WIPP Quarterly Review
April 10, 2003

Activities Update for NMED's
RCRA Permits Program

1. Ongoing Permitting Process

- NMED received additional permit modification notifications from DOE/WTS
  - January 23, 2003 - Class 1 (change the WTS President and General Manager name)
  - January 28, 2003 - Class 1 (relocation of fire alarm control system)
  - February 7, 2003 - Class 1 (correct Figure B1-1 [DAC]; correct inconsistencies regarding headspace gas sampling for thermally treated waste)

- Drum Age Criteria (DAC) Class 3 modification request
  - NMED issued revised permit on January 30, 2003
  - NMED provided notice to Permittees of issuance on February 6, 2003
  - Revised permit included all Class 1 notifications received through January 28, 2003

- Remote-Handled TRU Waste Class 3 modification request
  - NMED issued Notice of Deficiency (NOD) comments on March 5, 2003
  - Permittees have 60 days to respond (due May 6, 2003)

- Electronic Data Management Class 3 modification
  - NMED will issue NOD in May 2003

- Closure Plan Amendment (Design Change) Class 3 modification request
  - NMED will coordinate with EPA ORIA on review of panel closure design

- Extension of time to close Panel 1 Class 1* modification request
  - Approved modification with changes on December 26, 2002
  - Citizen groups asked NMED Secretary Ron Curry to deny modification in request dated January 22, 2003
  - Secretary Curry determined that modification had been properly granted in letter dated January 27, 2003

- Change in operational control Class 1* modification request
  - Received February 28, 2003
  - No agency action taken yet to approve or deny
  - See Notice of Violation description below under "Compliance Issues"

- Other reports/notifications received
  - Notification of intent to commence closure of Panel 1, February 4, 2003
  - Notification of Panel 3 mining, February 7, 2003
  - Planned closure schedule for Panel 1, March 11, 2003
  - Semiannual Groundwater Monitoring Report (Round 15), March 20, 2003
2. RCRA-related Audits

- Hanford Recertification, June 24-28, 2002
  - Issued approval letter February 25, 2003

- INEEL Recertification, August 5-9, 2002
  - Issued approval letter February 25, 2003

- LANL Recertification, August 26-30, 2002
  - Issued approval letter January 30, 2003

- ANL-E/CCP audit, September 9-13, 2002
  - See ANL-E/CCP audit, February 10-14, 2003

- NTS/CCP audit, September 23-27, 2002
  - Received corrections to audit report on January 24, 2003
  - Issued approval letter February 18, 2003

- RFETS new VE, PCB, tank sludge sampling, October 1-4, 2002
  - Issued approval letter March 21, 2003

- SRS Recertification, October 22-25, 2002
  - Issued approval letter April 9, 2003

- LANL new HSG, October 29-31, 2002
  - Issued approval letter January 31, 2003

- RFETS polymerized organic sampling, Bldg 371 HSG, November 19-20, 2002
  - Received audit report January 21, 2003
  - Issued approval letter March 21, 2003

- ANL-E/CCP Solids and CAR verification, February 10-14, 2003
  - NMED observed audit
  - Received audit report March 6, 2003
  - Audit report also included activities observed at September 9-13, 2002 audit
  - Currently under review

- RFETS Recertification, March 3-7, 2003
  - NMED observed audit
  - Steve Zappe reviewed RTR videotapes of containers with classified information
  - NMED submitted two observer inquiry forms (limitation of TIC evaluation, use of CLP data validation guidelines for data usability assessments)
  - Awaiting audit report and response to inquiry

- Upcoming audits
  - INEEL Labs and Sampling Process, May 19-23, 2003
  - Hanford Recertification, June 16-20, 2003
  - RFETS Solids Sampling, July 8-11, 2003
  - LANL Recertification, August 25-29, 2003
  - NTS/CCP Recertification, September 22-26, 2003
  - SRS Recertification, October 20-24, 2003
  - RFETS Recertification, March 2004
3. Compliance issues

- Notice of Violation (NOV) issued to WTS, February 19, 2003
  - Identified failure by M&O contractor to file disclosure required by NM Hazardous Waste Act
  - Also identified failure to file Class 1* permit modification request reflecting change in operational control when new contract was awarded by DOE to WTS in December 2000
  - NOV included appropriate disclosure forms for WTS to complete and return
  - Secretary Curry subsequently rescinded NOV on February 19, 2003
  - NMED received completed disclosure forms in four submittals from WTS (February 28; March 10; March 17; and March 20, 2003)
  - NMED received Class 1* permit modification request (change in operational control), February 28, 2003

