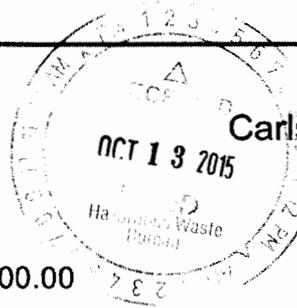


United States Government

Department of Energy

memorandum

 Carlsbad Field Office
 Carlsbad, New Mexico 88221


DATE: OCT 13 2015

 REPLY TO
 ATTN OF: CBFO:TSTD:JRS:PG:15-1103:UFC 5900.00

SUBJECT: Expansion to the INL-CCP Recertification Audit A-13-18 to Include the EPA Tier 1 Approval to Add the Product Drums Generated from Liner R-3 Remote-Handled Waste Stream ID-HFEF-S5400-RH (Lot 5C)

 TO: Mr. Benjamine Roberts, DOE-ID
 Mr. Philip Breidenbach, President and Project Manager, Nuclear Waste Partnership LLC

The Carlsbad Field Office (CBFO) is expanding the current recertification memorandum CBFO:TSTD:JRS:GL:14-1997:UFC 5900.00 dated October 2, 2014 of the Central Characterization Program (CCP) transuranic (TRU) waste program deployed at the Idaho National Laboratory (INL) (hereinafter referred to INL-CCP) to reflect the U.S. Environmental Protection Agency (EPA) Tier 1 approval to add the product drums generated from Liner R-3 of the already approved Waste Stream ID-HFEF-S5400-RH (Lot 5C), DOCKET NO: A-98-49; II-A4-198.

TRU waste characterization, certification, or transportation using significantly revised or new processes, procedures, or systems must be evaluated by the CBFO prior to their implementation. Included in this memo are the following attachments:

- *Attachment 1* describes the CCP certification program status;
- *Attachment 2* contains the list of processes/equipment from Table 1 and 2 of this memorandum certified at this site;
- *Attachment 3* contains the list of the CCP-certified procedures/documents; and
- *Attachment 4* describes specific CCP waste characterization process elements that must be reported to the EPA. These process elements are identified as Tier 1 changes and Tier 2 changes. The INL-CCP shall not ship for disposal at the WIPP any wastes affected by a Tier 1 process element change without prior CBFO approval, and the CCP shall report Tier 2 changes to the CBFO on a quarterly basis.

If you have any questions, please contact Mr. J.R. Stroble, Director, CBFO TRU Sites and Transportation Division, at (575) 234-7313.

 Todd A. Shrader, Manager
 Carlsbad Field Office

For Todd A. Shrader

Attachments (4)

151009



OCT 13 2015

cc: w/attachments

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E. Feltcorn, EPA	ED	R. Romo, NWP	ED
R. Joglekar, EPA	ED	P. Schilling Davis, NWP	ED
T. Peake, EPA	ED	C. Simmons, NWP	ED
S. Holmes, NMED	ED	F. Sharif, NWP	ED
J. Kieling, NMED	ED	D. Stegman, NWP	ED
R. Maestas, NMED	ED	M. Strum, NWP	ED
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J. Britain, NWP	ED	P. Hinojos, CTAC	ED
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B. Carlsen, NWP	ED	B. Pace, CTAC	ED
J. Carter, NWP	ED	G. White, CTAC	ED
R. Chavez, NWP	ED	M. Carter, LANL	ED
D. Cook, NWP	ED	P. Gilbert, LANL	ED
A.J. Fisher, NWP	ED	G. Lyshik, LANL	ED
R. Galbraith, NWP	ED	W. Weyerman, LANL	ED
E. Gulbransen, NWP	ED	S. Percy, TFE, Inc.	ED
J. Harvill, NWP	ED	WIPP Operating Record	ED
J. Haschets, NWP	ED	CBFO M&RC	

*ED denotes electronic distribution

Table 1						
INL-CCP CH Certified Waste Characterization Processes						
Characterization Process³	CH S3000 Homogeneous Solids		CH S4000 Soils/gravel		CH S5000 Debris	
	Newly-Generated	Retrievably-Stored	Newly-Generated	Retrievably-Stored	Newly-Generated	Retrievably-Stored
Acceptable Knowledge	APPROVED	APPROVED	APPROVED	N/A	APPROVED	APPROVED
Load Management	APPROVED ¹	APPROVED ¹	APPROVED	N/A	APPROVED ¹	APPROVED ¹
Data Validation & Verification	APPROVED	APPROVED	APPROVED	N/A	APPROVED	APPROVED
Visual Examination ²	APPROVED	APPROVED	APPROVED	N/A	APPROVED	N/A
Nondestructive Assay	APPROVED	APPROVED	APPROVED	N/A	APPROVED	APPROVED
Real-time Radiography	N/A	APPROVED	N/A	N/A	N/A	APPROVED
Dose-to-Curie	N/A	N/A	N/A	N/A	N/A	N/A
WIPP Data System	APPROVED	APPROVED	APPROVED	N/A	APPROVED	APPROVED

¹ Debris and solid waste from AMWTP characterized by INL-CCP may not be load managed with waste characterized by the AMWTP contractor. (Exception – new waste stream "S3000" will be made up of a mix of "ID-RF-S3114" and "BNINW216", which are approved for load management. "S3000" is approved for load management.)

² VE of Record is not approved by NMED based on August 4, 2009 letter based on A-09-08.

³ Characterization Processes in this Table may not be completely listed in Attachment 2.
 EPA CH Baseline approval on November 1, 2005. DOCKET NO: A-98-49; II-A4-59.
 Tier 1 approval of the HENC on November 16, 2005, DOCKET NO: A-98;49; II-A4-60.
 Tier 1 approval of VE as a QC Check for RTR on November 16, 2005, DOCKET NO: A-98-49; II-A4-61.
 Tier 1 approval of Pit 4 and Pit 6 (ARP-I and ARP-II) waste on August 3, 2006 & December 5, 2006, DOCKET NO: A-98-49; II-A4-67 and DOCKET NO: A-98-49; II-A4-71.
 Tier 1 approval of SuperHENC on February 28, 2007, DOCKET NO: A-98-49; II-A4-86.
 Tier 1 approval of Multi-Curve Efficiency Calibration for the WAGS on October 7, 2008; DOCKET NO: A-98-49; II-A4-107.
 Tier 1 approval of VE by Review of Waste Packaging Audio/Visual Recordings on March 4, 2009. DOCKET NO: A-98-49; II-A4-110.
 Tier 1 approval of recalibration of the HENC on September 22, 2009, DOCKET NO: A-98-49; II-A4-119.
 Tier 1 approval of supplemental calibration for the WAGS to allow filters on June 23, 2011, DOCKET NO: A-98-49; II-A4-150.
 Tier 1 approval of recalibration of the SGRS on February 26, 2013, DOCKET NO: A-98-49; II-A4-172.

