OCT. 24 2011

Tim Murphy, Chief
Bureau of Federal Facilities
Division of Environmental Protection
2030 East Flamingo Road, Suite 230
Las Vegas, NV 89119-0818

INTERIM ACTIVITIES AT CORRECTIVE ACTION UNIT (CAU) 114: AREA 25 EMAD FACILITY, NEVADA NATIONAL SECURITY SITE, NEVADA

CAU 114: Area 25 EMAD Facility is currently listed in Appendix III of the Federal Facility Agreement and Consent Order and consists of the following two Corrective Action Sites (CASs):

- CAS 25-41-03: EMAD Facility
- CAS 25-99-23: Manned Control Car and Engine Installation Vehicle

Closure activities for CAU 114 are specified in Revision 1 of the approved Streamlined Approach for Environmental Restoration Plan for CAU 114. Closure activities will include characterization of potential source materials, removal of readily removable nonhazardous waste, and identification and abatement of asbestos. The end state for Building 3900 will be demolition to slab.

This letter report documents interim activities that have been completed at CAU 114 to support ongoing access and generate information necessary to plan future closure activities. General housekeeping and cleanup of debris was conducted in the EMAD yard, cold bays, support areas of Building 3900, and postmortem cell tunnel area of the hot bay. All non-asbestos ceiling tiles and loose and broken non-friable asbestos floor tiles were removed from support galleries and office areas. Non-radiologically contaminated piping and equipment in the cold areas of the building and in the two 120-ton locomotives in the yard were tapped, characterized, drained, and verified free of contents.

The following waste was removed from the EMAD complex and disposed:

- Approximately 52 cubic meters (m³) of yard debris and 69 m³ of debris from the postmortem cell tunnel were packaged in either B-25 boxes or cargo containers and disposed at the Area 5 Radioactive Waste Management Site.
- Approximately 46 m³ of yard debris and 115 m³ of debris from the building cold bays and support areas were disposed at the U10c Sanitary Landfill.
- Approximately 5,500 gallons of sanitary liquid were drained and disposed at onsite lagoons.
Approximately 3,500 gallons of chiller water were evaporated, and the residual was solidified. Approximately 11.5 m$^3$ of solidified residual chiller water were disposed at the U10c Sanitary Landfill.

Approximately 10,635 gallons of used mineral and equipment oil, 1,250 gallons of used diesel fuel, and 50 pounds of Freon were sent for recycle/reuse.

One 55-gallon drum of oil, five cartons of universal waste lamps, and three 20-gallon drums of polychlorinated biphenyl ballasts were disposed at an offsite treatment and disposal facility.

All waste associated with this work has been disposed. Waste disposition documentation and photographs of fieldwork before, during, and after completion are enclosed with this letter.

The following non-waste-generating activities were also performed:

- All floor drains in non-radiologically contaminated areas of the building were grouted.
- Postmortem cell doors were opened in preparation for future radiological characterization.
- Deteriorated areas of the roof were repaired.
- Power to the facility was disconnected at the substations because the safety of the electrical system could not be confirmed due to water seepage into the building from the deteriorated roof. The building was rendered cold and dark.

Remaining closure work associated with CAU 114 will be documented in the Closure Report. Please direct comments and questions to Kevin J. Cabble, of my staff, at (702) 295-5000.

Robert F. Boehlecke  
Federal Project Director  
Environmental Restoration Project
cc w/encl.:
J. J. MacDougall, NDEP, Las Vegas, NV (2 electronic copies)
M. J. Krauss, N-I, Las Vegas, NV
T. A. Thiele, NSTec, Las Vegas, NV

cc w/o encl.:
J. T. Fraher, DTRA/CXTS, Kirtland AFB, NM
T. D. Taylor, N-I, Las Vegas, NV
N-I Central Files, MS NSF 156
NSTec Correspondence Control, MS NLV008
K. J. Cable, ERP, NNSA/NSO, Las Vegas, NV
E. F. Di Sanza, WMP, NNSA/NSO, Las Vegas, NV
FFACO Group, PSG, NNSA/NSO, Las Vegas, NV
NNSA/NSO Read File
PHOTOGRAPHS OF INTERIM CLOSURE ACTIVITIES

Yard Debris, 04/23/2009

Yard Debris Cleanup, 04/30/2009
Deteriorated Cold Bay Roof, 12/29/2009

Repairs Cold Bay Roof, 05/13/2011
Deteriorated Asbestos Tile, 03/03/2010

After Tile Cleanup, 03/30/2010
Nevada Test Site

This Certificate acknowledges that the following shipment(s) of waste have been disposed at the Nevada Test Site Radioactive Waste Management Site.