4. Other activities

- Meetings/presentations
  - NAS WIPP Committee meeting in Santa Fe, January 28, 2003; Steve Zappe presented “Response to NAS Questions for NMED”, “Waste Characterization at New Mexico’s Commercial Hazardous Waste Disposal Facility”, and “NMED Concerns About Using Historical Headspace Gas Data to Argue for Reduced Sampling”
  - Site Specific Advisory Boards TRU Waste Workshop in Carlsbad, January 30 – February 1, 2003; Steve Zappe represented NMED
  - Tour of LANL TRU waste management facilities with Northern New Mexico Citizen Advisory Board, February 20, 2003; Steve Zappe attending
  - Observation of final waste emplacement in Panel 1, March 12, 2003; Phillis Stevens, attending
  - Tour of LANL TRU waste management facilities for NMED, March 24, 2003; Steve Zappe, Kevin Krause, Phillis Stevens from WIPP group attending

- NMED clearance status
  - Steve Holmes received “Q” clearance February 7, 2003

- NMED staffing
  - James Bearzi identified as Hazardous Waste Bureau’s single point-of-contact for all WIPP issues in e-mail sent April 3, 2003
  - Phillis Stevens resigned, last day was April 4, 2002
<table>
<thead>
<tr>
<th>Name</th>
<th>Org.</th>
<th>Phone</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
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WIPP @ Carlsbad
Quarterly Meeting 4/10/03 Carlsbad

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      Matthew Silva 505.828.1062
      Anne Clark 505.476.3220
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Subject: Discussions and Actions from the April 10 meeting between DOE and the State of New Mexico on WIPP
From: "Nelson, Roger - DOE" <Roger.Nelson@wipp.ws>
Date: Thu, 10 Apr 2003 17:07:12 -0600
To: "DeLain Clark, Ann" <aclark@state.nm.us>, "Steve Zappe"
<Steve_Zappe@nmenv.state.nm.us>, "Silva, Matthew - EEG" <msilva@eeg.org>
CC: "Lindsay Lovejoy" <lllovejoy@ago.state.nm.us>, "Potter, Earl" <epotter@swcp.com>, "Plum, Jody - DOE" <Jody.Plum@wipp.ws>, "Patterson, Russ - DOE" <Russ.Patterson@wipp.ws>, "Bignell, Dale - WRES" <Dale.Bignell@wipp.ws>, "Kehrman, Bob - WRES" <Bob.Kehrman@wipp.ws>, "Watson, Kerry - DOE" <Kerry.Watson@wipp.ws>, "Johnson, Harold - DOE" <Harold.Johnson@wipp.ws>, "Gilbert, Jack - DOE" <Jack.Gilbert@wipp.ws>, "Hurtt, Dennis - DOE" <Dennis.Hurtt@wipp.ws>, "Pigg, Jim - DOE" <Jim.Pigg@wipp.ws>, "Holland, Ava - DOE" <Ava.Holland@wipp.ws>, "Gadbury, Casey - DOE" <Casey.Gadbury@wipp.ws>

This e-mail attempts to capture the actions that resulted from discussions at the April 10th meeting between the State of New Mexico and WIPP.

1. The Jan. 13-17, 2003 WTS QA audit identified the need to reconcile records requirements of the HWFP for "contiguous storage" with the current on-site system employed by WTS. Ben Walker of EEG remarked that "either the HWFP needs to be modified to allow records storage in the project records storage facility in Carlsbad (if that can even be done considering the specificity of the requirement in the statues), or the records storage capability at the WIPP site should be upgraded to meet the archive requirements." Action by CBFO was taken to look into the issue, and make recommendations on how to proceed.

2. EEG requested (letter from Don Gray to Cynthia Zvonar, dated 9/11/02) "information on volume of brine removed from exhaust shaft sump since 1/1/02". Action by CBFO was taken to provide the requested information.

3. EEG requested (letter from Matthew Silva to Ines Triay, dated September 5, 2002) "documentation on air samples from TRUPACT #157". CBFO replied in a letter dated January 23, 2002 that all information would be included in the final recovery report from INEEL, and would be shared when the report became available. In the April 10 meeting, EEG requested specifically that the Radiological Air Filter (RAF) samples that formed the basis of DOE’s decision to return TRUPACT #157 to INEEL be made available prior to the publishing of the final recovery report from INEEL. Action by CBFO was taken to send the RAF results to EEG.