Table 2 INL-CCP RH Certified Waste Characterization Processes						
Characterization Process¹	RH S3000 Homogeneous Solids		RH S4000 Soils/gravel		RH S5000 Debris	
	Newly-Generated	Retrievably-Stored	Newly-Generated	Retrievably-Stored	Newly-Generated	Retrievably-Stored
Acceptable Knowledge	N/A	APPROVED	N/A	N/A	N/A	APPROVED
Load Management	N/A	N/A	N/A	N/A	N/A	APPROVED
Data Validation & Verification	N/A	APPROVED	N/A	N/A	N/A	APPROVED
Visual Examination ²	N/A	APPROVED ³	N/A	N/A	APPROVED ³	APPROVED ^{1,3}
Nondestructive Assay	N/A	N/A	N/A	N/A	N/A	N/A
Real-time Radiography	N/A	APPROVED	N/A	N/A	N/A	APPROVED
Dose-to-Curie	N/A	APPROVED	N/A	N/A	N/A	APPROVED
WIPP Data System	N/A	APPROVED	N/A	N/A	N/A	APPROVED

¹ Tier 1 EPA Approval of VE of audio/video media process used for a total of 70 retrievably-stored RH debris waste drums included in batch data reports (BDRs) RHINLVE060001, RHINLVE060002, RHINLVE060003, and RHINLVE060004 on January 25, 2007, DOCKET NO: A-98-49; II-A4-75.

² VE of Record is not approved by NMED based on August 4, 2009 letter based on A-09-08.

³ Tier 1 EPA approval of visual examination technique (VET) on September 22, 2009, DOCKET NO: A-98-49; II-A4-118.

⁴ Characterization Processes in this table may not be completely listed in Attachment 2.

Tier 1 EPA approval for RH Baseline on January 12, 2007, DOCKET NO: A-98-49; II-A4-72.

Tier 1 EPA approval of WWIS on January 17, 2007, DOCKET NO: -A-98-49; II-A4-74.

Tier 1 EPA approval of K-Cell Waste to Waste Stream ID-ANLE-S5000 on January 1, 2008, DOCKET NO: A-98-49; II-A4-97.

Tier 1 EPA approval of High-Range Gamma Probe for DTC on April 11, 2008, DOCKET NO: A-98-49; II-A4-98.

Tier 1 EPA approvals of Waste Stream ID-ANLE-S5000 (12 containers) and Waste Stream ID-HFEF-S5400-RH, (Lot 1A) on February 1, 2010, DOCKET NO: A-98-49; II-A4-122.

Tier 1 EPA approval of Waste Stream ID-MFC-S5400-RH on June 8, 2010, DOCKET NO: A-98-49; II-A4-126.

Tier 1 EPA approval of Waste Stream ID-INTEC-5400-RH on August 17, 2010, DOCKET NO: A-98-49; II-A4-130.

Tier 1 EPA approval of Lot 1B to Waste Stream ID-HFEF-S5400-RH on August 23 2010, DOCKET NO: A-98-49; II-A4-131.

Tier 1 EPA approval of IN-ID-NRF-153 on November 1, 2010, DOCKET NO: A-98-49; II-A4-135.

Tier 1 EPA approval of ID-RTC-S3000 on November 1, 2010, DOCKET NO: A-98-49; II-A4-137.

Tier 1 EPA approval of Waste Stream ID-HFEF-S5400-RH (Lot 4A) on March 23, 2011, DOCKET NO: A-98-49; II-A4-145.

Tier 1 EPA approval of Waste Stream IN-ID-NRF-SPC on March 12, 2012, DOCKET NO: A-98-49; II-A4-159.

Tier 1 EPA approval of Lot 2 to Waste Stream ID-ANLE-S5000 on July 25, 2012, DOCKET NO: A-98-49; II-A4-163.

Tier 1 EPA approval of Waste Stream ID-EBR-S5000 (Lot 5B) on April 16, 2014, DOCKET NO: A-98-49; II-A4-183.

Tier 1 EPA approval of Lot 5C to Waste Stream ID-HFEF-S5400-RH on July 15, 2014, DOCKET NO: A-98-49; II-A4-185.

Tier 1 EPA approval of the RH 55-gallon containers from Waste Stream ID-MFC-SOLID-RH (Lot 5A) on September 10, 2014, DOCKET NO: A-98-49; II-A4-188.

Tier 1 EPA approval of ID-TRA-W345-RH (Lot 8B) on November 5, 2014, DOCKET NO: A-98-49; II-A4-194.

Tier 1 EPA approval of IN-ID-BTO0030 (Lot 3) on November 10, 2014, DOCKET NO: A-98-49; II-A4-191.

Tier 1 approval to add the product drums generated from Liner R-3 of the already approved Waste Stream ID-HFEF-S5400-RH (Lot 5C).

CENTRAL CHARACTERIZATION PROGRAM AT IDAHO NATIONAL LABORATORY CERTIFICATION PROGRAM STATUS

The CBFO Director of the TRU Sites and Transportation Division and the CBFO Director of the Quality Assurance Division have evaluated the documentation supporting the compliance of the Central Characterization Program (CCP) TRU waste program deployed at the Idaho National Laboratory (INL) (hereinafter referred to as INL-CCP).

PROGRAM STATUS

- All program elements remain complete.
- The following site program documents are current and comply with the CBFO requirements*:
 - **CCP-PO-001, Revision 21 - CCP Transuranic Waste Characterization Quality Assurance Project Plan**
Memorandum CBFO:NTP:JRS:PG:13-0487:UFC 5900.00 approved April 17, 2013;
 - **CCP-PO-002, Revision 27, CCP Transuranic Waste Certification Plan**
Memorandum CBFO:NTP:JRS:PG:13-0593:UFC 5900.00 dated May 31, 2013;
 - **CCP-PO-003, Revision 13, CCP Transuranic Authorized Methods for Payload Control**
Memorandum CBFO:NTP:JRS:GL:13-0671:UFC:5900.00 approved July 29, 2013;
and
 - **CCP-PO-505, Revision 3, CCP Remote-Handled Transuranic Waste Authorized Methods for Payload Control**
Memorandum CBFO:NTP:JRS:GL:14-1860:UFC 5900.00 approved March 5, 2014.

