirements?	Yes	MP-TRUW-8.2, C3-10b and Table C3-11	

Batch Id VEB12-01088 **Open Date** 30-NOV-12 **Close Date** 01-DEC-12

Reviewer NICK STYHL **Approval Level** SPM Data Validation
Approval Date 26-DEC-12 **Review Iteration** 1

Question Text	Answer	Requirement	Comment
· Are proper units (e.g. Liters or pounds) and significant figure used? · Is the BDR complete (all pages identified in the BDR and numbered according)? - VE Batch Coversheet - Table of Contents (manual review only) - VE Analysis Reports - Analytical Balance Calibration Checklist (if applicable) - ITR Checklist (Form-1415) - Associated NCRs - Audio/Video Recordings (if applicable)			
(18) Do the drum reports contain the (a) Batch Data Report number and date, (b) waste container number (c)WMC, (d) implementing procedure and revision, (e) audio/video recording reference, (f) audio and video QC checks were performed and satisfactory, (g) verification that the physical form matches the waste stream description and WMC, (h) absence of prohibited items, (i) gross container weight, (j) waste material parameter weights, and (k) signature and date of examination (signatures of both operators when applicable)?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	Audio/Video recording and QC checks reference not applicable.
(19) Is the description of container contents detailed enough to provide verification of estimated weights for the waste matrix parameters identified?	Yes	MP-TRUW-8.2, C1-4 and Table C3-11	
(20) Is there a valid second weight check for every 10 items?	N/A	MP-TRUW-8.2, C1-4	Scales were not used during this VE event.
(21) Verification of two operator signatures when doing VE?	Yes	MP-TRUW-8.2, C-3d(1) and Table C3-11	
(22) Are there 20 or fewer containers in the batch?	Yes	MP-TRUW-8.2, C1-3 and C3-10	
(23) Review all NCRs (open and closed). Can the batch be approved?	Yes	MP-TRUW-8.2, C3-13	
(24) All data associated with this BDR is acceptable for signature release?	Yes	MP-TRUW-8.2, C3-10b and C3-10b(1)	

Batch Id VEB12-01088 **Open Date** 30-NOV-12 **Close Date** 01-DEC-12

Esignature History

Esig Approval ID	User ID	Esig Date	Approval Level	Comments
2436812	NSTYHL	26-DEC-12	SPM	Approve batch.
2435398	JSIMONSON	21-DEC-12	ITR	Promoted to SPM.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01088 **Container Id** 10471487 **Analysis Id** 0000294084

VE Date 01-DEC-12 00:32:40 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 63.95 lbs.

Closure Date 01-DEC-12 00:32:40 **Procedure Id** INST-FOI-17 **Net Weight** 37.95 lbs.

Container Type 55 **Revision** 25

Operator 1 SHANE HIGH **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 ROBERT MINTON **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 80 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? No **Are Sharp Objects Protected?** Yes

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste Incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment Waste is Plastic consisting of sheeting and tape.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01088 **Container Id** 10471487 **Analysis Id** 0000294084

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10176164	destroyed @ 676- BXI/9	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Cardboard	8.000	PINTS	0.833	6.660

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	0.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	6.660
Rubber	0.000	0.000
Plastic (Waste Materials)	100.000	31.285
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2413199	SHIGH	01-DEC-12 00:32:40	
2413200	RMINTON	01-DEC-12 00:32:44	

-----End of VE Boxline Report-----

AMWTP
Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013
Time: 09:30

Batch Id VEB12-01089 **Container Id** 10471489 **Analysis Id** 0000294094

VE Date 01-DEC-12 02:46:40 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 97.02 lbs.

Closure Date 01-DEC-12 02:46:40 **Procedure Id** INST-FOI-17 **Net Weight** 71.02 lbs.

Container Type 55 **Revision** 25

Operator 1 SHANE HIGH **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 ROBERT MINTON **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 78 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? No **Are Sharp Objects Protected?** Yes

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment Waste is Plastic consisting of bubble suits, hoses, bags, tape, and PPE.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01089 **Container Id** 10471489 **Analysis Id** 0000294094

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10176164	destroyed @ 676- BXI/9	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Paper	0.250	PINTS	0.969	0.240
Rubber	3.000	PINTS	1.554	4.660

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	0.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	0.240
Rubber	0.000	4.660
Plastic (Waste Materials)	100.000	66.120
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2413234	SHIGH	01-DEC-12 02:46:41	
2413235	RMINTON	01-DEC-12 02:46:43	

-----End of VE Boxline Report-----

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01089 **Container Id** 10471674 **Analysis Id** 0000294103

VE Date 01-DEC-12 07:39:07 **Analysis Status** Pass

Gen-IDC Code BN-508 AMWTP Newly Generated Debris **VE Weight** 191.84 lbs.

Closure Date 01-DEC-12 07:39:07 **Procedure Id** INST-FOI-17 **Net Weight** 165.84 lbs.

Container Type 55 **Revision** 25

Operator 1 BRIAN HAWKE **Waste Matrix** S5490 **Summary Category Group** S5000

Operator 2 JEFFREY K BAILEY **Equipment ID** VE BiD RPCK

General

Rigid Liner Present? No **Liner Type** NO LINER **Closure Method** No Bags

Liner Punctured? Yes **Layers Of Confinement** 0 **Fill Factor** 70 % **Liner Lid Present** No

Liquids

Liquids Present? No **Comment**

Liquid Between Liner and Drum 0 pints **Other Liquids** 0 pints

Containerized Liquid pints **Total Liquid Amount** 0 pints

Internal Container with Liquid 0 pints

Internal Container with Liquid No

Prohibited Liquids Present No

Containerized Liquid

Contents

Sharp Objects? Yes **Are Sharp Objects Protected?** No

	Value	Comment
Prohibited Compressed Gas Present?	No	
Explosives Present?	No	
Pyrophorics Present?	No	
Mercury Contaminated>1000PPM	No	
PCBs Present?	No	
PCB Mass (lbs)	0	
Wet Cell Batteries Present?	No	
Corrosives,Ignitables or Reactives Present?	No	
Beryllium Contaminates Present?	No	
Hazardous-Only Waste Present?	No	
Is Waste Incompatible with backfill, packaging materials, or shipping container materials?	No	
Sealed Containers Over 4L?	No	

IDC Verification

Is IDC correct? Yes **Recommended IDC** -

IDC Change Reason

Visual Exam Comment The remaining waste by weight percent is iron based alloys consisting of scrap metal.

AMWTP

Advanced Mixed Waste Treatment Project

AMWTP

VE Boxline and Repackaging Report

Date: 03-Apr-2013

Time: 09:30

Batch Id VEB12-01089 **Container Id** 10471674 **Analysis Id** 0000294103

Source Container

Is there a source container? Yes

Source Container ID	Location	IDC
10176164	destroyed @ 676- BXI/9	RF-480

IDC CODES

Current Container IDC Code: BN-508 **Recommended IDC Code:** -

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Weight

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt	Item Wt(lbs)
Paper	1.000	PINTS	0.969	0.970
Cardboard	1.000	PINTS	0.833	0.830
Plastic	2.000	PINTS	0.937	1.870

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	100.000	162.165
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	1.800
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	1.870
Inorganic matrix	0.000	0.000
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	26.000
Plastic (packaging materials)	0.000	0.000
Cellulosics Packaging	0.000	0.000

Esignature History

Esig Approval Id	User Id	E-signature Date	Comment
2413274	BHAWKE	01-DEC-12 07:39:07	
2413275	JBAILEY	01-DEC-12 07:39:09	

-----End of VE Boxline Report-----

Galbraith, Ron - RES

From: Galbraith, Ron - RES
Sent: Tuesday, April 02, 2013 11:14 AM
To: Weyerman, Wade - LANL; Landon, Dave - LANL; Rigby, Brandon - LANL; Kirkes, Creta - NWP; Nelson, Laura - NWP; Sensibaugh, Mike - NWP; Joo, Irene - NWP
Cc: Haschets, John - RES; Romo, Favian - WRES; Urquidez, Ken - RES; Galbraith, Ron - RES; Ray, Adam - RES; Stegman, Dustin - RES
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER AER13005

Shipment Number AER13005 has been confirmed by Waste Confirmation in the WDS.

Ronald Galbraith
Nuclear Waste Partnership, LLC - Regulatory/Environmental Support Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
(575) 234-7685
(575) 302-7251

BEST AVAILABLE COPY

-----Original Message-----
From: wdsadmin@wipp.ws [mailto:wdsadmin@wipp.ws]
Sent: Tuesday, April 02, 2013 11:13 AM
To: DL WWIS C
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER AER13005 (prd05)

Shipment Number AER13005 has been confirmed by Waste Confirmation in the WDS.

SUMMARY: Following is an abbreviated shipment summary:

Payload Number	Controlled	Ship Period	Assembly	Containers
AE0125	N	60	AE127327	1 REMOVABLE-LID 72-B CANISTER

WASTE STREAMS: The containers included in this shipment are from the following waste stream(s):

Payload Number	Waste Streams
AE0125	AERHDM (HETEROGENEOUS MIXED DEBRIS)

CBFO Form MP 5.1-1
February 2013

ATTACHMENT II
Page 1 of 1

DOE Management Representative Review of Confirmation Data Package Checklist

line		YES	NO
1	Step 5.4 Review of RES Form EA02RC1102-1-0		
2	Site: AER		
3	Shipment Number: AER 13005		
4	Has the OP signed and dated the form?	✓	
5	Has the ITR signed and dated the form?	✓	
6	Has the PCR signed and dated the form?	✓	
7	Step 5.4.4 Technically Reasonable		
8	Were the data generated at a site certified by NTP?	✓	
9	Were the data generated in a process (technique) certified by NTP?	✓	
10	Are the data technically reasonable based on the technique used?	✓	
11	Step 5.4.5 Independent Technical Review		
12	Have the data received independent technical review?	✓	
13	Step 5.4.6 Ignitable, corrosive, reactive, and physical form		
14	Do the data indicate no ignitable, corrosive, reactive, and the physical form is correct?	✓	
15	Step 5.4.7 QC Checks		
16	Have the QC checks been performed?	✓	
17	Step 5.4.8 QAOs		
18	Have the QAOs been met?	✓	

19 ✓ APPROVED _____ DISAPPROVED

20 Michael R. Beaver — NAME; [signature] — SIGNATURE; 4/02/2013 — DATE

Galbraith, Ron - RES

From:	Brown, Mike - DOE
Sent:	Tuesday, April 02, 2013 10:22 AM
To:	Galbraith, Ron - RES; Morgan, Thomas - DOE; Mackie, Bill - DOE; Pinzel, Marcus - DOE; Walker, Andy - DOE; Stroble, J. R. - DOE
Cc:	Site Documents - DOE; Haschets, John - RES; Romo, Favian - WRES; Urquidez, Ken - RES; Ray, Adam - RES; Stegman, Dustin - RES; Brown, Mike - DOE
Subject:	RE: Request for DOE Management Representative Review for Shipment AER13005

Shipment **AER13005** has been reviewed by the DOE Management Representative and is approved per Section C7-1e(2) of the WIPP HWFP.

Michael R. Brown
Transportation Packaging Manager
Phone: 575-234-7476
Fax: 575-234-7061
e-mail: mike.brown@wipp.ws
U.S. Department of Energy
4021 National Parks Highway
Carlsbad, New Mexico 88220

From: Galbraith, Ron - RES
Sent: Tuesday, April 02, 2013 8:05 AM
To: Morgan, Thomas - DOE; Brown, Mike - DOE; Mackie, Bill - DOE; Pinzel, Marcus - DOE; Walker, Andy - DOE; Stroble, J. R. - DOE
Cc: Site Documents - DOE; Haschets, John - RES; Romo, Favian - WRES; Urquidez, Ken - RES; Galbraith, Ron - RES; Ray, Adam - RES; Stegman, Dustin - RES
Subject: Request for DOE Management Representative Review for Shipment AER13005
Importance: High

To: DOE Management Representative

From: RES Permittees Confirmation Representative

As required by Permit Attachment C7, Section C7-1e (2), the **confirmation data package** for Shipment **AER13005** is attached and contains the following:

- EA02RC1102-1-0 Rev. 7 (1 for each waste stream in Shipment **AER13005**)
- EA02RC1102-2-0 Rev. 1 (ITR Checklist)
- EA02RC1102-3-0 Rev. 1 (PCR Checklist)

Per the WIPP Eight week Rolling Schedule, **AER13005** is scheduled to ship on **Monday, April 8, 2013 at 10:00.**

Shipment AER13005 can be viewed in its entirety at \\arrey\DOE_Shipment_Review.

Once your review is complete, please **REPLY to ALL via email** with your approval and/or comments.

Ronald Galbraith
Nuclear Waste Partnership, LLC - Regulatory/Environmental Support
Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
(575) 234-7685
(575) 302-7251

Working Copy

TRU WASTE CONFIRMATION PCR REVIEW CHECKLIST

Shipment Number: AER13005

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. The data are technically reasonable based on the technique used. Reference Source: (C7-1e(2))	✓			
2. The data have received independent technical review. Reference Source: (C7-1e(2))	✓			
3. The data indicate that the waste examined contained no ignitable, corrosive, or reactive waste. Reference Source (C7-1e(2))	✓			
4. The data indicate that the physical form of the waste was consistent with the waste stream description in the waste stream profile form. Reference Source: (C7-1e(2))	✓			
5. The data met the established QAOs for RTR? Mark N/A if there are no RTRs for this shipment. Reference Source: (C7-1e(2))			✓	
5a. Precision Were discrepancies between two operators with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WC limits, and identification of compressed gases through independent replicate scans and independent observations reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(1))			✓	
5b. Accuracy Was the lines-Pair Resolution Test Check included in the BDR? Reference Source: (C7-1d(1))			✓	
5c. Accuracy Are the training qualifications for all radiography personnel acceptable? Reference Source: (C7-1d(1))			✓	
5d. Representativeness Was a Confirmation module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(1))			✓	

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Shipment Number: AER13005

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
5e. Completeness Was a video and audio media recording of the radiography examination and a validated radiography data form obtained for 100 percent of the waste containers selected for confirmation? Reference Source: (C7-1d(1))	☐	☐	✓	
5f. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(1))	☐	☐	✓	
5g. Comparability Are the confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(1))	☐	☐	✓	
6. The data meet the established QAOs for VE? Mark N/A if there are no VEs for this shipment. Reference Source: (C7-1e(2))	✓	☐	☐	
6a. Precision Discrepancies between the operator and the independent technical reviewer with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WAC limits, and identification of compressed gases have been reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(2))	☐	☐	✓	No Discrepancies
6b. Accuracy Are the training qualifications for all Visual Examination personnel acceptable? Reference Source: (C7-1d(2))	✓	☐	☐	
6c. Representativeness Was a Confirmation Module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(2))	✓	☐	☐	

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Shipment Number: AER13005				
Description of Criteria Reviewed	**Criteria Met?**			**Comments/Qualifiers**
	Yes	**No**	**N/A**	
6d. Completeness A validated VE data form was obtained for 100 percent of the waste containers subject to VE? Reference Source: (C7-1d(2))	✓			
6e. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(2))	✓			
6f. Comparability Are confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(2))	✓			
Comments: N/A				
Ronald Galbraith			3-27-2013	
PCR Printed Name	Signature		Date	
Shipment payloads have been verified and have not changed:				
RONALD GALBRAITH			4-2-2013	
PCR Printed Name	Signature		Date	

Working Copy

TRU WASTE CONFIRMATION ITR REVIEW CHECKLIST

Shipment Number: AER13005

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. Data generation and reduction were conducted in a technically correct manner in accordance with the methods used (procedure with revision). Data were reported in the proper units and correct number of significant figures. Reference Source: (C7-1e(1))	☑	☐	☐	
2. Is the media complete, if applicable? Reference Source: (C7-1e(1))	☐	☐	☑	
3. The data have been reviewed for transcription errors? Reference Source (C7-1e(1))	☑	☐	☐	
4. Ensure the generator/storage site radiography video and audio media recordings were reviewed (independent observation) on a waste container basis at a minimum of once per shipment or once per day of operation, whichever is less frequent. The radiography video/audio recording was reviewed against the data reported on the radiography form to ensure that the data are correct and complete. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	☐	☐	☑	
5. If review of radiography scans recorded by the generator/storage site was used to perform confirmation, were two observations performed for each shipment or two observations per day, whichever is less frequent. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	☐	☐	☑	

Comments:
N/A

ITR Printed Name KEN URQUIDEZ	Signature	Date 3/27/2013

WDS WASTE DATA SYSTEM

Waste Isolation Pilot Plant
Shipment Confirmation Payload Container List

Shipment Number: **AER13005**

Waste Stream Profile: **AERHDM**

	Container Num	Container Type	Payload	Type
1	AE0125	11 - RH CANISTER WITH REMOVABLE LID - OVERPACK	AE0125	72-B
	1084	40 - RH 30 GAL DRUM TO BE OVERPACKED		
	1101	40 - RH 30 GAL DRUM TO BE OVERPACKED		
	1136	40 - RH 30 GAL DRUM TO BE OVERPACKED		

Count: 1

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Waste Isolation Pilot Plant
TRU Waste Confirmation Module

Shipment Number: **AER13005**

WCM Initiated By: GALBRAITH, RON
WCM Initiated On: 03/22/2013 09:47

The Waste Confirmation Module has been run.

Waste Stream Profile: **AERHDM**

Container Num	Container Type	Payload	Type
AE0125	11 - RH CANISTER WITH REMOVABLE LID - OVERPACK	AE0125	72-B
1084	40 - RH 30 GAL DRUM TO BE OVERPACKED		
1101	40 - RH 30 GAL DRUM TO BE OVERPACKED		
1136	40 - RH 30 GAL DRUM TO BE OVERPACKED		

Best Available Copy

Galbraith, Ron - RES

From: Galbraith, Ron - RES
Sent: Friday, March 22, 2013 9:51 AM
To: Weyerman, Wade - LANL; Landon, Dave - LANL; Rigby, Brandon - LANL; Kirkes, Creta - NWP; Nelson, Laura - NWP; Sensibaugh, Mike - NWP; Joo, Irene - NWP
Cc: Haschets, John - RES; Romo, Favian - WRES; Urquidez, Ken - RES; Galbraith, Ron - RES; Ray, Adam - RES; Stegman, Dustin - RES
Subject: AER13005 Container Selection
Attachments: AER13005_CM.pdf

FYI-

Attached is the TRU Waste Confirmation Module report from WDS for shipment AER13005 identifying the container(s) selected for Confirmation.

Any questions please call.

Ronald Galbraith
Nuclear Waste Partnership, LLC - Regulatory/Environmental Support Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
(575) 234-7685
(575) 302-7251

Or

John Haschets
Nuclear Waste Partnership LLC - Regulatory/Environmental Support Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
575.234.7053 office
575.706.1779 cell

-----Original Message-----
From: wdsadmin@wipp.ws [mailto:wdsadmin@wipp.ws]
Sent: Friday, March 22, 2013 8:00 AM
To: Landon, Dave - LANL; DL WWIS C
Subject: Shipment AER13005 Ready for Confirmation (prd05)

Shipment AER13005 Is Ready For Confirmation.

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TRU Waste Confirmation (RTR/VE) Approval Form

CH OR RH:	RH
Packaging Type:	72-B

Procedure No:	WP 02-RC1108 Rev. 11	RTR and/or VE Media and/or Records Review	
Generator Site:	AER	Shipment Number: AER13006	Waste Stream Profile Number: AERHDM
Shipping Container Type:	RH Canister	Shipping Container Number:	AE0125

Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid In Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	ITR	PCR
3/25/2013	AE0125	1084 822	ANLRHVE 12003	VE TECH	YES	NO	NO	S5400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	LA	N/A	[illegible]	[illegible]
3/25/2013	AE0125	1084 #837	ANLRHVE 12003	VE TECH	YES	NO	NO	S5400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	LA	N/A	[illegible]	[illegible]
3/25/2013	AE0125	1101 #843	ANLRHVE 12011	VE TECH	YES	NO	NO	S5400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	LA	N/A	[illegible]	[illegible]
3/25/2013	AE0125	1101 #933	ANLRHVE 12011	VE TECH	YES	NO	NO	S5400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	LA	N/A	[illegible]	[illegible]
3/25/2013	AE0125	1136 1001	ANLRHVE 12011	VE TECH	YES	NO	NO	S5400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	LA	N/A	[illegible]	[illegible]
3/25/2013	AE0125	1136 #1009	ANLRHVE 12011	VE TECH	YES	NO	NO	S5400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	LA	N/A	[illegible]	[illegible]
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with HWN U134 assigned shall have no observable liquid

	Printed Name:	Signature:	Date:
OP Reviewed by:	LARRY ASBURY	Larry Asbury	3/25/2013
IO Reviewed by:	N/A	N/A	N/A
ITR Reviewed by:	KENNETH URQUIDEZ	[illegible]	3/27/2013
PCR Reviewed by:	RON GALBRAITH	Ronald Galbraith	3-27-2013

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	N/A LA 3/25/2013

Report Statistics

Report Version: **2.2**
WDS Instance: **prd05.wipp.carlsbad.nm.us**
Generated on: **March 22, 2013 9:48 AM**
Generated by: **GALBRAITH, RON**
Total Pages: **9**

Shipment Number: **AER13005**

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Shipment Number: AER13005
Container Number: AE0125
Container Type: 11 - RH CANISTER WITH REMOVABLE LID - OVERPACK

Certification Data Values

Generator Site:	AE	Waste Stream Profile Code:	AERHDM
Waste Handling Code:	RH	IDC Code:	001
Payload Number:	AE0125	Waste Matrix Code:	S5400
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	219.78
8	PLASTICS	74.50
13	STEEL CONTAINER MATERIALS	517.01
14	PLASTIC/LINERS CONTAINER MATERIALS	8.52
	Waste Weight:	294.28
	Packaging Weight:	525.53
	Total Material Weight:	819.81

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D019	CARBON TETRACHLORIDE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
F002	SPENT HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

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Shipment Number: **AER13005**
Container Number: **AE0125**
Container Type: 11 - RH CANISTER WITH REMOVABLE LID - OVERPACK

Inner Containers

Container Number	Type Code	Content Code	Shipping Period	Gross Weight + Error	FGE + 2x Error
1084	40 - RH 30 GAL DRUM TO BE OVERPACKED	AE322E	60	101.50	2.302E1
1101	40 - RH 30 GAL DRUM TO BE OVERPACKED	AE322E	60	97.30	8.418E1
1136	40 - RH 30 GAL DRUM TO BE OVERPACKED	AE322E	60	96.60	6.648E1

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CONTAINERID: 1084

ANL

AK DATA

Container	Container Type	WDS Status	WSID
1084		APPROVED_SHIP	AERHDM

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
ANLE-RH-50-44	DG	Complete	2012-02-16	PDF Link (click here)
ANLRHVE12003	VE	Complete	2012-01-26	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
1084	NO DATA				

Release Reason	Actual Condition

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Shipment Number: AER13005
Container Number: 1084
Container Type: 40 - RH 30 GAL DRUM TO BE OVERPACKED

Certification Data Values

Generator Site:	AE	Waste Stream Profile Code:	AERHDM
Waste Handling Code:	RH	IDC Code:	001
Payload Number:	AE0125	Waste Matrix Code:	S5400
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
8	PLASTICS	25.20
13	STEEL CONTAINER MATERIALS	16.36
14	PLASTIC/LINERS CONTAINER MATERIALS	0.00
21	STEEL LINER MATERIALS	59.90

Waste Weight:	25.20
Packaging Weight:	76.26
Total Material Weight:	101.46

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D019	CARBON TETRACHLORIDE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
F002	SPENT HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

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Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date

Shipment Number: **AER13005**
Container Number: **1084**
Container Type: 40 - RH 30 GAL DRUM TO BE OVERPACKED

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C2	8RHVE2	VE OF NEWLY PACKAGED RH WASTE	12/09/2011

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Attachment 4 – Visual Examination Batch Data Report Cover Sheet

Batch Data Report No.: ANLRHVE12003 Date: 1-26-12

	Waste Container ID Number:
1	1076
2	1077
3	1078
4	1084
5	1085
6	
7	
8	
9	
10	
11	
12	
13	
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16	
17	
18	
19	
20	

1-26-12

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CCP RECORDS ORIGINAL
DATE REC'D 1/30/12

01

Attachment 5 – Visual Examination Batch Data Report Table of Contents

Batch Data Report No.: ANLBHVE12003 Date: 1-26-12

Item	Description	Page No.
1	Visual Examination Batch Data Report Cover Sheet (Attachment 4)	01
2	Visual Examination Batch Data Report Table of Contents (Attachment 5)	02
3	Visual Examination Data Forms (Attachment 1)	03
4	Visual Examination Independent Technical Reviewer Checklist (Attachment 2)	53
5	Copy of NCRs (N/A [If not applicable])	NA

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02

Attachment 1 – Visual Examination Data Form

Site ID: RHANL	
Examination Date: 12-09-11	Batch Number: NA
Procedure #: CCP-TP-500	Revision #: 11 / Video Number/NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A	Recording Start: NA / Recording Stop: NA
Initial Container ☒N/A	**Final Container** ☐ N/A
Container or Package ID Number:	Container or Package ID Number: 1084
Container Type:	Container Type: 30-Gallon Container
Waste Matrix Code:	Waste Matrix Code: S5400
Waste Stream:	Waste Stream: AERHDM
	Rigid Liner: ☒Y ☐N Type: 140 MIL / Rigid Liner Lid: ☐Y ☒N
	Rigid Liner Vented or Hole Size: NA
Percent Fill: / Percent Organic Waste:	Percent Fill: 85% / Percent Organic Waste: 0%
Layers of Confinement: / Closure Method:	Layers of Confinement: 1 / Closure Method: Heat Sealed filter
Comments (e.g., filter information, NCRs): NA	

Waste Description:

Bottom Can: 822

Top Can: 837

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 1084

Prohibited Item(s) Summary	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
RH 72B Criteria			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1:		
William H. Riley	Will. H. R	12-09-11
Print Name	Signature	Date
Visual Examination Operator 2		
ERIC BOND	Eric Bond	12-9-11
Print Name	Signature	Date

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 11-10-11		Batch Number: N/A	
Procedure #: CCP-TP-500		Revision #: 11	Video Number: N/A
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: N/A	Recording Stop: N/A
Initial Container ☐ N/A		Final Container ☒N/A	
Container or Package ID Number: 822		Container or Package ID Number:	
Container Type: 7gallon Container		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AFRHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 85%	Percent Organic Waste: 0%	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: N/A	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): N/A			

Waste Description:

7gallon container (IM)
Shield Pot Centering Ring (IM)
Shield Pot # 7091

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 822

Prohibited Item(s) Summary	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
RH 72B Criteria			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: N/A

Visual Examination Operator 1: Pat Beallis (Print Name)	Pat Beallis (Signature)	11-10-11 (Date)
Visual Examination Operator 2: GLORIA RUPPERT (Print Name)	Gloria Ruppert (Signature)	11-10-11 (Date)

Best Available Copy

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 06-20-11		Batch Number: NA	
Procedure #: CCP-TP-500		Revision #: 11	Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒N/A	
Container or Package ID Number: 7091		Container or Package ID Number:	
Container Type: 1-Gallon Shield Pot		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 75%	Percent Organic Waste: 0%	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): NA			

Waste Description: Vented 1-Gallon 3/4-INCH Lead Lined Shield Pot - (OM) (IM)

Fuel Specimen - 165M1B - (OM)
Fuel Specimen - 165M1A1 - (OM)
Fuel Specimen - 165M4B1 - (OM)
Fuel Specimen - 165M4B2 - (OM)
Fuel Specimen - 165M4A1 - (OM)
Fuel Specimen - 165M4A2 - (OM)

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 7091

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
RH 72B Criteria			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments NA

Visual Examination Operator 1

William H. Riley — Print Name
Will-H-Ri — Signature
06-20-11 — Date

Visual Examination Operator 2

GLORIA RUPPERT — Print Name
Gloria Ruppert — Signature
6-20-11 — Date

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 11-2-11		Batch Number: NA	
Procedure # CCP-TP-500		Revision #: 11	Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒N/A	
Container or Package ID Number: 837		Container or Package ID Number:	
Container Type: 7 GALLON CONTAINER		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AERHAM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐ Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 85	Percent Organic Waste: 0	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): NA			

Waste Description:

7 GALLON CONTAINER (IM)
SHIELD POT CENTERING RING (IM)
SHIELD POT # 7147

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 837

Prohibited Item(s) Summary	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	X	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	X	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	X	
Does the container have observable liquid containing PCBs?	☐	X	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	X	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	X	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	X	
Is there an indication of wastes containing explosives or compressed gases?	☐	X	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	X	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	X	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	X	
RH 72B Criteria			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	X	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	X	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	X	
Is the waste consistent with the TRUCON Code?	X	☐	

Comments: NA

Visual Examination Operator 1: ERIC BOND — Print Name; Eric Bond — Signature; 11-1-11 — Date

Visual Examination Operator 2: GLORIA RUPPERT — Print Name; Gloria Ruppert — Signature; 11-1-11 — Date

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Attachment 1 – Visual Examination Data Form

Site ID and Location of Packaging Activity: RHANL-212			
Examination Date: 03-01-11		Batch Number: NA	
Procedure #: CCP-TP-500		Revision #: 10	Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒ N/A	
Container or Package ID Number: 7147		Container or Package ID Number:	
Container Type: 1 GALLON SHIELD POT		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 67-90 %		Percent Fill:	
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): VOLUME OF ORGANIC WASTE 0%			

Waste Description: VENTED 1 GALLON 1" THICK LEAD LINED SHIELD POT (OM)(IM)

FUEL SPECIMAN 576E 1 (OM)
FUEL SPECIMAN 576E 2 (OM)
FUEL SPECIMAN 576E 3 (OM)
FUEL SPECIMAN 576E 4 (OM)
FUEL SPECIMAN 576E 5 (OM)
FUEL SPECIMAN 576E 6 (OM)
FUEL SPECIMAN 576E 7 (OM)
FUEL SPECIMAN 576E 8 (OM)
FUEL SPECIMAN 576E 9 (OM)

Primary Contents (check one)	☐ Concrete ☒ Steel ☐ Organic Material

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 7147

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?		☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
[illegible] Criteria			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1:
William H. Riley — Print Name
Will. H. Ri — Signature
03-01-11 — Date

Visual Examination Operator 2:
GLORIA RUPPERT — Print Name
Gloria Ruppert — Signature
03-01-11 — Date

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Attachment 2 – Visual Examination Independent Technical Reviewer Checklist

Batch Data Report No.: ANL RHVE 120034

1. Were data generation and reduction conducted in a technically correct manner in accordance with the methods (procedure) used?	☐ NO	☒ YES	☐ N/A	✓
2. Was the correct revision of the operating procedure used?	☐ NO	☒ YES	☐ N/A	✓
3. Were all the transcription errors corrected?	☐ NO	☐ YES	☒ N/A	✓
4. Are BDR contents complete and match the Visual Examination Batch Data report Table of Contents?	☐ NO	☒ YES	☐ N/A	✓
5. Does the BDR include VE for no more than 20 containers?	☐ NO	☒ YES	☐ N/A	
6. Is all data recorded signed and dated in reproducible ink?	☐ NO	☒ YES	☐ N/A	✓
7. Is all raw data recorded clearly, legibly, and accurately?	☐ NO	☒ YES	☐ N/A	✓
8. Are all changes to original data lined out, initialed and dated by the individual making the changes or an individual authorized to make the change?	☐ NO	☒ YES	☐ N/A	✓
9. Is there an adequate written description of the contents?	☐ NO	☒ YES	☐ N/A	✓
10. Were the recording equipment checks satisfactory?	☐ NO	☐ YES	☒ N/A	
11. Has each container in this BDR been evaluated for the presence of prohibited wastes?	☐ NO	☒ YES	☐ N/A	✓
12. Has the physical waste form in each container in this BDR been evaluated against the Waste Stream Description and the Waste Matrix Code?	☐ NO	☒ YES	☐ N/A	✓
13. Have the RH Quality Assurance Objectives (QAOs) for VE been met?	☐ NO	☒ YES	☐ N/A	✓
Precision – reconciled discrepancies between operators or between the operator and ITR.	☐	☒	☐	✓
Accuracy – trained operators	☐	☒	☐	✓
Representativeness – description of container contents	☐	☒	☐	✓
Completeness – completed data form and/or recording	☐	☒	☐	✓
Comparability – proper training and adequate AK source documents are available for unopened containers.	☐	☒	☐	✓
14. Were NCRs generated included in the BDR?	☐ NO	☐ YES	☒ N/A	✓

Comments: NA

Independent Technical Reviewer:

Gary Redman — Printed Name

Gary Redman — Signature

01-27-12 — Date

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Attachment 3 – Visual Examination Site Project Manager Checklist

Batch Data Report No.: ANLRHVE12003

1. Has all the data received an independent technical review as evidenced by a completed checklist (Attachment 2) and the appropriate ITR signature?		☐ NO	☑ YES
2. Are BDR contents complete and match the Visual Examination Batch Data Report Table of Contents?		☐ NO	☑ YES
3. Is the BDR complete (appropriately filled in forms for each container)?		☐ NO	☑ YES
4. Have the RH Quality Assurance Objectives (QAOs) for VE been met?			
Precision – reconciled discrepancies between operators		☐ NO	☑ YES
Accuracy – trained operators		☐ NO	☑ YES
Representativeness – description of container contents		☐ NO	☑ YES
Completeness – completed data form and/or recording		☐ NO	☑ YES
Comparability – proper training and adequate AK for unopened containers		☐ NO	☑ YES
5. Were NCRs generated included in the BDR?	☐ NO	☐ YES	☑ N/A

Comments

NO NCR'S.