<table>
<thead>
<tr>
<th>Shipment Number</th>
<th>Waste Stream Identification #</th>
<th>Package #</th>
<th>Date of Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPL09025</td>
<td>LRY5LLFY07002</td>
<td>100458</td>
<td>09-16-09</td>
</tr>
<tr>
<td>DPL09025</td>
<td>LRY5LLFY07002</td>
<td>100486</td>
<td>09-16-09</td>
</tr>
</tbody>
</table>

This certification is provided as a courtesy to the waste generator for information purposes only.

Signature        Date

WASTE HANDLER      
Title

Instructions:
Shipment Number – enter shipment number from LWIS database.
Date of Disposal – enter date waste was placed in disposal cell.
Nevada Test Site

This Certificate acknowledges that the following shipment(s) of waste have been disposed at the Nevada Test Site Radioactive Waste Management Site.

<table>
<thead>
<tr>
<th>Shipment Number</th>
<th>Waste Stream Identification #</th>
<th>Package #</th>
<th>Date of Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPL09024</td>
<td>LRY5LLFY07002</td>
<td>450000 (QG003422)</td>
<td>09-16-09</td>
</tr>
<tr>
<td>DPL09024</td>
<td>LRY5LLFY07002</td>
<td>460000 (QG003423)</td>
<td>09-16-09</td>
</tr>
<tr>
<td>DPL09024</td>
<td>LRY5LLFY07002</td>
<td>520000 (QG003429)</td>
<td>09-16-09</td>
</tr>
<tr>
<td>DPL09024</td>
<td>LRY5LLFY07002</td>
<td>550000 (QG003433)</td>
<td>09-16-09</td>
</tr>
<tr>
<td>DPL09024</td>
<td>LRY5LLFY07002</td>
<td>560000 (QG003434)</td>
<td>09-16-09</td>
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<tr>
<td>DPL09024</td>
<td>LRY5LLFY07002</td>
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<td>09-16-09</td>
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<tr>
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<td>LRY5LLFY07002</td>
<td>681074</td>
<td></td>
</tr>
</tbody>
</table>

This certification is provided as a courtesy to the waste generator for information purposes only.

[Signature]

9-11-09 [Date]

WASTE HANDLER

Title

Instructions:
Shipment Number – enter shipment number from LWIS database.
Date of Disposal – enter date waste was placed in disposal cell.
# NTS LANDFILL LOAD VERIFICATION

**SWO USE (Select One):** AREA 23 \( \Box \) 6 \( \Box \) 9/10C

**LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

**REQUIRED: WASTE GENERATOR INFORMATION**

(This form is for rolloffs, dump trucks, and other on-site disposal of materials.)

<table>
<thead>
<tr>
<th>Waste Generator: Rebecca King</th>
<th>Phone Number: 5-5804</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location / Origin: CAU 114 E-MAD Area 25</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Waste Category (check one):</th>
<th>Commercial □</th>
<th>Industrial ( \Box )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Type (check one):</td>
<td>NTS □</td>
<td>Non-Portland □</td>
</tr>
<tr>
<td>(check one):</td>
<td>Putrescible □</td>
<td>Asbestos Containing Material □</td>
</tr>
<tr>
<td>Pollution Prevention Category (check one):</td>
<td>Environmental management ( \Box )</td>
<td>Defense Projects □</td>
</tr>
<tr>
<td>Pollution Prevention Category (check one):</td>
<td>Clean-Up ( \Box )</td>
<td>Routine □</td>
</tr>
<tr>
<td>Method of Characterization (check one):</td>
<td>Sampling &amp; Analysis ( \Box )</td>
<td>Process Knowledge □</td>
</tr>
</tbody>
</table>

**Prohibited Waste at all three NTS landfills:**
- Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).
- Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos.

**REQUIRED: WASTE CONTENTS ALLOWABLE WASTES**

Check all allowable wastes that are contained within this load:

- Acceptable waste at any NTS landfill:
  - Paper □
  - Rocks / unaltered geologic materials □
  - Empty containers □
  - Asbestos \( \Box \)
  - Metal □
  - Wood □
  - Soil □
  - Rubber (excluding tires) □
  - Demolition debris □
  - Plastic □
  - Wire □
  - Cable □
  - Cloth □
  - Insulation (non-Asbestos form) □
  - Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.) □
  - Asbestos □
  -Friable □
  - Non-Friable (contact SWO if regulated load) □