***Note that the program documents listed above are the current revision and may not be the revision that was audited.**

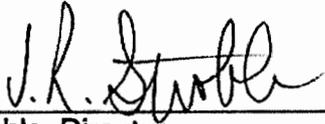
- Certified Systems – see Attachment 2 List of the Processes/Equipment certified and used by the CCP at the INL from Table's 1 and 2 of this Memorandum.
- Standard Operating Procedures – see Attachment 3 for the complete list of certified procedures/documents used by the CCP at the INL.
- Tiering of CH and RH TRU Waste Characterization Processes – see Attachment 4 for the implementation by the CCP at the INL (based on EPA Baseline Inspections).

- CCP participated in the following performance demonstration programs (PDPs)*:
 - **NDA PDP – Cycle 21A approval** for radioassay of WIPP wastes contained in TRU waste drums using the WAGS (IN03/ING2) and the SGRS (IN04/ING3).
Memorandum CBFO:NTP:NC:MN:14-1953:UFC 5900.00 dated July 11, 2014.
 - **NDA PDP - Cycle B13A approval** for radioassay of TRU waste contained in standard waste boxes using the SuperHENC (IN05/INN2).
Memorandum CBFO:NTP:MB:CC:13-0770:UFC 5900.00 dated October 28, 2013.
- *Note that the PDP cycles listed above are the current revision and may not be the revision that was audited.**
- CBFO conducted Recertification Audit A-13-18 of the INL-CCP on June 3-6, 2013.
 - The Interim Audit Report was issued on June 28, 2013.
 - The Final Audit Report was issued to NMED on November 19, 2013.
 - The NMED approval was issued on January 6, 2014.
 - The EPA provided concurrence on February 27, 2014.
 - CBFO conducted Audit A-14-10 on March 25-27, 2014 of the CCP Quality Assurance Program.
 - CAR 14-030 – 14-036 were issued on April 7, 2014
 - CAR 14-031 was closed on June 24, 2014
 - CARs 14-032 and 14-033 closed on August 2014
 - CAR 14-034 was closed on May 28, 2014
 - CAR 14-035 was closed on May 15, 2014
 - CAR 14-036 was closed on June 2014
 - The Audit Report was issued on April 29, 2014
 - CBFO conducted Audit A-15-07 on January 20-25, 2015 of the CCP transportation activities for all generator sites.
 - The Audit Report was issued on February 18, 2015
 - CBFO requested a Tier 1 change request to evaluate the characterization of product drums generated from Liner R-3 of Waste Stream ID-HFEF-S5400-RH (Lot 5C).
 - The EPA provided approval on September 8, 2015, DOCKET NO: A-98-49; II-A4-198.
 - EPA issued concurrence on the draft recertification memo to add the product drums generated from Liner R-3 of Waste Stream ID-HFEF-S5400-RH (Lot 5C) on September 30, 2015.

RECOMMENDATION

The recommendation to the CBFO Manager is for CCP at the INL to include the EPA Tier 1 approval adding the product drums generated from Liner R-3 of the already approved Waste Stream ID-HFEF-S5400-RH (Lot 5C) and to continue the authority for TRU waste characterization, certification, and transportation activities of Contact-Handled and Remote-Handled Summary Category Groups S3000 homogeneous solids, S4000 soils/gravel, and S5000 debris waste. Attachments 2 and 3 list the systems and procedures that constitute the bounds of this authority. Attachment 4 is the CH and RH Tiering of TRU Waste Characterization Processes implemented by the CCP at the INL.

CONCURRENCE



J. R. Stroble, Director
CBFO TRU Sites and Transportation Division

9-24-15

Date



Mike Brown, Director
CBFO Quality Assurance Division

9-28-15

Date

CENTRAL CHARACTERIZATION PROGRAM					
List of Processes/Equipment Certified from Table's 1 and 2 of the Memo at Idaho National Laboratories					
WDS Method ID #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated and TMU
Non-Destructive Assay					
14SHC1	SuperHENC	Super High Efficiency Neutron Counter (SuperHENC) Operating Procedure CCP-TP-146 SWBs, 55 gallon drums, 100 gallon drums	<ul style="list-style-type: none"> • HPGe Detector • (260) ³He Tubes • Neutron Assay Chamber • Gamma Assay Area with rotator • Cf-252 add-a-source assembly 	<ul style="list-style-type: none"> • SUPRHENC.EXE • PC-FRAM (fixed energy response-function analysis with multiple efficiencies) • MAESTRO • Neutron Gamma Integration (NGI) • SuperHENC_QC.xls 	The calibration of the SuperHENC is documented in BII-5221-SRF-001, "SUPERHENC RFETS Calibration Documentation Package" and BII-5221-CVR-001, "Calibration and Validation Report SuperHENC Mobile Assay System." The TMU for the SuperHENC is documented in BII-5221-CVR-001, Section 4.11.
14WAGS1	WAGS	Waste Assay Gamma Spectrometer (WAGS) Quantitative gamma acquisition system with transmission matrix corrections, multi curve density and gamma isotopic capabilities. Operating Procedure CCP-TP-019 55 gallon drums	<ul style="list-style-type: none"> • 6 BeGe detectors • Shielded Assay Chamber • 3 Ba-133 transmission sources • 6 Digital Spectrum Analyzers 1000 • Pulser 	<ul style="list-style-type: none"> • NDA 2000, Version 4.0 (MGA.exe and MGA-U.exe are tracked as part of NDA 2000) • Genie 2000, Version 3.0 	Calibration for the WAGS is discussed in CCP-INL-WAGS-001, Revision 1 and CCP-INL-WAGS-003, Revision 0. For the WAGS the calibrated range and operational ranges are synonymous. CCP-INL-WAGS-08-002, "Waste Assay Gamma Spectrometer Multi-Curve Efficiency Calibration Extension Addendum" extends the density range. The TMU for the WAGS is documented in CCP-INL-WAGS-002, "Total Measurement Uncertainty for the WAGS System."
14SGRS1	SWEPP SGRS	Stored Waste Examination Pilot Plant (SWEPP) Gamma Ray Spectrometer (SGRS) Quantitative gamma acquisition system with multi-curve density and gamma isotopic capabilities. Operating Procedure CCP-TP-115 55 gallon drums	<ul style="list-style-type: none"> • 4 BeGe detectors • Shielded Assay Chamber • 1 Pulser • 4 Digital Spectrum Analyzers 	<ul style="list-style-type: none"> • NDA 2000, Version 4.0 (MGA.exe and MGA-U.exe are tracked as part of NDA 2000) • Genie 2000, Version 3.0 	The calibration for the SGRS is discussed in CCP-INL-SGRS-001, Revision 1. For the SGRS the calibrated range and operational ranges are synonymous. The TMU for the SGRS is documented in CCP-INL-SGRS-0002, "Total Measurement Uncertainty for the SGRS System."