SPM:

LAURA NELSON — Printed Name

Laura Nelson — Signature

1-31-12 — Date

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CCP RECORDS ORIGINAL
DATE REC'D 1-31-12

CONTAINERID: 1101

ANL

AK DATA

Container	Container Type	WDS Status	WSID
1101		APPROVED_SHIP	AERHDM

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
ANLE-RH-50-58	DG	Complete	2013-03-18	//Dixon/CCPPDF/RH_ANL/DG/RADIOLOGICAL_DOCUMENTATION_PACKAGES/ANLE-RH-50-58.PDF

BDRID	Type	Status	Gen Date	PDF Link
ANLRHVE12011	VE	Complete	2012-10-12	http:\\Dixon\ccppdf\RH_ANL\VE\ANLRHVE12011.pdf

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
1101	NO DATA				

Release Reason	Actual Condition

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Shipment Number: AER13005
Container Number: 1101
Container Type: 40 - RH 30 GAL DRUM TO BE OVERPACKED

Certification Data Values

Generator Site:	AE	Waste Stream Profile Code:	AERHDM
Waste Handling Code:	RH	IDC Code:	001
Payload Number:	AE0125	Waste Matrix Code:	S5400
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
8	PLASTICS	25.00
13	STEEL CONTAINER MATERIALS	16.36
14	PLASTIC/LINERS CONTAINER MATERIALS	0.00
21	STEEL LINER MATERIALS	55.40
	Waste Weight:	25.00
	Packaging Weight:	71.76
	Total Material Weight:	96.76

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D019	CARBON TETRACHLORIDE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
F002	SPENT HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

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Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date

Shipment Number: **AER13005**
Container Number: **1101**
Container Type: 40 - RH 30 GAL DRUM TO BE OVERPACKED

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C2	8RHVE2	VE OF NEWLY PACKAGED RH WASTE	02/22/2012

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Attachment 4 – Visual Examination Batch Data Report Cover Sheet

Batch Data Report No.: ANLRHVE 12011 Date: 10-12-12

	Waste Container ID Number:
1	1101
2	1099
3	1109
4	1136
5	1170
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

PB 10-12-12

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CCP RECORDS ORIGINAL
DATE REC'D 11.27.12

01

Attachment 5 – Visual Examination Batch Data Report Table of Contents

Batch Data Report No.: ANLRHVE12011 Date: 10-12-12

Item	Description	Page No.
1	Visual Examination Batch Data Report Cover Sheet (Attachment 4)	1
2	Visual Examination Batch Data Report Table of Contents (Attachment 5)	2
3	Visual Examination Data Forms (Attachment 1)	3
4	Visual Examination Independent Technical Reviewer Checklist (Attachment 2)	53
5	Copy of NCRs (N/A [If not applicable])	N/A

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02

Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 2-22-12		Batch Number: NA	
Procedure #: CCP-TP-500		Revision #: 11	Video Number NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☒ N/A		**Final Container** ☐ N/A	
Container or Package ID Number:		Container or Package ID Number: 1101	
Container Type:		Container Type: 30 GALLON CONTAINER	
Waste Matrix Code:		Waste Matrix Code: 35400	
Waste Stream:		Waste Stream: AEBHDM	
		Rigid Liner: ☒Y ☐N Type: 140 MIL	Rigid Liner Lid: ☐Y ☒N
		Rigid Liner Vented or Hole Size: NA	
Percent Fill:	Percent Organic Waste:	Percent Fill: 95	Percent Organic Waste: 0
Layers of Confinement:	Closure Method:	Layers of Confinement: 1	Closure Method: HEAT SEALED FILTERED
Comments (e.g., filter information, NCRs): NA			

Waste Description:

BOTTOM CAN: 843

TOP CAN: 933

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 1101

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	X	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	X	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	X	
Does the container have observable liquid containing PCBs?	☐	X	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	X	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	X	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	X	
Is there an indication of wastes containing explosives or compressed gases?	☐	X	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	X	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	X	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	X	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	X	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	X	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	X	
Is the waste consistent with the TRUCON Code?	X	☐	

Comments: NA

Visual Examination Operator 1: ERIC BOND — Print Name; [signature] — Signature; 2-22-12 — Date

Visual Examination Operator 2: William H. Riley — Print Name; [signature] — Signature; 02-22-12 — Date

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 02-17-12		Batch Number: NA	
Procedure #: CCP-TP-500		Revision #: 11	Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒ N/A	
Container or Package ID Number: 843		Container or Package ID Number:	
Container Type: 7-Gallon Container		Container Type:	
Waste Matrix Code: 55400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐ Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 85%	Percent Organic Waste: 0%	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): NA			

Waste Description:

7-Gallon Container - (IM)
Shield Pot Centering Ring - (IM)
Shield Pot # 7206

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05

Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 843

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1:
William H. Riley — Print Name
Will. H. R — Signature
02-17-12 ~~02-17-H~~ — Date
02-17-12 WHR

Visual Examination Operator 2:
Pat Beallis — Print Name
Pat Beallis — Signature
02-17-12 — Date

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04

Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 9-16-11		Batch Number: NA	
Procedure #: CCP-TP-500		Revision #: 11	Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒ N/A	
Container or Package ID Number: 7206		Container or Package ID Number:	
Container Type: 1 GALLON CONTAINER		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 85%	Percent Organic Waste: 0%	Percent Fill	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): NA			

Waste Description: VENTED 1 GALLON "3/4" INCH THICK LEAD LINED SHIELD POT (TM) (OM)

FUEL SPECIMEN 493A2 (OM)

FUEL SPECIMEN 493A4 (OM)

FUEL SPECIMEN 467B7 (OM)

FUEL SPECIMEN 493A3 (OM)

FUEL SPECIMEN 467B8 (OM)

FUEL SPECIMEN 493A6 (OM)

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07

Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 7206

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: N/A

Visual Examination Operator 1: Pat Beallis Print Name	Pat Beallis Signature	9-16-11 Date
Visual Examination Operator 2: ERIC BOND Print Name	Eric Bond Signature	9-16-11 Date

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08

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

12. List of names for four personnel (one for each position) on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current. Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013.

    12.a List of names for all personnel on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current.

    12.b <u>Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013. [300 pages & 3 Disc's]</u>

Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 02-17-12		Batch Number: NA	
Procedure #: CCP-TP-500		Revision #: 11	Video Number NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒N/A	
Container or Package ID Number: 933		Container or Package ID Number:	
Container Type: 7-Gallon Container		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 85%	Percent Organic Waste: 0%	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): NA			

Waste Description:

7-Gallon Container-(IM)
Shield Pot Centering Ring-(IM)
Shield Pot # 7202

Best Available Copy

09

Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 933

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1:
William H. Riley — Print Name
Will. H. R — Signature
02-17-12 — Date

Visual Examination Operator 2:
Pat Beall's — Print Name
Pat Beallo — Signature
02-17-12 — Date

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL	
Examination Date: 01-09-12	Batch Number: NA
Procedure #: CCP-TP-500	Revision #: 11 / Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A	Recording Start: NA / Recording Stop: NA
Initial Container ☐ N/A	Final Container ☒N/A
Container or Package ID Number: 7202	Container or Package ID Number:
Container Type: 1 Gallon Shield Pot	Container Type:
Waste Matrix Code: S5400	Waste Matrix Code:
Waste Stream: AERHDM	Waste Stream:
	Rigid Liner: ☐Y ☐N Type: / Rigid Liner Lid: ☐Y ☐N
	Rigid Liner Vented or Hole Size:
Percent Fill: 90 / Percent Organic Waste: 0	Percent Fill: / Percent Organic Waste:
Layers of Confinement: 0 / Closure Method: NA	Layers of Confinement: / Closure Method:

Comments (e.g., filter information, NCRs):
VE completed on 01-10-12

Waste Description: Vented 1 gallon 3/4" Thick lead lined Shield Pot (om) (Im)
Fuel Specimen 498 B 2 (om)
Fuel Specimen 498 B 3 (om)
Fuel Specimen 190 C1D (om)
Fuel Specimen 190C1E (om)
Fuel Specimen 190C1B (om)
Fuel Specimen 190C1C (om)
Fuel Specimen 190C1A (om)
Fuel Specimen 457A2 (om)
Fuel Specimen 613D1 (om)
Fuel Specimen 611D1 (om)
Fuel Specimen 613D4 (om)
Fuel Specimen 574B3B5 (om)
Fuel Specimen 612 D-1 (om)
Fuel Specimen 613D3 (om)
Fuel Specimen 611D2 (om)
Fuel Specimen 574B3B3 (om)
Fuel Specimen 574B3B1 (om)
Fuel Specimen 611D4 (om)

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 7202

Prohibited Item(s) Summary			
	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
RH 72B Criteria			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1: Gary Redman (Print Name)	Gary Redman (Signature)	01-10-12 (Date)
Visual Examination Operator 2: ERIC BOND (Print Name)	Eric Bond (Signature)	1-10-12 (Date)

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Attachment 2 – Visual Examination Independent Technical Reviewer Checklist

Batch Data Report No.: ANLRHVE120111

1. Were data generation and reduction conducted in a technically correct manner in accordance with the methods (procedure) used?	☐ NO	☒ YES	☐ N/A	✓
2. Was the correct revision of the operating procedure used?	☐ NO	☒ YES	☐ N/A	✓
3. Were all the transcription errors corrected?	☐ NO	☐ YES	☒ N/A	✓
4. Are BDR contents complete and match the Visual Examination Batch Data report Table of Contents?	☐ NO	☒ YES	☐ N/A	✓
5. Does the BDR include VE for no more than 20 containers?	☐ NO	☒ YES	☐ N/A	
6. Is all data recorded signed and dated in reproducible ink?	☐ NO	☒ YES	☐ N/A	✓
7. Is all raw data recorded clearly, legibly, and accurately?	☐ NO	☒ YES	☐ N/A	✓
8. Are all changes to original data lined out, initialed and dated by the individual making the changes or an individual authorized to make the change?	☐ NO	☒ YES	☐ N/A	✓
9. Is there an adequate written description of the contents?	☐ NO	☒ YES	☐ N/A	✓
10. Were the recording equipment checks satisfactory?	☐ NO	☐ YES	☒ N/A	
11. Has each container in this BDR been evaluated for the presence of prohibited wastes?	☐ NO	☒ YES	☐ N/A	✓
12. Has the physical waste form in each container in this BDR been evaluated against the Waste Stream Description and the Waste Matrix Code?	☐ NO	☒ YES	☐ N/A	✓
13. Have the RH Quality Assurance Objectives (QAOs) for VE been met?	☐ NO	☒ YES	☐ N/A	✓
Precision – reconciled discrepancies between operators or between the operator and ITR.	☐	☒	☐	✓
Accuracy – trained operators	☐	☒	☐	✓
Representativeness – description of container contents	☐	☒	☐	✓
Completeness – completed data form and/or recording	☐	☒	☐	✓
Comparability – proper training and adequate AK source documents are available for unopened containers.	☐	☒	☐	✓
14. Were NCRs generated included in the BDR?	☐ NO	☐ YES	☒ N/A	
Comments: NA				

Independent Technical Reviewer:

Monterry Harris — Printed Name

Monterry Harris — Signature

10-15-12 — Date

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Attachment 3 – Visual Examination Site Project Manager Checklist

Batch Data Report No.: BNLRHVE12011

1.	Has all the data received an independent technical review as evidenced by a completed checklist (Attachment 2) and the appropriate ITR signature?		☐ NO	☑ YES
2.	Are BDR contents complete and match the Visual Examination Batch Data Report Table of Contents?		☐ NO	☑ YES
3.	Is the BDR complete (appropriately filled in forms for each container)?		☐ NO	☑ YES
4.	Have the RH Quality Assurance Objectives (QAOs) for VE been met?			
	Precision – reconciled discrepancies between operators		☐ NO	☑ YES
	Accuracy – trained operators		☐ NO	☑ YES
	Representativeness – description of container contents		☐ NO	☑ YES
	Completeness – completed data form and/or recording		☐ NO	☑ YES
	Comparability – proper training and adequate AK for unopened containers		☐ NO	☑ YES
5.	Were NCRs generated included in the BDR?	☐ NO	☐ YES	☑ N/A

Comments

No NCR'S.

SPM:

Laura Nelson — Printed Name

Laura Nelson — Signature

11/28/12 — Date

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CCP RECORDS ORIGINAL
DATE REC'D 11.29.12

CONTAINERID: 1136

ANL

AK DATA

Container	Container Type	WDS Status	WSID
1136		APPROVED_SHIP	AERHDM

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
ANLE-RH-50-59	DG	Complete	2013-03-18	//Dixon/CCPPDF/RH_ANL/DG/RADIOLOGICAL_DOCUMENTATION_PACKAGES/ANLE-RH-50-59.PDF
ANLRHVE12011	VE	Complete	2012-10-12	http:\\Dixon\ccppdf\RH_ANL\VE\ANLRHVE12011.pdf

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
1136	NO DATA				

Release Reason	Actual Condition

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Shipment Number: AER13005
Container Number: 1136
Container Type: 40 - RH 30 GAL DRUM TO BE OVERPACKED

Certification Data Values

Generator Site:	AE	Waste Stream Profile Code:	AERHDM
Waste Handling Code:	RH	IDC Code:	001
Payload Number:	AE0125	Waste Matrix Code:	S5400
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
8	PLASTICS	24.30
13	STEEL CONTAINER MATERIALS	16.36
14	PLASTIC/LINERS CONTAINER MATERIALS	0.00
21	STEEL LINER MATERIALS	55.40
	Waste Weight:	24.30
	Packaging Weight:	71.76
	Total Material Weight:	96.06

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D019	CARBON TETRACHLORIDE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
F002	SPENT HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

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Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date

Shipment Number: **AER13005**
Container Number: **1136**
Container Type: 40 - RH 30 GAL DRUM TO BE OVERPACKED

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C2	8RHVE2	VE OF NEWLY PACKAGED RH WASTE	05/21/2012

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Attachment 4 – Visual Examination Batch Data Report Cover Sheet

Batch Data Report No.: ANLRHVE 12011 Date: 10-12-12

	Waste Container ID Number:
1	1101
2	1099
3	1109
4	1136
5	1170
6	
7	
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16	
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18	
19	
20	

PB 10-12-12

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CCP RECORDS ORIGINAL
DATE REC'D 11.27.12

01

Attachment 5 – Visual Examination Batch Data Report Table of Contents

Batch Data Report No.: ANLRHVE12011 Date: 10-12-12

Item	Description	Page No.
1	Visual Examination Batch Data Report Cover Sheet (Attachment 4)	1
2	Visual Examination Batch Data Report Table of Contents (Attachment 5)	2
3	Visual Examination Data Forms (Attachment 1)	3
4	Visual Examination Independent Technical Reviewer Checklist (Attachment 2)	53
5	Copy of NCRs (N/A [If not applicable])	N/A

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02

Attachment 1 – Visual Examination Data Form

Site ID: RHANL	
Examination Date: 05-21-12	Batch Number: NA
Procedure #: CCP-TP-500	Revision #: 11 / Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A	Recording Start: NA / Recording Stop: NA
Initial Container ☒N/A	Final Container ☐ N/A
Container or Package ID Number:	Container or Package ID Number: 1136
Container Type:	Container Type: 30-Gallon Container
Waste Matrix Code:	Waste Matrix Code: S5400
Waste Stream:	Waste Stream: AERHDM
	Rigid Liner: ☒Y ☐N Type: 140 MIL / Rigid Liner Lid: ☐Y ☒N
	Rigid Liner Vented or Hole Size: NA
Percent Fill: / Percent Organic Waste:	Percent Fill: 85% / Percent Organic Waste: 0%
Layers of Confinement: / Closure Method:	Layers of Confinement: 1 / Closure Method: Heat Sealed filtered
Comments (e.g., filter information, NCRs): NA	

Waste Description:

BOTTOM CAN: 1001
TOP CAN: 1009

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 1136

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1:
William H. Riley — Print Name
Will. H. R — Signature
05-21-12 — Date

Visual Examination Operator 2:
GLORIA RUPPERT — Print Name
Gloria Ruppert — Signature
5-21-12 — Date

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 05-07-12		Batch Number: NA	
Procedure #: CCP-TP-500		Revision #: 11	Video Number: NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒ N/A	
Container or Package ID Number: 1001		Container or Package ID Number:	
Container Type: 7-Gallon Container		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 85%	Percent Organic Waste: 0%	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): NA			

Waste Description:

7-Gallon Container-(IM)
Shield Pot Centering Ring-(IM)
Shield Pot # 7252

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 1001

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
[illegible]			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1: William H. Riley (Print Name)	William H. Riley (Signature)	05-07-12 ~~05-12-12~~ (Date) WHR 05-07-12
Visual Examination Operator 2: Pat Beallis (Print Name)	Pat Beallis (Signature)	5-7-12 (Date)

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 04-27-12		Batch Number: N/A	
Procedure #: CCP-TP-500		Revision #: 11	Video Number: N/A
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: N/A	Recording Stop: N/A
Initial Container ☐ N/A		Final Container ☒N/A	
Container or Package ID Number: 7252		Container or Package ID Number:	
Container Type: 1 Gallon Shield Pot		Container Type:	
Waste Matrix Code: 55400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐ Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 60	Percent Organic Waste: 0	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: N/A	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): Container closed 4/30/12			

Waste Description:
Vented 1 Gallon 3/4 inch Thick Lead Lined Shield Pot (IM)(OM)
Fuel specimen 467 A 2A (IM)(OM)
Fuel specimen 467 A 2B (IM)(OM)
Fuel specimen 467 A 3B (IM)(OM)
Fuel specimen 497C1 (IM)(OM)
Fuel specimen 497C2A (IM)(OM)
Fuel specimen 497C4 (IM)(OM)
Fuel specimen 497C2C (IM)(OM)

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 7252

Prohibited Item(s) Summary	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
RH 72B Criteria			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: N/A

Visual Examination Operator 1:		
F. Wesley Root	F. Wesley Root	4-30-12
Print Name	Signature	Date

Visual Examination Operator 2:		
Spencer Pattee	Spencer Pattee	4/30/12
Print Name	Signature	Date

Best Available Copy

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 05-07-12		Batch Number: NA	
Procedure # CCP TP-500		Revision #: 11	Video Number NA
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: NA	Recording Stop: NA
Initial Container ☐ N/A		Final Container ☒N/A	
Container or Package ID Number: 1009		Container or Package ID Number:	
Container Type: 7-Gallon Container		Container Type:	
Waste Matrix Code: 35400		Waste Matrix Code:	
Waste Stream: AERHDM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 85%	Percent Organic Waste: 0%	Percent Fill:	Percent Organic Waste:
Layers of Confinement: 0	Closure Method: NA	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): NA			

Waste Description:

7-Gallon Container-(IM)
Shield Pot Centering Ring-(IM)
Shield Pot # 7195

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 1009

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
For TRU Waste			
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: NA

Visual Examination Operator 1:
William H. Riley — Print Name
Will. H. Ri. — Signature
05-07-12 — Date

Visual Examination Operator 2:
Pat Beallis — Print Name
Pat Beallis — Signature
5-7-12 — Date

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Attachment 1 – Visual Examination Data Form

Site ID: RHANL			
Examination Date: 3/16/12		Batch Number: N/A	
Procedure #: CCP-TP-500		Revision #: 11	Video Number: N/A
Recording Equipment Check: ☐SAT ☐UNSAT ☒N/A		Recording Start: N/A	Recording Stop: N/A
Initial Container	☐ N/A	Final Container	☒ N/A
Container or Package ID Number: 7195		Container or Package ID Number:	
Container Type: 1 Gallon Shield Pot		Container Type:	
Waste Matrix Code: S5400		Waste Matrix Code:	
Waste Stream: AERHOM		Waste Stream:	
		Rigid Liner: ☐Y ☐N Type:	Rigid Liner Lid: ☐Y ☐N
		Rigid Liner Vented or Hole Size:	
Percent Fill: 60%	Percent Organic Waste: 0%	Percent Fill:	Percent Organic Waste:
Layers of Confinement: N/A 3-16-12	Closure Method: N/A	Layers of Confinement:	Closure Method:
Comments (e.g., filter information, NCRs): N/A			

Waste Description:

Vented 1 Gallon 3/4" Thick Lead Lined Shield Pot (OM)(IM)

Fuel Specimen 615C 13 (OM) Fuel Specimen 608C7H (OM)
Fuel Specimen 615C 6 (OM)
Fuel Specimen 608C 1 (OM)
Fuel Specimen 615C 9 (OM)
Fuel Specimen 615C 14 (OM)
Fuel Specimen 615C 5 (OM)
Fuel Specimen 615C 1 (OM)
Fuel Specimen 612C 6 (OM)
Fuel Specimen 612C 11 (OM)
Fuel Specimen 608D7 (OM)

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Attachment 1 – Visual Examination Data Form (continued)

Container or Package ID Number 7195

	YES	NO	N/A
Does the container have observable liquid equal to or greater than 1 percent by volume of the outermost container at the time of RTR or VE?	☐	☒	
Does the container have observable liquid more than 60 milliliters or 3 percent by volume, whichever is greater in an internal container?	☐	☒	
Does the container have observable liquid with an EPA hazardous waste number (HWN) U134 assigned?	☐	☒	
Does the container have observable liquid containing PCBs?	☐	☒	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☒	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☒	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match Table of Allowable Materials for RH-TRU Waste in the RH-TRAMPAC)?	☐	☒	
Is there an indication of wastes containing explosives or compressed gases?	☐	☒	
Is there an indication of polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization?	☐	☒	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐	☒	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☒	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☒	
Are there sealed containers GREATER than 4 liters or heat sealed bags NOT defined in the applicable TRUCON Code?	☐	☒	
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☒	
Is the waste consistent with the TRUCON Code?	☒	☐	

Comments: N/A

Visual Examination Operator 1:
Spencer Pattee (Print Name) — Signature — 3/16/12 (Date)

Visual Examination Operator 2:
F. Wesley Root (Print Name) — Signature — 3-16-12 (Date)

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Attachment 2 – Visual Examination Independent Technical Reviewer Checklist

Batch Data Report No.: ANLRHVE12011

1. Were data generation and reduction conducted in a technically correct manner in accordance with the methods (procedure) used?	☐ NO	☒ YES	☐ N/A	✓
2. Was the correct revision of the operating procedure used?	☐ NO	☒ YES	☐ N/A	✓
3. Were all the transcription errors corrected?	☐ NO	☐ YES	☒ N/A	✓
4. Are BDR contents complete and match the Visual Examination Batch Data report Table of Contents?	☐ NO	☒ YES	☐ N/A	✓
5. Does the BDR include VE for no more than 20 containers?	☐ NO	☒ YES	☐ N/A	
6. Is all data recorded signed and dated in reproducible ink?	☐ NO	☒ YES	☐ N/A	✓
7. Is all raw data recorded clearly, legibly, and accurately?	☐ NO	☒ YES	☐ N/A	✓
8. Are all changes to original data lined out, initialed and dated by the individual making the changes or an individual authorized to make the change?	☐ NO	☒ YES	☐ N/A	✓
9. Is there an adequate written description of the contents?	☐ NO	☒ YES	☐ N/A	✓
10. Were the recording equipment checks satisfactory?	☐ NO	☐ YES	☒ N/A	
11. Has each container in this BDR been evaluated for the presence of prohibited wastes?	☐ NO	☒ YES	☐ N/A	✓
12. Has the physical waste form in each container in this BDR been evaluated against the Waste Stream Description and the Waste Matrix Code?	☐ NO	☒ YES	☐ N/A	✓
13. Have the RH Quality Assurance Objectives (QAOs) for VE been met?	☐ NO	☒ YES	☐ N/A	✓
Precision – reconciled discrepancies between operators or between the operator and ITR.	☐	☒	☐	✓
Accuracy – trained operators	☐	☒	☐	✓
Representativeness – description of container contents	☐	☒	☐	✓
Completeness – completed data form and/or recording	☐	☒	☐	✓
Comparability – proper training and adequate AK source documents are available for unopened containers.	☐	☒	☐	✓
14. Were NCRs generated included in the BDR?	☐ NO	☐ YES	☒ N/A	
Comments: NA				

Independent Technical Reviewer:

Monterry Harris — Printed Name

Monterry Harris — Signature

10-15-12 — Date

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Attachment 3 – Visual Examination Site Project Manager Checklist

Batch Data Report No.: BNLRHVE12011

1. Has all the data received an independent technical review as evidenced by a completed checklist (Attachment 2) and the appropriate ITR signature?		☐ NO	☑ YES
2. Are BDR contents complete and match the Visual Examination Batch Data Report Table of Contents?		☐ NO	☑ YES
3. Is the BDR complete (appropriately filled in forms for each container)?		☐ NO	☑ YES
4. Have the RH Quality Assurance Objectives (QAOs) for VE been met?			
Precision – reconciled discrepancies between operators		☐ NO	☑ YES
Accuracy – trained operators		☐ NO	☑ YES
Representativeness – description of container contents		☐ NO	☑ YES
Completeness – completed data form and/or recording		☐ NO	☑ YES
Comparability – proper training and adequate AK for unopened containers		☐ NO	☑ YES
5. Were NCRs generated included in the BDR?	☐ NO	☐ YES	☑ N/A

Comments

No NCR'S.

SPM:

Laura Nelson — Printed Name

Laura Nelson — Signature

11/28/12 — Date

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CCP RECORDS ORIGINAL
DATE REC'D 11.29.12

IN130030 Confirmed

Ray, Adam - RES

Sent: Wednesday, April 03, 2013 6:39 AM
To: Weyerman, Wade - LANL; Sensibaugh, Mike - WTS; carpsj@amwtp.inl.gov; cordsa@amwtp.inl.gov; Edward.Hart@amwtp.inl.gov; jackjm@amwtp.inl.gov; JORGKR@amwtp.inl.gov; petegd@amwtp.inl.gov; SCHWEP@amwtp.inl.gov; storme@amwtp.inl.gov
Cc: Stegman, Dustin - RES; Romo, Favian - WRES; Romo, Renee - WRES; Mahlin, Jay - RES; Billman, Robert - WRES; PPool, Crystal - WRES; Haschets, John - RES; Nelson, Jeremy - RES

All,

Shipment IN130030 has been Confirmed.

BEST AVAILABLE COPY

Adam Ray
Nuclear Waste Partnership LLC-Regulatory/Environmental Support
Contractor to the Department of Energy
850 Energy Dr. Suite 134
Idaho Falls, ID 83401
(208) 557-6337 work
(575) 725-8192 cell

From: wdsadmin@wipp.ws [wdsadmin@wipp.ws]
Sent: Wednesday, April 03, 2013 6:37 AM
To: DL WWIS C
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER IN130030 (prd05)

Shipment Number IN130030 has been confirmed by Waste Confirmation in the WDS.

SUMMARY: Following is an abbreviated shipment summary:

Payload Number	Controlled	Ship Period	Assembly	Containers
96673	N	60	IN125325	1 STANDARD WASTE BOX
			IN125326	1 STANDARD WASTE BOX
96678	N	60	IN125369	1 STANDARD WASTE BOX
96671	N	60	IN125314	1 STANDARD WASTE BOX
			IN125313	1 STANDARD WASTE BOX

WASTE STREAMS: The containers included in this shipment are from the following waste stream(s):

Payload Number	Waste Streams
96673	BNINW216 (FIRST/SECOND STAGE SOLIDIFIED SLUDGE)
96678	BNINW216 (FIRST/SECOND STAGE SOLIDIFIED SLUDGE)
96671	BNINW216 (FIRST/SECOND STAGE SOLIDIFIED SLUDGE)

CBFO Form MP 5.1-1
February 2013

ATTACHMENT II
Page 1 of 1

DOE Management Representative Review of Confirmation Data Package Checklist

line		YES	NO
1	Step 5.4 Review of RES Form EA02RC1102-1-0		
2	Site: AMWTP		
3	Shipment Number: IN130030		
4	Has the OP signed and dated the form?	✓	
5	Has the ITR signed and dated the form?	✓	
6	Has the PCR signed and dated the form?	✓	
7	Step 5.4.4 Technically Reasonable		
8	Were the data generated at a site certified by NTP?	✓	
9	Were the data generated in a process (technique) certified by NTP?	✓	
10	Are the data technically reasonable based on the technique used?	✓	
11	Step 5.4.5 Independent Technical Review		
12	Have the data received independent technical review?	✓	
13	Step 5.4.6 Ignitable, corrosive, reactive, and physical form		
14	Do the data indicate no ignitable, corrosive, reactive, and the physical form is correct?	✓	
15	Step 5.4.7 QC Checks		
16	Have the QC checks been performed?	✓	
17	Step 5.4.8 QAOs		
18	Have the QAOs been met?	✓	

19 ✓ APPROVED _____ DISAPPROVED

20 Michael R. Brown — NAME; [signature] — SIGNATURE; 4/2/2013 — DATE

RE: Request for DOE Management Representative Review for Shipment IN130030

Brown, Mike - DOE
Sent: Tuesday, April 02, 2013 3:03 PM
To: Ray, Adam - RES; Mackie, Bill - DOE; Morgan, Thomas - DOE; Pinzel, Marcus - DOE; Site Documents - DOE; Stroble, J. R. - DOE; Walker, Andy - DOE
Cc: Haschets, John - RES; Romo, Favian - WRES; Brown, Mike - DOE; Urquidez, Ken - RES

Shipment **IN130030** has been reviewed by the DOE Management Representative and is approved per Section C7-1e(2) of the WIPP HWFP.

Michael R. Brown
Transportation Packaging Manager
Phone: 575-234-7476
Fax: 575-234-7061
e-mail: mike.brown@wipp.ws
U.S. Department of Energy
4021 National Parks Highway
Carlsbad, New Mexico 88220

From: Ray, Adam - RES
Sent: Tuesday, April 02, 2013 2:37 PM
To: Brown, Mike - DOE; Mackie, Bill - DOE; Morgan, Thomas - DOE; Pinzel, Marcus - DOE; Site Documents - DOE; Stroble, J. R. - DOE; Walker, Andy - DOE
Cc: Haschets, John - RES; Romo, Favian - WRES
Subject: Request for DOE Management Representative Review for Shipment IN130030

To: DOE Management Representative

From: RES Permittees Confirmation Representative

As required by Permit Attachment C7, Section C7-1e (2), the **confirmation data package** for Shipment **IN130030** is attached and contains the following:

- EA02RC1102-1-0 Rev. 7 (1 for each waste stream in Shipment **IN130030**)
- EA02RC1102-2-0 Rev. 1 (ITR Checklist)
- EA02RC1102-3-0 Rev. 1 (PCR Checklist)

Per the WIPP Eight week Rolling Schedule, **IN130030** is scheduled to ship on **Friday, April 05, 2013 at 15:00.**

Shipment IN130030 can be viewed in its entirety at \\arrey\DOE_Shipment_Review.

Once your review is complete, please **REPLY to ALL via email** with your approval and/or comments.

Thank You

Adam Ray
Nuclear Waste Partnership LLC-Regulatory/Environmental Support
Contractor to the Department of Energy

850 Energy Dr. Suite 134
Idaho Falls, ID 83401
(208) 557-6337 work
(575) 725-8192 cell

Working Copy

TRU WASTE CONFIRMATION PCR REVIEW CHECKLIST

Shipment Number: IN130030

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. The data are technically reasonable based on the technique used. Reference Source: (C7-1e(2))	✓			
2. The data have received independent technical review. Reference Source: (C7-1e(2))	✓			
3. The data indicate that the waste examined contained no ignitable, corrosive, or reactive waste. Reference Source (C7-1e(2))	✓			
4. The data indicate that the physical form of the waste was consistent with the waste stream description in the waste stream profile form. Reference Source: (C7-1e(2))	✓			
5. The data met the established QAOs for RTR? Mark N/A if there are no RTRs for this shipment. Reference Source: (C7-1e(2))	✓			
5a. Precision Were discrepancies between two operators with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WC limits, and identification of compressed gases through independent replicate scans and independent observations reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(1))			✓	No discrepancies
5b. Accuracy Was the lines-Pair Resolution Test Check included in the BDR? Reference Source: (C7-1d(1))	✓			
5c. Accuracy Are the training qualifications for all radiography personnel acceptable? Reference Source: (C7-1d(1))	✓			
5d. Representativeness Was a Confirmation module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(1))	✓			

Working Copy

Shipment Number: IN130030

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
5e. Completeness Was a video and audio media recording of the radiography examination and a validated radiography data form obtained for 100 percent of the waste containers selected for confirmation? Reference Source: (C7-1d(1))	✓			
5f. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(1))	✓			
5g. Comparability Are the confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(1))	✓			
6. The data meet the established QAOs for VE? Mark N/A if there are no VEs for this shipment. Reference Source: (C7-1e(2))			✓	
6a. Precision Discrepancies between the operator and the independent technical reviewer with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WAC limits, and identification of compressed gases have been reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(2))			✓	
6b. Accuracy Are the training qualifications for all Visual Examination personnel acceptable? Reference Source: (C7-1d(2))			✓	
6c. Representativeness Was a Confirmation Module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(2))			✓	

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Shipment Number: IN130030				
Description of Criteria Reviewed	**Criteria Met?**			**Comments/Qualifiers**
	Yes	**No**	**N/A**	
6d. Completeness A validated VE data form was obtained for 100 percent of the waste containers subject to VE? Reference Source: (C7-1d(2))	☐	☐	☑	
6e. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(2))	☐	☐	☑	
6f. Comparability Are confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(2))	☐	☐	☑	
Comments: N/A				
Adam K Ray		Adam K Ray		4/2/2013
PCR Printed Name		Signature		Date
Shipment payloads have been verified and have not changed:				
Adam K Ray		Adam K Ray		4-3-13
PCR Printed Name		Signature		Date

Working Copy

TRU WASTE CONFIRMATION ITR REVIEW CHECKLIST

Shipment Number: IN130030

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. Data generation and reduction were conducted in a technically correct manner in accordance with the methods used (procedure with revision). Data were reported in the proper units and correct number of significant figures. Reference Source: (C7-1e(1))	✓			
2. Is the media complete, if applicable? Reference Source: (C7-1e(1))	✓			
3. The data have been reviewed for transcription errors? Reference Source (C7-1e(1))	✓			
4. Ensure the generator/storage site radiography video and audio media recordings were reviewed (independent observation) on a waste container basis at a minimum of once per shipment or once per day of operation, whichever is less frequent. The radiography video/audio recording was reviewed against the data reported on the radiography form to ensure that the data are correct and complete. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	✓			
5. If review of radiography scans recorded by the generator/storage site was used to perform confirmation, were two observations performed for each shipment or two observations per day, whichever is less frequent. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	✓			

Comments:
N/A

ITR Printed Name Dustin Stegman	Signature Dustin Stegman	Date 4/2/13

Waste Isolation Pilot Plant
Shipment Confirmation Payload Container List

Shipment Number: **IN130030**

Waste Stream Profile: **BNINW216**

	Container Num	Container Type	Payload	Type
1	BN10469826	2 - SWB - DIRECT LOAD	96671	TP-II
2	BN10470606	2 - SWB - DIRECT LOAD	96671	TP-II
3	BN10458641	2 - SWB - DIRECT LOAD	96673	TP-II
4	BN10470607	2 - SWB - DIRECT LOAD	96673	TP-II
5	BN10468390	2 - SWB - DIRECT LOAD	96678	HALFPACT

Count: 5

WDS WASTE DATA SYSTEM

Waste Isolation Pilot Plant
TRU Waste Confirmation Module

Shipment Number: **IN130030**

WCM Initiated By: RAY, ADAM
WCM Initiated On: 04/02/2013 06:00

Adam L Ray

The Waste Confirmation Module has been run.

Waste Stream Profile: **BNINW216**

Container Num	Container Type	Payload	Type
BN10470606	2 - SWB - DIRECT LOAD	96671	TP-II

IN130030 Notification

Ray, Adam - RES

Sent: Tuesday, April 02, 2013 6:05 AM
To: Weyerman, Wade - LANL; Sensibaugh, Mike - WTS; carpsj@amwtp.inl.gov; cordsa@amwtp.inl.gov; Edward.Hart@amwtp.inl.gov; jackjm@amwtp.inl.gov; JORGKR@amwtp.inl.gov; petegd@amwtp.inl.gov; SCHWEP@amwtp.inl.gov; storme@amwtp.inl.gov
Cc: Stegman, Dustin - RES; Romo, Favian - WRES; Romo, Renee - WRES; Mahlin, Jay - RES; Billman, Robert - WRES; PPool, Crystal - WRES; Haschets, John - RES; Nelson, Jeremy - RES
Attachments: IN130030 WCM.pdf (10 KB)

Attached is the TRU Waste Confirmation Module report from WDS for shipment IN130030 identifying the container(s) selected for Confirmation.

Any questions please call.

Adam K Ray
Nuclear Waste Partnership LLC-Regulatory/Environmental Support
Contractor to the Department of Energy
850 Energy Dr. Suite 136
Idaho Falls, ID 83401
(208) 557-6337 work
(575) 725-8192 cell
OR
Favian Romo
Nuclear Waste Partnership LLC- Regulatory/Environmental Support
Contractor to the Department of Energy
850 Energy Dr. Suite 134
Idaho Falls, ID 83401
(208) 557-0976 work
(575) 706-4019 cell

From: wdsadmin@wipp.ws [wdsadmin@wipp.ws]
Sent: Wednesday, March 27, 2013 4:52 PM
To: Petersen, Gary - INL; DL WWIS C
Subject: Shipment IN130030 Ready for Confirmation (prd05)

Shipment IN130030 Is Ready For Confirmation.