**Additional waste accepted at the Area 23 Mercury Landfill:**
- Office Waste □
- Food Waste □
- Animal Carcasses □

**Additional waste accepted at the Area 9 U10c Landfill:**
- Non-Friable (contact SWO if regulated load) □
- Drained automobiles and military vehicles □
- Solid fractions from sand/oil/water □
- Drained fuel filters (gas & diesel) □
- Decomposed Underground and Above Ground Tanks □

**Additional waste accepted at the Area 8 Hydrocarbon Landfill:**
- Septic sludge □
- Rags □
- Drained fuel filters (gas & diesel) □
- Crushed non-ferrous plated oil filters □
- Plants □
- Soil □
- Sludge from sand/oil/water separators □
- PCBs below 50 parts per million □

**REQUIRED: WASTE GENERATOR SIGNATURE**

Initials: ________ (if initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those items. I have verified this through the waste characterization method. I have contacted Property Management is approved for disposal in the landfill.

Print Name: Rebecca King

Signature: [Signature]

Date: [Date]

Note: "Food waste, office trash and animal carcasses do not require a radiologic must have signed removal certification statement with Load Verification."

**SWO USE ONLY**

Load Weight (net from scale or estimate): 42,500 lb [\( \Box \) 2-10-11]

Signature of Certifier: [Signature]
NTS LANDFILL LOAD VERIFICATION

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7893.

REQUnd: WASTE GENERATOR INFORMATION

This form is for rolloffs, dump trucks, and other onsite disposal of materials.

Waste Generator: Rebecca King
Location / Origin: CAU 114 E-MAD

Waste Category: (check one) ☐ Commercial ☒ Industrial

Waste Type: ☒ NTS ☐ Putrescible ☐ FFACO-ontoite ☐ FFACO-offsite ☐ WAC Exception
☐ Non-Putrescible ☐ Asbestos Containing Material ☐ Historic DOE/NV

Pollution Prevention Category: (check one) ☐ Environmental management ☐ Defense Projects ☐ YMP

Method of Characterization: (check one) ☐ Sampling & Analysis ☒ Process Knowledge ☐ Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10C Landfill: Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

REQUnd: WASTE CONTENTS ALLOWABLE WASTES

Check all allowable wastes that are contained within this load:

NOTE: Waste disposal at the Area 8 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants, such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulic fluids; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: ☒ Paper ☐ Rocks / unaltered geologic materials ☐ Empty containers
☐ Asphalts ☒ Metal ☐ Wood ☐ Soil ☐ Rubber (excluding tires) ☐ Demolition debris
☐ Plastic ☒ Wire ☐ Cable ☒ Cloth ☐ Insulation (non-Asbestosform) ☐ Cement & concrete
☒ Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: ☐ Office Waste ☐ Food Waste ☐ Animal Carcasses
Quantity:

Additional waste accepted at the Area 9 U10C Landfill:
☐ Non-friable asbestos ☒ Drained automobiles and military vehicles ☐ Solid fractions from sand/oil/water
☐ Light ballasts (contact SWO) ☐ Drained fuel filters (gas & diesel) ☐ Decomposed Underground and Above
☐ Hydracarbons (contact SWO) ☐ Other
☐ Ground Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
☒ Septic sludge ☐ Rags ☐ Drained fuel filters (gas & diesel) ☐ Crushed non-ferrous plated metal filters
☐ Plants ☐ Soil ☐ Sludge from sand/oil/water separators ☐ PCBs below 50 parts per million

REQUnd: WASTE GENERATOR SIGNATURE

Initials: initialed, no radiological clearance is necessary.

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are allowed for disposal at this site. I have verified this through the waste characterization method identified above and a review of the above-mentioned prohibited and allowable waste items. I have contacted Property Management and have verified that this material/equipment is approved for disposal in the landfill.

Print Name: Paul E. DeWitt
Signature:  
Date: 8/18/10

Note: "Food waste, office trash and animal carcasses do not require a radiological clearance. Freon-containing appliances must have signed removal certification statement with Load Verification."

SWO USE ONLY
Load Weight (not from scale or estimate): 6,940
Signature of Certifier:

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.
# NTS LANDFILL LOAD VERIFICATION

**SWO USE (Select One) AREA** □ 23 □ 6 □ 9/10C **LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7998.

**REQUICK: WASTE GENERATOR INFORMATION**

(This form is for roll-offs, dump trucks, and other onsite disposal of materials.)