CENTRAL CHARACTERIZATION PROGRAM					
List of Processes/Equipment Certified from Table's 1 and 2 of the Memo at Idaho National Laboratories					
WDS Method ID #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated and TMU
Dose-to-Curie					
14DTC1	Dose-to-Curie	Radiological characterization process using dose-to-curie (DTC) and modeling-derived scaling factors for assigning radionuclide values to RH waste streams for which the scaling factors are applicable, as described in the waste stream specific radiological reports. Dose-rate fractional contribution of Cs-137 and Co-60 using OSPREY™ La ₃ Br(Ce) gamma detector Procedure CCP-TP-504	As identified in CCP-TP-504	As identified in CCP-TP-504	N/A
14601C2	CCP-RC-INL-601	Radiological characterization analysis using ORIGEN2.2	As identified in CCP-RC-INL-601	N/A	N/A
14631C3	CCP-RC-INL-631	Radiological characterization neutron dose-to-curie (DTC) method by confirmation	As identified in CCP-RC-INL-631	N/A	N/A
Visual Examination					
14RHVE1	Audio/video review/VE Technique	Visual Examination Technique (VET) to characterize RH TRU SCGs S3000, S4000, and S5000 waste. Procedure CCP-TP-500	N/A	N/A	N/A
14VE1	ARP Packaging Stations	Visual Examination Technique for newly generated waste and repackaging of waste produced from the retrieval of buried waste at the Idaho National Laboratory Procedure CCP-TP-006	N/A	N/A	N/A

CENTRAL CHARACTERIZATION PROGRAM					
List of Processes/Equipment Certified from Table's 1 and 2 of the Memo at Idaho National Laboratories					
WIPP WWIS #	Site Equipment # or Title	Description	Components	Software	NDA Calibrated and TMU
Non-Destructive Examination					
14RR2	MCS RTR-5	Real-time Radiography Mobile Characterization System's RTR-5 [built by VJ Technologies] Procedure CCP-TP-053	<ul style="list-style-type: none"> • Shielded x-ray enclosure with a hydraulic drum loading door and manually opened personnel door • Conveyer cart including drum manipulation equipment • X-ray imaging system including x-ray tube, image intensifier, and video camera • Video/audio recording equipment • Mobile platform 	N/A	N/A
14RRH1	RTR-RTR-0659	Real-time Radiography Characterization System [built by VJ Technologies] Procedure CCP-TP-508	<ul style="list-style-type: none"> • X-ray imaging system including x-ray tube, image intensifier, and video camera • Video/audio recording equipment • Fixed platform 	N/A	N/A

List of Deactivated Equipment			
WIPP #	Site Equipment #	Site Description	Date Deactivated
12HM2	ID 356094	INTEC Lab – Total metals digestion specified in procedure ACMM-8909 (Replaced by 12HM9)	May 2005
12HM1	ID322554	INTEC Lab – Total metals digestion specified in procedure ACMM-8909 (Replaced by 12HM10)	November 2005
14RR1	MCS RTR-2	Real-Time Radiography Mobile Characterization System RTR-2 [built by VJ Technologies] – 55-gallon drums – specified in procedure CCP-TP-102	December 2005
12HA5	SV-2	INTEC Lab – Total semi-volatile organic compounds specified in procedure ACMM-9270	March 2006
12HA11	SV-7	INTEC Lab – Total semi-volatile organic compounds specified in procedure ACMM-9270	June 2006
12HA6	SV-3	INTEC Lab – Total semi-volatile organic compounds specified in procedure ACMM-9270	June 2006
12SS1	W0096-0563-EC-00	Materials and Fuel Complex – Core sampling as specified in procedure HFEF-OI-6910	June 2006
12SS2	W0096-0563-EC-00	Materials and Fuel Complex – Small Container Sampling as specified in procedure HFEF-OI-6923	June 2006
12HE7	GC-5	Environmental Chemistry Lab - Headspace gas hydrogen and methane analysis specified in procedure ACMM-9925	May 2007
12HE8	GC-6	Environmental Chemistry Lab - Headspace gas hydrogen and methane analysis specified in procedure ACMM-9925	May 2007
14TGS1	CCP-TGS-1	CCP Tomographic Gamma Scanner, Tomographic gamma imaging system mounted in transportation container, specified in procedure CCP-TP-097.	March 2008
12HE1	GC/MS-E	ECL Headspace gas volatile organic compounds specified in procedure CCP-TP-175	April 2008
12HE3	GC/MS-G	ECL Headspace gas volatile organic compounds specified in procedure CCP-TP-175	April 2008
12HA9	GC-5	Analytical Laboratory Department (ALD) – Total non-halogenated volatile organic compounds specified in procedure CCP-TP-186, GC-FID (Method described in CCP-TP-186)	September 2009
12HM4	ICP-5	Analytical Laboratory Department (ALD) – Total metals analysis specified in procedure CCP-TP-182, Total metals analysis (ICP-AES) specified in procedure CCP-TP-182	September 2009
12HM7	CVHG-1	Analytical Laboratory Department (ALD) – Total metals (Hg) analysis specified in procedure CCP-TP-181	September 2009
12HA1	VOA-1	Analytical Laboratory Department (ALD) – Total purgable volatile organic compound analysis specified in procedure CCP-TP-184, GC/MS (Method described in CCP-TP-184), Finnigan Magnum	September 2009
12HM3	ICP-4	Analytical Laboratory Department (ALD) – Total metals analysis specified in procedure CCP-TP-182	October 2009
12HE2	GC/MS-F	Environmental Chemistry Lab (ECL) – Headspace gas Volatile organic compounds specified in procedure CCP-TP-175	May 2010
12HE5	GC-1	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-173 PDP ID - GC-1	May 2011
12HE9	GC-7	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure, CCP-TP-173 PDP ID - GC-7	May 2011