4. EEG questioned the readiness of the State emergency response and status of training for the shipments from NTS through Albuquerque, planned to begin in summer. Action by NMEMRD was taken to investigate the status of training and readiness along the I-40 corridor and in Bernalillo County.

5. The NM Attorney General’s Office questioned the specificity of protocol in the HWFP for returning (similar to the August 25, TRUPACT #157 incident) unacceptable shipments to their site of origin. CBFO requested the NMAGO representative to provide a recommendation where the HWFP should be more specific or proscribed in the conditions for which a shipment to WIPP be returned to its site of origin.

Best Regards,
Roger Nelson
US DOE Carlsbad Field Office
From: James Bearzi [james_bearzi@nmenv.state.nm.us]
Sent: Tuesday, April 08, 2003 9:34 AM
To: jody.plum@wipp.ws
Cc: roger.nelson@wipp.ws; aclark@state.nm.us; msilva@eeg.org; lllovejoy@ago.state.nm.us; Ines Triay; Ron Curry; Steve Warren; charles_lundstrom
Subject: Quarterly Meeting

Jody, thanks for your call. Regarding our participation in the Quarterly Meeting on the 10th, we received a revised agenda from Roger yesterday. We have no additions, deletions, or other recommendations to alter the draft agenda in any way.

NMED will not be attending the meeting. We will, however, provide Roger with a copy of our usual presentation that contains an update on permitting, audit activities, and the like for NMED. We'll get it to him electronically today or tomorrow so he can make copies for everyone.

Our absence from this meeting must not be construed as a demonstration of ambivalence toward quarterly meetings. Indeed, NMED strongly supports these meetings, and believes that they must continue to be held on a quarterly basis.

James P. Bearzi  
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Hazardous Waste Bureau  
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Handouts from April 10th Meeting in Carlsbad.
82nd QUARTERLY MEETING

U.S. Department of Energy
Environmental Evaluation Group
N.M. Energy, Minerals, and Natural Resources
N.M. Environment Department
N.M. Attorney General

Matthew Silva, Director
Environmental Evaluation Group
http://www.eeg.org

April 10, 2003
Carlsbad

Providing an independent technical analysis of the Waste Isolation Pilot Plant (WIPP) - a federal transuranic nuclear waste repository.
Reviews

✓ Provided comments to the Region 6 Office of the EPA on the Proposal to Approve the Disposal of PCBs at WIPP (1/23/03)

✓ Provided preliminary comments to the EPA on the 12/16/02 CBFO notice of proposed change to receive RH TRU, in accordance with 40 CFR 194.4 (b)(3) (2/11/03)

✓ Provided comments to the CBFO on the Supplement Analysis for Use of the 10-160B Transportation Cask for RH TRU Waste Shipments to the WIPP (2/20/03)
Audits

☑ Jan 13-17: WTS QA audit, Carlsbad, NM (B. Walker)

☑ Jan 27-29: 3100 m³ Project Close-out surveillance, INEEL, Idaho Falls, ID (S. Webb)

☑ Feb 10-12: CBFO surveillance of Office of Program Support, Carlsbad, NM (B. Walker)

☑ Feb 24-28: Audit #A-03-08, AMWTF Transportation Certification Audit, INEEL, Idaho Falls, ID (S. Webb)

☑ Mar 4-7: CBFO recertification audit of RFETS, Denver, CO (B. Walker)

☑ Mar 17-20: WTS audit of underground, WIPP site, Carlsbad, NM (B. Walker)

☑ Mar 24-28: Certification Audit (A-03-16) for new NDA System at SRS/CCP, Aiken, SC (S. Webb)
Activities

☑ Jan 30: Observed inspection of TRUPACT #157, INEEL, (S. Webb)

☑ Feb 11-12: Observed Salado Peer Review, Carlsbad, NM (L. Allen, B. Walker)

☑ Feb 17: Observed the Salado Conceptual Model Peer Review Closeout, Carlsbad, NM (B. Walker)

☑ Mar 3: Seminar, New Mexico Tech, Socorro, NM (G. Anastas)

"Chernobyl, Causes of the Accident and the Environmental Legacy."