<table>
<thead>
<tr>
<th>Waste Generator: Rebecca King</th>
<th>Phone Number: 5-5804</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location / Origin: Area 25 CAU 114 FMAO</td>
<td><strong>FAX:</strong> 5 - 7918</td>
</tr>
</tbody>
</table>

**Waste Category:** (check one) □ Commercial □ Industrial

<table>
<thead>
<tr>
<th>Waste Type:</th>
<th>□ NTS □ Putrescible □ Non-Putrescible □ Asbestos Containing Material □ FFACO-onsite □ WAC Exception □ FFACO-offsite □ Historic DOE/NV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollution Prevention Category: (check one) □ Environmental management □ Defense Projects □ YMP</td>
<td></td>
</tr>
<tr>
<td>Pollution Prevention Category: (check one) □ Clean-Up □ Routine □ Sampling &amp; Analysis □ Process Knowledge □ Contents</td>
<td></td>
</tr>
</tbody>
</table>

Prohibited Waste at all three NTS landfills:
- Radioactive waste; RCRA waste; Hazardous waste; Fluids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).
- Seawage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

**REQUICK: WASTE CONTENTS ALLOWABLE WASTES**

Check all allowable wastes that are contained within this load:

- Waste disposal at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants, such as: gases; organic liquid; Jet fuel; diesel fuel; lubricants and hydraulic; kerosene; asphaltic petroleum hydrocarbons; and ethylene glycol.

**Acceptable waste at any NTS landfill:** □ Paper □ Rocks / unaltered geologic materials □ Empty containers

<table>
<thead>
<tr>
<th>Asbestos</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Plastic</td>
</tr>
<tr>
<td>□ Wire</td>
</tr>
<tr>
<td>□ Cable</td>
</tr>
<tr>
<td>□ Cloth</td>
</tr>
<tr>
<td>□ Insulation (non-Asbestosform)</td>
</tr>
<tr>
<td>□ Cement &amp; concrete</td>
</tr>
</tbody>
</table>

**Manufactured items:** (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

<table>
<thead>
<tr>
<th>Asbestos</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Friable</td>
</tr>
<tr>
<td>□ Non-Friable (contact SWO if regulated load)</td>
</tr>
</tbody>
</table>

**Additional waste accepted at the Area 23 Mercury Landfill:** □ Office Waste □ Food Waste □ Animal Carcasses

**Additional waste accepted at the Area 9 U10c Landfill:**
- □ Non-friable asbestos
- □ Drained automobiles and military vehicles
- □ Drained fuel filters (gas & diesel)
- □ Hydrocarbons (contact SWO)
- □ Other □ Decommissioned Underground and Above Ground Tanks
- □ Crushed non-tarred coated metal filters
- □ PCBs below 50 parts per million

**REQUICK: WASTE GENERATOR**

**Radiological Survey Release for Waste Disposal**

<table>
<thead>
<tr>
<th>RCT Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ This container or load meets the criteria for no added man-made radioactive material</td>
</tr>
<tr>
<td>□ This container or load meets the criteria for Radon Manual Table 4.2 release limits</td>
</tr>
<tr>
<td>□ This container or load is exempt from survey due to risk knowledge and origin</td>
</tr>
</tbody>
</table>

**SIGNATURE**

<table>
<thead>
<tr>
<th>DATE: 6/3/19</th>
</tr>
</thead>
<tbody>
<tr>
<td>F92-0046 (8/09)</td>
</tr>
</tbody>
</table>

**Print Name:** Dan Tobasco

<table>
<thead>
<tr>
<th>Signature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date: 6/3/19</td>
</tr>
</tbody>
</table>

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance. Freon-containing appliances, must have signed removal certification statement with Load Verification."

**SWO USE ONLY** □ 6-3-14

Load Weight (net from scale or estimate): □ 5,380 □ Signature of Certifier
**NTS LANDFILL LOAD VERIFICATION**

**SWO USE (Select One) AREA**
- 23
- 6
- 9/10C

**LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

**REQUIRED: WASTE GENERATOR INFORMATION**
(This form is for roll-offs, dump trucks, and other onsite disposal of materials.)

- **Waste Generator:** Rebecca King
- **Phone Number:** 5-5804
- **Fax:** 5-7918

**Location / Origin:**
- **Area 25 CAU 114 EMAD**

**Waste Category:**
- [x] Industrial
- [ ] Commercial
- [ ] Non-Putrescible
- [ ] Putrescible
- [ ] Asbestos Containing Material
- [ ] FFAO-onsite
- [ ] FFAO-offsite
- [ ] Historic DOE/NV
- [ ] Environmental management
- [x] Routine
- [x] Clean-Up
- [ ] Sampling & Analysis
- [ ] Process Knowledge
- [x] Contents

**Method of Characterization:**
- [ ] Prohibited Waste at all three NTS landfills:
  - Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).
  - Additional Prohibited Waste at the Area 9 U10C Landfill:
    - Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