List of Deactivated Equipment			
WIPP #	Site Equipment #	Site Description	Date Deactivated
14HENC1	CCP-HENC-01	CCP High Efficiency Neutron Counter combined neutron and gamma system - Operating Procedure CCP-TP-107 55 gallon drums	July 13, 2012
12HE4	GC/MS-H	ECL - Headspace gas volatile organic compounds specified in procedure CCP-TP-175	April 2012
12HE6	GC-2	ECL - Headspace gas volatile organic compounds specified in procedure CCP-TP-173	April 2012
12HE10	GC/MS-I	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-175 PDP ID - GC/MS-I	March 2013
12HE11	GC/MS-J	Environmental Chemistry Lab (ECL) - Headspace gas volatile organic compounds specified in procedure CCP-TP-175 PDP ID - GS/MS-J	March 2013
8HSG2	HSG	SUMMA Sampling process on selected waste containers from waste stream lots.	March 2013
12HA8	VOA-4	Analytical Laboratory Department (ALD) - Total purgable volatile organic compound analysis specified in procedure CCP-TP-184	March 2013
12HA3	GC-1	Analytical Laboratory Department (ALD) - Total non-halogenated volatile organic compounds specified in procedure CCP-TP-186	March 2013
12HA14	GC-6	Analytical Laboratory Department (ALD) - Total non-halogenated volatile organic compounds specified in procedure CCP-TP-186	March 2013
12HA15	GC-7	Analytical Laboratory Department (ALD) - aqueous extractable volatile organic compounds specified in procedure CCP-TP-186	March 2013
12HA10	SV-6	Analytical Laboratory Department (ALD) - Total semi-volatile organic compounds specified in procedure CCP-TP- 185	March 2013
12HA12	SV-8	Analytical Laboratory Department (ALD) - Total semi-volatile organic compounds specified in procedure CCP-TP- 185	March 2013
12HA13	VOA-5	Analytical Laboratory Department (ALD) - Total purgable volatile organic compound analysis specified in procedure CCP-TP-184	March 2013
12HM11	ICP-7	Analytical Laboratory Department (ALD) - Total metals analysis specified in procedure CCP-TP-182	March 2013
12HM13	ICP-8	Analytical Laboratory Department (ALD) - Total metals analysis specified in procedure CCP-TP-182	March 2013
12HM8	CVHG-2	Analytical Laboratory Department (ALD) - Total metals (Hg) analysis specified in procedure CCP-TP-181	March 2013
12HM12	CVHG-3	Analytical Laboratory Department (ALD) - Total metals (Hg) analysis specified in procedure CCP-TP-181	March 2013
12HM9	MW-3	Analytical Laboratory Department (ALD) - Total metals digestion specified in procedure CCP-TP-183	March 2013
12HM10	MW-4	Analytical Laboratory Department (ALD) - Total metals digestion specified in procedure CCP-TP-183	March 2013
12HP1	HPLC-1	Analytical Laboratory Department (ALD) - Determination of Formaldehyde and Hydrazine by High-Performance Liquid Chromatography (HPLC) in procedure CCP-TP-196 and CCP-TP-197	March 2013

CENTRAL CHARACTERIZATION PROGRAM LIST OF CERTIFIED PROCEDURES AT IDAHO NATIONAL LABORATORY		
#	Procedure No.	Procedure Title
1.	CCP-PO-001	CCP Transuranic Waste Characterization Quality Assurance Project Plan
2.	CCP-PO-002	CCP Transuranic Waste Certification Plan
3.	CCP-PO-003	CCP Transuranic Authorized Methods for Payload Control (CCP CH-TRAMPAC)
4.	CCP-PO-005	CCP Conduct of Operations
5.	CCP-PO-006	CCP Conduct of Operations Matrix
6.	CCP-PO-016	CCP Gas Generation Testing Quality Assurance Project Plan
7.	CCP-PO-024	CCP/INL Interface Document
8.	CCP-PO-501	CCP/INL RH TRU Waste Interface Document
9.	CCP-PO-505	CCP Remote-Handled Transuranic Waste Authorized Methods for Payload Control (CCP-RH-TRAMPAC)
10.	CCP-QP-001	CCP Graded Approach
11.	CCP-QP-002	CCP Training and Qualification Plan
12.	CCP-QP-005	CCP TRU Nonconforming Item Reporting and Control
13.	CCP-QP-008	CCP Records Management
14.	CCP-QP-010	CCP Document Preparation, Approval, and Control
15.	CCP-QP-014	CCP Quality Assurance Trend Analysis and Reporting
16.	CCP-QP-015	CCP Procurement
17.	CCP-QP-016	CCP Control of Measuring and Testing Equipment
18.	CCP-QP-017	CCP Identification and Control of Items
19.	CCP-QP-018	CCP Management Assessment
20.	CCP-QP-019	CCP Quality Assurance Reporting to Management
21.	CCP-QP-021	CCP Surveillance Program
22.	CCP-QP-022	CCP Software Quality Assurance Plan
23.	CCP-QP-023	CCP Handling, Storage and Shipping
24.	CCP-QP-026	CCP Inspection Control
25.	CCP-QP-027	CCP Test Control
26.	CCP-QP-028	CCP Records Filing, Inventorying, Scheduling, and Dispositioning
27.	CCP-QP-030	CCP Written Practice for the Qualification of CCP Helium Leak Detection Personnel
28.	CCP-TP-001	CCP Project Level Data Validation and Verification
29.	CCP-TP-002	CCP Reconciliation of DQOs and Reporting Characterization Data
30.	CCP-TP-005	CCP Acceptable Knowledge Documentation
31.	CCP-TP-006	CCP Visual Examination Technique for INL Newly Generated TRU Waste
32.	CCP-TP-008	CCP Solids Sampling Procedure
33.	CCP-TP-010	CCP Waste Assay Gamma Spectrometer (WAGS) & SWEPP Gamma Ray Spectrometer (SRGS) Calibration Procedure
34.	CCP-TP-019	CCP Waste Assay Gamma Spectrometer (WAGS) Operating Procedure
35.	CCP-TP-028	CCP Radiographic Test Drum and Training Container Construction
36.	CCP-TP-030	CCP CH TRU Waste Certification and WWIS/WDS Data Entry
37.	CCP-TP-033	CCP Shipping of CH TRU Waste
38.	CCP-TP-053	CCP Standard Real-Time Radiography (RTR) Inspection Procedure
39.	CCP-TP-054	CCP Adjustable Center of Gravity Lift Fixture Preoperational Checks and Shutdown
40.	CCP-TP-055	CCP Varian Porta-Test Leak Detector Operations
41.	CCP-TP-058	CCP NDA Performance Demonstration Program
42.	CCP-TP-068	CCP Standardized Container Management
43.	CCP-TP-080	CCP Operating the WMF 610 Real-Time Radiography (RTR) System
44.	CCP-TP-082	CCP Waste Container Filter Vent Operation
45.	CCP-TP-083	CCP Gas Generation Testing
46.	CCP-TP-086	CCP CH Packaging Payload Assembly
47.	CCP-TP-107	CCP Operating the High Efficiency Neutron Counter #3 (HENC #3) Using NDA 2000
48.	CCP-TP-108	CCP Calibrating the High Efficiency Neutron Counter #3 (HENC #3) Using NDA 2000
49.	CCP-TP-109	CCP Data Reviewing, Validating, and Reporting Procedure
50.	CCP-TP-113	CCP Standard Contact-Handled Waste Visual Examination
51.	CCP-TP-115	CCP SWEPP Gamma-Ray Spectrometer (SGRS) Operating Procedure
52.	CCP-TP-119	CCP Operating the Real-Time Radiography (RTR) System #5
53.	CCP-TP-138	CCP Execution of Long-Term Objective for the Unified Flammable Gas Test Procedure