Working Copy

TRU Waste Confirmation (RTR/VE) Approval Form

CH OR RH:	CH
Packaging Type:	TRUPACT-II

Procedure No:	WP 02-RC1102 Rev.11	RTR and/or VE Media and/or Records Review	
Generator Site:	AMWTP	Shipment Number:	IN130030
Waste Stream Profile Number:	BNINW216	Shipping Container Type:	SWB
Shipping Container Number:	BN10470606		

Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid in Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	ITR	PCR
4/2/2013	96671	10463074	RTR12-00139	1RTR12-00124 A	YES	NO	NO	S3121 WASTEWATER TREATMENT SLUDGES	N/A	YES	N/A	RB	N/A	DS	AR
4/2/2013	96671	10464823	RTR12-00139	1RTR12-00124 A	YES	NO	NO	S3121 WASTEWATER TREATMENT SLUDGES	N/A	YES	N/A	RB	N/A	DS	AR
4/2/2013	96671	10464779	RTR12-00139	1RTR12-00124 A	YES	NO	NO	S3121 WASTEWATER TREATMENT SLUDGES	N/A	YES	N/A	RB	JN	DS	AR
4/2/2013	96671	10464781	RTR12-00139	1RTR12-00124 A	YES	NO	NO	S3121 WASTEWATER TREATMENT SLUDGES	N/A	YES	N/A	RB	JN	DS	AR
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with HWN U134 assigned shall have no observable liquid

	Printed Name:	Signature:	Date:
OP Reviewed by:	Robert Billman	Robert Billman	4/2/2013
IO Reviewed by:	Jeremy Nelson	Jeremy Nelson	4-2-2013
ITR Reviewed by:	Dustin Stegman	Dustin Stegman	4-2-13
PCR Reviewed by:	Adam K Ray	Adam K Ray	4-2-13

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	N/A

Shipment Number: IN130030
Container Number: BN10470606
Container Type: 2 - SWB - DIRECT LOAD

Certification Data Values

Generator Site:	RF	Waste Stream Profile Code:	BNINW216
Waste Handling Code:	CH	IDC Code:	002
Payload Number:	96671	Waste Matrix Code:	S3121
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	Y		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
4	OTHER INORGANIC MATERIALS	6.86
9	SOLIDIFIED INORGANIC MATERIAL	770.51
13	STEEL CONTAINER MATERIALS	397.35
14	PLASTIC/LINERS CONTAINER MATERIALS	3.18
	Waste Weight:	777.37
	Packaging Weight:	400.53
	Total Material Weight:	1177.90

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D022	CHLOROFORM
F001	SPENT HALOGENATED SOLVENTS
F002	SPENT HALOGENATED SOLVENTS
F003	SPENT NON-HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS
F006	WASTEWATER TREATMENT SLUDGE
F007	SPENT CYANIDE PLATING BATH
F009	SPENT STRIPPING SOLUTION

Shipment Number: IN130030
Container Number: BN10470606
Container Type: 2 - SWB - DIRECT LOAD

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
BN	9RR1	RTR SYSTEM (Z-213-101)	11/06/2012

DMS WTS / View Only operator / ADAM RAY [Overpack Rollup v1.3]

File Edit General Offsite Waste AMWTP ICS Data Review MLLW Soil Shipments Reports POS Facility Admin Navig Offsite Shipping Help Window

Overpack ID: [redacted] Prior Overpack ID

Child IDs: 10483050 10483074
10484874 10484823
10486626 10484779
10486628 10484781

Net Weight: 1713.60 Gross Weight: 2588.18 Enter: 2.64 Total: 2588.43 lbs.

Waste Stream Profile: BNHW216

Other Inorganic Material added at closure: 0 lbs.

E-Sign & Save | E-Sign History | Waste Params

General | Liquids | Contents | Radionuclides | EPA Codes

Closure

Closure Date: [redacted]

Layers of Confinement: 2

Closure Method: Twisted and Taped

Fill Factor: 45 %

Liner

Liner present: NO

Liner Punctured: NA

Liner Type: NO LINER

Exam Comments

10483050:
The remaining waste appears to be sludge.
10484874:
The remaining waste appears to be sludge.
10486626:
Waste appears to be sludge.
10486628:

Record 1/1 <OSC> <DBG>

AMWTP	Imaging Quality Indicator Verification Form For RTR	Form-1578 Rev. 4 Effective Date: 07/03/12 @ 1500 Hrs Page 1 of 1

Implementing Document: INST-OI-12, INST-OI-81

This form documents the performance of the Imaging Quality Indicator (IQI) prior to examining drums after system startup.

RTR System Z-213- 101 (Enter 101 or 106)

Date: 11/06/12 Time: 1320

IQI Number: 110612IQI101D Disk Number: 1RTR12-00124

Image Resolution: 16 lines per inch

kV: 150 mA: 5.0

Focus: Broad ☐ Fine ☑

(Signatures by the performer and shift supervisor confirm that the IQI has been verified via video/audio playback of the IQI from the DVD to be in compliance with INST-OI-12, Real-Time Radiography Operations (Drum), or INST-OI-81, Real-Time Radiography Operations (for WIPP Certification of Boxes), as applicable.

Signature of Performer:

Mike Ricks
Printed Name

Signature

11/06/12
Date

Review Signature of the Shift Supervisor:

Derek Cox
Printed Name

Signature

11/06/12
Date

AMWTP
Advanced Mixed Waste Treatment Project

AMWTP

RTR Analysis Report

Date: 02-Apr-2013
Time: 06:09

Batch Id RTR12-00139 **Container Id** 10463074 **Analysis Id** 0000085199

Container Type C drum, 83 Gallon **Analysis Status** Pass

RTR Date 06-NOV-2012 17:45 **Gross Weight** 571.095 Lbs **Net Weight** 428.095 Lbs
Equipment Z-213-101 **Waste Matrix Code** S3121 **IDC** RF-001 First Stage Sludge
Recording Id 1RTR12-00124 **Procedure Id** INST-OI-12 **Revision** 49 **Approval Level** SPM
Is Test Pattern Resolution Ok? Yes **Start Side** A **Replicate** No **OIO** No
Audio Visual Ok? Yes **Closure Date** 02-OCT-2012 00:00 **Operator** CBEEBE
Result Comment The remaining waste appears to be sludge.

Package

IDC Correct Yes **Recommended IDC** **Summary Category** S3000
Idc Change Reason

Rigid Liner Present? No **LinerType** NO LINER
Liner Punctured? N/A **Sharp Objects?** No
Liner Lid Present? No **Sharp Objects Are Protected?** Yes
Liner Lid Deformed? N/A **Layers Of Confinement** 1
Fill Factor 90
Bag Closure Method Twisted and Taped

Liquids

Liquid Present? No **Internal Container with Liquid** No
Internal Container with Liquid 0 pints **LA Candidate** No
Liquid Between Liner & Drum 0 pints **Containerized Liquid**
Total Liquid Amount 0 pints **Containerized Liquid Amt** 0 pints
Other Liquids 0 pints **Comment**
Prohibited Liquids Present No **Comment**

Contents-Drum or Box

	Value	Comment		Value	Comment
Lead?	No		Mercury Present?	No	
Wet Cell Batteries?	No		Explosives?	No	
Prohibited Compressed Gases	No		PCBs Present?	No	
			PCB Mass (lbs)	0	
Non-Mixed Hazardous Waste Present?	No		Sealed Containers Over 4L?	No	

Non-Radionuclide Pyrophoric Materials Present? No
Waste exhibiting the characteristics of Ignitability, Corrosivity or Reactivity Present? No
Wastes incompatible with backfill, seal and panel closure materials, container and packaging materials,shipping container or other wastes? No
Impenetrable Dense Objects? No

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Drum plastic bag	1.000	EACH	1.000	1.000
55-GAL DRUM (17c)	1.000	EACH	59.000	59.000

Waste Items byWeight

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Oil-Dri (404 gm/liter) 0.42 lb/pint	24.000	PINTS	0.420	10.080

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Advanced Mixed Waste Treatment Project

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RTR Analysis Report

Date: 02-Apr-2013
Time: 06:09

Batch Id RTR12-00139 **Container Id** 10463074 **Analysis Id** 0000085199

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	0.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	10.080
Cellulosics	0.000	0.000
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	0.000
Inorganic matrix	100.000	418.015
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	142.000
Plastic (packaging materials)	0.000	1.000
Cellulosics Packaging	0.000	0.000

Analysis Esignature History

Esig Approval Id	User Id	Esignature Date	Comment
2386208	CBEEBE	06-NOV-2012 17:45	

End of RTR Analysis Report

Batch Id RTR12-00139 **Open Date** 05-NOV-12 **Close Date** 07-NOV-12

Reviewer DENISE LEE **Approval Level** Independent Technical Reviewer
Approval Date 15-NOV-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
1. Is the Batch Data Report (BDR) and Quality Assurance (QA) documentation complete with the following: o Real-Time Radiography (RTR) Batch Coversheet o Table of Contents (manual review only) o RTR Analysis reports o Replicate Scan o Replicate Comparison o Independent Observation o ITR checklist (Form-1412, manual review only) o Form-1491, Batch Data Report Supplemental Comment Form (manual review only) o Associated NCRs (referenced in Waste Tracking System [WTS]) o Audio/Video Recording References?	Yes		
2. Are there 20 containers or less in the batch?	Yes		
3. Was the image quality indicator (IQI) satisfactory?	Yes		
4. Does every container in the batch reference an audio/video recording?	Yes		
5. Is there a completed radiography data analysis for each container in the batch?	Yes		
6. Was each RTR Operator qualified at the time of the radiography event?	Yes		
7. Was the data generated in a technically correct manner using the correct revision of INST-OI-12, Real-Time Radiography Operations (Drum) or INST-OI-81, Real Time Radiography Operations (WIPP Certification for Boxes)?	Yes		
8. Was the correct procedure and revision documented on all analysis reports?	Yes		
9. Has the E-signature History review been performed?	Yes		
10. Does the RTR operator confirm that the physical form matched the waste stream description and waste matrix code?	Yes		
11. Does the packaging weight plus the net weight equal the gross weight of the container in the estimated waste material parameters?	Yes		
12. Were all entries into the waste material items section assigned to the correct waste material parameters?	Yes		
13. Has the description of rigid liners and layers of confinement been properly documented, as applicable?	Yes		
14. Was the presence or absence of prohibited items properly documented?	Yes		
15. If prohibited items were identified, have appropriate nonconformance reports (NCRs) been generated?	Yes		
16. Were the containers examined between October and April in compliance with the preheat requirements?	Yes		
17. Were all proper units and significant figures used for all reported volumes/weights?	Yes		

Batch Id RTR12-00139 **Open Date** 05-NOV-12 **Close Date** 07-NOV-12

Reviewer DENISE LEE **Approval Level** Independent Technical Reviewer
Approval Date 15-NOV-12 **Review Iteration** 3

Question Text	Answer	Requirement	Comment
18. Was there a valid replicate scan performed (at least one container per day, or once per testing batch, whichever is less frequent)? o Record the container number, the replicate observation date in the comment section of this checklist. o Record any issues or concerns in the batch comment section.	Yes		Container 10463087; on November 6, 2012 the Replicate scan was performed by a qualified operator. There were small differences between the Original and Replicate. I agree with the Original Operator. No rework required.
19. Was there a valid Operator Independent Observation (OIO) (not the replicate) performed (at least one container per day, or once per testing batch, whichever is less frequent)? o Record the container number and the OIO date in the comment section of this checklist. o Record any issues or concerns in the batch comment section.	Yes		Container 10464835; on November 6, 2012 the OIO scan was performed by a qualified operator. There were small differences between the Original and OIO. I agree witht the Original Operator No rework required.
20. Were any significant differences identified that would affect the original disposition of the replicate and OIO, or affect data quality objectives (DQOs)? If so, ensure an NCR was generated and WTS flagged.	No		
21. Were the RTR quality assurance objectives (QAOs) met? o Precision o Accuracy o Completeness o Comparability	Yes		
22. Were any NCRs generated for containers containing prohibited items, or any non-conforming conditions that failed to meet DQOs or QAOs? o If so, include the NCRs, as appropriate, in the BDR.	Yes		
23. Were the rework requirements clearly identified in WTS or on the BDR?	Yes		

Batch Id RTR12-00139 **Open Date** 05-NOV-12 **Close Date** 07-NOV-12

Reviewer NICK STYHL **Approval Level** SPM Data Validation
Approval Date 15-NOV-12 **Review Iteration** 2

Question Text	Answer	Requirement	Comment
(1) Has the batch received a Data Generation Level Independent Technical Review?	Yes	MP-TRUW-8.2, C3-10b(1)	
(2) Is the Independent Technical Review checklist complete?	Yes	MP-TRUW-8.2, C3-10b(1)	
(3) When identified, were polychlorinated biphenyls (PCBs), mercury, lead, or other hazardous contaminants consistent with the waste stream acceptable knowledge (AK) Summary Report(s) and/or AK documentation?	N/A	MP-TRUW-8.2, C4-3	None identified.
(4) Are any ignitable, corrosive, or reactive wastes identified in this waste?	No	MP-TRUW-8.2, C4-3	
(5) Are the packaging configurations identified on the real-time radiography (RTR) consistent with the waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(6) Do the containers in this batch contain typical waste items consistent with waste stream AK Summary Report(s) and/or AK documentation?	Yes	MP-TRUW-8.2, C4-3	
(7) Are the Waste Matrix Codes (WMCs) and physical form descriptions consistent with AK?	Yes	MP-TRUW-8.2, C4-3	
(8) Have all AK discrepancies been resolved and have all AK Resolution checklists been approved? Reference all waste stream AK documentation used in review of this data package.	N/A	MP-TRUW-8.2, C4-3	No discrepancies identified.
(9) Have all applicable Quality Assurance Objectives (QAOs) been met, including precision, accuracy, completeness, and comparability, by using the appropriate acceptance criteria for each as specified in MP-TRUW-8.2, Quality Assurance Project Plan Section C3-4? Precision ¿ Verified prior to use by tuning precisely enough to demonstrate compliance with QAOs through viewing an image test pattern, as evidenced by a satisfactory Image Quality Indicator (IQI). ¿ Have discrepancies, if any, between radiography operators been reconciled? Accuracy ¿ Use of a target to tune the image for maximum sharpness as evidenced by a satisfactory IQI and by requiring operators to successfully identify 100% of the required items in a training container during initial and subsequent qualifications. Completeness ¿ An audio/videotape (or equivalent media) of the radiography examination and a validated radiography data form will be obtained for 100% of the retrievably stored waste container in the program for all waste containers subject to radiography. Comparability ¿ Use of standardized radiography procedures and operator qualifications.	Yes	MP-TRUW-8.2, C3-4a	
(10) Do the waste container contents match the WMC, waste stream description and identify the absence of prohibited items?	Yes	MP-TRUW-8.2, C1-3 and B3-11	

Batch Id RTR12-00139 **Open Date** 05-NOV-12 **Close Date** 07-NOV-12

Reviewer NICK STYHL **Approval Level** SPM Data Validation
Approval Date 15-NOV-12 **Review Iteration** 2

Question Text	Answer	Requirement	Comment
(11) If residual liquids exist in the container, is an estimate of quantity given?	Yes	MP-TRUW-8.2, C1-3	
(12) Do the individual container reports contain the (a) IDC, (b) Waste Matrix Code, (c) audio/video recording reference, (d) gross container weight, (e) waste material parameter weights, and (f) signature and date of examination?	Yes	MP-TRUW-8.2, C1-3 and C3-11a	
(13) Have the IDC, WMC, and/or waste stream for all containers in the batch remained the same as originally assigned by the historical designation? If not, note the container number in the comment field and notify the Acceptable Knowledge Expert (AKE) if NCR does not exist on the WMC and IDC change.	Yes	MP-TRUW-8.2, C1-3 and C3-4a	
(14) Was a replicate scan performed by an independent operator on at least one container per day or once per testing batch, whichever is less frequent, by a qualified radiography operator that was not involved in the original scan of the waste container?	Yes	MP-TRUW-8.2, B1-3, C3-4a, and C3-10b(1)	
(15) Has an independent observation of one scan (not the replicate) been performed by a qualified operator that was not involved in the original scan of the waste container, at a rate of once per day or once per batch, whichever is less frequent? Record date of observation and any issues or concerns in the comment section.	Yes	MP-TRUW-8.2, C1-3 and C3-4a	Container 10464835 examined on 06-Nov-12, no issues identified.
(16) Did personnel having current qualifications perform all RTR examinations?	Yes	MP-TRUW-8.1, Appendix F	
(17) Verify the correct procedure and revision number were used for all containers in this batch.	Yes	MP-TRUW-8.2, C3-4a	
(18) Verify the audio and video checks were performed and are satisfactory.	Yes	MP-TRUW-8.2, C3-4a	
(19) Verify that there are 20 or fewer containers in the batch.	Yes	MP-TRUW-8.2, C1-3	
(20) Does the data for all containers within this batch meet the review, validation, and verification requirements? · Are proper units (e.g. Liters or pounds) and significant figure used? · Is the BDR complete (all pages identified in the BDR and numbered accordingly)? - RTR Batch Coversheet - Table of Contents (manual review only) - RTR Analysis reports - Replicate Scan - Replicate Comparison - Independent Observation - Form-1412, ITR checklist - Associated NCRs - Form, 1491, Batch Data Report Supplemental Comment Form, as applicable - Audio/Video Recording References	Yes	MP-TRUW-8.2, C3 10b(2)	
(21) Review all NCR(s) (open and closed). Can the batch be approved?	Yes	MP-TRUW-8.2, C3-13	
(22) Is all data associated with this BDR acceptable for signature release?	Yes	MP-TRUW-8.2, C3 10b(2)	

Batch Id RTR12-00139 **Open Date** 05-NOV-12 **Close Date** 07-NOV-12

Esignature History

Esig Approval ID	User ID	Esig Date	Approval Level	Comments
2395502	NSTYHL	15-NOV-12	SPM	Approve batch.
2395466	DLEE	15-NOV-12	ITR	Only corrected the ITR checklist question #19. Roe Thompson did the level one validation. Promote to SPM.
2395310	NSTYHL	15-NOV-12	SPM	Demote to ITR.
2394741	RBTHOMPSON	14-NOV-12	ITR	Promote to SPM.
2394601	RBTHOMPSON	14-NOV-12	ITR	Demote to OPS.

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Non-Conformance Report

Date: 02-Apr-2013

Time: 06:10

*****Batch NCR(s)*****

Batch Type	RTR	Batch ID	RTR12-00139		
Trackwise Number		Status		Opened Date	Closed Date

*****Container NCR(s)*****

Container ID or related Batch ID	Trackwise Number	Status	Opened Date	Closed Date
10464841	73470	OPEN	06-NOV-12	

*****End of Non-Conformance Report*****

AMWTP	Imaging Quality Indicator Verification Form For RTR	Form-1578 Rev. 4 Effective Date: 07/03/12 @ 1500 Hrs Page 1 of 1

Implementing Document: INST-OI-12, INST-OI-81

This form documents the performance of the Imaging Quality Indicator (IQI) prior to examining drums after system startup.

RTR System Z-213- 101 (Enter 101 or 106)

Date: 11/06/12 Time: 1320

IQI Number: 110612IQI101D Disk Number: 1RTR12-00124

Image Resolution: 16 lines per inch

kV: 150 mA: 5.0

Focus: Broad ☐ Fine ☑

(Signatures by the performer and shift supervisor confirm that the IQI has been verified via video/audio playback of the IQI from the DVD to be in compliance with INST-OI-12, Real-Time Radiography Operations (Drum), or INST-OI-81, Real-Time Radiography Operations (for WIPP Certification of Boxes), as applicable.

Signature of Performer:

Mike Ricks
Printed Name

Signature

11/06/12
Date

Review Signature of the Shift Supervisor:

Derek Cox
Printed Name

Signature

11/06/12
Date

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Advanced Mixed Waste Treatment Project

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RTR Analysis Report

Date: 02-Apr-2013
Time: 06:11

Batch Id RTR12-00139 **Container Id** 10464823 **Analysis Id** 0000085198

Container Type C drum, 83 Gallon **Analysis Status** Pass

RTR Date 06-NOV-2012 16:17 **Gross Weight** 617.400 Lbs **Net Weight** 473.400 Lbs
Equipment Z-213-101 **Waste Matrix Code** S3121 **IDC** RF-002 Second Stage Sludge
Recording Id 1RTR12-00124 **Procedure Id** INST-OI-12 **Revision** 49 **Approval Level** SPM
Is Test Pattern Resolution Ok? Yes **Start Side** A **Replicate** No **OIO** No
Audio Visual Ok? Yes **Closure Date** 15-OCT-2012 00:00 **Operator** CBEEBE

Result Comment The remaining waste appears to be sludge.

Package

IDC Correct Yes **Recommended IDC** **Summary Category** S3000
Idc Change Reason

Rigid Liner Present? No **LinerType** NO LINER
Liner Punctured? N/A **Sharp Objects?** No
Liner Lid Present? No **Sharp Objects Are Protected?** Yes
Liner Lid Deformed? N/A **Layers Of Confinement** 2
Fill Factor 90
Bag Closure Method Twisted and Taped

Liquids

Liquid Present? No **Internal Container with Liquid** No
Internal Container with Liquid 0 pints **LA Candidate** No
Liquid Between Liner & Drum 0 pints **Containerized Liquid**
Total Liquid Amount 0 pints **Containerized Liquid Amt** 0 pints
Other Liquids 0 pints **Comment**
Prohibited Liquids Present No **Comment**

Contents-Drum or Box

	Value	Comment		Value	Comment
Lead?	No		Mercury Present?	No	
Wet Cell Batteries?	No		Explosives?	No	
Prohibited Compressed Gases	No		PCBs Present?	No	
			PCB Mass (lbs)	0	
Non-Mixed Hazardous Waste Present?	No		Sealed Containers Over 4L?	No	

Non-Radionuclide Pyrophoric Materials Present? No
Waste exhibiting the characteristics of Ignitability, Corrosivity or Reactivity Present? No
Wastes incompatible with backfill, seal and panel closure materials, container and packaging materials,shipping container or other wastes? No
Impenetrable Dense Objects? No

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Drum plastic bag	2.000	EACH	1.000	2.000
55-GAL DRUM (17c)	1.000	EACH	59.000	59.000

Waste Items byWeight

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Oil-Dri (404 gm/liter) 0.42 lb/pint	12.000	PINTS	0.420	5.040

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Advanced Mixed Waste Treatment Project

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RTR Analysis Report

Date: 02-Apr-2013

Time: 06:11

Batch Id RTR12-00139 **Container Id** 10464823 **Analysis Id** 0000085198

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	0.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	5.040
Cellulosics	0.000	0.000
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	0.000
Inorganic matrix	100.000	468.360
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	142.000
Plastic (packaging materials)	0.000	2.000
Cellulosics Packaging	0.000	0.000

Analysis Esignature History

Esig Approval Id	User Id	Esignature Date	Comment
2386085	CBEEBE	06-NOV-2012 16:17	

-----End of RTR Analysis Report-----

AMWTP	Imaging Quality Indicator Verification Form For RTR	Form-1578 Rev. 4 Effective Date: 07-03-12 @ 1500 Hrs Page 1 of 1

Implementing Document: INST-OI-12, INST-OI-81

This form documents the performance of the Imaging Quality Indicator (IQI) prior to examining drums after system startup.

RTR System Z-213- 101 (Enter 101 or 106)

Date: 11/05/12 Time: 1722

IQI Number: 11051 2 IQI 1010 Disk Number: 1RTR 12-00124

Image Resolution: 16 lines per inch

kV: 250 mA: 2

Focus: Broad ☐ Fine ☒

(Signatures by the performer and shift supervisor confirm that the IQI has been verified via video/audio playback of the IQI from the DVD to be in compliance with INST-OI-12, Real-Time Radiography Operations (Drum), or INST-OI-81, Real-Time Radiography Operations (for WIPP Certification of Boxes), as applicable.

Signature of Performer:

Jace Duke
Printed Name

Signature

11/05/12
Date

Review Signature of the Shift Supervisor:

Derek Cox
Printed Name

Signature

11/05/12
Date

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Advanced Mixed Waste Treatment Project

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RTR Analysis Report

Date: 02-Apr-2013
Time: 06:12

Batch Id RTR12-00139 **Container Id** 10464779 **Analysis Id** 0000085184

Container Type C drum, 83 Gallon **Analysis Status** Pass

RTR Date 05-NOV-2012 19:05 **Gross Weight** 560.070 Lbs **Net Weight** 416.070 Lbs
Equipment Z-213-101 **Waste Matrix Code** S3121 **IDC** RF-002 Second Stage Sludge
Recording Id 1RTR12-00124 **Procedure Id** INST-OI-12 **Revision** 49 **Approval Level** SPM
Is Test Pattern Resolution Ok? Yes **Start Side** A **Replicate** No **OIO** No
Audio Visual Ok? Yes **Closure Date** 16-OCT-2012 00:00 **Operator** DMOORE
Result Comment Waste appears to be sludge.

Package

IDC Correct Yes **Recommended IDC** **Summary Category** S3000
Idc Change Reason
Rigid Liner Present? No **LinerType** NO LINER
Liner Punctured? N/A **Sharp Objects?** No
Liner Lid Present? No **Sharp Objects Are Protected?** Yes
Liner Lid Deformed? N/A **Layers Of Confinement** 2
Fill Factor 100
Bag Closure Method Twisted and Taped

Liquids

Liquid Present? No **Internal Container with Liquid** No
Internal Container with Liquid 0 pints **LA Candidate** No
Liquid Between Liner & Drum 0 pints **Containerized Liquid**
Total Liquid Amount 0 pints **Containerized Liquid Amt** 0 pints
Other Liquids 0 pints **Comment**
Prohibited Liquids Present No **Comment**

Contents-Drum or Box

	Value	Comment		Value	Comment
Lead?	No		Mercury Present?	No	
Wet Cell Batteries?	No		Explosives?	No	
Prohibited Compressed Gases	No		PCBs Present?	No	
			PCB Mass (lbs)	0	
Non-Mixed Hazardous Waste Present?	No		Sealed Containers Over 4L?	No	

Non-Radionuclide Pyrophoric Materials Present? No
Waste exhibiting the characteristics of ignitability, Corrosivity or Reactivity Present? No
Wastes incompatible with backfill, seal and panel closure materials, container and packaging materials,shipping container or other wastes? No
Impenetrable Dense Objects? No

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Drum plastic bag	2.000	EACH	1.000	2.000
55-GAL DRUM (17c)	1.000	EACH	59.000	59.000

Waste Items byWeight

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)

Waste Items bv Volume

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)

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Advanced Mixed Waste Treatment Project

AMWTP

RTR Analysis Report

Date: 02-Apr-2013

Time: 06:12

Batch Id RTR12-00139 **Container Id** 10464779 **Analysis Id** 0000085184

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	0.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	0.000
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	0.000
Inorganic matrix	100.000	416.070
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	142.000
Plastic (packaging materials)	0.000	2.000
Cellulosics Packaging	0.000	0.000

Analysis Esignature History

Esig Approval Id	User Id	Esignature Date	Comment
2385104	DMOORE	05-NOV-2012 19:05	

End of RTR Analysis Report

AMWTP	Imaging Quality Indicator Verification Form For RTR	Form-1578 Rev. 4 Effective Date: 07/03/12 @ 1500 Hrs Page 1 of 1

Implementing Document: INST-OI-12, INST-OI-81

This form documents the performance of the Imaging Quality Indicator (IQI) prior to examining drums after system startup.

RTR System Z-213- 101 (Enter 101 or 106)

Date: 11/05/12 Time: 1722

IQI Number: 11051 2 IQI 101A Disk Number: 1RTR 12 00124

Image Resolution: 16 lines per inch

kV: 350 mA: 2

Focus: Broad ☐ Fine ☒

(Signatures by the performer and shift supervisor confirm that the IQI has been verified via video/audio playback of the IQI from the DVD to be in compliance with INST-OI-12, Real-Time Radiography Operations (Drum), or INST-OI-81, Real-Time Radiography Operations (for WIPP Certification of Boxes), as applicable.

Signature of Performer:

Jace Oake
Printed Name

Signature

11/05/12
Date

Review Signature of the Shift Supervisor:

Derek Cox
Printed Name

Signature

11/05/12
Date

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Advanced Mixed Waste Treatment Project

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RTR Analysis Report

Date: 02-Apr-2013
Time: 06:13

Batch Id RTR12-00139 **Container Id** 10464781 **Analysis Id** 0000085183

Container Type C drum, 83 Gallon **Analysis Status** Pass

RTR Date 05-NOV-2012 18:36 **Gross Weight** 540.225 Lbs **Net Weight** 396.225 Lbs
Equipment Z-213-101 **Waste Matrix Code** S3121 **IDC** RF-002 Second Stage Sludge
Recording Id IRTR12-00124 **Procedure Id** INST-OI-12 **Revision** 49 **Approval Level** SPM
Is Test Pattern Resolution Ok? Yes **Start Side** A **Replicate** No **OIO** No
Audio Visual Ok? Yes **Closure Date** 16-OCT-2012 00:00 **Operator** DMOORE
Result Comment Waste appears to be sludge.

Package

IDC Correct Yes **Recommended IDC** **Summary Category** S3000
Idc Change Reason
Rigid Liner Present? No **LinerType** NO LINER
Liner Punctured? N/A **Sharp Objects?** No
Liner Lid Present? No **Sharp Objects Are Protected?** Yes
Liner Lid Deformed? N/A **Layers Of Confinement** 2
Fill Factor 95
Bag Closure Method Twisted and Taped

Liquids

Liquid Present? No **Internal Container with Liquid** No
Internal Container with Liquid 0 pints **LA Candidate** No
Liquid Between Liner & Drum 0 pints **Containerized Liquid**
Total Liquid Amount 0 pints **Containerized Liquid Amt** 0 pints
Other Liquids 0 pints **Comment**
Prohibited Liquids Present No **Comment**

Contents-Drum or Box

	Value	Comment		Value	Comment
Lead?	No		Mercury Present?	No	
Wet Cell Batteries?	No		Explosives?	No	
Prohibited Compressed Gases	No		PCBs Present?	No	
			PCB Mass (lbs)	0	
Non-Mixed Hazardous Waste Present?	No		Sealed Containers Over 4L?	No	

Non-Radionuclide Pyrophoric Materials Present? No
Waste exhibiting the characteristics of Ignitability, Corrosivity or Reactivity Present? No
Wastes incompatible with backfill, seal and panel closure materials, container and packaging materials,shipping container or other wastes? No
Impenetrable Dense Objects? No

Waste Material Items

Packaging Materials

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)
Drum plastic bag	2.000	EACH	1.000	2.000
55-GAL DRUM (17c)	1.000	EACH	59.000	59.000

Waste Items byWeight

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)

Waste Items by Volume

Material Item	Quantity	Unit	Unit Wt(lbs)	Item Wt(lbs)

Batch Id RTR12-00139 **Container Id** 10464781 **Analysis Id** 0000085183

Waste Parameters

Waste Parameter	Remaining Weight %	Actual Weight Lbs
Iron-based Metals/Alloys	0.000	0.000
Aluminum-based Metals/Alloys	0.000	0.000
Other metals	0.000	0.000
Other Inorganic Materials	0.000	0.000
Cellulosics	0.000	0.000
Rubber	0.000	0.000
Plastic (Waste Materials)	0.000	0.000
Inorganic matrix	100.000	396.225
Organic matrix	0.000	0.000
Soils/gravel	0.000	0.000
Steel (packaging materials)	0.000	142.000
Plastic (packaging materials)	0.000	2.000
Cellulosics Packaging	0.000	0.000

Analysis Esignature History

Esig Approval Id	User Id	Esignature Date	Comment
2385094	DMOORE	05-NOV-2012 18:36	

End of RTR Analysis Report

IN130030

- [ ] Book
- [ ] Un-burst Paper
- [ ] Photos/Slides
- [ ] CD

WRMS Separator

- [ ] Video
- [x] DVD
- [ ] Oversize
- [ ] Other

IN130030

Urquidez, Ken - RES

From: Urquidez, Ken - RES
Sent: Monday, April 08, 2013 6:07 PM
To: McTaggart, Kevin - LANL; Landon, Dave - LANL; Rigby, Brandon - LANL; Houdashelt, Robert - LANL; Semon, Robert - LANL; York, Ronnie - LANL; Groover, Terri-Anne - LANL; Thomas, Bill - LANL; Waldram, Veronica - NWP; Joo, Irene - NWP
Cc: Haschets, John - RES; Urquidez, Ken - RES; Galbraith, Ron - RES; Romo, Favian - WRES; Ray, Adam - RES; Stegman, Dustin - RES
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER LA130031

Shipment Number LA130031 has been confirmed by Waste Confirmation in the WDS.

-----Original Message-----
From: wdsadmin@wipp.ws [mailto:wdsadmin@wipp.ws]
Sent: Monday, April 08, 2013 5:55 PM
To: DL WWIS C
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER LA130031 (prd05)

BEST AVAILABLE COPY

Shipment Number LA130031 has been confirmed by Waste Confirmation in the WDS.

SUMMARY: Following is an abbreviated shipment summary:

Payload Number	Controlled	Ship Period	Assembly	Containers
LA3094	N	20	LA127740	7 55-GALLON DRUM
			LA127741	7 55-GALLON DRUM
LA3096	N	20	LA127573	7 55-GALLON DRUM
			LA127572	7 55-GALLON DRUM
LA3095	N	20	LA127566	7 55-GALLON DRUM
			LA127567	7 55-GALLON DRUM

WASTE STREAMS: The containers included in this shipment are from the following waste stream(s):

Payload Number	Waste Streams
LA3094	LA-MHD01.001 (HETEROGENEOUS DEBRIS)
	LA-MHD03.001 (HETEROGENEOUS DEBRIS)
	LA-MIN04-S.001 (SALT WASTE FROM TA-55)
LA3096	LA-MHD01.001 (HETEROGENEOUS DEBRIS)
LA3095	LA-MHD01.001 (HETEROGENEOUS DEBRIS)

CBFO Form MP 5.1-1
February 2013

ATTACHMENT II
Page 1 of 1

DOE Management Representative Review of Confirmation Data Package Checklist

line		YES	NO
1	Step 5.4 Review of RES Form EA02RC1102-1-0		
2	Site: LANL		
3	Shipment Number: LA 130031		
4	Has the OP signed and dated the form?	✓	
5	Has the ITR signed and dated the form?	✓	
6	Has the PCR signed and dated the form?	✓	
7	Step 5.4.4 Technically Reasonable		
8	Were the data generated at a site certified by NTP?	✓	
9	Were the data generated in a process (technique) certified by NTP?	✓	
10	Are the data technically reasonable based on the technique used?	✓	
11	Step 5.4.5 Independent Technical Review		
12	Have the data received independent technical review?	✓	
13	Step 5.4.6 Ignitable, corrosive, reactive, and physical form		
14	Do the data indicate no ignitable, corrosive, reactive, and the physical form is correct?	✓	
15	Step 5.4.7 QC Checks		
16	Have the QC checks been performed?	✓	
17	Step 5.4.8 QAOs		
18	Have the QAOs been met?	✓	

19 X APPROVED DISAPPROVED

20 Thomas Morgan | [signature] | 4/8/13

NAME SIGNATURE DATE

Urquidez, Ken - RES

From:	Morgan, Thomas - DOE
Sent:	Monday, April 08, 2013 2:26 PM
To:	Urquidez, Ken - RES; Brown, Mike - DOE; Mackie, Bill - DOE; Pinzel, Marcus - DOE; Walker, Andy - DOE; Stroble, J. R. - DOE; Morgan, Thomas - DOE
Cc:	Site Documents - DOE; Haschets, John - RES; Romo, Favian - WRES; Galbraith, Ron - RES; Ray, Adam - RES; Stegman, Dustin - RES
Subject:	RE: Request for DOE Management Representative Review for Shipment LA130031
Importance:	High

Shipment LA130031 has been reviewed by the DOE Management Representative and is approved per Section C7-1e(2) of the WIPP HWFP.