☑ Mar 12-13: Observed the closing of Panel 1, and readiness of Panel 2, WIPP Site (L. Allen, T. Klein)

☑ Periodic EMIG Meetings (T. Klein)
8 Additional EEG Reports available online:

EEG-61, EEG-50, EEG-20, EEG-16,
EEG-15, EEG-12, EEG10, EEG-5

Revised presentation by radionuclide of EEG's Sample Results Jan 1993-Dec 2002:

Clickable links to corresponding EEG Report
What's New at www.eeg.org

☑ Revised Shipments Page showing Shipment Comparison by Year

Drum Equivalents Shipped to WIPP 2000-2003

Note: Minor amounts of waste were received between March 1999 and June 2000 when EEG began tracking WIPP shipments on WWIS (WIPP Waste Information System)

☑ New EEG Focus Pages:
  - Recertification
  - Audits
# Status of EEG Requests

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<th>Letter From</th>
<th>Letter To</th>
<th>Subject</th>
<th>Status</th>
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<tr>
<td>9/11/02</td>
<td>D. Gray</td>
<td>C. Zvonar</td>
<td>Request for information on volume of brine removed from exhaust shaft sump since 1/1/02</td>
<td>Waiting on DOE response</td>
</tr>
<tr>
<td>2/11/03</td>
<td>M. Silva / B. Walker, J. Channell, S. Webb, G. Anastas</td>
<td>I. Triay</td>
<td>09/05/02 TRUPACT #157 information request repeated by EEG in response to DOE 1/23/03 letter</td>
<td>Waiting on DOE Response</td>
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<tr>
<td>2/20/03</td>
<td>M. Silva / J. Channell</td>
<td>I. Triay</td>
<td>Notified DOE that EA &amp; PSAR are incorrectly using 20 PE-CI as maximum allowed content of 10-160B cask</td>
<td>Waiting on DOE response</td>
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<tr>
<td>3/11/03</td>
<td>M. Silva / B. Walker</td>
<td>I. Triay</td>
<td>Request CEMRC analysis of samples taken from TRUPACT #157</td>
<td>Waiting on DOE response</td>
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<tr>
<td>3/28/03</td>
<td>T. Klein</td>
<td>B. Lilly</td>
<td>Request for copy of final close out radiation survey performed for Panel 1 on 3/12-13, 2003</td>
<td>Waiting on DOE Response</td>
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</table>
EEG Presentations/Publications

  - "International Implications of Health Physics Society Initiatives"
  - "SI Units and Homeland Security"
  - "Homeland Defense Equipment Reuse (HDER) Program"

☑ Jan 28: NAS/NRC WIPP Committee meeting, Santa Fe, NM (J. Channell)
  "EEG Response to NAS/NRC WIPP Committee December 16, 2002 Questionnaire."

☑ Feb 17: Swedish Nuclear Fuel and Management Company (SKB), Stockholm, Sweden (M. Silva)
  "A Nuclear Waste Repository and the Role of a Technical Review Group"
EEG Presentations/Publications (continued)

☑ Feb 25: WM '03, Tucson, AZ


➢ "WIPP Recertification – an Environmental Evaluation Group Perspective," (M. Silva, L. Allen)

☑ Feb 26: Society of Mining Engineers Conference, Cincinnati, OH (L. Allen)

➢ "Evaluation of Proposed Panel Closure Modifications at the WIPP”

➢ "Analysis of Observed Deviations from the Culebra Steady-State Model – WIPP"
Meetings


- Jan 31: EM Site Specific Advisory Board Transuranic Management Workshop, Carlsbad, NM (M. Silva)

- Feb 13-15: Technical Review Session for 27th Material Research Society Conf. on the Scientific Basis for Nuclear Waste Management to be held in Sweden 6/15-19/03, Palma de Mallorca, Spain (M. Silva)

- Feb 24-26: 2003 Society of Mining Engineers Annual Meeting and Exhibit, Cincinnati, OH (L. Allen)

Meetings
(continued)

☑ Mar 12: NRC Package Performance Test Meeting, Las Vegas, NV (J. Channell)

☑ Mar 20: Exhaust shaft video meeting with DOE, Carlsbad, NM (G. Anastas, T. Klein)

☑ Mar 27: Briefing by Assessment Panel on proposed Center of Excellence on Hazardous Materials Management, Carlsbad, NM (M. Silva)