CENTRAL CHARACTERIZATION PROGRAM LIST OF CERTIFIED PROCEDURES AT IDAHO NATIONAL LABORATORY		
#	Procedure No.	Procedure Title
54.	CCP-TP-146	CCP SuperHENC Operating Procedure
55.	CCP-TP-148	CCP SuperHENC Data Reviewing, Validating, and Reporting Procedure
56.	CCP-TP-163	CCP Evaluation of Waste Packaging Records for Visual Examination of Records
57.	CCP-TP-170	CCP SuperHENC Calibration Procedure
58.	CCP-TP-500	CCP Remote-Handled Waste Visual Examination
59.	CCP-TP-504	CCP Dose-to-Curie Survey Procedure for Remote-Handled Transuranic Waste
60.	CCP-TP-506	CCP Preparation of the Remote-Handled Transuranic Waste Acceptable Knowledge Characterization Reconciliation Report
61.	CCP-TP-507	CCP Shipping of Remote-Handled Transuranic Waste
62.	CCP-TP-508	CCP RH Standard Real-Time Radiography Inspection Procedure
63.	CCP-TP-509	CCP Remote-Handled Transuranic Container Tracking
64.	CCP-TP-512	CCP Remote-Handled Waste Sampling
65.	CCP-TP-530	CCP RH TRU Waste Certification and WWIS/WDS Data Entry

CENTRAL CHARACTERIZATION PROGRAM LIST OF DEACTIVATED PROCEDURES AT IDAHO NATIONAL LABORATORY			
#	Procedure No.	Procedure Title	Deactivation Date
1.	CCP-PO-025	CCP WIPP/RCRA Field Sampling and Analysis Plan for the Accelerated Retrieval Project for a Described Area within Pit 4	11/16/06
2.	CCP-QP-009	CCP Work Control Process	10/13/06
3.	CCP-TP-090	CCP Headspace Gas Sampling Using the Automated Manifold System	7/31/06
4.	CCP-TP-091	CCP HSG Data Generation and Batch Data Reporting	6/6/06
5.	CCP-TP-097	CCP Operating the CCP Tomographic Gamma Scanner (TGS)	3/12/08
6.	CCP-TP-110	Setup and Calibration of the CCP Tomographic Gamma Scanner (TGS)	3/12/08
7.	CCP-TP-112	CCP Data Reviewing, Validating, and Reporting for the TGS	3/12/08
8.	CCP-TP-102	CCP RTR #2 Radiography Inspection Operating Procedure – incorporated into CCP-TP-053	11/16/06
9.	HFEF-OI-6862	TWCP Sample Storage and Shipment	6/6/06
10.	HFEF-OI-6890	TWCP Visual Examination	6/6/06
11.	HFEF-OI-6910	TWCP Core Drilling Operations	6/6/06
12.	HFEF-OI-6921	TWCP Solid Sample Preparation	6/6/06
13.	HFEF-OI-6923	Small Container Sample Preparation	6/6/06
14.	NT-AP-03	TRU Waste Characterization Program Data Generation-Level Review	6/6/06
15.	NT-AP-09	TWCP Visual Exam Expert (VEE) Functions and Process	6/6/06
16.	ACLP 4.10	Determination of Method Detection Limits for Gas Analysis – incorporated into CCP-TP-176	5/2/07
17.	ACLP 4.25	Sample Receiving, Custody, and Storage – incorporated into CCP-TP-177	5/2/07
18.	ACLP 4.40	Summa® Canister Cleaning – incorporated into CCP-TP-178	5/2/07
19.	ACLP 4.45	Gas Transfer Manifold Systems and Sample Compositing – incorporated into CCP-TP-179	5/2/07
20.	ACMM-2810	Determination of Mercury by CVAA for TRU Waste Characterization - – incorporated into CCP-TP-181	5/2/07
21.	ACMM-2901	Determination of Metals by ICP-AES for TRU Waste Characterization – incorporated into CCP-TP-182	5/2/07
22.	ACMM-8909	Microwave Assisted Digestion of Homogeneous Solids and Soil/Gravel – incorporated into CCP-TP-183	5/2/07
23.	ACMM-9080	Determination of Polychlorinated Biphenyls (PCBs) by Gas Chromatography	4/27/04
24.	ACMM-9260	Volatile Organic Compounds by Gas Chromatography Mass Spectrometry – incorporated into CCP-TP-184	5/2/07
25.	ACMM-9270	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry – incorporated into CCP-TP-185	5/2/07
26.	ACMM-9441	Determination of Nonhalogenated Volatile Organics by Gas Chromatography – incorporated into CCP-TP-186	5/2/07
27.	ACMM-9500	Sample Preparation for Semivolatile Organic Compounds and Polychlorinated Biphenyls – incorporated into CCP-TP-187	5/2/07
28.	ACMM-9910	Analysis of Gas Samples for VOCs by GC/FID – incorporated into CCP-TP-173	5/2/07
29.	ACMM-9925	Analysis of Gas Samples for Hydrogen and Methane by Micro GC/TCD	5/2/07
30.	ACMM-9930	Analysis of Gas Samples for VOCs by GC/MS – incorporated into CCP-TP-175	5/2/07
31.	MCP-2002	Analytical Sample Management – incorporated into CCP-TP-180	5/2/07
32.	MCP-2008	Analytical Data Recording, Review and Reporting – incorporated into CCP-TP-188	5/2/07
33.	MCP-2009	Analytical Software Control – incorporated into CCP-QP-022	5/2/07
34.	MCP-2610	QA Program Administrative Controls for the TWCP – incorporated into CCP-PO-001, CCP-PO-002, CCP-PO-003, CCP-QP-002, CCP-QP-005, CCP-QP-006, CCP-QP-008, CCP-QP-010, CCP-QP-016 and CCP-QP-022	5/2/07
35.	MCP-2011	CCP Notebooks and Logbooks	5/2/07
36.	PLN-1258	Quality Program Plan for the TWCP – incorporated into CCP-PO-002	5/2/07