Tom Morgan
Department of Energy Carlsbad Field Office
National Transuranic Program CCP Manager
CBFO desk 575 234 7462
cell 575 706 2163

From: Urquidez, Ken - RES
Sent: Monday, April 08, 2013 10:11 AM
To: Morgan, Thomas - DOE; Brown, Mike - DOE; Mackie, Bill - DOE; Pinzel, Marcus - DOE; Walker, Andy - DOE; Stroble, J. R. - DOE
Cc: Site Documents - DOE; Haschets, John - RES; Romo, Favian - WRES; Urquidez, Ken - RES; Galbraith, Ron - RES; Ray, Adam - RES; Stegman, Dustin - RES; Urquidez, Ken - RES
Subject: Request for DOE Management Representative Review for Shipment LA130031
Importance: High

To: DOE Management Representative

From: RES Permittees Confirmation Representative

As required by Permit Attachment C7, Section C7-1e (2), the **confirmation data package** for Shipment **LA130031** is attached and contains the following:

- EA02RC1102-1-0 Rev. 7 (1 for each waste stream in Shipment **LA130031**)
- EA02RC1102-2-0 Rev. 1 (ITR Checklist)
- EA02RC1102-3-0 Rev. 1 (PCR Checklist)

Per the WIPP Eight week Rolling Schedule, **LA130031** is scheduled to ship on **Wednesday, April 10, 2013 at 18:00.**

Shipment LA130031 can be viewed in its entirety at \\arrey\DOE_Shipment_Review.

Once your review is complete, please **REPLY to ALL via email** with your approval and/or comments.

Thank You,

Ken Urquidez
Nuclear Waste Partnership LLC - Regulatory/Environmental Support
Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
(575) 234-7036
(575) 302-3726

Working Copy

TRU WASTE CONFIRMATION PCR REVIEW CHECKLIST

Shipment Number: LA130031

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. The data are technically reasonable based on the technique used. Reference Source: (C7-1e(2))	✓			
2. The data have received independent technical review. Reference Source: (C7-1e(2))	✓			
3. The data indicate that the waste examined contained no ignitable, corrosive, or reactive waste. Reference Source (C7-1e(2))	✓			
4. The data indicate that the physical form of the waste was consistent with the waste stream description in the waste stream profile form. Reference Source: (C7-1e(2))	✓			
5. The data met the established QAOs for RTR? Mark N/A if there are no RTRs for this shipment. Reference Source: (C7-1e(2))	✓			
5a. Precision Were discrepancies between two operators with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WC limits, and identification of compressed gases through independent replicate scans and independent observations reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(1))			✓	No discrepancies
5b. Accuracy Was the lines-Pair Resolution Test Check included in the BDR? Reference Source: (C7-1d(1))	✓			
5c. Accuracy Are the training qualifications for all radiography personnel acceptable? Reference Source: (C7-1d(1))	✓			
5d. Representativeness Was a Confirmation module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(1))	✓			

Working Copy

Shipment Number: LA130031

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
5e. Completeness Was a video and audio media recording of the radiography examination and a validated radiography data form obtained for 100 percent of the waste containers selected for confirmation? Reference Source: (C7-1d(1))	✓			
5f. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(1))	✓			
5g. Comparability Are the confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(1))	✓			
6. The data meet the established QAOs for VE? Mark N/A if there are no VEs for this shipment. Reference Source: (C7-1e(2))			✓	
6a. Precision Discrepancies between the operator and the independent technical reviewer with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WAC limits, and identification of compressed gases have been reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(2))			✓	
6b. Accuracy Are the training qualifications for all Visual Examination personnel acceptable? Reference Source: (C7-1d(2))			✓	
6c. Representativeness Was a Confirmation Module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(2))			✓	

Working Copy

Shipment Number: LA130031				
Description of Criteria Reviewed	**Criteria Met?**			**Comments/Qualifiers**
	Yes	**No**	**N/A**	
6d. Completeness A validated VE data form was obtained for 100 percent of the waste containers subject to VE? Reference Source: (C7-1d(2))	☐	☐	☑	
6e. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(2))	☐	☐	☑	
6f. Comparability Are confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(2))	☐	☐	☑	
Comments: N/A				
KEN URQUIDEZ				4/8/2013
PCR Printed Name	Signature			Date
Shipment payloads have been verified and have not changed:				
Ken Urquidez				4/8/2013
PCR Printed Name	Signature			Date

Working Copy

TRU WASTE CONFIRMATION ITR REVIEW CHECKLIST

Shipment Number: LA130031

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. Data generation and reduction were conducted in a technically correct manner in accordance with the methods used (procedure with revision). Data were reported in the proper units and correct number of significant figures. Reference Source: (C7-1e(1))	✓			
2. Is the media complete, if applicable? Reference Source: (C7-1e(1))	✓			
3. The data have been reviewed for transcription errors? Reference Source (C7-1e(1))	✓			
4. Ensure the generator/storage site radiography video and audio media recordings were reviewed (independent observation) on a waste container basis at a minimum of once per shipment or once per day of operation, whichever is less frequent. The radiography video/audio recording was reviewed against the data reported on the radiography form to ensure that the data are correct and complete. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	✓			
5. If review of radiography scans recorded by the generator/storage site was used to perform confirmation, were two observations performed for each shipment or two observations per day, whichever is less frequent. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	✓			

Comments:
N/A

ITR Printed Name Ronald Galbraith	Signature [signature]	Date 4-3-2013

Waste Isolation Pilot Plant
Shipment Confirmation Payload Container List

Shipment Number: LA130031

Waste Stream Profile: LA-MHD01.001

	Container Num	Container Type	Payload	Type
1	LA00000092494	1 - 55 GAL DRUM	LA3094	TP-II
2	LA00000092524	1 - 55 GAL DRUM	LA3094	TP-II
3	LA00000092586	1 - 55 GAL DRUM	LA3094	TP-II
4	LA00000092600	1 - 55 GAL DRUM	LA3094	TP-II
5	LA00000093002	1 - 55 GAL DRUM	LA3094	TP-II
6	LAS822556	1 - 55 GAL DRUM	LA3094	TP-II
7	LAS824607	1 - 55 GAL DRUM	LA3094	TP-II
8	LAS855309	1 - 55 GAL DRUM	LA3094	TP-II
9	LAS862268	1 - 55 GAL DRUM	LA3094	TP-II
10	LAS862271	1 - 55 GAL DRUM	LA3094	TP-II
11	LAS910727	1 - 55 GAL DRUM	LA3094	TP-II
12	LA00000066815	1 - 55 GAL DRUM	LA3095	TP-II
13	LA00000066905	1 - 55 GAL DRUM	LA3095	TP-II
14	LA00000066942	1 - 55 GAL DRUM	LA3095	TP-II
15	LA00000066992	1 - 55 GAL DRUM	LA3095	TP-II
16	LA00000067067	1 - 55 GAL DRUM	LA3095	TP-II
17	LA00000067068	1 - 55 GAL DRUM	LA3095	TP-II
18	LA00000067098	1 - 55 GAL DRUM	LA3095	TP-II
19	LA00000066908	1 - 55 GAL DRUM	LA3096	TP-II
20	LA00000092154	1 - 55 GAL DRUM	LA3096	TP-II
21	LA00000092166	1 - 55 GAL DRUM	LA3096	TP-II
22	LA00000092181	1 - 55 GAL DRUM	LA3096	TP-II
23	LA00000092355	1 - 55 GAL DRUM	LA3096	TP-II
24	LA00000092466	1 - 55 GAL DRUM	LA3096	TP-II
25	LA00000092751	1 - 55 GAL DRUM	LA3096	TP-II

Count: 25

Waste Stream Profile: LA-MHD03.001

	Container Num	Container Type	Payload	Type
1	LA00000092701	1 - 55 GAL DRUM	LA3094	TP-II
2	LA00000092959	1 - 55 GAL DRUM	LA3094	TP-II

Count: 2

Waste Stream Profile: LA-MIN04-S.001

	Container Num	Container Type	Payload	Type
1	LAS813444	1 - 55 GAL DRUM	LA3094	TP-II

Waste Isolation Pilot Plant
Shipment Confirmation Payload Container List

Shipment Number: LA130031

Waste Stream Profile: LA-MIN04-S.001

Container Num	Container Type	Payload	Type

Count: 1

Waste Isolation Pilot Plant
TRU Waste Confirmation Module

Shipment Number: LA130031

WCM Initiated By: URQUIDEZ, KEN
WCM Initiated On: 04/02/2013 13:41

The Waste Confirmation Module has been run.

Waste Stream Profile: LA-MHD01.001

Container Num	Container Type	Payload	Type
LA00000092524	1 - 55 GAL DRUM	LA3094	TP-II
LA00000092586	1 - 55 GAL DRUM	LA3094	TP-II

Waste Stream Profile: LA-MHD03.001

Container Num	Container Type	Payload	Type
LA00000092959	1 - 55 GAL DRUM	LA3094	TP-II

Waste Stream Profile: LA-MIN04-S.001

Container Num	Container Type	Payload	Type
LAS813444	1 - 55 GAL DRUM	LA3094	TP-II

Urquidez, Ken - RES

From:	Urquidez, Ken - RES
Sent:	Tuesday, April 02, 2013 1:46 PM
To:	McTaggart, Kevin - LANL; Landon, Dave - LANL; Rigby, Brandon - LANL; Houdashelt, Robert - LANL; Semon, Robert - LANL; York, Ronnie - LANL; Groover, Terri-Anne - LANL; Thomas, Bill - LANL; Waldram, Veronica - NWP; Joo, Irene - NWP
Cc:	Haschets, John - RES; Urquidez, Ken - RES; Galbraith, Ron - RES; Romo, Favian - WRES; Ray, Adam - RES; Stegman, Dustin - RES
Subject:	LA130031 Container Selection
Attachments:	LA130031_CM.pdf

FYI-

Attached is the TRU Waste Confirmation Module report from WDS for shipment **LA130031** identifying the container(s) selected for Confirmation.

Any questions please call.

Ken Urquidez
Nuclear Waste Partnership LLC - Regulatory/Environmental Support
Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
Office: 575.234.7036
Cell: 575.302.3726

Or

John Haschets
Nuclear Waste Partnership LLC - Regulatory/Environmental Support
Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
575.234.7053 office
575.706.1779 cell

-----Original Message-----
From: wdsadmin@wipp.ws [mailto:wdsadmin@wipp.ws]
Sent: Tuesday, April 02, 2013 11:03 AM
To: McTaggart, Kevin - LANL; DL WWIS C
Subject: Shipment LA130031 Ready for Confirmation (prd05)

Shipment LA130031 Is Ready For Confirmation.

Working Copy

TRU Waste Confirmation (RTR/VE) Approval Form

CM OR RH:	CH
Packaging Type:	TRUPACT-II

Procedure No:	WP 02-RC1102 Rev.11	RTR and/or VE Media and/or Records Review	
Generator Site:	LANL	Shipment Number:	LA130031
Waste Stream Profile Number:	LA-MHD01.001	Shipping Container Type:	55-Gal
Shipping Container Number:	N/A		

Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid in Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	ITR	PCR
4/3/2013	LA3094	LA000000 02524	LA-RTR2-13-0013	LA-RTR2-13-0013 AAB	YES	NO	NO	55400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	RYB	N/A		
4/3/2013	LA3094	LA000000 02586	LA-RTR2-13-009	LA-RTR2-13-009AAB	YES	NO	NO	55400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	RYB	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with HMW U134 assigned shall have no observable liquid

OP Reviewed by:	RODEL BENEDICTOS (Printed Name:)	(Signature:)	4/3/2013 (Date:)
IO Reviewed by:	N/A (Printed Name:)	N/A (Signature:)	N/A (Date:)
ITR Reviewed by:	RON GALBRAITH (Printed Name:)	(Signature:)	4-3-2013 (Date:)
PCR Reviewed by:	KENNETH URQUIDEZ (Printed Name:)	(Signature:)	4/3/2013 (Date:)

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	N/A RYB 04/03/2013

CONTAINERID: 92524

LANL

AK DATA

Container	Container Type	WDS Status	WSID
92524	55G	APPROVED_SHIP	LA-MHD01.001

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
HLANDA1706	NDA	Complete	2013-02-01	PDF Link (click here)

BDRID	Type	Status	Gen Date	PDF Link
LA-RTR2-13-0013	RTR	Complete	2013-01-29	PDF Link (click here)

BDRID	Type	Status	Gen Date	PDF Link
LA13FG8009	HSG_TRANS	Complete	2013-02-06	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
92524	NO DATA				

Release Reason	Actual Condition

Report Statistics

Report Version: **2.2**
WDS Instance: **prd05.wipp.carlsbad.nm.us**
Generated on: **April 02, 2013 1:42 PM**
Generated by: **URQUIDEZ, KEN**
Total Pages: **9**

Shipment Number: **LA130031/-**

Shipment Number: LA130031
Container Number: LA00000092524
Container Type: 1 - 55 GAL DRUM

Certification Data Values

Generator Site:	LA	Waste Stream Profile Code:	LA-MHD01.001
Waste Handling Code:	CH	IDC Code:	NONE
Payload Number:	LA3094	Waste Matrix Code:	S5400
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	12.00
3	OTHER METAL/ALLOYS	2.00
4	OTHER INORGANIC MATERIALS	6.00
8	PLASTICS	6.00
9	SOLIDIFIED INORGANIC MATERIAL	49.10
13	STEEL CONTAINER MATERIALS	27.70
14	PLASTIC/LINERS CONTAINER MATERIALS	2.00
15	CELLULOSICS PACKAGING MATERIALS	3.70
	Waste Weight:	75.10
	Packaging Weight:	33.40
	Total Material Weight:	108.50

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D018	BENZENE
D019	CARBON TETRACHLORIDE
D021	CHLOROBENZENE
D022	CHLOROFORM

Waste Isolation Pilot Plant
Confirmation Container Data Report

Shipment Number: LA130031
Container Number: LA00000092524
Container Type: 1 - 55 GAL DRUM

Hazardous Codes

Hazardous Code	Description
D035	METHYL ETHYL KETONE
D038	PYRIDINE
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
F001	SPENT HALOGENATED SOLVENTS
F002	SPENT HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C4	11RR2	RTR - VJ TECHNOLOGIES MOBILE SYSTEM	01/29/2013

Attachment 5 – CCP Radiography Batch Data Report Cover Sheet

Site ID: LANL

Batch Data Report No.: LA-RTR2-13-0013 ☑ CH ☐ RH Date: 1-29-13

Waste Container ID Numbers	
Replicate Scan:	92524
Independent Observation:	92606
1	92596
2	92602
3	92466
4	92486
5	92374
6	92378
7	52028
8	52027
9	92600
10	~~62664~~ 92604 TSH 1-30-13
11	92463
12	92476
13	92166
14	91821
15	92552
16	S813513
17	92606
18	92524
19	92598
20	S825891

RTR Operator: Thad Hasselstrom — Printed Name; Signature; 1-29-13 — Date

Independent Technical Reviewer: AARON ELLIOTT — Printed Name; Signature; 1/30/13 — Date

CCP RECORDS ORIGINAL
DATE REC'D 1/31/13

01

Attachment 4 – CCP Radiography Batch Data Report Table of Contents and Batch Narrative

Batch Data Report No.: LA-RTR2-13-0013 Date: 1-29-13

Table Of Contents		
Item	Description	Page No.
1	CCP Radiography Batch Data Report Cover Sheet	1
2	CCP Radiography Batch Data Report Table Of Contents	2
3	CCP RTR Measurement Control Report	3, 3A
4	CCP Radiography Data Sheets	4
5	Copy of NCRs (NA, If Not Applicable)	70
6	CCP Independent Technical Reviewer Checklist 79 TJH 1-30-13	~~78~~ TJH 1-30-13

Batch Narrative
All Quality Checks were performed and recorded on CCP-TP-053, Rev. 12, CCP Radiography Measurement Control Report. This Batch Data Report was started on 1-28-13 and carried over into 1-29-13. Another Image Test Pattern was conducted on 1-29-13 prior to running containers and subsequent Replicate Scan and Independent Observation. All documents are included in this Batch Data Report.

Thad Hasselstrom — RTR Operator
Signature
1-29-13 — Date

02

Attachment 1 – CCP RTR Measurement Control Report

Site ID: LANL			
Batch Data Report No.: LA-RTR2-13-0013			✓
Examination Date: 1-29-13			
Control Checks			
Video/Audio Recorded Media System Check	☑ SAT	☐ UNSAT	✓
Image Test : 9 Lines (Minimum acceptable is 5 lines-pair/cm or #6 Sieve is viewable)	☑ SAT	☐ UNSAT	✓
Comments: N/A			
RTR Operator:			
Thad Hasselstrom	Thad Hasselstrom	1/29/13	
Printed Name	Signature	Date	

~~04~~ TSH 1-30-13 ORIGINAL
~~3A~~ TSH 1-30-13 3A TSH 1-30-13

CCP Radiography Data Sheet

Section 1: General Information	
[X] RTR Examination [ ] RTR Replicate Scan [ ] RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-RTR2-13-0013
Examination Date:	1/29/2013
Waste Container ID:	92524
Video/Audio Recorded Media Number:	LA-RTR2-13-0013 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 12
NCR(s) associated with the container? (e.g., Prohibited Items)	[X] No [ ] Yes NCR No.: N/A NCR No.: N/A

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA225
Waste Matrix Code:	S5400
Waste Stream I.D.:	LA-MHD01.001
Waste Container Weights:	Gross Wt.: 108.5 kg Tare Wt.: 33.4 kg Net Wt.: 75.1 kg
Rigid Liner and Liner Vent Description:	Liner: [X] No [ ] Yes Lid: [X] No [ ] Yes Type: [ ] 30-mil [ ] 90-mil [ ] 110-mil [ ] 125-mil Vented: [ ] No [ ] Yes [X] N/A Punctured: [X] No [ ] Yes Mechanical Vent: [X] No [ ] Yes Fiberboard Liner: [ ] No [X] Yes Lead Lined: [X] No [ ] Yes
Number of Layers of Confinement:	Appears to be 2 layers
Volume Utilization Percentage:	100 %

CCP Radiography Data Sheet

Waste Container ID: 92524

Section 3: Container Inventory and Comments

IM: Metal lids, metal cans with material, scrap metal

AM:

OM: Scrap lead

OI: Broken glass

C:

R:

XPM: Plastic bags

OR:

IN: Homogeneous solids

S:

Section 4: Packaging Material and Waste Material Parameters

Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP):Plastic Liner Bag	2.0
Other: Fiberboard (CP)	3.7
Total Packaging Weight	33.4
Waste Material Parameter:	**Estimated Weight (kg)**
Iron-based Metal / Alloys (IM):	12.0
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	2.0
Other Inorganic Materials (OI)	6.0
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	6.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	49.1
Soils (S):	
Total WMP Weight:	75.1

CCP Radiography Data Sheet

Waste Container ID: 92524

Section 5: RTR Summary	
Is there observable liquid?	☐ Yes ☒ No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	☐ Yes ☒ No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	☐ Yes ☒ No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	☐ Yes ☒ No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐ Yes ☒ No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐ Yes ☒ No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	☐ Yes ☒ No
Is there an indication of wastes containing explosives or compressed gases?	☐ Yes ☒ No
Is there an indication of PCBs liquids?	☐ Yes ☒ No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐ Yes ☒ No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐ Yes ☒ No
CH or RH TRAMPAC	
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	☐ Yes ☒ No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐ Yes ☒ No
Are there sealed containers GREATER than 4 liters?	☐ Yes ☒ No
Are there indications of inadequate protection for heavy and/or sharp objects?	☐ Yes ☒ No

Comments: This drum contains metal cans with material, which may require additional Project Office review.

RTR Operator:

Thad Hasselstrom		1/29/2013
Print Name	Signature	Date

RTR Data Sheet.xls SCO# 1189 Ver. 1
Microsoft Excel 2003 Windows XP

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist

Batch Data Report No.: LA-RTR2-13-0013

Description				
1.	Data generation and reduction were conducted in a technically correct manner in accordance with the methods used?	☐ NO	☑ YES	✓
2.	Was the correct revision of the procedure used? Procedure: CCP-TP-053 Rev.: 12	☐ NO	☑ YES	✓
3.	Are the WMPs entered correctly?	☐ NO	☑ YES	✓
4.	Do the estimated weights in Section 4 of Attachment 2 equal the container gross weight?	☐ NO	☑ YES	✓
5.	Is the data reported in the proper units with the correct number of significant figures (e.g., one tenth of a kilogram)?	☐ NO	☑ YES	✓
6.	Has the data been verified for transcription errors?	☐ NO	☐ YES	☑ N/A
7.	Does the Testing Batch Report include radiography for up to 20 containers?	☐ NO	☑ YES	
8.	SDR contents are complete and match the CCP Waste RTR Batch Data Report Table of Contents?	☐ NO	☑ YES	
9.	Is all the data signed and dated in reproducible ink and by the individual(s) generating it?	☐ NO	☑ YES	✓
10.	Is all data recorded clearly, legibly, and accurately?	☐ NO	☑ YES	✓
11.	All changes to original data lined out, initialed and dated by the individual making the changes?	☐ NO	☑ YES	✓ ☐ N/A
12.	Was justification made for changing the original data?	☐ NO	☐ YES	☑ N/A ✓
13.	Were data changes made by the individual who originally collected the data?	☐ NO	☑ YES	✓ ☐ N/A
14.	Does the waste match the Waste Matrix Code and Waste Stream description?	☐ NO	☑ YES	✓
15.	Are the RTR Operator's decisions regarding the Radiography documented?	☐ NO	☑ YES	
16.	Is there an adequate written description of the contents of each item?	☐ NO	☑ YES	✓
17.	Was the video/audio recording media properly prepared and labeled for each waste container?	☐ NO	☑ YES	
18.	Was the video/audio recording media check performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓

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Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist (Continued)

Batch Data Report No.: LA-RTR0-13-0013

Description				
19.	Was the Image Test performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓
20.	Was the Replicate Scan performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
21.	Was the Replicate Scan RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
22.	Did the Replicate Scan RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
23.	Was the Independent Observation performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
24.	Was the Independent Observation RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
25.	Did the Independent Observation RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
26.	Was the data collection performed by qualified individuals?	☐ NO	☑ YES	✓
27.	Are the NCR(s) associated with the RTR examination included in the BDR?	☐ NO	☑ YES	✓ ☐ N/A
28.	QAOs (precision, accuracy, completeness, representativeness) have been met?	☐ NO	☑ YES	✓

Comments:
ALL CONTAINERS IN THIS BDR MATCH THE WASTE STREAM DESCRIPTION AND WASTE MATRIX CODE EXCEPT CONTAINERS: 92552, 92598 AND 92374

I have reviewed 100% of the container specific and batch data in this report and find it acceptable.

Independent Technical Reviewer:

AARON ELLIOTT — Printed Name
[signature] — Signature
1/30/13 — Date

~~79~~ 78H 1-30-13
80 TSH 1-30-13

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary

BDR Number: LA-RTR2-13-0013 Examination Date: 28 - 29 January 2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
1. Is the completed, signed, and dated Independent Technical Reviewer Checklist included in the BDR, and the independent technical reviewer was not involved in the generation or recording of the data under review? Reference Source: CCP-PO-001, C3-10b	X			
2. Does the BDR contain all items addressed in the BDR Table of Contents? Reference Source: CCP-PO-001, C3-10b	X			
3. Does the BDR include a listing of all the container numbers in the batch? Reference Source: CCP-PO-001, C3-10b	X			
4. List all containers that have met QAOs. Reference Source: CCP-PO-001, C3-10b				Container(s): 92596, 92602, 92466, 92486, 92378, 52028, , 52027, 92600, 92604, 92463, 92476, 92166, 91821, 92606, 92524, S825891
5. Does the BDR identify the current implementing procedure and revision number? Reference Source: CCP-PO-001, Table C3-11	X			
6. Is there a reference to or copy of any associated NCRs (if any) in the BDR? NA if no NCRs. Reference Source: CCP-PO-001, Table C3-11	X			NCR-LANL-0400-13 has an interim "Hold" disposition for 92552 and 92598 NCR-LANL-0401-13 rejects S813513 NCR-LANL-0402-13 has an interim "Hold" disposition for 92374
7. Are there 20 or fewer containers in the batch? Reference Source: CCP-PO-001, C3-10	X			
8. Are the data properly reported (i.e., data are reported in correct units and with correct significant figures)? Reference Source: CCP-PO-001, C3-10b	X			
9. Is there evidence of verification that the physical form matches the Waste Matrix Code? Reference Source: CCP-PO-001, C3-4, Table C3-11	X			Except: 92374, 92552, 92598

CCP RECORDS ORIGINAL
DATE REC'D 02 04 13

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-13-0013 Examination Date: 28 - 29 January 2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
10. Is there evidence of verification that the physical form matches the waste stream description? Reference Source: CCP-PO-001, C1-3, Table C3-11	X			Except: 92374, 92552, 92598
11. Are prohibited items absent? Reference Source: CCP-PO-001, C3-4a	X			Except: S813513
12. Does observable liquid, if present, meet the criteria of the TSDF-WAC? Reference Source: CCP-PO-001, C3-4a	X			Except: S813513
13. Were discrepancies between two operators with regard to identification of waste matrix code, liquids in excess of the TSDF-WAC, or compressed gases through replicate scans and independent observations reconciled? NA if no discrepancies. Reference Source: CCP-PO-001, C3-4a			X	No discrepancies
14. Are the training qualifications for all radiography personnel acceptable? Reference Source: CCP-PO-001, C3-4a	X			
15. Was evidence of the video/audio check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
16. Was the Lines-Pair Resolution Test Check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
17. Was a replicate scan performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			92524
18. Was an independent observation performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			92606

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-13-0013 Examination Date: 28 - 29 January 2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
19. Were the replicate scan and independent observation performed on different waste containers? Reference Source: CCP-PO-001, C1-3	X			
20. Were the personnel performing the replicate scan and independent observation different from the individual who performed the original? Reference Source: CCP-PO-001, C1-3	X			
21. Does the BDR include an estimate of each material parameter weight in kg for each container? Reference Source: CCP Technical Procedures	X			
22. Does the BDR include a description of each material parameter for each container? Reference Source: CCP-PO-001, Table C3-1	X			
23. Is the container gross weight recorded in kilograms (kg) for each container in the BDR? Reference Source: CCP Technical Procedures	X			
24. Was the Scale Weight Calibration Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used
25. Was the Scale Weight Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used

Comments: None

The container QC checks were properly performed and meet the Quality Assurance Objectives (QAOs). Proper procedures were followed during data reduction and analysis. The batch is complete, acceptable, and includes all supporting data and documentation required by the QAPjP.

SPM Printed Name	Signature	Date
David W. Moody	David W. Moody	4 February 2013

Checklist is to be re-signed only when a re-review is performed.

SPM Printed Name	Signature	Reason	Date

CONTAINERID: 92586

LANL

AK DATA

Container	Container Type	WDS Status	WSID
92586	55G	APPROVED_SHIP	LA-MHD01.001

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
1LANDA1703	NDA	Complete	2013-01-29	PDF Link (click here)

BDRID	Type	Status	Gen Date	PDF Link
LA-RTR2-13-0009	RTR	Complete	2013-01-22	PDF Link (click here)

BDRID	Type	Status	Gen Date	PDF Link
LA13FG8009	HSG_TRANS	Complete	2013-02-06	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
92586	NO DATA				

Release Reason	Actual Condition

Shipment Number: LA130031
Container Number: LA00000092586
Container Type: 1 - 55 GAL DRUM

Certification Data Values

Generator Site:	LA	Waste Stream Profile Code:	LA-MHD01.001
Waste Handling Code:	CH	IDC Code:	NONE
Payload Number:	LA3094	Waste Matrix Code:	S5400
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	5.60
3	OTHER METAL/ALLOYS	4.00
8	PLASTICS	2.50
13	STEEL CONTAINER MATERIALS	27.70
14	PLASTIC/LINERS CONTAINER MATERIALS	2.00
15	CELLULOSICS PACKAGING MATERIALS	3.70
	Waste Weight:	12.10
	Packaging Weight:	33.40
	Total Material Weight:	45.50

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D018	BENZENE
D019	CARBON TETRACHLORIDE
D021	CHLOROBENZENE
D022	CHLOROFORM
D035	METHYL ETHYL KETONE
D038	PYRIDINE

Shipment Number: LA130031
Container Number: LA00000092586
Container Type: 1 - 55 GAL DRUM

Hazardous Codes

Hazardous Code	Description
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
F001	SPENT HALOGENATED SOLVENTS
F002	SPENT HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C4	11RR2	RTR - VJ TECHNOLOGIES MOBILE SYSTEM	01/22/2013

Attachment 5 – CCP Radiography Batch Data Report Cover Sheet

Site ID: LANL

Batch Data Report No.: LA-RTR2-13-0009 ☑ CH ☐ RH Date: 1-22-13

Waste Container ID Numbers	
Replicate Scan:	92586
Independent Observation:	92584
1	92538
2	92294
3	92545
4	92536
5	92544
6	92593
7	92586
8	92506
9	92584
10	92591
11	92582
12	92589
13	N/A
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A

RTR Operator: Dennis Powell — Printed Name; Signature; 1-22-13 — Date

Independent Technical Reviewer: AARON ELLIOTT — Printed Name; Signature; 1/23/13 — Date

01

CCP RECORDS ORIGINAL
DATE REC'D 1/28/13

Attachment 4 – CCP Radiography Batch Data Report Table of Contents and Batch Narrative

Batch Data Report No.: LA-RTR2-13-0009 Date: 1-22-13

Table Of Contents

Item	Description	Page No.
1	CCP Radiography Batch Data Report Cover Sheet	1
2	CCP Radiography Batch Data Report Table Of Contents	2
3	CCP RTR Measurement Control Report	3
4	CCP Radiography Data Sheets	4
5	Copy of NCRs (NA, If Not Applicable)	46
6	CCP Independent Technical Reviewer Checklist	55

Batch Narrative

All Quality Checks were performed and recorded on CCP-TP-053, Rev. 12, CCP Radiography Measurement Control Report.

Dennis Powell — RTR Operator
Signature
1-22-13 — Date

02

Attachment 1 – CCP RTR Measurement Control Report

Site ID: LANL		
Batch Data Report No.: LA-RTR2-13-0009		
Examination Date: 1-22-13		
Control Checks		
Video/Audio Recorded Media System Check	☑ SAT	☐ UNSAT
Image Test : 9 Lines (Minimum acceptable is 5 lines-pair/cm or #6 Sieve is viewable)	☑ SAT	☐ UNSAT
Comments: N/A		
RTR Operator:		
Dennis Powell	[signature]	1/22/13
Printed Name	Signature	Date

CCP Radiography Data Sheet

Section 1. General Information	
[X] RTR Examination [ ] RTR Replicate Scan [ ] RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-RTR2-13-0009
Examination Date:	1/22/2013
Waste Container ID:	92586
Video/Audio Recorded Media Number:	LA-RTR2-13-0009 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 12
NCR(s) associated with the container? (e.g., Prohibited Items)	[X] No [ ] Yes NCR No.: N/A NCR No.: N/A

Section 2. Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA225
Waste Matrix Code:	S5400
Waste Stream I.D.:	LA-MHD01.001
Waste Container Weights:	Gross Wt.: 45.5 kg Tare Wt.: 33.4 kg Net Wt.: 12.1 kg
Rigid Liner and Liner Vent Description:	Liner: [X] No [ ] Yes Lid: [X] No [ ] Yes Type: [ ] 30-mil [ ] 90-mil [ ] 110-mil [ ] 125-mil Vented: [ ] No [ ] Yes [X] N/A Punctured: [X] No [ ] Yes Mechanical Vent: [X] No [ ] Yes Fiberboard Liner: [ ] No [X] Yes Lead Lined: [X] No [ ] Yes
Number of Layers of Confinement:	Appears to be 3 layers
Volume Utilization Percentage:	60 %

CCP Radiography Data Sheet

Waste Container ID: 92586

Section 3: Container Inventory and Comments

IM: Metal cans, metal lids

AM:

OM: Scrap lead

OI:

C:

R:

XPM: Plastic bags

OR:

IN:

S:

Section 4: Packaging Material and Waste Material Parameters

Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP):Plastic Liner bag	2.0
Other: Fiberboard (CP)	3.7
Total Packaging Weight	33.4
Waste Material Parameter:	**Estimated Weight (kg)**
Iron-based Metal / Alloys (IM):	5.6
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	4.0
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	2.5
Organic Matrix (OR):	
Inorganic Matrix (IN):	
Soils (S):	
Total WMP Weight:	12.1

CCP Radiography Data Sheet

Waste Container ID: 92586

Section 5. RTR Summary	
Is there observable liquid?	☐ Yes ☒ No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	☐ Yes ☒ No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	☐ Yes ☒ No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	☐ Yes ☒ No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐ Yes ☒ No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐ Yes ☒ No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	☐ Yes ☒ No
Is there an indication of wastes containing explosives or compressed gases?	☐ Yes ☒ No
Is there an indication of PCBs liquids?	☐ Yes ☒ No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐ Yes ☒ No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐ Yes ☒ No
CH or RH TRAMPAC	
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	☐ Yes ☒ No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐ Yes ☒ No
Are there sealed containers GREATER than 4 liters?	☐ Yes ☒ No
Are there indications of inadequate protection for heavy and/or sharp objects?	☐ Yes ☒ No
Comments: N/A	

RTR Operator:

Dennis Powell		1/22/2013
Print Name	Signature	Date

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist

Batch Data Report No.: LA-RTR2-13-0009 ✓

Description					
1.	Data generation and reduction were conducted in a technically correct manner in accordance with the methods used?	☐ NO	☑ YES	✓	
2.	Was the correct revision of the procedure used? Procedure: CCP-TP-053 Rev.: 12	☐ NO	☑ YES	✓	
3.	Are the WMPs entered correctly?	☐ NO	☑ YES	✓	
4.	Do the estimated weights in Section 4 of Attachment 2 equal the container gross weight?	☐ NO	☑ YES	✓	
5.	Is the data reported in the proper units with the correct number of significant figures (e.g., one tenth of a kilogram)?	☐ NO	☑ YES	✓	
6.	Has the data been verified for transcription errors?	☐ NO	☐ YES	☑ N/A	✓
7.	Does the Testing Batch Report include radiography for up to 20 containers?	☐ NO	☑ YES		
8.	BDR contents are complete and match the CCP Waste RTR Batch Data Report Table of Contents?	☐ NO	☑ YES		
9.	Is all the data signed and dated in reproducible ink and by the individual(s) generating it?	☐ NO	☑ YES	✓	
10.	Is all data recorded clearly, legibly, and accurately?	☐ NO	☑ YES	✓	
11.	All changes to original data lined out, initialed and dated by the individual making the changes?	☐ NO	☑ YES	✓	☐ N/A
12.	Was justification made for changing the original data?	☐ NO	☐ YES	☑ N/A	✓
13.	Were data changes made by the individual who originally collected the data?	☐ NO	☑ YES	✓	☐ N/A
14.	Does the waste match the Waste Matrix Code and Waste Stream description?	☐ NO	☑ YES	✓	
15.	Are the RTR Operator's decisions regarding the Radiography documented?	☐ NO	☑ YES		
16.	Is there an adequate written description of the contents of each item?	☐ NO	☑ YES	✓	
17.	Was the video/audio recording media properly prepared and labeled for each waste container?	☐ NO	☑ YES		
18.	Was the video/audio recording media check performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓	

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist (Continued)

Batch Data Report No.: LA-RTR2-13-0009

Description				
19.	Was the Image Test performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓
20.	Was the Replicate Scan performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
21.	Was the Replicate Scan RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
22.	Did the Replicate Scan RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
23.	Was the Independent Observation performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
24.	Was the Independent Observation RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
25.	Did the Independent Observation RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
26.	Was the data collection performed by qualified individuals?	☐ NO	☑ YES	✓
27.	Are the NCR(s) associated with the RTR examination included in the BDR?	☐ NO	☑ YES	✓ ☐ N/A
28.	QAOs (precision, accuracy, completeness, representativeness) have been met?	☐ NO	☑ YES	✓

Comments:
ALL CONTAINERS IN THIS BDR MATCH THE WASTE STREAM DESCRIPTION AND WASTE MATRIX CODE EXCEPT CONTAINERS: 92294, 92536

I have reviewed 100% of the container specific and batch data in this report and find it acceptable.