☑ Mar 30 – Apr 2: 2003 International High-Level Radioactive Waste Management Conference, Las Vegas, NV (M. Silva)

☑ Apr 2-3: Western Governors’ Association, WIPP Technical Advisory Group-Transportation meeting, Austin, TX (S. Webb)
Anticipated Activities

✓ Forthcoming EEG Reports:
  ➢ RH TRU Waste
  ➢ Transportation Issues
  ➢ Exhaust Air Sampling Issues at WIPP

✓ Comments on the CBFO’s Supplement Analysis for Use of the 10-160B Transportation Cask for RH TRU Waste Shipments to WIPP

✓ Comments on January 2003 WIPP RH TRU Preliminary Safety Analysis Report

✓ Participation in NAS WIPP Committee Meeting, May 19, Washington, DC, (M. Silva and J. Channell)

✓ Review of Course Materials for the Department of Energy’s MERRTT (Modular Emergency Response Radiological Transportation Training) course curriculum for New Mexico State Police, Office of Emergency Services and Security

**DPS/EOC Activities**

- Hired new Administrative Assistant, Roseanne Madrid.
- Provided 2 Hazmat Awareness courses; Grants & Acoma Pueblo.
- Provided MERRIT class in Gallup.
- Provided 2 WIPP presentations: McKinley County LEPC & McKinley County Commission.
- Organized WIPP tour for personnel from Gallup/McKinley County.
- Gained access to the DOE WWIS.
- DPS/EOC WIPP Coordinator co-taught Introduction to Disaster Exercise class for New Mexico EOC staff and radiological instrumentation training for Gallup Fire Department.
- Provided newly-calibrated Ludlums to Gallup Fire Department, Carlsbad Fire Department, Artesia Fire Department, and Carlsbad Medical Center.
- Conducted equipment and training inventory at Gallup Fire Department.
- Conducted 2 WIPPTRAX preparation exercises/planning meetings in Gallup and attended one in Santa Fe.

**DPS/MTD Activities**

- CVSA Level VI En-route inspections (radiological & mechanical) conducted at Raton Port of Entry and Loving Inspection site on all WIPP shipments entering state.
  - INEEL – 1
  - HNFD – 1
  - RFETS – 97
  - SRS – 41
- 3 violations of Federal Motor Carrier Safety Regulations on 3 WIPP shipments. 2 vehicles were placed Out-of-Service.
- 5 CVSA Level VI pre-trip inspections (radiological & mechanical) conducted at LANL
- 6 - Ludlum Model 14C, 1 – Ludlum Model 2241, creepers, chock blocks, rulers, flashlights and other inspections tools were purchased for Level VI certified personnel for conducting/supporting inspections of WIPP shipments.
- Attended CVSA Level VI instructors meeting held in Phoenix to revise and edit both the student manual/handouts & instructor manual for the Basic Level VI Inspection Course.
- Assisted with the instruction of a CVSA Level VI “Refresher Train the Trainer” Course held for the various states in Phoenix, Arizona
- Conducted CVSA Level VI refresher training as required for inspectors to remain certified.
- Problems: 2-hour notifications to the Raton POE not occurring on a regular basis. Notifications of shipment arrival at the Loving inspection site not occurring on a regular basis.
Thank You

State of New Mexico:
www.emnrd.state.nm.us/wipp
### WIPP Disposal Totals as of March 24, 2003

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### Baseline Shipping Schedule – Rev. 2 – 3/24/03

- RFETS
- SRS
- INEEL
- LANL
- RL
- ANL-E
- LLNL
- NTS
- ORNL

Chart showing monthly shipments from October 2002 to September 2003, with different sites indicated by various lines and markers.
TRUPACT-III

TRUPACT III Status & Plans

- Single containment Type B, similar to Gemini design concepts, with contract option for double containment
- Primary use on rail because of weight (66k lbs gross)
- For boxes to 5'x5'x8', drums, SWBs, & TDOPs
- Large containers/boxes require new standard over-pack
  - optimize internal cavity for direct loading and
- No changes in characterization requirements or DQOs
- NDA/NDE for boxes requires performance demonstration
TRUPACT III Status & Plans