CENTRAL CHARACTERIZATION PROGRAM			
LIST OF DEACTIVATED PROCEDURES AT IDAHO NATIONAL LABORATORY			
#	Procedure No.	Procedure Title	Deactivation Date
37.	PLN-600	Analytical Laboratories Quality Assurance Plan for the TWCP – incorporated into CCP-PO-001 and CCP-TP-188	5/2/07
38.	TWCP-CBFO-SOW	CBFO Statement of Work for the INL TRU Waste Characterization Program – incorporated into CCP-PO-001	5/2/07
39.	CCP-TP-160	CCP Random Selection of Containers for Headspace Gas Sampling and Analysis	7/2/09
40.	CCP-TP-161	CCP Random Selection of Containers for Solids Sampling and Analysis	7/2/09
41.	CCP-TP-089	CCP Mobile Gas Generation Testing Sampling System (MGSS) Sampling Operation	10/23/09
42.	CCP-TP-092	CCP Mobile Gas Generation Testing Sampling System (MGSS) Data Calculation	10/23/09
43.	CCP-PO-031	CCP/Idaho Cleanup Project Analytical Laboratories Department Interface Document	7/18/11
44.	CCP-QP-004	CCP Corrective Action Management	2/6/13
45.	CCP-QP-006	CCP Corrective Action Reporting and Control	2/6/13
46.	CCP-PO-008	CCP Quality Assurance Interface with the WTS Quality Assurance Program	6/3/13
47.	CCP-PO-030	CCP/Battelle Energy Alliance Analytical Chemistry & Instrument Department Interface Document	5/14/13
48.	CCP-PO-031	CCP/Idaho Cleanup Project Analytical Laboratories Department Interface Document	7/18/11
49.	CCP-QP-011	CCP Laboratory Logbooks	5/14/13
50.	CCP-QP-029	CCP Corrective Action Management	9/20/13
51.	CCP-TP-003	CCP Data Analysis for S3000, S4000, and S5000 Characterization	6/19/13
52.	CCP-TP-056	CCP HSG Performance Demonstration Plan	5/14/13
53.	CCP-TP-093	CCP Sampling of TRU Waste Containers	5/14/13
54.	CCP-TP-106	CCP Headspace Gas Sampling Batch Data Report Preparation	5/14/13
55.	CCP-TP-162	CCP Random Selection of Containers for Solids and Headspace Gas Sampling and Analysis	5/14/13
56.	CCP-TP-173	CCP Analysis of Gas Samples for VOCs by GC/FID	5/23/12
57.	CCP-TP-175	CCP Analysis of Gas Samples for VOCs by GS/MS	5/14/13
58.	CCP-TP-176	CCP Determination of Method Detection Limits for Gas Analysis	5/14/13
59.	CCP-TP-177	CCP Sample Receipt, Custody, and Storage	5/14/13
60.	CCP-TP-178	CCP SUMMA® Canister Cleaning	5/14/13
61.	CCP-TP-179	CCP Gas Transfer Manifold Systems and Sample Compositing	5/14/13
62.	CCP-TP-180	CCP Analytical Sample Management	5/14/13
63.	CCP-TP-181	CCP Determination of Mercury by CVAA for TRU Waste Characterization	5/14/13
64.	CCP-TP-182	CCP Determination of Metals of ICP-AES for TRU Waste Characterization	5/14/13
65.	CCP-TP-183	CCP Microwave Assisted Digestion of Homogenous Solids and Soil/Gravel	5/14/13
66.	CCP-TP-184	CCP Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry	5/14/13
67.	CCP-TP-185	CCP Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry	5/14/13
68.	CCP-TP-186	CCP Determination of Nonhalogenated Volatile Organics by Gas Chromatography	5/14/13
69.	CCP-TP-187	CCP Sample Preparation for Semivolatile Organic Compounds	5/14/13
70.	CCP-TP-188	CCP Analytical Data Recording, Review, and Reporting	5/14/13
71.	CCP-TP-196	CCP Determination of Formaldehyde by High-Performance Liquid Chromatography (HPLC).	5/14/13
72.	CCP-TP-197	CCP Determination of Hydrazine by High-Performance Liquid Chromatography (HPLC)	5/14/13
73.	CCP-TP-510	CCP Remote-Handled Radiography Test and Training Drum Requirements	4/9/12

**Table 1. Tiering of Contact-Handled Transuranic Waste Characterization Processes Implemented by INL-CCP
(Based on May 3–5, 2005, Baseline Inspection and Subsequent Evaluations, Updated June 2014)**

Process Elements	INL-CCP CH Waste Characterization Processes – T1 Changes	INL-CCP CH Waste Characterization Processes – T2 Changes*
Acceptable Knowledge, including Load Management	Any new waste category Changes to the accelerated retrieval project targeted wastes from what was presented in CCP-AK-INL-001, Revision 7	Submission of a list of active INL-CCP CH AKEs and SPMs Notification to EPA upon completion of or substantive modification** to: <ul style="list-style-type: none"> • AK-NDA memoranda • AK accuracy reports (annually, at a minimum) • AK-AK and AK-NDA/NDE discrepancy resolution reports • WSPFs, including updates or additions to waste streams within an approved waste category • New and revised AK summary reports • The load management status of approved waste streams • Site procedures requiring CBFO approval • Any analysis evaluating effectiveness of the Waste Identification Process
Nondestructive Assay	New equipment or substantive physical modifications** to approved equipment Extension of or changes to approved calibration range for approved equipment	Submission of a list of INL-CCP NDA operators, EAs and ITRs that performed work during the previous quarter Notification to EPA upon substantive modification** to: <ul style="list-style-type: none"> • Software for approved equipment • Operating ranges upon CBFO approval • Site procedures requiring CBFO approval
Real-Time Radiography	None	Submission of a list of INL-CCP RTR operators and ITRs that performed work during the previous quarter Notification to EPA upon: <ul style="list-style-type: none"> • Substantive modification** to site procedures requiring CBFO approval • New equipment or substantive physical modifications** to approved equipment
Visual Examination and Visual Examination Technique	Changes in the vendor performing visual examination or visual examination technique	Submission of a list of INL-CCP VE operators, VE Experts and ITRs that performed work during the previous quarter Notification to EPA upon substantive modification** to site procedures requiring CBFO approval
WIPP Waste Data System	Changes to WDS algorithms specific to load management requiring revisions to the load management provisions of DOE's CH WAC	Notification to EPA upon substantive modification** to: <ul style="list-style-type: none"> • Site procedures requiring CBFO approval • WDS algorithms corresponding to changes to the load management provisions of the CH WAC

New T1s, T2s and significant modifications to existing T1s or T2s are in **bold text**; T1s or T2s that were only revised for style are not shown in bold.
* INL-CCP will report all T2 changes to EPA every three months.