Independent Technical Reviewer:

AARON ELLIOTT	[signature]	1/29/13
Printed Name	Signature	Date

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary

BDR Number: LA-RTR2-13-0009 Examination Date: 1/22/2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
1. Is the completed, signed, and dated Independent Technical Reviewer Checklist included in the BDR, and the independent technical reviewer was not involved in the generation or recording of the data under review? **Reference Source: CCP-PO-001, C3-10b**	X			
2. Does the BDR contain all items addressed in the BDR Table of Contents? **Reference Source: CCP-PO-001, C3-10b**	X			
3. Does the BDR include a listing of all the container numbers in the batch? **Reference Source: CCP-PO-001, C3-10b**	X			
4. List all containers that have met QAOs. **Reference Source: CCP-PO-001, C3-10b**				Container Numbers: 92538 92545 92544 92593 92586 92506 92584 92591 92582 92589
5. Does the BDR identify the current implementing procedure and revision number? **Reference Source: CCP-PO-001, Table C3-11**	X			
6. Is there a reference to or copy of any associated NCRs (if any) in the BDR? NA if no NCRs. **Reference Source: CCP-PO-001, Table C3-11**	X			NCR-LANL-0396-13 R1 Hold (92294) NCR-LANL-0397-13 Hold (92536)
7. Are there 20 or fewer containers in the batch? **Reference Source: CCP-PO-001, C3-10**	X			
8. Are the data properly reported (i.e., data are reported in correct units and with correct significant figures)? **Reference Source: CCP-PO-001, C3-10b**	X			
9. Is there evidence of verification that the physical form matches the Waste Matrix Code? **Reference Source: CCP-PO-001, C3-4, Table C3-11**	X			Except for 92294, 92536

CCP RECORDS ORIGINAL
DATE REC'D 01-28-13

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-13-0009 **Examination Date: 1/22/2013**

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
10. Is there evidence of verification that the physical form matches the waste stream description? **Reference Source: CCP-PO-001, C1-3, Table C3-11**	X			Except for 92294, 92536
11. Are prohibited items absent? **Reference Source: CCP-PO-001, C3-4a**	X			
12. Does observable liquid, if present, meet the criteria of the TSDF-WAC? **Reference Source: CCP-PO-001, C3-4a**	X			
13. Were discrepancies between two operators with regard to identification of waste matrix code, liquids in excess of the TSDF-WAC, or compressed gases through replicate scans and independent observations reconciled? NA if no discrepancies. **Reference Source: CCP-PO-001, C3-4a**			X	No discrepancies
14. Are the training qualifications for all radiography personnel acceptable? **Reference Source: CCP-PO-001, C3-4a**	X			
15. Was evidence of the video/audio check included in the BDR? **Reference Source: CCP-PO-001, C3-4a**	X			
16. Was the Lines-Pair Resolution Test Check included in the BDR? **Reference Source: CCP-PO-001, C3-4a**	X			
17. Was a replicate scan performed once per day, or once per batch, whichever is LESS frequent? **Reference Source: CCP-PO-001, C1-3**	X			
18. Was an independent observation performed once per day, or once per batch, whichever is LESS frequent? **Reference Source: CCP-PO-001, C1-3**	X			

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-13-0009 Examination Date: 1/22/2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
19. Were the replicate scan and independent observation performed on different waste containers? **Reference Source: CCP-PO-001, C1-3**	X			
20. Were the personnel performing the replicate scan and independent observation different from the individual who performed the original? **Reference Source: CCP-PO-001, C1-3**	X			
21. Does the BDR include an estimate of each material parameter weight in kg for each container? **Reference Source: CCP Technical Procedures**	X			
22. Does the BDR include a description of each material parameter for each container? **Reference Source: CCP-PO-001, Table C3-1**	X			
23. Is the container gross weight recorded in kilograms (kg) for each container in the BDR? **Reference Source: CCP Technical Procedures**	X			
24. Was the Scale Weight Calibration Check included in the BDR? **Reference Source: CCP Technical Procedures**			X	Not used.
25. Was the Scale Weight Check included in the BDR? **Reference Source: CCP Technical Procedures**			X	Not used.

Comments: NONE

The container QC checks were properly performed and meet the Quality Assurance Objectives (QAOs). Proper procedures were followed during data reduction and analysis. The batch is complete, acceptable, and includes all supporting data and documentation required by the QAPjP.

Carolina Soaterna	Carolina Soaterna	1/28/2013
SPM Printed Name	Signature	Date

Checklist is to be re-signed only when a re-review is performed.

SPM Printed Name	Signature	Reason	Date
SPM Printed Name	Signature	Reason	Date

Working Copy

TRU Waste Confirmation (RTR/VE) Approval Form

CH OR RH:	CH
Packaging Type:	TRUPACT-II

Procedure No:	WP 02-RC1102 Rev.11	RTR and/or VE Media and/or Records Review	
Generator Site:	LANL	Shipment Number:	LA130031
Waste Stream Profile Number:	LA-MHD03.001	Shipping Container Type:	55-Gal
Shipping Container Number:	N/A		

Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid in Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	ITR	PCR
4/3/2013	LA3094	LA000000 92960	LA-RTR2-13-0032	LA-RTR2-13-0032 A&B	YES	NO	NO	05400 HETEROGENEOUS DEBRIS	N/A	YES	N/A	RYB	N/A	[illegible]	[illegible]
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with HMM U134 assigned shall have no observable liquid

	Printed Name:	Signature:	Date:
OP Reviewed by:	RODEL BENEDICTOS	[signature]	4/3/2013
IO Reviewed by:	N/A	N/A	N/A
ITR Reviewed by:	RON GALBRAITH	[signature]	4-3-2013
PCR Reviewed by:	KENNETH URQUIDEZ	[signature]	4/8/2013

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	N/A RYB 04/03/2013

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

12. List of names for four personnel (one for each position) on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current. Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013.

    12.a List of names for all personnel on the Confirmation team, both from Carlsbad and Idaho Falls, and their training records to verify qualifications are current.

    12.b <u>Copies of completed Confirmation packages for the timeframe of April 1, 2013 to April 8, 2013. [300 pages & 3 Disc's]</u>

CONTAINERID: 92959

LANL

AK DATA

Container	Container Type	WDS Status	WSID
92959	55G	APPROVED_SHIP	LA-MHD03.001

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
ILANDA1722	NDA	Complete	2013-03-01	PDF Link (click here)

BDRID	Type	Status	Gen Date	PDF Link
LA-RTR2-13-0032	RTR	Complete	2013-02-25	PDF Link (click here)

BDRID	Type	Status	Gen Date	PDF Link
LA13FG8016	HSG_TRANS	Complete	2013-03-08	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
92959	NO DATA				

Release Reason	Actual Condition

Shipment Number: LA130031
Container Number: LA00000092959
Container Type: 1 - 55 GAL DRUM

Certification Data Values

Generator Site:	LA	Waste Stream Profile Code:	LA-MHD03.001
Waste Handling Code:	CH	IDC Code:	NONE
Payload Number:	LA3094	Waste Matrix Code:	S5400
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	6.00
3	OTHER METAL/ALLOYS	2.00
4	OTHER INORGANIC MATERIALS	17.20
8	PLASTICS	11.40
13	STEEL CONTAINER MATERIALS	27.70
14	PLASTIC/LINERS CONTAINER MATERIALS	2.00
15	CELLULOSICS PACKAGING MATERIALS	3.70
	Waste Weight:	36.60
	Packaging Weight:	33.40
	Total Material Weight:	70.00

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D018	BENZENE
D019	CARBON TETRACHLORIDE
D021	CHLOROBENZENE
D022	CHLOROFORM
D026	CRESOL

Shipment Number: LA130031
Container Number: LA00000092959
Container Type: 1 - 55 GAL DRUM

Hazardous Codes

Hazardous Code	Description
D027	1,4-DICHLOROBENZENE
D028	1,2-DICHLOROETHANE
D029	1,1-DICHLOROETHYLENE
D030	2,4-DINITROTOLUENE
D035	METHYL ETHYL KETONE
D036	NITROBENZENE
D037	PENTACHLOROPHENOL
D038	PYRIDINE
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
D043	VINYL CHLORIDE
F001	SPENT HALOGENATED SOLVENTS
F002	SPENT HALOGENATED SOLVENTS
F004	SPENT NONHALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C4	11RR2	RTR - VJ TECHNOLOGIES MOBILE SYSTEM	02/25/2013

Attachment 5 – CCP Radiography Batch Data Report Cover Sheet

Site ID: LANL

Batch Data Report No.: LA-RTR2-13-0032 ☑ CH ☐ RH Date: 02/25/2013

Waste Container ID Numbers	
Replicate Scan:	67069
Independent Observation:	92970
1	92970
2	92969
3	92716
4	92984
5	92990
6	92934
7	67080
8	92911
9	57009
10	92915
11	92959
12	92961
13	67069
14	92964
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A

RTR Operator: Michael Simmons — Printed Name; Signature; 02/25/2013 — Date

Independent Technical Reviewer:

BENITO MACSTAS — Printed Name; Signature; 2-26-13 — Date 3-6-13

01

NTPC RECORDS ORIGINAL
DATE RECD 3/27/13

Attachment 4 – CCP Radiography Batch Data Report Table of Contents and Batch Narrative

Batch Data Report No.: LA-RTR2-13-0032 Date: 02/25/2013

Table Of Contents		
Item	Description	Page No.
1	CCP Radiography Batch Data Report Cover Sheet	1
2	CCP Radiography Batch Data Report Table Of Contents	2
3	CCP RTR Measurement Control Report	3
4	CCP Radiography Data Sheets	4
5	Copy of NCRs (NA, If Not Applicable)	N/A
6	CCP Independent Technical Reviewer Checklist	52

Batch Narrative
All Quality Checks were performed and recorded on CCP-TP-053, Rev. 12, CCP Radiography Measurement Control Report.

Michael Simmons — RTR Operator

Signature

02/25/2013 — Date

02

Attachment 1 – CCP RTR Measurement Control Report

Site ID: LANL		
Batch Data Report No.: LA-RTR2-13-0032		
Examination Date: 02/25/2013		
Control Checks		
Video/Audio Recorded Media System Check	☑ SAT	☐ UNSAT
Image Test : 8 Lines (Minimum acceptable is 5 lines-pair/cm or #6 Sieve is viewable)	☑ SAT	☐ UNSAT
Comments: N/A		
RTR Operator: Michael Simmons	Signature	02/25/2013
Printed Name	Signature	Date

03

CCP Radiography Data Sheet

Section 1: General Information	
[X] RTR Examination [ ] RTR Replicate Scan [ ] RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-RTR2-13-0032
Examination Date:	2/25/2013
Waste Container ID:	92959
Video/Audio Recorded Media Number:	LA-RTR2-13-0032 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 12
NCR(s) associated with the container? (e.g., Prohibited Items)	[X] No [ ] Yes NCR No.: N/A NCR No.: N/A

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA225
Waste Matrix Code:	S5400
Waste Stream I.D.:	LA-MHD03.001
Waste Container Weights:	Gross Wt.: 70.0 kg Tare Wt.: 33.4 kg Net Wt.: 36.6 kg
Rigid Liner and Liner Vent Description:	Liner: [X] No [ ] Yes Lid: [X] No [ ] Yes Type: [ ] 30-mil [ ] 90-mil [ ] 110-mil [ ] 125-mil Vented: [ ] No [ ] Yes [X] N/A Punctured: [X] No [ ] Yes Mechanical Vent: [X] No [ ] Yes Fiberboard Liner: [ ] No [X] Yes Lead Lined: [X] No [ ] Yes
Number of Layers of Confinement:	Appears to be 2 layers
Volume Utilization Percentage:	85 %

CCP Radiography Data Sheet

Waste Container ID: 92959

Section 3: Container Inventory and Comments

IM: Electrical equipment, scrap metal, metal cans with material, heating elements

AM:

OM: Scrap lead

OI: Glass labware, glass containers

C:

R:

XPM: Plastic bags, plastic labware, plastic containers

OR:

IN:

S:

Section 4: Packaging Material and Waste Material Parameters

Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Plastic Liner Bag	2.0
Other: Fiberboard Liner (CP)	3.7
Total Packaging Weight	33.4
Waste Material Parameter:	**Estimated Weight (kg)**
Iron-based Metal / Alloys (IM):	6.0
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	2.0
Other Inorganic Materials (OI)	17.2
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	11.4
Organic Matrix (OR):	
Inorganic Matrix (IN):	
Soils (S):	
Total WMP Weight:	36.6

RTR Data Sheet.xls SCO# 1189 Ver. 1
Microsoft Excel 2003 Windows XP

CCP Radiography Data Sheet

Waste Container ID: 92959 –

Section 5 RTR Summary	
Is there observable liquid?	☐ Yes ☒ No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	☐ Yes ☒ No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	☐ Yes ☒ No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	☐ Yes ☒ No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐ Yes ☒ No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐ Yes ☒ No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	☐ Yes ☒ No
Is there an indication of wastes containing explosives or compressed gases?	☐ Yes ☒ No
Is there an indication of PCBs liquids?	☐ Yes ☒ No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐ Yes ☒ No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐ Yes ☒ No
CH or RH TRAMPAC	
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	☐ Yes ☒ No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐ Yes ☒ No
Are there sealed containers GREATER than 4 liters?	☐ Yes ☒ No
Are there indications of inadequate protection for heavy and/or sharp objects?	☐ Yes ☒ No

Comments: This drum contains metal cans with material, which may require additional Project Office review.

RTR Operator:

Michael Simmons		2/25/2013
Print Name	Signature	Date

RTR Data Sheet.xls SCO# 1189 Ver. 1
Microsoft Excel 2003 Windows XP

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist

Batch Data Report No.: LA-RTR2-13-0032

Description				
1.	Data generation and reduction were conducted in a technically correct manner in accordance with the methods used?	☐ NO	☑ YES	✓
2.	Was the correct revision of the procedure used? Procedure: CCP-TP-053 Rev.: 12	☐ NO	☑ YES	✓
3.	Are the WMPs entered correctly?	☐ NO	☑ YES	✓
4.	Do the estimated weights in Section 4 of Attachment 2 equal the container gross weight?	☐ NO	☑ YES	✓
5.	Is the data reported in the proper units with the correct number of significant figures (e.g., one tenth of a kilogram)?	☐ NO	☑ YES	✓
6.	Has the data been verified for transcription errors?	☐ NO	☐ YES	☑ N/A ✓
7.	Does the Testing Batch Report include radiography for up to 20 containers?	☐ NO	☑ YES	
8.	BDR contents are complete and match the CCP Waste RTR Batch Data Report Table of Contents?	☐ NO	☑ YES	
9.	Is all the data signed and dated in reproducible ink and by the individual(s) generating it?	☐ NO	☑ YES	✓
10.	Is all data recorded clearly, legibly, and accurately?	☐ NO	☑ YES	✓
11.	All changes to original data lined out, initiated and dated by the individual making the changes?	☐ NO	☑ YES	~~☑ N/A~~
12.	Was justification made for changing the original data?	☑ NO	☐ YES	~~☑ N/A~~ ✓
13.	Were data changes made by the individual who originally collected the data?	☑ NO	~~☑ YES~~	~~☑ N/A~~
14.	Does the waste match the Waste Matrix Code and Waste Stream description?	☐ NO	☑ YES	✓
15.	Are the RTR Operator's decisions regarding the Radiography documented?	☐ NO	☑ YES	
16.	Is there an adequate written description of the contents of each item?	☐ NO	☑ YES	✓
17.	Was the video/audio recording media properly prepared and labeled for each waste container?	☐ NO	☑ YES	
18.	Was the video/audio recording media check performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist (Continued)

Batch Data Report No.: LA-RTR2-13-0032

Description				
19.	Was the Image Test performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓
20.	Was the Replicate Scan performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
21.	Was the Replicate Scan RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
22.	Did the Replicate Scan RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
23.	Was the Independent Observation performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
24.	Was the Independent Observation RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
25.	Did the Independent Observation RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
26.	Was the data collection performed by qualified individuals?	☐ NO	☑ YES	✓
27.	Are the NCR(s) associated with the RTR examination included in the BDR?	☐ NO	☑ YES	✓ ~~☐ N/A~~ BM 3-6-13
28.	QAOs (precision, accuracy, completeness, representativeness) have been met?	☐ NO	☑ YES	✓

Comments: ~~N/A~~ BM 3-6-13

I HAVE REVIEWED ALL CHANGES TO THIS BDR, AND I AGREE WITH ALL CHANGES. BM 3-6-13

I have reviewed 100% of the container specific and batch data in this report and find it acceptable.

Independent Technical Reviewer:

BENITO MAESTAS — Printed Name

Signature — Date 2-26-13 3-6-13

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary

BDR Number: LA-RTR2-13-0032 Examination Date: 2/25/2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
1. Is the completed, signed, and dated Independent Technical Reviewer Checklist included in the BDR, and the independent technical reviewer was not involved in the generation or recording of the data under review? **Reference Source: CCP-PO-001, C3-10b**	X			
2. Does the BDR contain all items addressed in the BDR Table of Contents? **Reference Source: CCP-PO-001, C3-10b**	X			
3. Does the BDR include a listing of all the container numbers in the batch? **Reference Source: CCP-PO-001, C3-10b**	X			
4. List all containers that have met QAOs. **Reference Source: CCP-PO-001, C3-10b**				Container Numbers: 92970 92969 92716 92990 92934 67080 92911 57009 92915 92959 92961 67069 92964 92984 3/13/13
5. Does the BDR identify the current implementing procedure and revision number? **Reference Source: CCP-PO-001, Table C3-11**	X			
6. Is there a reference to or copy of any associated NCRs (if any) in the BDR? NA if no NCRs. **Reference Source: CCP-PO-001, Table C3-11**	X			NCR-LANL-0196-13 Rework 92984
7. Are there 20 or fewer containers in the batch? **Reference Source: CCP-PO-001, C3-10**	X			
8. Are the data properly reported (i.e., data are reported in correct units and with correct significant figures)? **Reference Source: CCP-PO-001, C3-10b**	X			
9. Is there evidence of verification that the physical form matches the Waste Matrix Code? **Reference Source: CCP-PO-001, C3-4, Table C3-11**	X			

NTPC RECORDS ORIGINAL
DATE REC'D 3/6/13

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-13-0032 Examination Date: 2/25/2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
10. Is there evidence of verification that the physical form matches the waste stream description? Reference Source: CCP-PO-001, C1-3, Table C3-11	X			
11. Are prohibited items absent? Reference Source: CCP-PO-001, C3-4a	X			
12. Does observable liquid, if present, meet the criteria of the TSDF-WAC? Reference Source: CCP-PO-001, C3-4a	X			
13. Were discrepancies between two operators with regard to identification of waste matrix code, liquids in excess of the TSDF-WAC, or compressed gases through replicate scans and independent observations reconciled? NA if no discrepancies. Reference Source: CCP-PO-001, C3-4a			X	No discrepancies.
14. Are the training qualifications for all radiography personnel acceptable? Reference Source: CCP-PO-001, C3-4a	X			
15. Was evidence of the video/audio check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
16. Was the Lines-Pair Resolution Test Check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
17. Was a replicate scan performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			
18. Was an independent observation performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-13-0032 Examination Date: 2/25/2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
19. Were the replicate scan and independent observation performed on different waste containers? Reference Source: CCP-PO-001, C1-3	X			
20. Were the personnel performing the replicate scan and independent observation different from the individual who performed the original? Reference Source: CCP-PO-001, C1-3	X			
21. Does the BDR include an estimate of each material parameter weight in kg for each container? Reference Source: CCP Technical Procedures	X			
22. Does the BDR include a description of each material parameter for each container? Reference Source: CCP-PO-001, Table C3-1	X			
23. Is the container gross weight recorded in kilograms (kg) for each container in the BDR? Reference Source: CCP Technical Procedures	X			
24. Was the Scale Weight Calibration Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used.
25. Was the Scale Weight Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used.

Comments: See SPM1-3

The container QC checks were properly performed and meet the Quality Assurance Objectives (QAOs). Proper procedures were followed during data reduction and analysis. The batch is complete, acceptable, and includes all supporting data and documentation required by the QAPjP.

SPM Printed Name	Signature	Date
Carolina Soaterna	Carolina Soaterna	3/5/2013

Checklist is to be re-signed only when a re-review is performed.

SPM Printed Name	Signature	Reason	Date
Terri-Anne Groover	[illegible]	corrections for HCD-LANL-0196-13	3/6/13
Veronica Waldram	Veronica Waldram	Add container to Q.4	3/13/13

Working Copy

TRU Waste Confirmation (RTR/VE) Approval Form

CH OR RH:	CH
Packaging Type:	TRUPACT-II

Procedure No:	WP 02-RC1102 Rev.11	RTR and/or VE Media and/or Records Review	
Generator Site:	LANL	Shipment Number: LA130031	Waste Stream Profile Number: LA-MIN04-S.001
Shipping Container Type:	55-Gal	Shipping Container Number:	N/A

Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid in Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	ITR	PCR
4/3/2013	LA3094	LAS813444	LA-RTR2-10-0137	LA-RTR2-10-0137 A	YES	NO	NO	02448 SALT WASTE	YES	YES	SEE COMMENTS	RYB	N/A	RB	RW
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with MMN U134 assigned shall have no observable liquid

	Printed Name:	Signature:	Date:
OP Reviewed by:	RODEL BENEDICTOS	[signature]	4/3/2013
IO Reviewed by:	N/A	N/A	N/A
ITR Reviewed by:	RON GALBRAITH	[signature]	4-3-2013
PCR Reviewed by:	KENNETH URQUIDEZ	[signature]	4/8/2013

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	Data for NCRS are contained in the data packet RYB 04/03/2013

CONTAINERID: S813444

LANL ✓

AK DATA

Container	Container Type	WDS Status	WSID
S813444	55G	APPROVED_SHIP	LA-MIN04-S.001

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
2LANDA0562	NDA	Complete	2010-03-08	PDF Link (click here)
2LANDA0711	NDA	Complete	2010-11-19	PDF Link (click here)
LA-RTR2-06-0297	RTR	Complete	2006-09-30	PDF Link (click here)
LA-RTR2-10-0137 ✓	RTR	Complete	2010-11-18	PDF Link (click here)
LA10FG2046	HSG_TRANS	Complete	2010-04-09	PDF Link (click here)
LA10FG8046	HSG_TRANS	Complete	2010-12-22	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
S813444	NCR-LANL0879060	LA-RTR2-06-0297	Superseded	Superseded	None

Release Reason

Actual Condition

RTR examination of this drum revealed the contents were greater than 50 percent homogenous solids. This condition does not match the Waste Stream Description.

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
S813444	NCR-LANL0879061	LA-RTR2-06-0297	Closed	Rework	Resolved

Release Reason

Legacy - Closed NCR = Resolved Container.

Actual Condition

RTR examination of this drum revealed the contents were greater than 50 percent homogenous solids. This condition does not match the Waste Stream Description. This NCR is being revised to correct the Interium and Final Dispositions required for this container.

I- 10/17/06
V-10-17-06

Controlled Copy

Attachment 1 – CCP Nonconformance Report (NCR)

NCR No. NCR – LANL - 0879 – 06 | **Revision 1**

1. Lot No./Heat No. or Serial No.: N/A	2. Process (NDA, HSG, NDE, VE, Other): NDE	3. Batch Data Report # (s): LA-RTR2-06-0297
4. Order/Work Order/Job Control Number (as applicable): N/A	5. PO #: N/A 6. Supplier: NA	Container #(s): S813444

DESCRIPTION OF NONCONFORMANCE

7. (a) CCP HOLD TAGS SHALL BE APPLIED UNLESS JUSTIFIED AS FOLLOWS:
HOLD Tag applied

☐ < 100 nCi/g ☐ Prohibited Item ☐ >500 ppmv Flamm. VOCs

☐ E-Flag ☐ Receiving Inspection ☐ Transportation ☐ WWIS ☑ Other

(b) Description of Nonconformance
Required Condition (Implementing Procedure, Section & Revision)

"IF the waste form does NOT match the Waste Stream description and/or the Waste Matrix Code, THEN initiate a NCR in accordance with CCP-QP-005." CCP-TP-053, Rev.4, 4.4.3 H.1.

(c). Actual Condition

RTR examination of this drum revealed the contents were >50 percent homogenous solids. This condition does not match the Waste Stream Description.

This NCR is being revised to correct the Interim and Final Dispositions required for this container.

8. NCR Originator (Print name, sign and date) William Museman 10-12-06	9. SPQAO/FQAO Validation (Print name, sign and date) Steve Ewing 10-12-06

9a. Does this NCR have the potential to impact AK? ☑ YES ☐ NO ☐ INDETERMINATE

If YES or INDETERMINATE, then apply Trend Code L in Block 12.

10. Significant Condition? ☐ YES ☐ NO ☑ NA	11. Recurring Condition? ☐ YES ☑ NO (If YES, List NCRs/CARs)
12. Trend Code: L	13. Responsible Manager: Margaret Martinez

Attachment 1 – CCP Nonconformance Report (NCR)	
NCR No. NCR- LANL-0879-06	Revision 1

INTERIM DISPOSITION

14. Interim Disposition (Check One)

☐ N/A (See final Disposition) X Hold ☐ Conditional Accept ☐ Conditional Use
☐ Sort
☐ Reinspect/Retest ☐ Remediate

(a) Instructions for Completion of the Interim Disposition:

1. Responsible Manager send this NCR to the AK Expert for re-evaluation in accordance with CCP-TP-005.
2. AK Expert perform the AK re-evaluation and include a copy of documented results as an attachment to this NCR.
3. Determine Final Disposition (block) 19 based on these results.

AKE Response:

Container S813444 has been removed from Waste Stream LA-MHD01.001.

See Attachments 1, 2, and 3.

INTERIM DISPOSITION APPROVALS

15. Responsible Manager/Individual (Print, sign and date)	16. CCP QA Engineer/ (Print, sign and date)
RANDY FITZGERALD 1/22/07	RICK BIRD 1-22-07
Additional Approvals: (Print, sign and date)	Additional Approvals: (Print, sign and date)

COMPLETION OF INTERIM DISPOSITION

17. Interim Disposition Complete Responsible Manager/Individual: (Print, sign and date)
Marcia Martinez 1-22-07

18. Interim Disposition Verified CCP QA Engineer /: (Print, sign and date)
RICK BIRD 1-22-07

Attachment 1 – CCP Nonconformance Report (NCR)	
NCR No. NCR -LANL- 0879 - 06	Revision 1
FINAL DISPOSITION	
19. Final Disposition (Check One) ☐ Use-As Is ☐ Reject ☐ Repair ☒ Rework ☐ Scrap	
(a) Technical Justification (Required for "Use-As-is" and "Repair" dispositions, N/A for "Reject," "Scrap," or "Rework" dispositions.) N/A	
(b) Disposition Instructions (Required for "Reject" and "Scrap") N/A	
(c) Instructions for Completion of the Final Disposition, including Inspection Criteria (Required for "Repair" and "Rework") Container S813444 has been removed from Waste Stream LA-MHD01.001.	
(d) Corrective Actions (Actions to Prevent Recurrence) - as required. N/A	
FINAL DISPOSITION APPROVALS	
20. Responsible Manager/Individual: (Print, sign and date) Margie Martinez 1/22/07	21. SPQAO/FQAO: (Print, sign and date) Rick Bird 1/22/07
Additional Approvals: (Print, sign and date)	Additional Approvals: (Print, sign and date)
CLOSURE	
22. Final Disposition Complete Responsible Manager/Individual: (Print, sign and date) Margie Martinez 1-22-07	
23. Final Disposition Verified – NCR Closed RICK BIRD 1-22-07	SPQAO: (Print, sign and date)

Attachment 2 – CCP Nonconformance Report (NCR) Continuation Sheet	
NCR No. NCR-LANL-0879-06	Revision No. 1 Attachment # Page 1 of 1
Continuation from Section Number:	
3813444 has been removed from Waste Stream LA-MHD01.001.	

ATTACHMENT 1

NCR-LANL-0879-06, REV. 1

Attachment 10 - Acceptable Knowledge Re-evaluation Checklist

Site(s): Los Alamos National Laboratory (LANL)
Waste Stream Number(s): LA-MHD-01.001
Waste Stream Description: TA-55 Mixed Heterogeneous Debris
NCR numbers(s) if applicable: NCR-LANL-0879-06, R1
Inconsistency between waste characterization and acceptable knowledge information (describe):

Based on the AK collected for waste stream LA-MHD01.001 containers; the stream is comprised of greater than 50 percent of heterogeneous inorganic and organic debris. Although the waste stream, as a whole, is comprised of more than 50 percent heterogeneous debris, any drum may include nearly any percentage of the waste material parameters listed in the report, except that no that no individual drum will contain greater than 50 percent homogeneous solids. RTR identified one (1) container [S813444 (NCR-LANL-0879-06, Rev. 1)] that contains greater than 50 percent homogenous solids in this debris waste stream. Because the waste observed by RTR in this container did not match the Waste Stream Description for heterogeneous waste stream LA-MHD.001, an NCR was assigned to this drum in accordance with CCP-TP-053, Section 4.4.3.H.1 [CCP Standard Test-time Radiography (RTR) Inspection Procedure].

The Radioactive Solid Waste Disposal (RSWD) form for this container (attached) was obtained and it was confirmed that the A60 (Other Combustibles) was specifically assigned to this drum by LANL generators, and the RSWD Waste Description is "Room Trash, Combustible, Yellow Tagged". RSWD Codes were specifically assigned to this container by the LANL generators (D025, D026, M222, M224). Because this container is predominately homogeneous solids (S3000) waste, it will be removed from LA-MHD01.001 until the development of the AK for an appropriate homogeneous solids stream for TA-55 operations. With the removal of this container from waste stream LA-MHD01.001, the physical, chemical, and radiological characterization of the remaining containers in the stream are consistent with the waste stream description in CCP-AK-LANL-006.

CCP-AK-LANL-006, Rev. 4, July 31, 2006 addresses this issue in Section 5.4.1.1 Waste Matrix Code:

> Based on the evaluation of the materials contained in this waste stream and LANL waste management practices, the waste stream LA-MHD01.001 is comprised of greater than 50 percent of heterogeneous inorganic and organic debris such as metal, glass, graphite, plastic, cellulosic materials, rubber, and filters. Therefore, Waste Matrix Code S5400, Heterogeneous Debris is assigned to waste stream LA-MHD01.001. Although the waste stream, as a hole, is comprised of more than 50 percent heterogeneous debris, any drum may include nearly any percentage of the waste material parameters listed in Section 5.4.1.2. However, containers including greater than 50 percent homogenous solids will be excluded from this waste stream (References AK6-D025, AK6-D041, AK6-DR001, AK6-DR005, AK6-M019, AK6-M156, AK6-M157, AK6-M158, AK6-M215, AK6-M216, AK6-M217, AK6-M218, AK6-M219, AK6-M222, AK7-D032, AK7-D033, AK7-M018, and AK7-M020).

For additional clarification, see DR005 (attached).

10/31/06

ATTACHMENT 1
NCR-LANL-0879-06, REV. 1
Page 1 of 2

Requirements	Completed? Yes/No	Supporting Documentation [a]
Review existing information based on the container identification number and document all differences in EPA hazardous waste number assignments. [c]	YES	RSWD for container S813444 and Discrepancy Report DR005.
If differences exist in the EPA hazardous waste numbers that were assigned, reassess and document all required AK information associated with the new designation. [b,c]	N/A	RSWD for container S813444 and Discrepancy Report DR005.
Reassess and document all sampling and analytical data associated with the waste. [c]	N/A	Discrepancy Report DR005.
Verify and document that the reassigned Waste Matrix Code was generated within the specified time period, area and buildings, waste generating process, and that the process material inputs are consistent with the waste material parameters identified during RTR or VE.	N/A	Discrepancy Report DR005.
If NDA results indicate the presence of additional or different radionuclides in the waste, reassess and document AK and confirmation information associated with the new information. [c]	N/A	Not an NDA related discrepancy.
Record all changes to the AK records on the appropriate Attachments and resubmit to the CCP Facility Records Custodian.	YES	Discrepancy Report DR005 and Revised Attachment 8.
If unresolved discrepancies exist in the AK information for the reassigned Waste Matrix Code, EPA hazardous waste numbers, or radionuclides, document the segregation of this container, and define the actions necessary to fully characterize the waste.	YES	NCRs: NCR-LANL-0879-06, R.1, and Discrepancy Report DR005

a. Cite the source document, nonconformance report number, attachment, or other documentation used to support a change or no change.
b. Ensure that if a toxicity characteristic contaminant is identified, it is not included as a listed waste, and analytical data regarding the concentration are not available, the corresponding EPA Hazardous Waste Number is applied.
c. Not applicable for LANL sealed source waste stream.

Acceptable Knowledge Expert:

Randy Fitzgerald — Print
RFitz — Sign
Date: 10/31/2006

Site Project Manager:

Margaret Martinez — Print
Margaret Martinez — Sign
Date: 10/31/2006

RFT 10/31/06

ATTACHMENT 1
NCR-LANL-0879-06, REV. 1
Page 2 of 2

ATTACHMENT 2

NCR-LANL-0879-06, REV. 1

PLEASE READ INSTRUCTIONS ON BACK CAREFULLY

LASL RADIOACTIVE SOLID WASTE
DISPOSAL RECORD FORM

1. FORM NUMBER	2. DATE	3. RETRIEVABLE SERIAL NO.	4. ORIGIN OF WASTE: GROUP	T-4	BLDG.	ROOM	5. WASTE CODE
S. 12444	05 13 81	000981	CMB-1	155	PSY	432	460

6. WASTE DESCRIPTION: Room trash, combustible, nonalpha tagged

7. NUMBERS OF WASTE PACKAGES: PLASTIC BAGS	CARD BOARD BOXES	DRUMS NO.	DRUMS GAL.	WOODEN CRATES NO.	WOODEN CRATES VOLUME-ft³	8. GROSS VOLUME	UNITS (M = METER³, F = FEET³, G = GALLON)	9. PACKAGE RADIATION AT: SURFACE MRAD/HR	1 METER MRAD/HR
			155			29		1	0

10. GROSS WEIGHT	UNITS (K = KILOGRAM, P = POUND, T = TON)
44.0	K

11. ADDITIONAL DESCRIPTION OF PACKAGING AND PACKAGING MATERIALS

12. RADIONUCLIDE CONTENT: NUCLIDE	AMOUNT	±	UNITS (C = CURIE, M = GRAM)	ERROR OF AMOUNT	±	AMOUNT DETERMINED BY (A = ANALYSIS, M = MEASUREMENT, E = ESTIMATE)	13. MATERIALS WITHDRAWN: ACCOUNT	PROJECT CODE
Pu-239	4.23 10⁻⁶	±.04			E	M	741	309
		E			E			
		E			E			
		E			E			
		E			E			
		E			E			

Ronald J. Cobb — WASTE GENERATOR
Signature certifies that waste is in accordance with all applicable disposal requirements.