- Testing location undetermined but probably at SNL- Albuquerque
- Supplement Gemini test data with additional testing for worst case
- Half scale tests will be supplemented by Finite Element Analysis to complete the scale-up
- Selected Drops (30ft) performed at -20° F - Puncture tests at ambient T
- Computational analysis only will be used for Fire and Immersion performance

TRUPACT III Schedule

- Preliminary Design Review – completed – March 5, 2003
- Test Activities – Summer ‘03
- Complete Final Design – Late Summer ‘03
- SARP submittal – Fall ‘03
- NRC approval – 2004
- First unit – 2005
RH TRU Waste PMR Status and Plans

- Class 3 PMR Submitted June 28, 2002
- NOD received March 5, 2002
- NOD under evaluation
- No decision on response

Final Audit Reports Awaiting Permit-Related and/or Expedited CAR Closure
- RFETS A-03-03 – March 3 – 7, 2003 5 CARs, open
- AMWTP A-03-08 – Feb. 24 – 28, 2003 2 CARs, open
- Regulator Inquiries
  - RFETS A-03-03 – March 3 – 7, 2003 2 open

Final Reports @ NMED & Date
- SRS/CCP A-03-01 12/16/02 (Recert Audit)
- ANL-E/CCP A-02-03 3/5/03 (Cert Audit)*
- ANL-E/CCP A-03-13 3/5/03 (Cert Audit)*

QA Audit Status

Current and Near-Term Site Assessment Schedule
- INEEL Cert Audit A-03-15 – Apr 21 – 25, 2003 (Lab services) Changed to May 19-22
- AMWTP Program Evaluation - May 5 – 9, 2003
- RFETS Cert Audit A-03-XX – May 27 – 30, 2003
- AMWTP Cert Audit A-03-05 – June 23 – 27, 2003 (Initial certification)
- SRS/CCP Recert Audit A-04-XX – October 20 – 24, 2003
- RFETS Recert Audit A-04-XX – March 2004

Last Annual Cert Audit Date
- Hanford – June 2002
- INEEL – August 2002
- LANL – August 2002
- ANL-E/CCP – September 2002
- NTS/CCP – September 2002
- SRS/CCP – October 2002
- RFETS – March 2003
Panel 1 closure status

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake drift brattice barrier</td>
<td>Mar 12</td>
</tr>
<tr>
<td>Remove CAM and VOC sampling lines</td>
<td>Mar 13</td>
</tr>
<tr>
<td>Remove exhaust drift bulkhead – Mar 24</td>
<td>Mar 15</td>
</tr>
<tr>
<td>Exhaust drift brattice barrier</td>
<td>Mar 18</td>
</tr>
<tr>
<td>Intake drift keyway mining</td>
<td>Mar 19</td>
</tr>
<tr>
<td>Exhaust drift keyway mining – Apr 4</td>
<td>Apr 4</td>
</tr>
<tr>
<td>Begin isolation wall construction</td>
<td>Apr 18</td>
</tr>
<tr>
<td>Complete isolation wall construction</td>
<td>June 27</td>
</tr>
</tbody>
</table>

Panel 1 Inventory:

- 38,138 drums
- 2 over-packs (85-gallon)
- 1239 standard waste boxes
- 35 ten-drum over-packs
- 10,496 cubic meters

**Nuclides**

<table>
<thead>
<tr>
<th>Nuclide</th>
<th>Curies</th>
<th>Grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>PU-239</td>
<td>152,000</td>
<td>2,416,000</td>
</tr>
<tr>
<td>AM-241</td>
<td>120,000</td>
<td>34,630</td>
</tr>
<tr>
<td>PU-240</td>
<td>34,290</td>
<td>149,100</td>
</tr>
<tr>
<td>PU-238</td>
<td>6,186</td>
<td>358</td>
</tr>
<tr>
<td>U-238</td>
<td>7.54</td>
<td>22,170,000</td>
</tr>
<tr>
<td>PU-242</td>
<td>3.32</td>
<td>836</td>
</tr>
<tr>
<td>U-234</td>
<td>1.57</td>
<td>248</td>
</tr>
<tr>
<td>U-233</td>
<td>0.41</td>
<td>42</td>
</tr>
<tr>
<td>CS-137</td>
<td>5.08E-04</td>
<td>6.45E-06</td>
</tr>
<tr>
<td>SR-90</td>
<td>3.80E-05</td>
<td>2.75E-07</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td><strong>3.13E+05</strong></td>
<td><strong>2.48E+07</strong></td>
</tr>
</tbody>
</table>