** "Substantive modification" refers to a change with the potential to affect INL-CCP's CH waste characterization processes or documentation of them, excluding changes that are solely related to the environment, safety and health; nuclear safety; or the Resource Conservation and Recovery Act; or that are editorial in nature or are required to address administrative concerns. EPA may request copies of new references that DOE adds during a document revision.

**Table 2. Tiering of Remote-Handled Transuranic Waste Characterization Processes Implemented by INL-CCP
 (Based on June 12-16 and August 9 and 26, 2006, Baseline Inspection and Subsequent Tier 1 Evaluations, Updated June 2014)**

Process Elements	INL-CCP RH Waste Characterization Process – T1 Changes	INL-CCP RH Waste Characterization Process – T2 Changes*
Acceptable Knowledge	<p>Any new waste stream not approved under the baseline</p> <p>Addition of containers to approved waste streams if new or different radionuclide sealing factors are required</p> <p>Substantive modification** to AKSRs and certification confirmation test plans (e.g., CCP-AK-INL-500, CCP-AK-INL-502)</p> <p>Load management for any RH waste stream</p>	<p>Submission of a list of active INL-CCP RH AKEs and SPMs</p> <p>Notification to EPA upon availability or nonsubstantive modification** of AKSRs and certification confirmation test plans (e.g., CCP-AK-INL-500, CCP-AK-INL-502)</p> <p>Notification to EPA upon availability or modification of:</p> <ul style="list-style-type: none"> • CCP-TP-005, Attachment 4 that reflects the updated AKSR Source Document Reference List • The WSPF or WSPF change notice; current related attachments, including the CRR, CIS and Summation of Aspects, should be provided with each requested WSPF • AK accuracy reports (annually, at a minimum) • Discrepancy resolution reports and nonconformance reports • AK documentation as a result of Waste Characterization Program Implementation Plan revisions (e.g., CRR) • Correlation or surrogate summary forms for each of the RH containers in this waste stream identified as contact-handled, based on measured dose rates that present nondestructive assay results for assayed containers <p>Notification to EPA of the intention to add containers to an approved waste stream, including the approximate number of containers and volume of waste, the timeframe for waste generation, characterization, and disposal and submission of an updated AKSR documenting that the pedigree of the additional containers is the same as those covered by the baseline or subsequent T1 approvals***</p> <p>Submission of a list of fully characterized containers from a population of additional containers proposed as a T2 change, above***</p>
Radiological Characterization, including Dose-to-Curie	<p>Any new waste stream not approved under the baseline or subsequent T1 evaluations or addition of containers to an approved waste stream that requires changing the established radionuclide sealing factors</p> <p>Use of any alternate radiological characterization procedure other than DTC with established sealing factors as documented in CCP-TP-504</p> <p>Use of any alternate gamma detector with the OSPREY™ system characterization procedure other than the La₃Br(Ce) detector observed</p>	<p>Submission of a list of INL-CCP DTC operators, EAs and ITRs that performed work during the previous quarter</p> <p>Notification to EPA upon nonsubstantive** modification of procedures or radiological technical reports (e.g., CCP-TP-504, CCP-AK-INL-501) requiring CBF/O approval</p> <p>Submission of an updated radiological technical report (e.g., CCP-AK-INL-501) documenting that the radiological characterization processes used for the additional containers is the same as those</p>

**Table 2. Tiering of Remote-Handled Transuranic Waste Characterization Processes Implemented by INL-CCP
(Based on June 12-16 and August 9 and 26, 2006, Baseline Inspection and Subsequent Tier 1 Evaluations, Updated June 2014)**

Process Elements	INL-CCP RH Waste Characterization Process – T1 Changes	INL-CCP RH Waste Characterization Process – T2 Changes*
	<p>in July 2010</p> <p>Application of new (i.e., not EPA-approved) scaling factor development processes for isotopic determination (applies to new RH waste streams and to the addition of containers to an approved waste stream)</p> <p>Substantive modification** to EPA-approved procedures or radiological characterization technical reports (e.g., CCP-TP-504, CCP-AK-INL-501)</p>	<p>covered by the baseline or subsequent T1 approvals***</p> <p>Submission of BDRs or calculation packages for containers selected by EPA from a list of fully characterized containers provided by INL-CCP***</p>
Visual Examination	<p>Visual examination by any new process for SCG S3000, S4000 or S5000 waste.</p> <p>Visual examination by review of existing audio/visual recordings for SCG S3000 or S4000 waste.</p>	<p>Submission of a list of INL-CCP VE operators, VE Experts and ITRs that performed work during the previous quarter</p> <p>Notification to EPA upon substantive modification** to site procedures requiring CBFO approval</p> <p>Submission of BDRs for containers selected by EPA from a list of fully characterized containers provided by INL-CCP***</p>
Real-Time Radiography	<p>Any new debris waste stream or waste from SCG S3000 or S4000</p> <p>Addition of any new RTR units</p>	<p>Submission of a list of INL-CCP RTR operators and ITRs that performed work during the previous quarter</p> <p>Notification to EPA upon substantive modification** to site procedures requiring CBFO approval</p> <p>Submission of BDRs for containers selected by EPA from a list of fully characterized containers provided by INL-CCP***</p>
WIPP Waste Data System	None	Notification to EPA upon substantive modification** to site procedures requiring CBFO approval

New T1s, T2s and significant modifications to existing T1s or T2s are in **bold** text; T1s or T2s that were only revised for style are not shown in bold.

* INL-CCP will report all unmarked T2 changes to EPA every three months.

** "Substantive modification" refers to a change with the potential to affect INL-CCP's RH waste characterization processes or documentation of them, excluding changes that are solely related to the environment, safety and health; nuclear safety; or the Resource Conservation and Recovery Act; or that are editorial in nature or are required to address administrative concerns. EPA may request copies of new references that DOE adds during a document revision.

*** INL-CCP will report this T2 change immediately.