5-15-81 — WASTE REPRESENTATIVE
Signature certifies that waste package or shipment is safe to handle and transport.

Fern Hess R.C. — DISPOSAL/STORAGE REPRESENTATIVE

13. DATE DISPOSED	14. DISPOSAL/STORAGE LOCATION: AREA	SHAFT	PIT	POSITION	LAYER	ROW	15. SHAFT SURFACE DOSE MRAD/HR
06 03 81	G		01	22	4	E	

16. WASTE MANAGEMENT REPRESENTATIVE: [illegible] 10/23/06

ATTACHMENT #2
NCR-LANL-0079-06, REV. 1
Page 1 of 1

ATTACHMENT 3

NCR-LANL-0879-06, REV. 1

Attachment 11 - Acceptable Knowledge Source Document Discrepancy Resolution

Waste Stream Number(s): LA-MHD01.001 (DR005)

Waste Stream Description: Pu-239 Contaminated Mixed Heterogeneous Debris

AK Documentation Type: ☐ TRU Waste Management Program Information ☒ Waste Stream Specific Information ☒ Supplemental Information

AK Source Document Discrepancy Form Tracking Number: DR005

Tracking #	Category[a]	Title	Document/ Rev#	Author	Date	Publisher	Page #
--	Pub.	LANL Pu-239 Contaminated Mixed Heterogeneous Debris	CCP-AK-LANL-006, Rev. 3	S. Peterman	4/13/06	CCP	12, 50, Att. 2 Table 2-1
	Unpub.	NCR	LANL-0057-05, R0;	C. Lucero	5/16/05	LANL	All
	Unpub.	NCR	LANL-0058-05, R0;	C. Lucero	5/16/05	LANL	All
	Unpub.	NCR	LANL-0116-05, R0;	C. Lucero	8/1/05	LANL	All
	Unpub.	NCR	LANL-0832-05, R0;	C. Lucero	12/20/05	LANL	All
	Unpub.	NCR	LANL-0729-06, R0;	C. Lucero	2/2/06	LANL	All
	Unpub.	NCR	LANL-0731-06, R0;	C. Lucero	2/6/06	LANL	All
	Unpub.	NCR	LANL-0741-06, R0	C. Lucero	2/13/06	LANL	All
D025	Pub.	Acceptable Knowledge Report for Debris Waste Streams Containing Pu-239	TWCP-AK-2.1-015	B. Humphrey	4/10/03	LANL	9-18, 54, 55
D026	Pub.	Acceptable Knowledge Information Summary for LANL Transuranic Waste Streams	TWCP-AK-2.1-019 (TWCP-17136)	C. Smith	3/3/03	LANL	Att. 3 – Pgs. 2, 3
M019 M215 M216 M217 M218 M219 M224	Pub.	Generator Documentation (RSWD/TWSRs)	None	TA-55 Personnel	----	LANL	Containers S818280, S818380, S822622, S818309, S832485, S862359, S802994, and S811632

Nature of Discrepancy:

Based on the AK collected for waste stream LA-MHD01.001 containers; the stream is comprised of greater than 50 percent of heterogeneous inorganic and organic debris. Although the waste stream, as a whole, is comprised of more than 50 percent heterogeneous debris, any drum may include nearly any percentage of the waste material parameters listed in the report, except that no that no individual drum will contain greater than 50 percent homogeneous solids. RTR identified eight (8) containers [S818280 (LANL-0057-05); S818380 (LANL-0057-05); S822622 (LANL-0058-05); S818309 (LANL-0116-05); S832485 (LANL-0832-06); S862359 (LANL-0729-06); S802994 (LANL-0731-06); and S811632 (LANL-0741-06)] containing greater than 50 percent homogenous solids in this debris waste stream. Because the waste observed by RTR in these containers did not match the Waste Stream Description for heterogeneous waste stream LA-MHD.001, NCRs were assigned to these drums in accordance with CCP-TP-053, Section 4.4.3.H.1 [CCP Standard Test-time Radiography (RTR) Inspection Procedure].

Resolution:

The Radioactive Solid Waste Disposal (RSWD) forms for the eight containers were obtained and it was confirmed that the A18 (Combustible Trash), A19 (Combined Combustible/non-combustible lab trash), and A61 (Other Non-combustibles) RSWD Codes were specifically assigned to these containers by the LANL generators (D025, D026, M019, M015-M019, M224). Because these eight (8) containers are predominately homogeneous solids (S3000) waste, they will be removed from LA-MHD01.001 pending the development of the AK for an appropriate homogeneous solids stream for TA-55 operations. With the removal of these containers from waste stream LA-MHD01.001, the physical, chemical, and radiological characterization of the remaining containers in the stream are consistent with the waste stream description in CCP-AK-LANL-008.

Discrepancy Resolved: ☒ Yes ☐ No

Acceptable Knowledge Expert: Randy Fitzgerald / [signature] Date: 5/3/06
Print Sign

Site Project Manager: Michael Gerle / [signature] Date: 5/3/06
Print Sign

* Published Document or Controlled Database (Pub.); Unpublished Data (Unpub.); Internal Procedure or Note (Proc.); Correspondence (Corr.) or Discrepancy (Disc.)

ATTACHMENT 3
NCR-LANL-0879-06, REV. 1
Page 2 of 24

Shipment Number: LA130031
Container Number: LAS813444
Container Type: 1 - 55 GAL DRUM

Certification Data Values

Generator Site:	LA	Waste Stream Profile Code:	LA-MIN04-S.001
Waste Handling Code:	CH	IDC Code:	005
Payload Number:	LA3094	Waste Matrix Code:	S3140
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
4	OTHER INORGANIC MATERIALS	1.00
8	PLASTICS	0.30
9	SOLIDIFIED INORGANIC MATERIAL	157.00
13	STEEL CONTAINER MATERIALS	27.70
14	PLASTIC/LINERS CONTAINER MATERIALS	7.40
	Waste Weight:	158.30
	Packaging Weight:	35.10
	Total Material Weight:	193.40

Hazardous Codes

Hazardous Code	Description
D004	ARSENIC
D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D018	BENZENE
D019	CARBON TETRACHLORIDE
D021	CHLOROBENZENE
D022	CHLOROFORM
D035	METHYL ETHYL KETONE
D038	PYRIDINE

Shipment Number: **LA130031**
Container Number: **LAS813444**
Container Type: 1 - 55 GAL DRUM

Hazardous Codes

Hazardous Code	Description
D039	TETRACHLOROETHYLENE
D040	TRICHLOROETHYLENE
F001	SPENT HALOGENATED SOLVENTS
F002	SPENT HALOGENATED SOLVENTS
F005	SPENT NON-HALOGENATED SOLVENTS

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C4	11RR2	RTR - VJ TECHNOLOGIES MOBILE SYSTEM	11/18/2010

Attachment 5 – CCP Radiography Batch Data Report Cover Sheet

Batch Data Report No.: LA-RTR2-10-0137 ✓ Date: 11/18/2010

Waste Container ID Numbers	
Replicate Scan:	63999 ✓
Independent Observation:	63328 ✓
1	63999
2	62535
3	63328
4	62514
5	61265
6	61705
7	64687
8	61267
9	62693
10	S813444 ✓
11	64240
12	64645
13	62660
14	62257
15	62668
16	62544
17	62160
18	63333
19	62255
20	64600

Independent Technical Reviewer:
Philip Gillard
Printed Name
Philip Gillard

Signature

11/30/10
Date
5/14/11

☐ ORIGINAL

001

Attachment 4 – CCP Radiography Batch Data Report Table of Contents and Batch Narrative

Batch Data Report No.: LA-RTR2-10-0137 ✓ Date: 11/18/2010

Item	Description	Page No.	
1	CCP Radiography Batch Data Report Cover Sheet	1	✓
2	CCP Radiography Batch Data Report Table Of Contents	2	
3	CCP RTR Measurement Control Report	3	✓
4	CCP Radiography Data Sheets	4	✓
5	Copy of NCRs (NA, If Not Applicable)	N/A	✓
6	CCP Independent Technical Reviewer Checklist	70	✓

All Quality Checks were performed and recorded on CCP-TP-053, Rev. 9, CCP Radiography Measurement Control Report. ✓

Chris Farquhar
RTR Operator
Eric Lyles

Signature

11/18/2010
Date
5/19/11

002

Attachment 1 – CCP RTR Measurement Control Report

Site Location: LANL TA54-497 Area G Pad 10 RTR2		
Batch Data Report No.: LA-RTR2-10-0137		
Examination Date: 11/18/2010		
Control Checks		
Video/Audio Recorded Media System Check	☑ SAT	☐ UNSAT
Image Test : 18 (Minimum acceptable is 5 lines-pair/cm or #6 Sieve is viewable)	☑ SAT	☐ UNSAT
Comments: N/A		
RTR Operator: Chris Farquhar (Printed Name)	Signature	11/18/2010 (Date)

003

Attachment 2 – CCP Radiography Data Sheet

Section 1: General Information		
☑ RTR Examination ☐ RTR Replicate Scan ☐ RTR Independent Observation		✓
Site ID and Location:	LANL TA54-497 Area G Pad 10 RTR2	
Batch Number:	LA-RTR2-10-0137	✓
Examination Date:	11/18/2010	
Waste Container ID:	S813444	✓
Video/Audio Recorded Media Number:	LA-RTR2-10-0137 A	
Procedure and Revision No.:	CCP-TP-053 Rev. 9	
NCR(s) associated with the container? (e.g., Prohibited Items)	☑ NO ☐ YES NCR No.: N/A NCR No.: N/A	✓

Section 2: Waste Container Data		
Container Type:	55 Gallon Drum	✓
TRUCON Code:	LA224	
Waste Matrix Code:	S3140	✓
Waste Stream I.D.:	LA-MIN04-S.001	✓
Waste Container Weights:	Gross Wt: 193.4 kg ✓ Tare Wt: 35.1 kg ✓ Net Wt: 158.3 kg ✓	
Rigid Liner and Liner Vent Description: (e.g., "90 mil liner – NO Lid" or "NO Liner")	90mil Liner - Punctured Lid	
Number of Layers of Confinement:	Appears to be 0 layers	
Volume Utilization Percentage:	75 %	

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Attachment 2 – CCP Radiography Data Sheet (Continued)

Page 2 of 3

Waste Container ID: S813444

Section 3: Container Inventory and Comments (Detailed descriptions)
Absorbent
Plastic bag
Salt cake pieces, solidified material (sludge)

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Rigid Liner	7.4
Others:	0.0
Total Packaging Weight:	35.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI):	1.0
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	0.3
Organic Matrix (OR):	
Inorganic Matrix (IN):	157.0
Soils (S):	
Total WMP Weight:	158.3

038

Attachment 2 – CCP Radiography Data Sheet (Continued)

Page 3 of 3

Waste Container ID: S813444

Section 5: RTR Summary (Questions answered "YES" will be explained in the Comments block)	Yes	No	N/A	
Is there observable liquid in the container?	☐	☑		✓
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	☐	☑	☐	✓
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	☐	☑	☐	✓
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	☐	☑		✓
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☑		
Is there an indication of hazardous wastes not occuring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☑		
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code[s])?	☐	☑		
Is there an indication of wastes containing explosives or compressed gases?	☐	☑		✓
Is there an indication of PCBs liquids?	☐	☑		✓
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA hazardous waste numbers of D001, D002, or D003)?	☐	☑		✓
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☑		
TRUPACT II Criteria				
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste?	☐	☑		
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☑		
Are there sealed containers GREATER than 4 liters?	☐	☑		
Are there indications of inadequate protection (blocked or braced) for heavy and/or sharp objects?	☐	☑		✓

Comments:

N/A

RTR Operator:

Chris Farquhar		11/18/2010
Print Name	Signature	Date

039

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist

Batch Data Report No.: LA-RTR2-10-0137 ✓

1.	Data generation and reduction were conducted in a technically correct manner in accordance with the methods used?	☐ NO	☑ YES	☐ N/A	✓
2.	Was the correct revision of the procedure used? Procedure: CCP-TP-053 Rev.: 9	☐ NO	☑ YES	☐ N/A	✓
3.	Are the WMPs entered correctly?	☐ NO	☑ YES	☐ N/A	✓
4.	Verify the hand calculations on the Radiography Data Sheet, and for each WMP, the weights are entered into the Estimated Weight column of Section 4 of Attachment 2.	☐ NO	☑ YES	☐ N/A	✓
5.	Is the data reported in the proper units with the correct number of significant figures (e.g., one tenth of a kilogram)?	☐ NO	☑ YES	☐ N/A	✓
6.	Has the data been verified for transcription errors?	☐ NO	☑ YES	☐ N/A	✓
7.	Does the Testing Batch Report include radiography for up to 20 containers?	☐ NO	☑ YES	☐ N/A	
8.	SDR contents are complete and match the CCP Waste RTR Batch Data Report Table of Contents?	☐ NO	☑ YES	☐ N/A	
9.	Is all the data signed and dated in reproducible ink and by the individual(s) generating it?	☐ NO	☑ YES	☐ N/A	✓
10.	Is all data recorded clearly, legibly, and accurately?	☐ NO	☑ YES	☐ N/A	✓
11.	All changes to original data lined out, initialed and dated by the individual making the changes?	☐ NO	☑ YES	☑ N/A	
12.	Was justification made for changing the original data?	☐ NO	☑ YES	☑ N/A	✓
13.	Were data changes made by the individual who originally collected the data?	☐ NO	☑ YES	☑ N/A	✓
14.	Does the waste match the Waste Matrix Code and Waste Stream description?	☐ NO	☑ YES	☐ N/A	
15.	Are the RTR Operator's decisions regarding the Radiography documented?	☐ NO	☑ YES	☐ N/A	
16.	Is there an adequate written description of the contents of each item?	☐ NO	☑ YES	☐ N/A	✓
17.	Was the videoaudio recording media properly prepared and labeled for each waste container?	☐ NO	☑ YES	☐ N/A	
18.	Was the videoaudio recording media check performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	☐ N/A	✓

TO AD 11/30/10

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist (*Continued*)

Batch Data Report No.: LA-RTR2-10-0137

19.	Was the Image Test performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	☐ N/A ✓
20.	Was the Replicate Scan performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	☐ N/A
21.	Was the Replicate Scan RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	☐ N/A
22.	Did the Replicate Scan RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	☐ N/A
23.	Was the Independent Observation performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	☐ N/A
24.	Was the Independent Observation RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	☐ N/A
25.	Did the Independent Observation RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	☐ N/A
26.	Was the data collection performed by qualified individuals?	☐ NO	☑ YES ✓	☐ N/A
27.	Are the NCR(s) associated with the RTR examination included in the BDR?	☐ NO	☐ YES	☑ N/A ✓
28.	QAOs (precision, accuracy, completeness, representativeness) have been met?	☐ NO	☑ YES ✓	☐ N/A

Comments:
PO 5/19/11
N/A I've reviewed all changes in this BDR and accept all changes made to this Batch
PO 5/19/11

I have reviewed 100% of the container specific and batch data in this report and find it acceptable.

Independent Technical Reviewer:

Printed Name	Signature	Date
Philip Dillard		11/30/10

Philip Dillard 5/19/11 PO 5/19/2010

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary

BDR Number: LA-RTR2-10-0137 ✓ Examination Date: 11/18/10

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
1. Is the completed, signed, and dated Independent Technical Reviewer Checklist included in the BDR? Reference Source: CCP-PO-001, B3-10b	X			✓
2. Does the BDR contain all items addressed in the BDR Table of Contents? Reference Source: CCP-PO-001, B3-10b	X			✓
3. Does the BDR include a listing of all the container numbers in the batch? Reference Source: CCP-PO-001, B3-10b	X			✓
4. List all containers that have met QAOs. Reference Source: CCP-PO-001, B3-10b				Container Numbers: 63999, 62535, 63328, 62514, 61265, 61705, 64687, 61267, 62663, S813444/ 64240, 64645, 62660, 62257, 62668, 62544, 62160, 63333, 62255, 64600 ✓
5. Does the BDR identify the current implementing procedure and revision number? Reference Source: CCP-PO-001, Table B3-11	X			✓
6. Is there a reference to or copy of any associated NCRs (if any) in the BDR? NA if no NCRs. Reference Source: CCP-PO-001, Table B3-11			X	No NCRs ✓
7. Are there 20 or fewer containers in the batch? Reference Source: CCP-PO-001, B3-10	X			
8. Are the data properly reported (i.e., data are reported in correct units and with correct significant figures)? Reference Source: CCP-PO-001, B3-10b	X			✓
9. Is there evidence of verification that the physical form matches the Waste Matrix Code? Reference Source: CCP-PO-001, B3-4, Table B3-11	X			✓
10. Is there evidence of verification that the physical form matches the waste stream description? Reference Source: CCP-PO-001, B1-3, Table B3-11	X			✓

ORIGINAL

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-10-6137 Examination Date: 11/18/10

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers	
11. Are prohibited items absent? Reference Source: CCP-PO-001, B3-4a	X				✓
12. Does observable liquid, if present, meet the criteria of the TSDF-WAC? Reference Source: CCP-PO-001, B3-4a	X				✓
13. Were discrepancies between two operators with regard to identification of waste matrix code, liquids in excess of the TSDF-WAC, or compressed gases through replicate scans and independent observations reconciled? NA if no discrepancies. Reference Source: CCP-PO-001, B3-4a			X	No discrepancies	✓
14. Are the training qualifications for all radiography personnel acceptable? Reference Source: CCP-PO-001, B3-4a	X				✓
15. Was evidence of the video/audio check included in the BDR? Reference Source: CCP-PO-001, B3-4a	X				✓
16. Was the Lines-Pair Resolution Test Check included in the BDR? Reference Source: CCP-PO-001, B3-4a	X				✓
17. Was a replicate scan performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, B1-3	X			63998	✓
18. Was an independent observation performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, B1-3	X			63328	✓
19. Were the replicate scan and independent observation performed on different waste containers? Reference Source: CCP-PO-001, B1-3	X				

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: LA-RTR2-10-0137 Examination Date: 11/18/10

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
20. Were the personnel performing the replicate scan and independent observation different from the individual who performed the original? Reference Source: CCP-PO-001, B1-3	X			
21. Does the BDR include an estimate of each material parameter weight in kg for each container? Reference Source: CCP Technical Procedures	X			
22. Does the BDR include a description of each material parameter for each container? Reference Source: CCP-PO-001, Table B3-1	X			
23. Is the container gross weight recorded in kilograms (kg) for each container in the BDR? Reference Source: CCP Technical Procedures	X			
24. Was the Scale Weight Calibration Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used at LANL
25. Was the Scale Weight Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used at LANL

Comments: Drums with pans: 63000, 62835, 63328, 62814, 61266, 61705, 64687, 61267, 63693, 3813444, 64240, 64645, 62060, 62257, 62068, 62544, 62160, 63333, 62255, 64600

The container QC checks were properly performed and meet the Quality Assurance Objectives (QAOs). Proper procedures were followed during data reduction and analysis. The batch is complete, acceptable, and includes all supporting data and documentation required by the QAPjP.

S. M. Peterman		11/30/10
SPM Printed Name	Signature	Date

Checklist is to be re-signed only when a re-review is performed.

SMPeterman		Section 4 of drum 41265 was reviewed.	5/19/11
SPM Printed Name	Signature	Reason	Date
SPM Printed Name	Signature	Reason	Date

- [ ] Book
- [ ] Un-burst Paper
- [ ] Photos/Slides
- [ ] CD

WRMS Separator

- [ ] Video
- [x] DVD
- [ ] Oversize
- [ ] Other

LA130031 Disc 1 of 1

Galbraith, Ron - RES

From: Galbraith, Ron - RES
Sent: Tuesday, April 02, 2013 7:37 AM
To: Fox, Lee - SRS; McTaggart, Kevin - LANL; Rigby, Brandon - LANL; Semon, Robert - LANL; Weyerman, Wade - LANL; 'Franklin.Wooldridge@srs.gov'; Pearcy, Mark - NWP; Sensibaugh, Mike - NWP; Schrock, Beverly - NWP; 'jason.jones@srs.gov'; 'reid.inglett@srs.gov'
Cc: Haschets, John - RES; Urquidez, Ken - RES; Galbraith, Ron - RES; Romo, Favian - WRES; Ray, Adam - RES; Stegman, Dustin - RES
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER SR130007

Shipment Number SR130007 has been confirmed by Waste Confirmation in the WDS.

-----Original Message-----
From: wdsadmin@wipp.ws [mailto:wdsadmin@wipp.ws] BEST AVAILABLE COPY
Sent: Tuesday, April 02, 2013 7:36 AM
To: DL WWIS C
Subject: WDS CONFIRMATION OF SHIPMENT NUMBER SR130007 (prd05)

Shipment Number SR130007 has been confirmed by Waste Confirmation in the WDS.

SUMMARY: Following is an abbreviated shipment summary:

Payload Number	Controlled	Ship Period	Assembly	Containers
SR1928	N	60	SR127169	7 12-INCH PIPE OVERPACK
			SR127168	6 12-INCH PIPE OVERPACK
			SR127168	1 55-GALLON DRUM
SR1929	N	60	SR127162	1 55-GALLON DRUM
			SR127163	7 12-INCH PIPE OVERPACK
			SR127162	6 12-INCH PIPE OVERPACK
SR1930	N	60	SR127157	7 12-INCH PIPE OVERPACK
			SR127156	1 55-GALLON DRUM
			SR127156	6 12-INCH PIPE OVERPACK

WASTE STREAMS: The containers included in this shipment are from the following waste stream(s):

Payload Number	Waste Streams
SR1928	SR-221H-PUOX (HETEROGENEOUS INORGANIC DEBRIS)
SR1929	SR-221H-PUOX (HETEROGENEOUS INORGANIC DEBRIS)
SR1930	SR-221H-PUOX (HETEROGENEOUS INORGANIC DEBRIS)

CBFO Form MP 5.1-1
February 2013

ATTACHMENT II
Page 1 of 1

DOE Management Representative Review of Confirmation Data Package Checklist

line		YES	NO
1	Step 5.4 Review of RES Form EA02RC1102-1-0		
2	Site: SRS		
3	Shipment Number: SR130007		
4	Has the OP signed and dated the form?	✓	
5	Has the ITR signed and dated the form?	✓	
6	Has the PCR signed and dated the form?	✓	
7	Step 5.4.4 Technically Reasonable		
8	Were the data generated at a site certified by NTP?	✓	
9	Were the data generated in a process (technique) certified by NTP?	✓	
10	Are the data technically reasonable based on the technique used?	✓	
11	Step 5.4.5 Independent Technical Review		
12	Have the data received independent technical review?	✓	
13	Step 5.4.6 Ignitable, corrosive, reactive, and physical form		
14	Do the data indicate no ignitable, corrosive, reactive, and the physical form is correct?	✓	
15	Step 5.4.7 QC Checks		
16	Have the QC checks been performed?	✓	
17	Step 5.4.8 QAOs		
18	Have the QAOs been met?	✓	

19 ✓ APPROVED _____ DISAPPROVED

20 Michael R. Brown (NAME) | [signature] (SIGNATURE) | 4/01/2013 (DATE)

Galbraith, Ron - RES

From:	Brown, Mike - DOE
Sent:	Monday, April 01, 2013 4:10 PM
To:	Galbraith, Ron - RES; Morgan, Thomas - DOE; Mackie, Bill - DOE; Pinzel, Marcus - DOE; Walker, Andy - DOE; Stroble, J. R. - DOE
Cc:	Site Documents - DOE; Haschets, John - RES; Romo, Favian - WRES; Urquidez, Ken - RES; Ray, Adam - RES; Stegman, Dustin - RES
Subject:	RE: Request for DOE Management Representative Review for Shipment SR130007

Shipment **SR130007**has been reviewed by the DOE Management Representative and is approved per Section C7-1e(2) of the WIPP HWFP.

Michael R. Brown
Transportation Packaging Manager
Phone: 575-234-7476
Fax: 575-234-7061
e-mail: mike.brown@wipp.ws
U.S. Department of Energy
4021 National Parks Highway
Carlsbad, New Mexico 88220

From: Galbraith, Ron - RES
Sent: Monday, April 01, 2013 3:26 PM
To: Morgan, Thomas - DOE; Brown, Mike - DOE; Mackie, Bill - DOE; Pinzel, Marcus - DOE; Walker, Andy - DOE; Stroble, J. R. - DOE
Cc: Site Documents - DOE; Haschets, John - RES; Romo, Favian - WRES; Urquidez, Ken - RES; Galbraith, Ron - RES; Ray, Adam - RES; Stegman, Dustin - RES
Subject: Request for DOE Management Representative Review for Shipment SR130007
Importance: High

To: DOE Management Representative

From: RES Permittees Confirmation Representative

As required by Permit Attachment C7, Section C7-1e (2), the **confirmation data package** for Shipment **SR130007** is attached and contains the following:

- EA02RC1102-1-0 Rev. 7 (1 for each waste stream in Shipment **SR130007**)
- EA02RC1102-2-0 Rev. 1 (ITR Checklist)
- EA02RC1102-3-0 Rev. 1 (PCR Checklist)

Per the WIPP Eight week Rolling Schedule, **SR130007** is scheduled to ship on **Wednesday, April 3, 2013 at 08:30.**

Shipment SR130007 can be viewed in its entirety at \\arrey\DOE_Shipment_Review.

Once your review is complete, please **REPLY to ALL via email** with your approval and/or comments.

Ronald Galbraith
Nuclear Waste Partnership, LLC - Regulatory/Environmental Support
Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
(575) 234-7685
(575) 302-7251

Working Copy

TRU WASTE CONFIRMATION PCR REVIEW CHECKLIST

Shipment Number: SR130007

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. The data are technically reasonable based on the technique used. Reference Source: (C7-1e(2))	✓			
2. The data have received independent technical review. Reference Source: (C7-1e(2))	✓			
3. The data indicate that the waste examined contained no ignitable, corrosive, or reactive waste. Reference Source (C7-1e(2))	✓			
4. The data indicate that the physical form of the waste was consistent with the waste stream description in the waste stream profile form. Reference Source: (C7-1e(2))	✓			
5. The data met the established QAOs for RTR? Mark N/A if there are no RTRs for this shipment. Reference Source: (C7-1e(2))	✓			
5a. Precision Were discrepancies between two operators with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WC limits, and identification of compressed gases through independent replicate scans and independent observations reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(1))			✓	No Discrepancies
5b. Accuracy Was the lines-Pair Resolution Test Check included in the BDR? Reference Source: (C7-1d(1))	✓			
5c. Accuracy Are the training qualifications for all radiography personnel acceptable? Reference Source: (C7-1d(1))	✓			
5d. Representativeness Was a Confirmation module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(1))	✓			

Working Copy

Shipment Number: SR130007

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
5e. Completeness Was a video and audio media recording of the radiography examination and a validated radiography data form obtained for 100 percent of the waste containers selected for confirmation? Reference Source: (C7-1d(1))	✓			
5f. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(1))	✓			
5g. Comparability Are the confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(1))	✓			
6. The data meet the established QAOs for VE? Mark N/A if there are no VEs for this shipment. Reference Source: (C7-1e(2))			✓	
6a. Precision Discrepancies between the operator and the independent technical reviewer with regard to the waste stream waste confirmation, identification of liquid in excess of TSDF-WAC limits, and identification of compressed gases have been reconciled? Mark N/A if there were no discrepancies. Reference Source: (C7-1d(2))			✓	
6b. Accuracy Are the training qualifications for all Visual Examination personnel acceptable? Reference Source: (C7-1d(2))			✓	
6c. Representativeness Was a Confirmation Module completed accurately and signed for each waste stream in the shipment? Reference Source: (C7-1d(2))			✓	

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Shipment Number: SR130007				
Description of Criteria Reviewed	**Criteria Met?**			**Comments/Qualifiers**
	Yes	**No**	**N/A**	
6d. Completeness A validated VE data form was obtained for 100 percent of the waste containers subject to VE? Reference Source: (C7-1d(2))	☐	☐	☑	
6e. Comparability Was the most current version of the confirmation procedure used? Reference Source: (C7-1d(2))	☐	☐	☑	
6f. Comparability Are confirmation personnel working the shipment currently qualified? Reference Source: (C7-1d(2))	☐	☐	☑	
Comments: N/A				
Ronald Galbraith			4-1-2013	
PCR Printed Name	Signature		Date	
Shipment payloads have been verified and have not changed:				
RONALD GALBRAITH			4-2-2013	
PCR Printed Name	Signature		Date	

Working Copy

TRU WASTE CONFIRMATION ITR REVIEW CHECKLIST

Shipment Number: SR130007

Description of Criteria Reviewed	Criteria Met? Yes	No	N/A	Comments/Qualifiers
1. Data generation and reduction were conducted in a technically correct manner in accordance with the methods used (procedure with revision). Data were reported in the proper units and correct number of significant figures. Reference Source: (C7-1e(1))	✓			
2. Is the media complete, if applicable? Reference Source: (C7-1e(1))	✓			
3. The data have been reviewed for transcription errors? Reference Source (C7-1e(1))	✓			
4. Ensure the generator/storage site radiography video and audio media recordings were reviewed (independent observation) on a waste container basis at a minimum of once per shipment or once per day of operation, whichever is less frequent. The radiography video/audio recording was reviewed against the data reported on the radiography form to ensure that the data are correct and complete. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	✓			
5. If review of radiography scans recorded by the generator/storage site was used to perform confirmation, were two observations performed for each shipment or two observations per day, whichever is less frequent. *Mark N/A if the containers being confirmed in this shipment are VE only. Reference Source: (C7-1e(2))	✓			

Comments:
N/A

ITR Printed Name KEN URQUIDEZ	Signature	Date 4/1/2013

WDS WASTE DATA SYSTEM

Waste Isolation Pilot Plant
Shipment Confirmation Payload Container List

Shipment Number: SR130007

Waste Stream Profile: SR-221H-PUOX

	Container Num	Container Type	Payload	Type
1	HBL110110	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
2	HBL110120	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
3	HBL110128	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
4	HBL110133	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
5	HBL110196	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
6	HBL110197	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
7	HBL110199	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
8	HBL120018	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
9	HBL120060	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
10	HBL120075	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
11	HBL120080	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
12	HBL120281	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
13	HBL120490	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
14	HBL110115	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
15	HBL110124	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
16	HBL110134	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
17	HBL110170	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
18	HBL110174	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
19	HBL110198	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
20	HBL110200	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
21	HBL120010	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
22	HBL120013	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
23	HBL120014	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
24	HBL120016	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
25	HBL120019	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
26	HBL120038	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1929	TP-II
27	HBL110131	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
28	HBL120006	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II

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Waste Isolation Pilot Plant
Shipment Confirmation Payload Container List

Shipment Number: SR130007

Waste Stream Profile: SR-221H-PUOX

	Container Num	Container Type	Payload	Type
29	HBL120007	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
30	HBL120022	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
31	HBL120027	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
32	HBL120042	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
33	HBL120055	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
34	HBL120058	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
35	HBL120062	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
36	HBL120064	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
37	HBL120067	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
38	HBL120068	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
39	HBL120267	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II

Count: 39

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Waste Isolation Pilot Plant
TRU Waste Confirmation Module

Shipment Number: SR130007

WCM Initiated By: GALBRAITH, RON
WCM Initiated On: 03/30/2013 05:48

The Waste Confirmation Module has been run.

Waste Stream Profile: SR-221H-PUOX

Container Num	Container Type	Payload	Type
HBL110133	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1928	TP-II
HBL120006	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II
HBL120064	5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK	SR1930	TP-II

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Galbraith, Ron - RES

From: Galbraith, Ron - RES
Sent: Saturday, March 30, 2013 6:04 AM
To: Fox, Lee - SRS; McTaggart, Kevin - LANL; Rigby, Brandon - LANL; Semon, Robert - LANL; Weyerman, Wade - LANL; 'Franklin.Wooldridge@srs.gov'; Pearcy, Mark - NWP; Sensibaugh, Mike - NWP; Schrock, Beverly - NWP; 'jason.jones@srs.gov'; 'reid.inglett@srs.gov'
Cc: Haschets, John - RES; Urquidez, Ken - RES; Galbraith, Ron - RES; Romo, Favian - WRES; Ray, Adam - RES; Stegman, Dustin - RES
Subject: SR130007 Container Selection
Attachments: SR130007_CM.pdf

FYI-

Attached is the TRU Waste Confirmation Module report from WDS for shipment SR130007 identifying the container(s) selected for Confirmation.

Any questions please call.

Ronald Galbraith
Nuclear Waste Partnership, LLC - Regulatory/Environmental Support Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
(575) 234-7685
(575) 302-7251

Or

John Haschets
Nuclear Waste Partnership LLC - Regulatory/Environmental Support Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
575.234.7053 office
575.706.1779 cell

-----Original Message-----
From: wdsadmin@wipp.ws [mailto:wdsadmin@wipp.ws]
Sent: Monday, March 25, 2013 1:56 PM
To: Rigby, Brandon - LANL; DL WWIS C
Subject: Shipment SR130007 Ready for Confirmation (prd05)

Shipment SR130007 Is Ready For Confirmation.

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Working Copy

TRU Waste Confirmation (RTR/VE) Approval Form

												CH OR RH:	CH				
												Packaging Type:	TRUPACT -II				
Procedure No:		WP 02-RC1102 Rev. 11			RTR and/or VE Media and/or Records Review												
Generator Site:		SRS			Shipment Number:		SR130007	Waste Stream Profile Number:		SR-221H-PuOx		Shipping Container Type:	FOC				
												Shipping Container Number:	N/A				
Date Reviewed	Payload ID Number	Individual/ Inner Container Number	Batch ID/BDR Number	Media ID Number	Hazardous Waste Numbers Acceptable	Unvented Compressed Gases	Observable Liquid in Excess of Prohibition	Confirm Physical Form of the Waste is Consistent with Waste Stream Description & Waste Matrix Code	Verify Assigned NCR(s) Have Been Dispositioned	Generator RTR and/or VE Records Complete	Notes	OP	IO	RTR	PCR		
4/1/2013	SR1828	HBL 118133	SR4RTR 0273	SR4RTR 0273 A	YES	NO	NO	S5100 INORGANIC DEBRIS	N/A	YES	N/A	LA	RYB		RB		
4/1/2013	SR1830	HBL 120006	SR4RTR 0300	SR4RTR 0300 A&B	YES	NO	NO	S5100 INORGANIC DEBRIS	N/A	YES	N/A	LA	RYB		RB		
4/1/2013	SR1830	HBL 120064	SR4RTR 0272	SR4RTR 0272 A	YES	NO	NO	S5100 INORGANIC DEBRIS	N/A	YES	N/A	LA	N/A		RB		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Containers were randomly selected via the TRU Waste Confirmation Module in the Waste Data System (WDS)

Containers with HWN U134 assigned shall have no observable liquid

OP Reviewed by:	LARRY ASBURY Printed Name:	Larry Asbury Signature:	4/1/2013 Date:
IO Reviewed by:	RODEL BENEDICTOS Printed Name:	Rodel Benedictos Signature:	4-1-2013 Date:
RTR Reviewed by:	KENNETH URQUIDEZ Printed Name:	Kenneth Urquidez Signature:	4/1/2013 Date:
PCR Reviewed by:	RON GALBRAITH Printed Name:	Ronald Galbraith Signature:	4-1-2013 Date:

Observable liquid in container (e.g., 55-gallon drum, standard waste box, etc.) shall not exceed the prohibition. Containers shall not contain compressed gases.