**Material Parameter**

<table>
<thead>
<tr>
<th>Material Parameter</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron base metal alloys</td>
<td>479,700</td>
</tr>
<tr>
<td>Aluminum base metal/alloys</td>
<td>5,459</td>
</tr>
<tr>
<td>Other metal/alloys</td>
<td>46,790</td>
</tr>
<tr>
<td>Other inorganic materials</td>
<td>269,100</td>
</tr>
<tr>
<td>Cellulosics</td>
<td>693,500</td>
</tr>
<tr>
<td>Rubber</td>
<td>8,658</td>
</tr>
<tr>
<td>Plastics</td>
<td>161,900</td>
</tr>
<tr>
<td>Solidified inorganic material</td>
<td>1,846,000</td>
</tr>
<tr>
<td>Solidified organic material</td>
<td>469</td>
</tr>
<tr>
<td>Soils</td>
<td>102</td>
</tr>
<tr>
<td>TOTAL WASTE MATERIALS</td>
<td>3502000</td>
</tr>
<tr>
<td>Steel container materials</td>
<td>2,848,000</td>
</tr>
<tr>
<td>Plastic/liners container materials</td>
<td>264,300</td>
</tr>
<tr>
<td>TOTAL CONTAINER MATERIALS</td>
<td>3112000</td>
</tr>
<tr>
<td>Total Weight of all Material in Panel 1</td>
<td>6615000</td>
</tr>
</tbody>
</table>

Panel 1 Inventory Summary
Total VOC in Headspace Gas of Panel 1

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Analyte</th>
<th>Liters</th>
<th>CAS Number</th>
<th>Analyte</th>
<th>Liters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-74-0</td>
<td>HYDROGEN *</td>
<td>407.3</td>
<td>75-35-4</td>
<td>1,1-DICHLOROETHYLENE</td>
<td>1.3</td>
</tr>
<tr>
<td>74-92-6</td>
<td>METHANE *</td>
<td>64.7</td>
<td>110-82-7</td>
<td>CYCLOHEXANE</td>
<td>1.2</td>
</tr>
<tr>
<td>67-56-1</td>
<td>METHANOL</td>
<td>41.1</td>
<td>127-18-4</td>
<td>TETRACHLOROETHYLENE</td>
<td>1.2</td>
</tr>
<tr>
<td>71-85-6</td>
<td>TOLUIDINE</td>
<td>34.2</td>
<td>67-66-3</td>
<td>CHLOROFORM</td>
<td>1.1</td>
</tr>
<tr>
<td>67-64-1</td>
<td>ACETONE</td>
<td>33.1</td>
<td>75-15-0</td>
<td>CARBON DISULFIDE</td>
<td>1.1</td>
</tr>
<tr>
<td>71-36-3</td>
<td>BUTANOL</td>
<td>15.6</td>
<td>95-47-6</td>
<td>O-XYLENE</td>
<td>0.8</td>
</tr>
<tr>
<td>108-88-3</td>
<td>TOLUENE</td>
<td>12.8</td>
<td>100-41-4</td>
<td>ETHYL BENZENE</td>
<td>0.8</td>
</tr>
<tr>
<td>79-93-3</td>
<td>METHYL ETHYL KETONE</td>
<td>7.3</td>
<td>95-93-8</td>
<td>1,2,4-TRIMETHYLBENZENE</td>
<td>0.5</td>
</tr>
<tr>
<td>76-16-3</td>
<td>1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE</td>
<td>6.6</td>
<td>107-06-2</td>
<td>1,2-DICHLOROETHANE</td>
<td>0.5</td>
</tr>
<tr>
<td>100-10-1</td>
<td>METHYL ISOBUTYL KETONE</td>
<td>5.8</td>
<td>156-99-2</td>
<td>CIS-1,2-DICHLOROETHYLENE</td>
<td>0.5</td>
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<tr>
<td>79-01-6</td>
<td>TRICHLOROETHYLENE</td>
<td>4.6</td>
<td>108-67-8</td>
<td>1,3,5-TRIMETHYLBENZENE</td>
<td>0.5</td>
</tr>
<tr>
<td>75-69-2</td>
<td>METHYLENE CHLORIDE</td>
<td>4.6</td>
<td>108-90-7</td>
<td>CHLOROFORM</td>
<td>0.5</td>
</tr>
<tr>
<td>56-03-5</td>
<td>CARBON TETRACHLORIDE</td>
<td>3.4</td>
<td>79-54-5</td>
<td>1,1,2,2-ETRACHLOROETHANE</td>
<td>0.5</td>
</tr>
<tr>
<td>71-43-2</td>
<td>BENZENE</td>
<td>2.2</td>
<td>79-29-2</td>
<td>BROMOFORM</td>
<td>0.5</td>
</tr>
<tr>
<td>108383/106</td>
<td>M-P-XYLENE</td>
<td>1.9</td>
<td>74-87-3</td>
<td>METHYL CHLORIDE</td>
<td>0.2</td>
</tr>
<tr>
<td>75-34-3</td>
<td>1,1-DICHLOROETHANE</td>
<td>1.8</td>
<td>166-60-5</td>
<td>TRANS-1,2-DICHLOROETHYLENE</td>
<td>0.0</td>
</tr>
<tr>
<td>60-29-7</td>
<td>ETHYL ETHER</td>
<td>1.3</td>
<td>95-36-3</td>
<td>1,2,4-TRIMETHYLBENZENE</td>
<td>0.0</td>
</tr>
<tr>
<td></td>
<td>Total VOCs of Concern</td>
<td></td>
<td></td>
<td>Total VOCs</td>
<td>68.1</td>
</tr>
</tbody>
</table>