Comments:	N/A LA 4/1/2013

CONTAINERID: HBL110133

SRS

AK DATA

Container	Container Type	WDS Status	WSID
HBL110133	POC	APPROVED_SHIP	SR-221H-PuOx

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
SR12FG11073	HSG_TRANS	Complete	2012-07-25	PDF Link (click here)
SR4RTR0273	RTR	Complete	2012-07-18	PDF Link (click here)
SRLBC0865	NDA	Complete	2012-11-14	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
HBL110133	NO DATA				

Release Reason	Actual Condition

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Shipment Number: SR130007
Container Number: HBL110133
Container Type: 5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK

Certification Data Values

Generator Site:	SR	Waste Stream Profile Code:	SR-221H-PUOX
Waste Handling Code:	CH	IDC Code:	NONE
Payload Number:	SR1928	Waste Matrix Code:	S5100
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	0.50
3	OTHER METAL/ALLOYS	0.20
4	OTHER INORGANIC MATERIALS	1.30
8	PLASTICS	0.10
13	STEEL CONTAINER MATERIALS	102.00
14	PLASTIC/LINERS CONTAINER MATERIALS	6.50
15	CELLULOSICS PACKAGING MATERIALS	35.40
	Waste Weight:	2.10
	Packaging Weight:	143.90
	Total Material Weight:	146.00

Hazardous Codes

Hazardous Code	Description
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D011	SILVER

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C1	1RR4	RTR-4: REAL-TIME RADIOGRAPHY	07/18/2012

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Attachment 4 – CCP Radiography Batch Data Report Table of Contents and Batch Narrative

Batch Data Report No.: SR4RTR0273 Date: 7/18/12

Table Of Contents		
Item	Description	Page No.
1	CCP Radiography Batch Data Report Cover Sheet	1
2	CCP Radiography Batch Data Report Table Of Contents	2
3	CCP RTR Measurement Control Report	3
4	CCP Radiography Data Sheets	4
5	Copy of NCRs (NA, If Not Applicable)	N/A
6	CCP Independent Technical Reviewer Checklist	22

Batch Narrative

All Quality Checks were performed and recorded on CCP-TP-053, Rev. 11, CCP RTR Measurement Control Report in Batch Data Report SR4RTR0272. A copy of this document is included in this Batch Data Report for convenience.

The Replicate Scan and Independent Observation performed on this date were recorded in Batch Data Report SR4RTR0272. Copies of these documents are included in this Batch Data Report for convenience.

Following behind the ITR checklist the Operator Aid #1510 excel spreadsheets has been paginated and placed in this BDR for reference to the containers processed in this BDR. 7-26-12

Steve Redmond
RTR Operator

Signature

7/18/12
Date 7-26-12

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Attachment 5 – CCP Radiography Batch Data Report Cover Sheet

Batch Data Report No.: SR4RTR0273 Date: 7/18/12

Waste Container ID Numbers	
Replicate Scan:	N/A
Independent Observation:	N/A
1	HBL110130
2	HBL110134
3	HBL110133
4	HBL110131
5	N/A
6	N/A
7	N/A
8	N/A
9	N/A
10	N/A
11	N/A
12	N/A
13	N/A
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A

Independent Technical Reviewer:
Georgia N. Karais — Printed Name
Georgia N. Karais — Signature
7/20/12 — Date

CCP RECORDS ORIGINAL
DATE REC'D 07-26-12

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Attachment 1 – CCP RTR Measurement Control Report

Site ID: SRS		
Batch Data Report No.: SR4RTR0272		
Examination Date: 7/18/12		
Control Checks		
Video/Audio Recorded Media System Check	☑ SAT	☐ UNSAT
Image Test : 12 Lines (Minimum acceptable is 5 lines-pair/cm or #6 Sieve is viewable)	☑ SAT	☐ UNSAT
Comments: N/A		
RTR Operator: John Brookshire	7/18/12	
Printed Name	Signature	Date

COPY

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CCP-AK-SRS-21 REV. 1
Waste Stream: SR-221H-PuOx

Operator Aid # 156
Container ID HBL110133

Gross Weight (kg) 146
Tare Weight (kg) 143.9

Operator Aid 156.xls rev. 0
Addendum N/A
SCO # 1188
Excel 2003/2007/2010 Micorsoft
Windows XP

	WASTE											PACKAGING					TOTAL
	W	AN	OR	CI	C	R	XPW	OR	N	S	WASTE TOTAL	55 Gallon Drum (ST)	Pipe Component (ST)	Liner/Lid (PY)	Sampling Assembly (S)	PACKAGING TOTAL	
DISTRIBUTION (%)	28.29	0	7.06	61.26	0	0	5.37	0	0	0	100	19.2	51.7	4.5	24.6	100.0	
WEIGHT	0.5	0.0	0.2	1.3	0.0	0.0	0.1	0.0	0.0	0.0	2.1	27.6	74.4	6.5	35.4	143.9	146.0

Waste Material Parameter are based on the Weight Percent from CCP-AK-SRS-21 Rev. 1 Table 1 Waste Stream SR-221H-PuOx Waste Material Parameters.
Packaging weight percentages are derived from nominal weights of 12" Standard Pipe Overpack from packaging engineer e-mail on 2-24-2012.

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Attachment 2 – CCP Radiography Data Sheet

Section 1: General Information	
☑ RTR Examination ☐ RTR Replicate Scan ☐ RTR Independent Observation	
Site ID:	SRS
Batch Number:	SR4RTR0273
Examination Date:	7/18/12
Waste Container ID:	HBL110133
Video/Audio Recorded Media Number:	SR4RTR0273 A
Procedure and Revision No.:	CCP-TP-053 Rev. 11
NCR(s) associated with the container? (e.g., Prohibited Items)	☑ NO ☐ YES NCR No.: N/A NCR No.: N/A

Section 2: Waste Container Data	
Container Type:	55 Gallon drum
TRUCON Code:	SR125
Waste Matrix Code:	S5100
Waste Stream I.D.:	SR-221H-PuOx
Waste Container Weights:	Gross Wt: 146.0 kg. Tare Wt: 143.9 kg. Net Wt: 2.1 kg.
Rigid Liner and Liner Vent Description: (e.g., "90 mil liner – NO Lid" or "NO Liner")	90 Mil Liner- Vented
Number of Layers of Confinement:	Appears to be 2 layers
Volume Utilization Percentage:	35 %

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Attachment 2 – CCP Radiography Data Sheet (Continued)

Page 2 of 3

Waste Container ID: HBL110133

Section 3: Container Inventory and Comments (Detailed descriptions)
Metal cans
Plutonium oxide material
Inert inorganic material
Plastic bag

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	102.0
Plastics (PP):	6.5
Others:	35.4
Total Packaging Weight:	143.9
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	0.5
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	0.2
Other Inorganic Materials (OI):	1.3
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	0.1
Organic Matrix (OR):	
Inorganic Matrix (IN):	
Soils (S):	
Total WMP Weight:	2.1

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Attachment 2 – CCP Radiography Data Sheet (Continued)

Page 3 of 3

Waste Container ID: HBL110133

Section 5: RTR Summary (Questions answered "YES" will be explained in the Comments block, except for Question 1)	Yes	No
Is there observable liquid?	☐	☑
Is there any observable liquid in internal containers, more than 50 milliliters or 3 percent by volume, whichever is greater?	☐	☑
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	☐	☑
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	☐	☑
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐	☑
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐	☑
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	☐	☑
Is there an indication of wastes containing explosives or compressed gases?	☐	☑
Is there an indication of PCBs liquids?	☐	☑
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA hazardous waste numbers of D001, D002, or D003)?	☐	☑
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐	☑
CH or RH TRAMPAC		
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	☐	☑
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐	☑
Are there sealed containers GREATER than 4 liters?	☐	☑
Are there indications of inadequate protection for heavy and/or sharp objects?	☐	☑

N/A

Comments:

RTR Operator:

Steve Redmond		7/18/12
Print Name	Signature	Date

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Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist

Batch Data Report No.: SR4RTR0273

Description				
1. Data generation and reduction were conducted in a technically correct manner in accordance with the methods used?	☐ NO	☑ YES	☐ N/A	✓
2. Was the correct revision of the procedure used? Procedure: CCP-TP-053 Rev.: 11	☐ NO	☑ YES	☐ N/A	✓
3. Are the WMPs entered correctly?	☐ NO	☑ YES	☐ N/A	✓
4. Do the estimated weights in Section 4 of Attachment 2 equal the container gross weight?	☐ NO	☑ YES	☐ N/A	✓
5. Is the data reported in the proper units with the correct number of significant figures (e.g., one tenth of a kilogram)?	☐ NO	☑ YES	☐ N/A	✓
6. Has the data been verified for transcription errors?	☐ NO	☐ YES	☑ N/A	✓
7. Does the Testing Batch Report include radiography for up to 20 containers?	☐ NO	☑ YES	☐ N/A	
8. BDR contents are complete and match the CCP Waste RTR Batch Data Report Table of Contents?	☐ NO	☑ YES	☐ N/A	
9. Is all the data signed and dated in reproducible ink and by the individual(s) generating it?	☐ NO	☑ YES	☐ N/A	✓
10. Is all data recorded clearly, legibly, and accurately?	☐ NO	☑ YES	☐ N/A	✓
11. All changes to original data lined out, initialed and dated by the individual making the changes?	☐ NO	☐ YES	☑ N/A	
12. Was justification made for changing the original data?	☐ NO	☐ YES	☑ N/A	✓
13. Were data changes made by the individual who originally collected the data?	☐ NO	☐ YES	☑ N/A	
14. Does the waste match the Waste Matrix Code and Waste Stream description?	☐ NO	☑ YES	☐ N/A	✓
15. Are the RTR Operator's decisions regarding the Radiography documented?	☐ NO	☑ YES	☐ N/A	
16. Is there an adequate written description of the contents of each item?	☐ NO	☑ YES	☐ N/A	✓
17. Was the video/audio recording media properly prepared and labeled for each waste container?	☐ NO	☑ YES	☐ N/A	
18. Was the video/audio recording media check performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	☐ N/A	✓

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Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist (Continued)

Batch Data Report No.: SR4RTR0273

Description				
19.	Was the Image Test performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	☐ N/A
20.	Was the Replicate Scan performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	☐ N/A
21.	Was the Replicate Scan RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	☐ N/A
22.	Did the Replicate Scan RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	☐ N/A
23.	Was the Independent Observation performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	☐ N/A
24.	Was the Independent Observation RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	☐ N/A
25.	Did the Independent Observation RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	☐ N/A
26.	Was the data collection performed by qualified individuals?	☐ NO	☑ YES	☐ N/A
27.	Are the NCR(s) associated with the RTR examination included in the BDR?	☐ NO	☐ YES	☑ N/A
28.	QAOs (precision, accuracy, completeness, representativeness) have been met?	☐ NO	☑ YES	☐ N/A

Comments:

N/A

I have reviewed 100% of the container specific and batch data in this report and find it acceptable.

Independent Technical Reviewer:

Georgia N. Kareis — Printed Name

Georgia N. Kareis — Signature

7/26/12 — Date

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary

BDR Number: SR4RTR0273 Examination Date: 7/18/12

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
1. Is the completed, signed, and dated Independent Technical Reviewer Checklist included in the BDR, and the independent technical reviewer was not involved in the generation or recording of the data under review? Reference Source: CCP-PO-001, C3-10b	X			
2. Does the BDR contain all items addressed in the BDR Table of Contents? Reference Source: CCP-PO-001, C3-10b	X			
3. Does the BDR include a listing of all the container numbers in the batch? Reference Source: CCP-PO-001, C3-10b	X			
4. List all containers that have met QAOs. Reference Source: CCP-PO-001, C3-10b				Container Numbers: HBL110130 HBL110134 HBL110136 HBL110131
5. Does the BDR identify the current implementing procedure and revision number? Reference Source: CCP-PO-001, Table C3-11	X			
6. Is there a reference to or copy of any associated NCRs (if any) in the BDR? NA if no NCRs. Reference Source: CCP-PO-001, Table C3-11			X	NO NCRS
7. Are there 20 or fewer containers in the batch? Reference Source: CCP-PO-001, C3-10	X			
8. Are the data properly reported (i.e., data are reported in correct units and with correct significant figures)? Reference Source: CCP-PO-001, C3-10b	X			
9. Is there evidence of verification that the physical form matches the Waste Matrix Code? Reference Source: CCP-PO-001, C3-4, Table C3-11	X			

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DATE REC'D 08.01.12

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: SR4RTR0273 Examination Date: 7/18/12

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
10. Is there evidence of verification that the physical form matches the waste stream description? Reference Source: CCP-PO-001, C1-3, Table C3-11	X			
11. Are prohibited items absent? Reference Source: CCP-PO-001, C3-4a	X			
12. Does observable liquid, if present, meet the criteria of the TSDF-WAC? Reference Source: CCP-PO-001, C3-4a	X			
13. Were discrepancies between two operators with regard to identification of waste matrix code, liquids in excess of the TSDF-WAC, or compressed gases through replicate scans and independent observations reconciled? NA if no discrepancies. Reference Source: CCP-PO-001, C3-4a			X	NO DISCREPENCIES
14. Are the training qualifications for all radiography personnel acceptable? Reference Source: CCP-PO-001, C3-4a	X			
15. Was evidence of the video/audio check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
16. Was the Lines-Pair Resolution Test Check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
17. Was a replicate scan performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			
18. Was an independent observation performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: SR4RTR0073 Examination Date: 7/18/12

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
19. Were the replicate scan and independent observation performed on different waste containers? Reference Source: CCP-PO-001, C1-3	X			
20. Were the personnel performing the replicate scan and independent observation different from the individual who performed the original? Reference Source: CCP-PO-001, C1-3	X			
21. Does the BDR include an estimate of each material parameter weight in kg for each container? Reference Source: CCP Technical Procedures	X			
22. Does the BDR include a description of each material parameter for each container? Reference Source: CCP-PO-001, Table C3-1	X			
23. Is the container gross weight recorded in kilograms (kg) for each container in the BDR? Reference Source: CCP Technical Procedures	X			
24. Was the Scale Weight Calibration Check included in the BDR? Reference Source: CCP Technical Procedures			X	Weight obtained independent of RTR
25. Was the Scale Weight Check included in the BDR? Reference Source: CCP Technical Procedures			X	Weight obtained independent of RTR

Comments: NONE

The container QC checks were properly performed and meet the Quality Assurance Objectives (QAOs). Proper procedures were followed during data reduction and analysis. The batch is complete, acceptable, and includes all supporting data and documentation required by the QAPjP.

LAURA NELSON	Laura Nelson	7/31/12
SPM Printed Name	Signature	Date

Checklist is to be re-signed only when a re-review is performed.

SPM Printed Name	Signature	Reason	Date
SPM Printed Name	Signature	Reason	Date

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CONTAINERID: HBL120006

SRS

AK DATA

Container	Container Type	WDS Status	WSID
HBL120006	POC	APPROVED_SHIP	SR-221H-PuOx

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
ECL13002M	HSG	Complete	2013-02-14	PDF Link (click here)
SR13FG11008	HSG_TRANS	Complete	2013-01-17	PDF Link (click here)
SR4RTR0309	RTR	Complete	2013-01-16	PDF Link (click here)
SRHSG1302	HSG	Complete	2013-01-28	PDF Link (click here)
SRLBC0903	NDA	Complete	2013-02-05	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
HBL120006	NO DATA				

Release Reason	Actual Condition

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Waste Isolation Pilot Plant
Confirmation Container Data Report

Shipment Number: SR130007
Container Number: HBL120006
Container Type: 5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK

Certification Data Values

Generator Site:	SR	Waste Stream Profile Code:	SR-221H-PUOX
Waste Handling Code:	CH	IDC Code:	NONE
Payload Number:	SR1930	Waste Matrix Code:	S5100
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	0.50
3	OTHER METAL/ALLOYS	0.20
4	OTHER INORGANIC MATERIALS	1.30
8	PLASTICS	0.10
13	STEEL CONTAINER MATERIALS	99.90
14	PLASTIC/LINERS CONTAINER MATERIALS	6.30
15	CELLULOSICS PACKAGING MATERIALS	34.70
	Waste Weight:	2.10
	Packaging Weight:	140.90
	Total Material Weight:	143.00

Hazardous Codes

Hazardous Code	Description
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D011	SILVER

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C1	1RR4	RTR-4: REAL-TIME RADIOGRAPHY	01/16/2013

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Attachment 5 – CCP Radiography Batch Data Report Cover Sheet

Site ID: SRS

Batch Data Report No.: SR4RTR0309 ☑ CH ☐ RH Date: 1/16/13

Waste Container ID Numbers	
Replicate Scan:	HBL120011
Independent Observation:	HBL120008
1	HBL120010
2	HBL120012
3	HBL120022
4	HBL120006
5	HBL120011
6	HBL110197
7	HBL110202
8	HBL120007
9	HBL120013
10	HBL110200
11	N/A
12	N/A
13	N/A
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A

RTR Operator: Steve Redmond — Printed Name; Signature; 1/16/13 — Date

Independent Technical Reviewer: Georgia N. Karis — Printed Name; Georgia N. Karis — Signature; 1-21-13 — Date

CCP RECORDS ORIGINAL
DATE REC'D 01-21-13

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Attachment 4 – CCP Radiography Batch Data Report Table of Contents and Batch Narrative

Batch Data Report No.: SR4RTR0309 Date: 1/16/13

Table Of Contents		
Item	Description	Page No.
1	CCP Radiography Batch Data Report Cover Sheet	1
2	CCP Radiography Batch Data Report Table Of Contents	2
3	CCP RTR Measurement Control Report	3
4	CCP Radiography Data Sheets	4
5	Copy of NCRs (NA, If Not Applicable)	N/A
6	CCP Independent Technical Reviewer Checklist	40

Batch Narrative

All Quality Checks were performed and recorded on CCP-TP-053, Rev.12, CCP RTR Measurement Control Report.

Following behind the ITR Checklist the Operator Aid #156 excel spreadsheets have been paginated and placed in this BDR for reference to the containers processed in this BDR.

Steve Redmond — RTR Operator
Signature — 1/16/13 Date

2

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Attachment 1 – CCP RTR Measurement Control Report

Site ID: SRS		
Batch Data Report No.: SR4RTR0309		
Examination Date: 1/16/13		
Control Checks		
Video/Audio Recorded Media System Check	☑ SAT	☐ UNSAT
Image Test : 10 Lines (Minimum acceptable is 5 lines-pair/cm or #6 Sieve is viewable)	☑ SAT	☐ UNSAT
Comments: N/A		
RTR Operator:		
Byron Gelderman		1/16/13
Printed Name	Signature	Date

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3

CCP-AK-SRS-21 REV. 1
Waste Stream: SR-221H-PuOx

Operator Aid # 156
Container ID [redacted]

Gross Weight (kg) [redacted]
Tare Weight (kg) 140.9

Operator Aid 156.xls rev. 0
Addendum N/A
SCD # 1188
Excel 2003/2007/2010 Microsoft
Windows XP

	WASTE											PACKAGING					TOTAL
	IM	AM	OM	OI	C	R	XPW	OR	IN	S	WASTE TOTAL	55 Gallon Drum (ST)	Pipe Components (PP)	Rigid Liner/Lid (PP)	Damage Assembly (O)	PACKAGING TOTAL	
DISTRIBUTION (%)	26.29	0	7.06	61.28	0	0	5.37	0	0	0	100	19.2	51.7	4.5	24.6	100.0	
WEIGHT	0.5	0.0	0.2	1.3	0.0	0.0	0.1	0.0	0.0	0.0	2.1	27.1	72.8	6.3	34.7	140.9	143.0

Waste Material Parameter are based on the Weight Percent from CCP-AK-SRS-21 Rev. 1 Table 1 Waste Stream SR-221H-PuOx Waste Material Parameters.
Packaging weight percentages are derived from nominal weights of 12" Standard Pipe Overpack from packaging engineer e-mail on 2-24-2012.

INFORMATION ONLY

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CCP Radiography Data Sheet

Section 1: General Information	
[X] RTR Examination	[ ] RTR Replicate Scan [ ] RTR Independent Observation
Site ID:	SRS
Batch Number:	SR4RTR0309
Examination Date:	1/16/2013
Waste Container ID:	HBL120006
Video/Audio Recorded Media Number:	SR4RTR0309 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 12
NCR(s) associated with the container? (e.g., Prohibited Items)	[X] No [ ] Yes NCR No.: N/A NCR No.: N/A

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	SR 125
Waste Matrix Code:	S5100
Waste Stream I.D.:	SR-221H-PuOx
Waste Container Weights:	Gross Wt.: 143.0 kg Tare Wt.: 140.9 kg Net Wt.: 2.1 kg
Rigid Liner and Liner Vent Description:	Liner: [ ] No [X] Yes Lid: [ ] No [X] Yes Type: [ ] 30-mil [X] 90-mil [ ] 110-mil [ ] 125-mil Vented: [ ] No [X] Yes [ ] N/A Punctured: [ ] No [X] Yes Mechanical Vent: [X] No [ ] Yes Fiberboard Liner: [X] No [ ] Yes Lead Lined: [X] No [ ] Yes
Number of Layers of Confinement:	Appears to be 2 layers
Volume Utilization Percentage:	35 %

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CCP Radiography Data Sheet

Waste Container ID: HBL120006

Section 3: Container Inventory and Comments
IM: Metal cans
AM:
OM: Plutonium oxide material
OI: Blended material
C:
R:
XPM: Plastic bag
OR:
IN:
S:

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	**Estimated Weight (kg)**
Steel (ST):	99.9
Plastics (PP):	6.3
Other:	34.7
Total Packaging Weight	140.9
Waste Material Parameter:	**Estimated Weight (kg)**
Iron-based Metal / Alloys (IM):	0.5
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	0.2
Other Inorganic Materials (OI)	1.3
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	0.1
Organic Matrix (OR):	
Inorganic Matrix (IN):	
Soils (S):	
Total WMP Weight:	2.1

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CCP Radiography Data Sheet

Waste Container ID: HBL120006

Section 5: RTR Summary	
Is there observable liquid?	☐ Yes ☒ No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	☐ Yes ☒ No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	☐ Yes ☒ No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	☐ Yes ☒ No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	☐ Yes ☒ No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	☐ Yes ☒ No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	☐ Yes ☒ No
Is there an indication of wastes containing explosives or compressed gases?	☐ Yes ☒ No
Is there an indication of PCBs liquids?	☐ Yes ☒ No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	☐ Yes ☒ No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	☐ Yes ☒ No
CH or RH TRAMPAC	
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	☐ Yes ☒ No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	☐ Yes ☒ No
Are there sealed containers GREATER than 4 liters?	☐ Yes ☒ No
Are there indications of inadequate protection for heavy and/or sharp objects?	☐ Yes ☒ No

Comments:N/A

RTR Operator:

Byron Gelderman		1/16/2013
Print Name	Signature	Date

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RTR Data Sheet.xls SCO# 1189 Ver. 1
Microsoft Excel 2003 Windows XP

Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist

Batch Data Report No.: SR4RTR0309

Description				
1.	Data generation and reduction were conducted in a technically correct manner in accordance with the methods used?	☐ NO	☑ YES	✓
2.	Was the correct revision of the procedure used? Procedure: CCP-TP-053 Rev.: 12	☐ NO	☑ YES	✓
3.	Are the WMPs entered correctly?	☐ NO	☑ YES	✓
4.	Do the estimated weights in Section 4 of Attachment 2 equal the container gross weight?	☐ NO	☑ YES	✓
5.	Is the data reported in the proper units with the correct number of significant figures (e.g., one tenth of a kilogram)?	☐ NO	☑ YES	✓
6.	Has the data been verified for transcription errors?	☐ NO	☐ YES	☑ N/A ✓
7.	Does the Testing Batch Report include radiography for up to 20 containers?	☐ NO	☑ YES	
8.	BDR contents are complete and match the CCP Waste RTR Batch Data Report Table of Contents?	☐ NO	☑ YES	✓ RD 9.1.13
9.	Is all the data signed and dated in reproducible ink and by the individual(s) generating it?	☐ NO	☑ YES	✓
10.	Is all data recorded clearly, legibly, and accurately?	☐ NO	☑ YES	✓
11.	All changes to original data lined out, initialed and dated by the individual making the changes?	☐ NO	☐ YES	☑ N/A
12.	Was justification made for changing the original data?	☐ NO	☐ YES	☑ N/A ✓✓
13.	Were data changes made by the individual who originally collected the data?	☐ NO	☐ YES	☑ N/A
14.	Does the waste match the Waste Matrix Code and Waste Stream description?	☐ NO	☑ YES	✓
15.	Are the RTR Operator's decisions regarding the Radiography documented?	☐ NO	☑ YES	
16.	Is there an adequate written description of the contents of each item?	☐ NO	☑ YES	✓
17.	Was the video/audio recording media properly prepared and labeled for each waste container?	☐ NO	☑ YES	
18.	Was the video/audio recording media check performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓

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Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist (Continued)

Batch Data Report No.: SR4RTR0309

Description				
19.	Was the Image Test performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	✓
20.	Was the Replicate Scan performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
21.	Was the Replicate Scan RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
22.	Did the Replicate Scan RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
23.	Was the Independent Observation performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	
24.	Was the Independent Observation RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	
25.	Did the Independent Observation RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	
26.	Was the data collection performed by qualified individuals?	☐ NO	☑ YES	✓
27.	Are the NCR(s) associated with the RTR examination included in the BDR?	☐ NO	☐ YES	☑ N/A ✓
28.	QAOs (precision, accuracy, completeness, representativeness) have been met?	☐ NO	☑ YES	✓

Comments: N/A JAK 1-21-13

I have reviewed 100% of the container specific and batch data in this report and find it acceptable.

Independent Technical Reviewer:

Printed Name	Signature	Date
Georgia N. Karis	Georgia N. Karis	1-21-13

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary

BDR Number: SR4RTR0309 Examination Date: 16 January 2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
1. Is the completed, signed, and dated Independent Technical Reviewer Checklist included in the BDR, and the independent technical reviewer was not involved in the generation or recording of the data under review? Reference Source: CCP-PO-001, C3-10b	X			
2. Does the BDR contain all items addressed in the BDR Table of Contents? Reference Source: CCP-PO-001, C3-10b	X			
3. Does the BDR include a listing of all the container numbers in the batch? Reference Source: CCP-PO-001, C3-10b	X			
4. List all containers that have met QAOs. Reference Source: CCP-PO-001, C3-10b				Container(s): HBL120010, HBL120012, HBL120022, HBL120006, HBL120011, HBL110197, HBL110202, HBL120007, HBL120013, HBL110200
5. Does the BDR identify the current implementing procedure and revision number? Reference Source: CCP-PO-001, Table C3-11	X			
6. Is there a reference to or copy of any associated NCRs (if any) in the BDR? NA if no NCRs. Reference Source: CCP-PO-001, Table C3-11			X	No NCRs associated with this BDR
7. Are there 20 or fewer containers in the batch? Reference Source: CCP-PO-001, C3-10	X			
8. Are the data properly reported (i.e., data are reported in correct units and with correct significant figures)? Reference Source: CCP-PO-001, C3-10b	X			
9. Is there evidence of verification that the physical form matches the Waste Matrix Code? Reference Source: CCP-PO-001, C3-4, Table C3-11	X			

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DATE REC'D 1/22/13

Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: SR4RTR0309 Examination Date: 16 January 2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
10. Is there evidence of verification that the physical form matches the waste stream description? Reference Source: CCP-PO-001, C1-3, Table C3-11	X			
11. Are prohibited items absent? Reference Source: CCP-PO-001, C3-4a	X			
12. Does observable liquid, if present, meet the criteria of the TSDF-WAC? Reference Source: CCP-PO-001, C3-4a	X			
13. Were discrepancies between two operators with regard to identification of waste matrix code, liquids in excess of the TSDF-WAC, or compressed gases through replicate scans and independent observations reconciled? NA if no discrepancies. Reference Source: CCP-PO-001, C3-4a			X	No discrepancies
14. Are the training qualifications for all radiography personnel acceptable? Reference Source: CCP-PO-001, C3-4a	X			
15. Was evidence of the video/audio check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
16. Was the Lines-Pair Resolution Test Check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
17. Was a replicate scan performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			HBL120011
18. Was an independent observation performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			HBL120006

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: SR4RTR0309 Examination Date: 16 January 2013

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
19. Were the replicate scan and independent observation performed on different waste containers? Reference Source: CCP-PO-001, C1-3	X			
20. Were the personnel performing the replicate scan and independent observation different from the individual who performed the original? Reference Source: CCP-PO-001, C1-3	X			
21. Does the BDR include an estimate of each material parameter weight in kg for each container? Reference Source: CCP Technical Procedures	X			
22. Does the BDR include a description of each material parameter for each container? Reference Source: CCP-PO-001, Table C3-1	X			
23. Is the container gross weight recorded in kilograms (kg) for each container in the BDR? Reference Source: CCP Technical Procedures	X			
24. Was the Scale Weight Calibration Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used
25. Was the Scale Weight Check included in the BDR? Reference Source: CCP Technical Procedures			X	Not used

Comments: None

The container QC checks were properly performed and meet the Quality Assurance Objectives (QAOs). Proper procedures were followed during data reduction and analysis. The batch is complete, acceptable, and includes all supporting data and documentation required by the QAPjP.

David W Moody	David W Moody	21 January 2013
SPM Printed Name	Signature	Date

Checklist is to be re-signed only when a re-review is performed.

SPM Printed Name	Signature	Reason	Date
SPM Printed Name	Signature	Reason	Date

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CONTAINERID: HBL120064

SRS

AK DATA

Container	Container Type	WDS Status	WSID
HBL120064	POC	APPROVED_SHIP	SR-221H-PuOx

BDR DATA

BDRID	Type	Status	Gen Date	PDF Link
SR12FG11083	HSG_TRANS	Complete	2012-08-15	PDF Link (click here)
SR4RTR0272	RTR	Complete	2012-07-18	PDF Link (click here)
SRLBC0865	NDA	Complete	2012-11-14	PDF Link (click here)

NCR DATA

Container ID	NCRID	BDRID	Status	Final Disposition	Release Code
HBL120064	NO DATA				

Release Reason	Actual Condition

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Shipment Number: SR130007
Container Number: HBL120084
Container Type: 5 - 55 GALLON PIPE OVERPACK - 12 INCH PIPE OVERPACK

Certification Data Values

Generator Site:	SR	Waste Stream Profile Code:	SR-221H-PUOX
Waste Handling Code:	CH	IDC Code:	NONE
Payload Number:	SR1930	Waste Matrix Code:	S5100
PCB Waste?	N	PCB Concentration (ppm):	
PCB Mass (kg):		PCB Out of Service Date:	
Aqueous Material?	N		

Certification Comments

Material Parameters

Material Parameter	Description	Weight (kg)
1	IRON BASE METAL ALLOYS	0.50
3	OTHER METAL/ALLOYS	0.20
4	OTHER INORGANIC MATERIALS	1.30
8	PLASTICS	0.10
13	STEEL CONTAINER MATERIALS	99.90
14	PLASTIC/LINERS CONTAINER MATERIALS	6.30
15	CELLULOSICS PACKAGING MATERIALS	34.70
	Waste Weight:	2.10
	Packaging Weight:	140.90
	Total Material Weight:	143.00

Hazardous Codes

Hazardous Code	Description
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D011	SILVER

Non-Destructive Examination (NDE)

Labor Code	NDE Method	Description	Examination Date
C1	1RR4	RTR-4: REAL-TIME RADIOGRAPHY	07/16/2012

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Attachment 5 – CCP Radiography Batch Data Report Cover Sheet

Batch Data Report No.: SR4RTR0272 Date: 7/18/12

Waste Container ID Numbers	
Replicate Scan:	SR66230
Independent Observation:	WMAPSWB491
1	HBL120065
2	HBL120059
3	HBL120055
4	HBL120064
5	HBL120170
6	HBL120069
7	WMAPSWB491
8	MDL0506246
9	MDL02560A
10	SR66230
11	MDL0506267
12	N/A
13	N/A
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A

Independent Technical Reviewer:

SUE BRADLEY — Sue Bradley — 7/24/12
Printed Name — Signature — Date

Byron Gelderman — Sue Bradley — 7/26/12
10-17-12

CCP RECORDS ORIGINAL
DATE REC'D 07.24.12

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Attachment 4 – CCP Radiography Batch Data Report Table of Contents and Batch Narrative

Batch Data Report No.: SR4RTR0272 Date: 7/18/12

Table Of Contents		
Item	Description	Page No.
1	CCP Radiography Batch Data Report Cover Sheet	1
2	CCP Radiography Batch Data Report Table Of Contents	2
3	CCP RTR Measurement Control Report	3
4	CCP Radiography Data Sheets	4
5	Copy of NCRs (NA, If Not Applicable)	43
6	CCP Independent Technical Reviewer Checklist	52
7	SRS Operator Aid 156 ~~(Information Only)~~	54

Batch Narrative

All Quality Checks were performed and recorded on CCP-TP-053, Rev. 11, CCP RTR Measurement Control Report.

CCP-AK-SRS-21, Rev 1; Operator Aid 156; ~~Information Only~~ have been added to the end of this BDR Package.
S. Bradley
7/24/12

John Brookshire — RTR Operator
John Brookshire — Signature
7/18/12 — Date

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Attachment 1 – CCP RTR Measurement Control Report

Site ID: SRS		
Batch Data Report No.: SR4RTR0272		
Examination Date: 7/16/12		
Control Checks		
Video/Audio Recorded Media System Check	☑ SAT	☐ UNSAT
Image Test : 11 Lines (Minimum acceptable is 5 lines-pair/cm or #6 Sieve is viewable)	☑ SAT	☐ UNSAT
Comments: N/A		
RTR Operator: John Brookshire — Printed Name Signature — Date: 7/16/12		

3

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CCP-AK-SRS-21 REV. 01
Waste Stream: SR-221H-PuOx

Operator Aid # 156
Container ID [redacted]

Gross Weight (kg) [redacted]
Tare Weight (kg) 140.9

Operator Aid 156.xls
Addendum N/
SCO # 1168
Excel 2003/2007/2010
Windows XP

	WASTE											PACKAGING				
	[redacted]	AM	OM	CI	C	R	XPW	OR	IN	S	WASTE TOTAL	55 Gallon Drum (ST)	Pipe Component (ST)	HEPA Liner/LM (PP)	Drainage Assembly (S)	PACKAGING TOTAL
DISTRIBUTION (%)	28.29	0	7.08	61.28	0	0	5.37	0	0	0	100	19.2	51.7	4.5	24.6	100.0
WEIGHT	0.5	0.0	0.2	1.3	0.0	0.0	0.1	0.0	0.0	0.0	2.1	27.1	72.8	6.3	34.7	140.9

Waste Material Parameter are based on the Weight Percent from CCP-AK-SRS-21 Rev. 01Table 1 Waste Stream SR-221H-PuOx Waste Material Parameters
Packaging weight percentages are derived from nominal weights of 12" Standard Pipe Overpackfrom packaging engineer e-mail on 2-24-2012.