* not a VOC - Exists only as a gas at STP

Perspective:
Average cow "burps" – 280 l/day of methane

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TRUPACT-157 follow up

- TRUPACT-157 opened at INEEL on 01/27/03
- INEEL recovery team found that the lock-ring bolt to one drum in TRUPACT-157 was loose and the lid could be moved by hand
- INEEL over-packed and shipped the recovered waste to WIPP on 2/12/03 (but retained the single problem drum).
- CBFO concludes that cause of the incident was improperly torqued lock-ring bolt
- TRUPACT-157 will be re-assembled and returned to WIPP at a later date
regulations. This determination is not subject to rulemaking or judicial review.

Pursuant to LW4A, section 8(f)(2) of the EPA Administrator shall determine whether the WIPp facility continues to be in compliance with the

WIPp Land Withdrawal Act (LW4A) and 40 CFR 194.11.

The CRA is to provide EPA with documentation of WIPp's compliance with the disposal regulations pursuant to section 8(f) of the

CRA is to provide EPA with a CRA package in November of 2003.

First receipt of waste was March 26, 1999; however, EPA was requested thereafter until closure.

When five years after the first receipt of waste and every five years

Recertification Application is required to be provided to EPA not later

Background:

CRA Status & Plans
The CRA will cover activities and the results of planned and unplanned changes made to the disposal system since the submission of the CCA.

The FY03 Annual Change Report will be submitted in November of 2003 to provide documentation for the minor changes of the past year.

The CRA Status & Plans.
- Update of TRU Waste Inventory - Completed
- Implementation.
- BRAHLO Model - peer reviewed and prepared for
- FEMA analyses - proceeding documented.
- All Monitoring and On-Going Research data - gathered and completed
- Review and documentation of past Annual Change Reports.

Status:

CRA Status & Plans
- Integrated Project Schedule - Completed.
- Electronic Library for CRA documentation development - New Spallings Model - being developed.
- New Transmissivity Fields for Culbrosa - nearing completion.
- Performance Assessment Modeling - Beginning.

Status: CRA Status & Plans
complete.

Later than six months after notification to DOE that the CRA is not application pursuant to 40 CFR 194.1, prior to processing the application.

Once the CRA is submitted, the EPA must evaluate the request to submit the CRA to EPA in November of 2003, as requested.

DOE plans to submit the CRA to EPA by November of 2003.

A document will be developed for public comment that discusses the

Plans:

CRA Status & Plans
period of at least 30 days.

The notice will provide a public comment solicitation comments on the documentation, publish a notice in the Federal Register and begins the CRA review process the EPA will.

Once EPA determines the CRA is complete and

Plains:

CRA Status & Plans
the CRA is submitted.

provided by the EPA solicitation for comments, after

An opportunity for public involvement in the CRA is

regarding the CRA by November of 2003

A document will be available for public education

All activities are on schedule to meet this due date.

in November of 2003.

DOE plans to submit the CRA documentation to EPA

Summary:

CRA Status & Plans