Attachment 2 – CCP Radiography Data Sheet

Page 1 of 3

Section 1: General Information	
☑ RTR Examination ☐ RTR Replicate Scan ☐ RTR Independent Observation	
Site ID:	SRS
Batch Number:	SR4RTR0272
Examination Date:	7/16/12
Waste Container ID:	HBL120064
Video/Audio Recorded Media Number:	SR4RTR0272 A
Procedure and Revision No.:	CCP-TP-053 Rev. 11
NCR(s) associated with the container?	☑ NO ☐ YES

Attachment 2 – CCP Radiography Data Sheet (Continued)

Page 2 of 3

Waste Container ID: HBL120064

Section 3: Container Inventory and Comments (Detailed descriptions)
Metal cans
Plutonium oxide material
Inert inorganic material
Plastic bag

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	99.9
Plastics (PP):	6.3
Others:	34.7
Total Packaging Weight:	140.9
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	0.5
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	0.2
Other Inorganic Materials (OI):	1.3
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	0.1
Organic Matrix (OR):	
Inorganic Matrix (IN):	
Soils (S):	
Total WMP Weight:	2.1

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Attachment 3 – CCP Radiography Independent Technical Reviewer Checklist (Continued)

Batch Data Report No.: SR4RTR0272

Observations			
19. Was the Image Test performed satisfactorily and recorded on Attachment 1?	☐ NO	☑ YES	☐ N/A
20. Was the Replicate Scan performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	☐ N/A
21. Was the Replicate Scan RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	☐ N/A
22. Did the Replicate Scan RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	☐ N/A
23. Was the Independent Observation performed and recorded on an Attachment 2? (1 per batch or 1 per day, whichever is less frequent).	☐ NO	☑ YES	☐ N/A
24. Was the Independent Observation RTR Operator different from the first RTR Operator?	☐ NO	☑ YES	☐ N/A
25. Did the Independent Observation RTR Operator and the first RTR Operator agree on the results?	☐ NO	☑ YES	☐ N/A
26. Was the data collection performed by qualified individuals?	☐ NO	☑ YES	☐ N/A
27. Are the NCR(s) associated with the RTR examination included in the BDR?	☐ NO	☑ YES	☐ N/A
28. QAOs (precision, accuracy, completeness, representativeness) have been met?	☐ NO	☑ YES	☐ N/A

Comments:

Question 14: All containers in this BDR match the Waste Stream description and the Waste Matrix Code with the exception of MDL0506246 for packaging issues. Containers MDL0506246 and MDL0506267 have impenetrable items. 10-17-12

The original ITR is currently not available. Another qualified operator Performed ITR. 10-17-12.

I have reviewed and agree with the changes to the BDR. 10-17-12

I have reviewed 100% of the container specific and batch data in this report and find it acceptable.

Independent Technical Reviewer:

Sue Bradley — Printed Name

Sue Bradley — Signature

7/24/12 — Date

Byron Goldenman

10-17-12

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary

BDR Number: SR4RTR0272 Examination Date: 7/16-18/2012

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
1. Is the completed, signed, and dated Independent Technical Reviewer Checklist included in the BDR, and the independent technical reviewer was not involved in the generation or recording of the data under review? Reference Source: CCP-PO-001, C3-10b	X			
2. Does the BDR contain all items addressed in the BDR Table of Contents? Reference Source: CCP-PO-001, C3-10b	X			
3. Does the BDR include a listing of all the container numbers in the batch? Reference Source: CCP-PO-001, C3-10b	X			
4. List all containers that have met QAOs. Reference Source: CCP-PO-001, C3-10b				Container Numbers: ~~HBL060-63/Ne~~ 01/18/12 03/18/12 HBL120055 HBL120059 HBL120064 HBL120065 HBL120069 HBL120170 WMAPSWB491 SR66230 MDL02560A
5. Does the BDR identify the current implementing procedure and revision number? Reference Source: CCP-PO-001, Table C3-11	X			
6. Is there a reference to or copy of any associated NCRs (if any) in the BDR? NA if no NCRs. Reference Source: CCP-PO-001, Table C3-11	X			NCR-SRS-1084-12 ~~Hold~~ (MDL0506246) 03/18/12 NCR-SRS-1085-12 Reject (MDL0506246) NCR-SRS-1090-12 Reject (MDL0506267)
7. Are there 20 or fewer containers in the batch? Reference Source: CCP-PO-001, C3-10	X			
8. Are the data properly reported (i.e., data are reported in correct units and with correct significant figures)? Reference Source: CCP-PO-001, C3-10b	X			
9. Is there evidence of verification that the physical form matches the Waste Matrix Code? Reference Source: CCP-PO-001, C3-4, Table C3-11	X			Except for MDL0506246 MDL0506267

CCP RECORDS ORIGINAL
DATE REC'D 08-01-12

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: SR4RTR0272 Examination Date: 7/16-18/2012

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
10. Is there evidence of verification that the physical form matches the waste stream description? Reference Source: CCP-PO-001, C1-3, Table C3-11	X			Except for MDL0506246 MDL0506267
11. Are prohibited items absent? Reference Source: CCP-PO-001, C3-4a	X			
12. Does observable liquid, if present, meet the criteria of the TSDF-WAC? Reference Source: CCP-PO-001, C3-4a	X			
13. Were discrepancies between two operators with regard to identification of waste matrix code, liquids in excess of the TSDF-WAC, or compressed gases through replicate scans and independent observations reconciled? NA if no discrepancies. Reference Source: CCP-PO-001, C3-4a			X	No discrepancies
14. Are the training qualifications for all radiography personnel acceptable? Reference Source: CCP-PO-001, C3-4a	X			
15. Was evidence of the video/audio check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
16. Was the Lines-Pair Resolution Test Check included in the BDR? Reference Source: CCP-PO-001, C3-4a	X			
17. Was a replicate scan performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			
18. Was an independent observation performed once per day, or once per batch, whichever is LESS frequent? Reference Source: CCP-PO-001, C1-3	X			

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Attachment 2 – CCP SPM Radiography Project Level Validation Checklist and Summary (Continued)

BDR Number: SR4RTR0272 **Examination Date: 7/16-18/2012**

Description of Criteria Reviewed	Criteria Met? YES	NO	NA	Comments/Qualifiers
19. Were the replicate scan and independent observation performed on different waste containers? **Reference Source: CCP-PO-001, C1-3**	X			
20. Were the personnel performing the replicate scan and independent observation different from the individual who performed the original? **Reference Source: CCP-PO-001, C1-3**	X			
21. Does the BDR include an estimate of each material parameter weight in kg for each container? **Reference Source: CCP Technical Procedures**	X			
22. Does the BDR include a description of each material parameter for each container? **Reference Source: CCP-PO-001, Table C3-1**	X			
23. Is the container gross weight recorded in kilograms (kg) for each container in the BDR? **Reference Source: CCP Technical Procedures**	X			
24. Was the Scale Weight Calibration Check included in the BDR? **Reference Source: CCP Technical Procedures**			X	Not used
25. Was the Scale Weight Check included in the BDR? **Reference Source: CCP Technical Procedures**			X	Not used

Comments: NONE

The container QC checks were properly performed and meet the Quality Assurance Objectives (QAOs). Proper procedures were followed during data reduction and analysis. The batch is complete, acceptable, and includes all supporting data and documentation required by the QAPjP.

Carolina Soaterna	Carolina Soaterna	8/1/2012
SPM Printed Name	Signature	Date

Checklist is to be re-signed only when a re-review is performed.

Carolina Soaterna	Carolina Soaterna	WE SES-1084-12	10/18/12
SPM Printed Name	Signature	Reason	Date
SPM Printed Name	Signature	Reason	Date

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SR130007

- [ ] Book
- [ ] Un-burst Paper
- [ ] Photos/Slides
- [ ] CD

WRMS Separator

- [ ] Video
- [x] DVD
- [ ] Oversize
- [ ] Other

SR130007

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

13. Provide data to ensure that compatibility was being reviewed for the overpacking of multiple waste streams into a single payload container (Reference DOE letter received by NMED on August 1, 2013, to John Kieling, Chief Hazardous Waste Bureau, NMED from J. R. Stroble Director, National TRU Program, CBFO).

13a. The information concerning the compatibility review data is included. [19 pages]

Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221

SEP 1 0 2013

Mr. John E. Kieling, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Subject: Response to the New Mexico Environment Department Request Regarding the Overpacking of Multiple Waste Streams in a Single Payload Container

Reference: DOE Memorandum CBFO:NTP:JRS:GL:13-0476:UFC 5900.00 from Mr. J. R. Stroble to Mr. John E. Kieling, dated August 1, 2013, subject: Overpacking of Multiple Waste Streams in a Single Payload Container

Reference: NMED HWB Memorandum from John E. Kieling to Mr. Jose R. Franco and Mr. M. F. Sharif, dated August 12, 2013, subject: Response to August 1, 2013, Letter Regarding Overpacking of Multiple Waste Streams in a Single Payload Container WIPP Hazardous Waste Facility Permit EPA I.D. Number NM 4890139088

The Waste Isolation Pilot Plant (WIPP) Hazardous Waste Facility Permit (Permit) Part 2, Section 2.3.3., presents the treatment, storage, and disposal facility waste acceptance criteria (TSDF-WAC) for the WIPP facility. The Permit Part 2, Section 2.3.3.4., prohibits incompatible waste to be accepted at the WIPP facility for storage, management, or disposal. Specifically, the Permit Part 2, Section 2.3.3.4., states *Waste incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other waste are not acceptable at WIPP.* This criterion specifically prohibits waste that is not compatible with other waste at the WIPP facility. The evaluation of compatibility is not affected by the overpacking of multiple waste streams into a single payload container, even if the inner containers are damaged. All waste accepted at the WIPP facility must be compatible with all other waste, regardless of whether waste from multiple waste streams is overpacked into a single container or not. This is one of the reasons why there is no impact on the Permit with regard to implementation of overpacking containers from different waste streams into a single payload container.

As documentation of chemical compatibility of waste streams with one another, an updated chemical compatibility evaluation (**Chemical Compatibility of Transuranic Waste Streams**, Revision 0, September 2012) for existing, projected, and approved TRU waste streams was performed in 2012. The updated compatibility evaluation was included as Appendix D to the Class 2 Permit modification request (PMR), **Modify the Excluded Waste Prohibition**, submitted to NMED on April 9, 2013. This evaluation demonstrated the chemical compatibility across all existing, projected, and approved TRU waste streams, waste packaging materials and containers, backfill material, and fire suppressant materials used in the WIPP underground. The compatibility evaluation considered the list of allowed Environmental Protection Agency (EPA) hazardous waste numbers (HWNs) in the Permit, along with other sources of information. When a waste stream profile form (WSPF) is reviewed for approval, the Permittees verify that a determination of compatibility has been performed (see enclosed WP 08-NT.03, **Waste Stream Profile Form Review and Approval Program**). This ensures that only waste that meets compatibility requirements of the Permit are allowed to be shipped to the WIPP facility for storage, management, and disposal.

On a broader scale, chemical compatibility requirements extend beyond the requirements of the Permit. The transportation program also imposes chemical compatibility requirements, and the evaluation of chemical compatibility is conducted as described in DOE/WIPP-02-3122, **Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant** (WIPP-WAC). All direct load payload containers or inner containers overpacked into a payload container must be assigned a TRU Waste Content (TRUCON) code in order to be shipped to the WIPP facility for disposal. The chemical constituents on the chemical list associated with each TRUCON code are evaluated for compliance with the list of allowable materials for the appropriate waste material type (e.g., solid inorganic materials, solid organic materials, solidified organics, etc.). Only TRUCON codes with chemical lists that have been evaluated by this process and determined to be compatible are approved for disposal at the WIPP facility. The restriction imposed on the chemical constituents of the TRUCON codes further ensures compliance with the compatibility requirements.

The final verification of waste compatibility is performed using the WIPP Waste Data System (WDS). The WDS uses edit limit checks to ensure that only containers with approved WSPFs, respective EPA HWNs, and TRUCON codes can be certified for shipment to the WIPP facility. This verification is performed on the containers being certified for shipment. For overpack containers, each inner container is certified, and therefore, chemical compatibility is verified as required by the WIPP-WAC and the Permit Attachment C, Section C-5a(2).

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Mr. George T. Basabilvazo at (575) 234-7488.

Sincerely,

for Jose R. Franco

Jose R. Franco, Manager
Carlsbad Field Office

M. F. Sharif, Project Manager
Nuclear Waste Partnership LLC

Enclosure

cc: w/enclosure
T. Blaine, NMED * ED
T. Kliphuis, NMED ED
CBFO M&RC
*ED denotes electronic distribution

Working Copy

Effective Date: 04/09/13

WP 08-NT.03
Revision 14

Waste Stream Profile Form Review and Approval Program

Cognizant Section: Waste Data System and CCP Engineering

Approved By: Curtis Chester

Nuclear Waste Partnership LLC

A URS-led partnership with B&W and AREVA

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CHANGE HISTORY SUMMARY

REVISION NUMBER	DATE ISSUED	DESCRIPTION OF CHANGES
12	12/29/10	• Section 1.0: Updated the definition of a waste stream to align with the revised definition in the HWFP. • Section 3.0: Removed discussion regarding verification of waste compatibility using Appendix C1 of the RCRA Part B Permit Application (DOE, 1997). • Section 4.0: Updated criteria that describe two of the verification checks performed by the DA. • Section 11.0: Inserted a reference to the ATWIR Report. Global: Updated citations to attachments from the HWFP.
13	01/02/13	• Editorial changes in accordance with MD 1.1. • Updated review criteria in section 7.0.
14	04/09/13	• Updated review criteria in sections 1.0 through 8.0 to incorporate new Hazardous Waste Facility Permit requirements for waste characterization methods. • Deleted Section 5.0, Review Criteria for Statistical Evaluations.

ABBREVIATIONS/ ACRONYMS

AK	Acceptable Knowledge
CBFO	Carlsbad Field Office
CFR	*Code of Federal Regulations*
CH	Contact-Handled
CIS	Characterization Information Summary
DA	Data Administrator
DOE	U.S. Department of Energy
DRR	Document Review Record
EPA	U.S. Environmental Protection Agency
HWFP	Hazardous Waste Facility Permit
HWN	Hazardous Waste Number
ID	Identification
NMED	New Mexico Environment Department
NWP	Nuclear Waste Partnership LLC
QA	Quality Assurance
RCRA	Resource Conservation and Recovery Act
RES	Regulatory Environmental Services
RH	Remote-Handled
TRAMPAC	TRUPACT-II Authorized Methods for Payload Control
TRU	Transuranic
TRUCON	Transuranic Content (Codes)
TRUPACT-II	Transuranic Package Transporter-II
TSDF	Treatment, Storage, and Disposal Facility
VE	Visual Examination
WAC	Waste Acceptance Criteria
WAP	Waste Analysis Plan
WDS	Waste Data System
WIPP	Waste Isolation Pilot Plant
WITS	Waste Information Tracking Systems
WSPF	Waste Stream Profile Form
WWIS	WIPP Waste Information System

1.0 INTRODUCTION [1]

This document summarizes the applicable requirements and criteria for Waste Isolation Pilot Plant (WIPP) review and approval of Waste Stream Profile Forms (WSPFs) that are prepared by the U.S. Department of Energy (DOE) Transuranic (TRU) Waste Generator/Storage Sites (DOE Sites) and submitted to the Permittees for approval. Each WSPF package submitted for approval must meet the applicable requirements described in the Hazardous Waste Facility Permit (HWFP) Waste Analysis Plan (WAP) and the WIPP Waste Acceptance Criteria (WAC) (DOE/WIPP 02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*).

Characterization requirements for individual containers of TRU mixed waste are specified on a waste stream basis. A waste stream is defined as waste materials that have common physical form, contain similar hazardous constituents, and are generated from a single process or activity.

This document describes the processes for internal distribution of each WSPF package to the reviewers, the criteria used by each reviewer to assess each WSPF package, and the processes that are used for transmittal of comments and comment resolution.

Each WSPF package is reviewed in accordance with this document to verify that the information provided is complete and accurate, and that the waste stream complies with the WAC and the WAP prior to approval. In the event more detailed information is required by a WSPF reviewer during conduct of the review, the DOE Site will be requested to provide a Waste Stream Characterization Package that supports waste characterization determinations. Additionally, chemical sampling and analysis data consisting of a sampling and analysis plan, EPA SW-846 (or equivalent) test methods, and identification of the laboratory to be used for the analysis may be requested. The option for the Permittees to request additional information ensures that the waste being offered for disposal is adequately characterized and accurately described on the WSPF.

2.0 REQUIREMENTS

After a complete Acceptable Knowledge (AK) record has been compiled and either a Determination Request has been approved by DOE or the generator/storage site has completed the applicable testing requirements, the DOE site will complete a WSPF and Characterization Information Summary (CIS) and submit them to the Permittees for review.

All data necessary to check the accuracy of the WSPF will be transmitted to the Permittees for verification. . Prior to the first shipment of containers from the approved waste stream, the approved WSPF and accompanying CIS will be provided to the New Mexico Environment Department (NMED).

If discrepancies regarding hazardous waste number (HWN) assignment or waste matrix code designation arise as a result of the WIPP WSPF review, the DOE Site will be contacted and required to provide the necessary additional information to resolve the discrepancy before that waste stream is approved for disposal at the WIPP facility. The Permittees will notify NMED of any discrepancies identified during WSPF Review and the resulting discrepancy resolution prior to waste shipment. Containers from the waste stream will not be managed, stored, or disposed of until this discrepancy is resolved in accordance with the WAP (WAP Section C-5a).

2.1 Transmittal From DOE Site to the Permittees

The WSPF and the CIS for the waste stream shall be transmitted to the Permittees from the DOE Site.

To implement this requirement, sites will transmit each WSPF electronically to site.documents@wipp.ws.

2.2 Distribution From the Carlsbad Field Office to Regulatory Environmental Services

Carlsbad Field Office (CBFO) and designated WIPP contractor personnel who are responsible for distributing documents that are electronically submitted to the CBFO by the DOE Sites will forward the WSPF submittal to Regulatory Environmental Services (RES). RES management will designate an individual to coordinate the review. Hereafter, this individual is referred to as the WSPF Review Coordinator.

2.3 Distribution From RES to Reviewers

The WSPF Review Coordinator electronically distributes the WSPF package via email to Nuclear Waste Partnership LLC (NWP) Central Characterization Program Waste Information Tracking Systems (WITS), and designated Technical Specialists for review. The coordinator should verify that each team member received the WSPF package to be reviewed.

The reviews of WSPF packages will be conducted using a document review record (DRR) form (e.g., CBFO Form 4.2-2). WSPF packages are reviewed by RES, NWP, and others on behalf of the Permittees.

3.0 REVIEW OF THE WASTE STREAM PROFILE FORM

Reviewers will compare the radiographic and visual examination (VE) data obtained subsequent to submittal and approval of the WSPF with characterization information presented in the WSPF package. If the reviewers determine (through the data comparison) that the characterization information is adequate, the WSPF will be approved. If the data comparison indicates that analyzed containers have hazardous wastes not present on the WSPF, or a different waste matrix code applies, the WSPF is in error and shall be resubmitted.

For waste streams that do not have an AK Sufficiency Determination approved by the Permittees, the verification of waste stream will be performed by reviewing the Waste Data System (WDS) data for consistency with the WSPF package. Information contained in the AK Summary must indicate if the waste has been checked for the characteristics of ignitability, corrosivity, and reactivity. The final verification of waste compatibility will be performed using WDS.

Each reviewer performs an evaluation of the AK Summary to identify the following:

- Inconsistent presentation of information.
- Information that is deemed irrelevant to characterization of the waste stream.
- If the information presented will require additional reviews due to potential impacts to WIPP, such as safety basis or Compliance Certification Application.

If the information presented in the AK Summary is unclear or leaves any doubt about the waste stream meeting the applicable WIPP requirements, the reviewer will request the DOE Site to clarify the discussion and provide additional objective evidence to justify why the entire waste stream (generated and projected) meets all the WIPP requirements.

Development of a checklist to ensure compliance with the review criteria identified in the sections below will be at the discretion of the department managers and/or the individuals assigned to perform the WSPF review. Reviewers should use the criteria in sections 4.0, 5.0, and 6.0 of this document to perform their reviews and provide results of their evaluations and comments to the WSPF Review Coordinator.

4.0 REVIEW CRITERIA FOR THE DATA ADMINISTRATOR

The WDS includes all of the elements that were implemented in the WIPP Waste Information System (WWIS) to meet regulatory requirements for the operation of WIPP. The WWIS is a subset of the WDS. For waste streams that do not have an AK Sufficiency Determination approved by the Permittees, as part of the waste characterization data submittal, the DOE Site will transmit the data on a container basis

to the WDS. This data submittal can occur at any time as the data are being collected, but will be complete for each container prior to shipment of that container. The initial WSPF check performed by the Permittees will include data submitted by the DOE Site for each container and the CIS. The database provides the waste container data necessary to support the review of the WSPF.

Upon receipt of the WSPF package, or upon notification from the DOE Site, the Data Administrator (DA) will enter the required information into the WSPF Administrative Table that will allow submittal of waste container data by the shipper generator user to the Characterization Module. The DA will update other Administrative Tables that may be applicable to the waste stream, as required, to facilitate successful data submittal to the database. If the container data have not been submitted to the database, the DA will notify the WSPF Review Coordinator. The DA performs a data query and supplies the output data to the WSPF Review Coordinator and any other reviewer who requests it. The DA uses the WSPF and the CIS reports to perform the review of the WSPF package. The waste container data reports for each waste stream are provided to the WSPF Review Coordinator for inclusion in the operating record file.

At a minimum, the DA performs the following verification checks for each container submitted to the database:

- Verify that the Generator Site U.S. Environmental Protection Agency (EPA) identification (ID) on the WSPF matches the data in the Sites Reference Table.
- Verify that the Container ID numbers reported on the Correlation to Batch Data Report Form in the CIS have been reported to the database.
- Verify that the EPA HWNs reported on the WSPF match the HWNs reported to the database.
- Verify that the waste material parameters shown on the WSPF aligns with the waste material parameters reported to the database.
- Verify that the waste stream ID numbers (from the *Annual Transuranic Waste Inventory Report* [DOE/TRU-09-3425]) match the BIR ID numbers reported to the database.
- Verify that the assay methods and characterization methods identified in the most recent CBFO certification letter correlate with container data submitted to the database.

5.0 CRITERIA FOR RCRA REVIEW OF WSPF PACKAGES

The RCRA reviewer performs a review of the WSPF, the CIS, and the AK Summary applicable to the waste stream in accordance with this document. RCRA reviewers may use the waste container data from the database, when needed, to perform the review of the WSPF package. In accordance with RES instructions and procedures, the RCRA reviewer will verify that information submitted in the WSPF package meets the applicable requirements of the WAP and applicable portions of Title 40 *Code of Federal Regulations* (CFR) Part 261, "Identification and Listing of Hazardous Waste."

At a minimum, the RCRA reviewer should perform the following evaluations:

- Verify that the applicable requirements of the TDSF WAC have been met, the ten WIPP-tracked radionuclides are discussed or listed, and the two most prevalent TRU radionuclides (Contact-Handled waste only) are identified.

- If the waste stream includes polychlorinated biphenyls (PCBs), verify that the generator site is authorized to ship PCB-containing wastes to the WIPP.

- Verify that the WSPF, CIS, and other requested information are complete and accurate, (Information required by the HWFP is specified in Attachment C3, Sections C3-6b(1) and C3-6b(2), and Section C3-6b(3).) and other required/requested information has been provided by the DOE Site.

- Examine the assignment of the waste stream description, Waste Matrix Code Group, and Summary Category Group, the results of waste analyses (as applicable), the acceptable knowledge summary documentation, the methods used for characterization, the CBFO certification, and appropriate designation of EPA HWNs.

- Review the CIS to verify that the waste has been classified correctly with respect to assignment of HWNs.

- Verify that the AK Summary is complete and that the summary category group and the waste matrix code group on the WSPF are supported by the waste stream name and the AK Summary description.

- Verify that the EPA HWNs listed on the WSPF are consistent with the HWNs discussed in the AK Summary.

- Verify that the AK Summary adequately indicates that the waste has been checked for the characteristics of ignitability, corrosivity, and reactivity, and that justifications for not adding D001, D002, and D003 EPA HWNs are included. Verify that the justifications are defensible and technically correct.

- Verify that the AK Summary provides adequate justification for assignment of EPA HWNs and that the justifications are supported with technically correct AK information.

- Verify that the EPA HWNs listed on the WSPF are as identified/permitted in the HWFP Attachment C, Table C-5.

- If any waste stream is assigned the EPA HWN U134 (hydrofluoric acid), verify that an indication has been provided in the CIS that no liquid is present in the waste.

- Verify, when applicable, that the VE/Real-Time Radiography Summary (Exclusion of Prohibited Items) documents the absence of prohibited items.

- Verify, when applicable, that the initial site certification letter for the summary category group has been issued by the CBFO and that recertification dates are valid.

- Review the most current CBFO certification letter to verify that processes listed under Certification Program Status cover the waste stream and the procedures that are either described or listed in the WSPF package.

- Verify that the cover sheet of the Waste Container Data report printout is signed and dated.

6.0 CRITERIA FOR TRANSPORTATION REVIEW OF WSPF PACKAGES

The NWP Packaging Implementation and Technical Support group will review the transportation aspects of WSPF including chemical compatibility, gas generation, isotopic inventory, and nuclear safety. The NWP Packaging Implementation and Technical Support group will also review the WSPFs to ensure that the waste described meets the identified Transuranic Content (TRUCON) Code(s) (DOE/WIPP-01-3194, *CH-TRU Waste Content Codes [CH-TRUCON]*; DOE/WIPP-90-045, *Remote-Handled Transuranic Content Codes [RH-TRUCON]*; or DOE/WIPP-11-3458, *TRUPACT-III Content Codes* [TRUCON-III]). When applicable, NWP Transportation Payload Engineers will assist the sites with revisions to current TRUCON Codes.

At a minimum, transportation will perform the following:

- Verify that the waste described in the WSPF Package meets the identified CH-TRUCON, RH-TRUCON, and TRUPACT-III (TRUCON-III) TRUCON Code(s).

- Review the WSPF for isotopic information and packaging materials/waste components including the presence of reflectors or moderators that have nuclear safety implications.

- Review the WSPF for applicable shipping category(ies), if necessary.

- Review the WSPF for chemical consistency with the TRUCON Code(s).

- Review the WSPFs that include tritium isotopic waste to ensure a thermal wattage evaluation is completed and in compliance with the TRAMPAC (TRUPACT-II Authorized Methods for Payload Control).

- Review the WSPF for other transportation related requirements, as necessary.

- Verify that the WSPF documents the absence of prohibited items related to payload compliance.

- If the waste stream contains residual amounts of beryllium, verify that the AK Summary provides a conclusion that the waste stream contains <1% beryllium by weight. If the waste stream contains >1% beryllium by weight, verify that the AK Summary provides a conclusion that the waste stream contains >1% beryllium by weight and verify that a TRUCON Code has been developed and approved that limits the waste containers to the appropriate Fissile Gram Equivalent limit per applicable TRAMPAC document.

- If the WSPF or the supporting acceptable knowledge documentation describes the presence of carbon, deuterium, magnesium oxide, and/or depleted uranium in quantities >1% by weight, ensure that the TRUCON code assignment and waste stream combination has been evaluated to determine that the material is incapable of acting as a special reflector. If it is determined that these materials are capable of acting as such in the waste form, the WSPF describing the waste cannot be approved.

7.0 COLLECTION, EVALUATION, CONSOLIDATION, AND TRANSMITTAL OF WSPF REVIEW COMMENTS

7.1 Collection, Evaluation, and Consolidation of WSPF Review Comments

On or after the established due date for transmittal of comments to the DOE Site, the WSPF Review Coordinator collects comments from all reviewers.

The WSPF Review Coordinator evaluates all comments for validity and clarity.

The WSPF Review Coordinator may recommend removal of any comment found to be not applicable (e.g., the comment is addressed elsewhere, is in error, or the information is not required).

The WSPF Review Coordinator may reword or reformat comments that will not provide an appropriate level of clarity to be properly addressed by the DOE Site.

The WSPF Review Coordinator may combine similar comments into one.

When a comment is reworded, reformatted, or removed, the WSPF Review Coordinator will notify the reviewer. Alternatively, if comments are identified that require removal or rework, the WSPF Review Coordinator may schedule and conduct a meeting with the review team members to discuss the comments.

If there are no comments from any of the reviewers, a DRR stating that there were no comments will be developed and transmitted to the authorized approving manager along with the WSPF package.

7.2 Transmittal of Comments

The WSPF Review Coordinator will transmit the comments to the DOE Site electronically via site.documents@wipp.ws.

7.3 Comment Resolution

A teleconference may be scheduled to discuss the comments with the DOE Site. The review team, NWP management, RES management, and CBFO personnel may be invited to participate in review meetings or teleconferences. If the review team is made aware of any programmatic schedule issues that may arise from the need to develop extensive changes to the WSPF package, NWP, and RES management will be notified.

Upon receipt of comment resolutions and a revised WSPF package that incorporates resolutions to the comments, the WSPF Review Coordinator will obtain concurrence from each reviewer that each comment has been adequately resolved.

In cases where a comment that is also defined as a discrepancy is not resolved to the satisfaction of the review team, a recommendation(s) may be provided to RES management to impose restrictions that are applicable to the unresolved discrepancy in the approval letter for the waste stream. Such restrictions may allow only a portion of the containers from a waste stream to be certified and shipped until such time that the discrepancy is resolved.

7.4 Acceptance of Approved WSPF

Prior to the first shipment of containers from the approved waste stream, the Permittees will provide copies of the approved WSPF and accompanying CIS to the NMED. Upon written notification of approval of the WSPF by the Permittees, the DOE Site is authorized to ship waste to WIPP. Upon receipt of the Permittees' approval letter for the waste stream, the DA enters the approval date into the WSPF Administrative Table, which causes the database to recognize the approved waste stream profile number. This allows the shipper generator WDS user to submit certification data to the WDS for waste containers from the approved waste stream and subsequently allows DA approval of certified container data prior to shipment of containers from the approved waste stream.

8.0 REVIEW OF CHANGE NOTICES AND REVISIONS TO WSPF PACKAGES

When a DOE Site needs to make administrative changes to an approved WSPF package, they shall submit a "Change Notice" or a revised WSPF package to site.documents@wipp.ws. Changes that could affect data quality must be submitted as a new revision to the approved WSPF and shall undergo the same review as the original package.

8.1 Examples of Administrative Changes

Examples of administrative changes include, but are not limited to, the following:

- Changes to add or change material parameter weight estimates per unit of waste and the method for determining waste material parameter weights per unit of waste.
- Changes to a waste matrix code that encompasses the code in the approved WSPF (e.g., change S5410 to S5400).
- Revisions to estimated numbers of waste containers.
- Applicable TRUCON Codes (i.e., addition of new packaging configurations to existing TRUCON Codes that have been approved and have no impact to chemical compatibility as applicable to characterization, shipment or disposal of the waste).
- Changes to the AK Summary that have no impact related to RCRA characterization of the waste, generation processes, and radionuclide information as presented in the approved WSPF package.

8.2 Distribution and Review of Change Notices or Revisions to WSPF Packages

Upon receipt of a Change Notice or WSPF package revision, the WSPF Review Coordinator or designee will provide both the approved WSPF package and the change notice or revision to the designated reviewers. Change notices will be reviewed using the following steps:

- The reviewers will perform a comparison of the described changes with the approved WSPF package.
- The reviewers will verify that each administrative change, as described in the change notice, does not qualify as a data quality-affecting change that requires a revision to the WSPF package.
- The reviewers will verify that the DOE Site has provided a reason for each administrative change with justification as to why a new WSPF package or a revision to the approved package should not be required.
- The reviewers will assess the impacts, if any, that the change(s) will have to the approved characterization information and conclude that the requested change(s) do not create a discrepancy that is directly related to information contained in the approved WSPF package.
- The reviewers will verify that the DOE Site has provided the certification statement.

WSPF package revisions will be reviewed in accordance with the requirements for WSPF package review in this document.

8.3 Approval of Change Notices

If the information contained in the Change Notice is complete and meets all of the applicable criteria for an administrative change, the Permittees will provide written notification to the DOE site, and the documentation will be provided to Site Environmental Compliance for inclusion in the operating record file.

If the Change Notice is determined to be data quality affecting, refer to Section 8.4.

8.4 Data Quality Affecting Changes and Revisions to WSPF Packages

If it is determined that the requested change(s) to a WSPF is data quality affecting in nature, the WSPF Review Coordinator will notify the DOE Site to prepare a revision to the WSPF package and resubmit the entire package to the Permittees for distribution to the WSPF reviewers.

Examples of data quality-affecting changes include, but are not limited to, the following:

- Waste Matrix Code Group designation
- Significant Changes to the CIS
- Changes to the AK Summary that have impact related to RCRA characterization of the waste, changes in generation processes, and radionuclide information as presented in the approved WSPF package
- Addition of EPA HWNs

9.0 RECORDS MANAGEMENT

Implementation of this process will generate the following records that are compiled in a file by the WSPF Review Coordinator:

- WSPF
- CIS (including a complete AK Summary)
- WDS Waste Container Data Reports, if applicable
- A consolidated list of review comments and comment resolutions
- Waste Stream Characterization Package (when requested) and any additional documentation requested for completion of the WSPF package review
- Letter to the DOE Site indicating approval of the WSPF package
- Transmittal letter to the NMED

When the file is complete, it will be forwarded to Site Environmental Compliance maintained in the WIPP facility operating record, and be available for inspection by the NMED. These records from submittals of WSPF packages and from performance of WSPF reviews will be retained in accordance with the Site Environmental Compliance Records Inventory and Disposition Schedule.

REFERENCES	
DOCUMENT NUMBER AND TITLE	KEY STEP
Hazardous Waste Facility Permit, EPA Identification No. NM4890139088, Attachment C, Waste Analysis Plan, applicable sections	
Title 40 *Code of Federal Regulations* Part 261, *Identification and Listing of Hazardous Waste*, applicable sections	
DOE/WIPP-90-045, *Remote-Handled Transuranic Waste Content Codes*	
DOE/WIPP-01-3194, *CH-TRU Waste Content Codes*	
DOE/WIPP-02-3122, *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*	**1**
DOE/WIPP-09-3452, *Annual Transuranic Waste Inventory Report – 2009*	
WP 15-PS3002, *Controlled Document Processing*	

2013 WIPP Inspection Items: NMED Request Description
Initial Date of Inspection September 11-12, 2013

14.a **Provide monitoring data, calculations, and any records that demonstrate compliance for the decay heat limit found in the Permit, Section A2-1, *"The thermal loading from RH TRU mixed waste shall not exceed 10 kilowatts per acre when averaged over the area of a panel, as shown in Permit Attachment A3, plus 100 feet of each of a Panel's adjoining barrier pillars."* The compliance dates are for the most recent annual summary of total decay heat for waste emplaced at WIPP. [2 pages].**

Response to Item 14 from the 2013 NMED WIPP Facility Inspection (September 11-12, 2013)

Panel	Decay Heat plus Uncertainty for RH TRU Mixed Waste (watts)[1]	Actual Kilowatts per Acre for a Panel[1]
1	N/A	N/A
2	N/A	N/A
3	N/A	N/A
4	10.63	6.65E-04
5	268.62	1.68E-02
6	246.04	1.54E-02

[1] The decay heat plus uncertainty was not available for Panels 1 through 3 because there was no remote-handled transuranic mixed waste disposed of in those panels.

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