**Required: Waste Contents Allowable Wastes**

Check all allowable wastes that are contained within this load:

- [ ] Acceptable waste at any NTS landfills: Phone, unaltered geologic materials
- [ ] Asphalt, Metal
- [ ] Wood, Soil
- [ ] Rubber (excluding tires)
- [ ] Cloth, Insulation (non-Asbestosform)
- [x] Paper, Rocks/unaltered geologic materials
- [x] Empty containers
- [ ] Demolition debris
- [ ] Cement & concrete
- [ ] Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

**Additional waste accepted at the Area 23 Mercury Landfill:**
- [ ] Office Waste
- [ ] Food Waste
- [ ] Animal Carcasses
- [ ] Asbestos
- [ ] Friable
- [ ] Non-Friable (contact SWO if regulated load)

**Additional waste accepted at the Area 9 U10c Landfill:**
- [ ] Non-friable asbestos
- [x] Drained automobiles and military vehicles
- [ ] Drained fuel filters (gas & diesel)
- [x] Baby strollers (contact SWO)
- [ ] Other

**Additional waste accepted at the Area 6 Hydrocarbon Landfill:**
- [ ] Septic sludge
- [ ] Rags
- [x] Drained fuel filters (gas & diesel)
- [x] Plants
- [ ] Soil
- [ ] Sludge from sand/oil/water separator
- [ ] Solid non-tame plated oil filters
- [ ] Crushed non-tame plated oil filters
- [ ] PCBs below 50 parts per million

**Required: Waste Generation**

- Initials: [ ] (If initial, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only waste that has been verified through the waste characterization method identified herein. It is approved for disposal in the landfill.

**Print Name:** DAN TOGASAI
**Signature:** [ ]
**Date:** 5/6/10

Note: "Food waste, office trash and animal carcasses do not require a radiological clearance. Froon-containing appliances must have a signed removal certification statement with Load Verification."

**SWO USE ONLY**

**Load Weight:** 5340 5/10/10
**Signature of Certifier:** [ ]
## NTS LANDFILL LOAD VERIFICATION

**SWO USE (Select One) AREA □ 23 □ 6 □ 9/10C LANDFILL**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7998.

**REQUIRED: WASTE GENERATOR INFORMATION**

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

<table>
<thead>
<tr>
<th>Waste Generator:</th>
<th>Rebecca King</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location / Origin:</td>
<td>Area 25 CAU 114 EMAD</td>
</tr>
<tr>
<td>Phone Number:</td>
<td>5-5804</td>
</tr>
<tr>
<td>Fix:</td>
<td>S-7918</td>
</tr>
</tbody>
</table>

**Waste Category: (check one)**
- □ Commercial
- □ Industrial
- □ FFACO-onsite
- □ FFACO-offsite
- □ WAC Exception
- □ Asbestos Containing Material
- □ Historic DOE/NV
- □ Defense Projects
- □ YMP
- □ Non-Putrescible
- □ Putrescible
- □ Environmental management
- □ Routine
- □ Sampling & Analysis
- □ Process Knowledge
- □ Contents

**Prohibited Waste at all three NTS landfills:**
- Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).
- Sewage Sludge, Animal carcasses, Wet garbage (food waste), and Friable asbestos

**NOTE:** Waste disposal at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants, such as: gasoline (no benzene, lead); Jet fuel; diesel fuel; lubricants and hydraulic; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

**Acceptable waste at any NTS landfill:**
- □ Asphalt
- □ Metal
- □ Wood
- □ Soil
- □ Paper
- □ Rocks / unaltered geologic materials
- □ Empty containers
- □ Ruber (excluding tires)
- □ Demolition debris
- □ Soil
- □ Cloth
- □ Insulation (non-Asbestos form)
- □ Cement & concrete
- □ Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

**Additional waste accepted at the Area 23 Mercury Landfill:**
- □ Office Waste
- □ Food Waste
- □ Animal Carcasses
- □ Asbestos
- □ Friable
- □ Non-Friable (contact SWO if regulated load)

**Additional waste accepted at the Area 9 U10C Landfill:**
- □ Non-friable asbestos
- □ Drained automobiles and military vehicles
- □ Solid fractions from sand/oil/water
- □ Drained fuel filters (gas & diesel)
- □ Deconed Underground and Above Ground Tanks
- □ Hydrocarbons (contact SWO)
- □ Other

**Additional waste accepted at the Area 6 Hydrocarbon Landfill:**
- □ Septic sludge
- □ Sludge from sand/oil/water separators
- □ Crushed non-ferrous plated oil filters
- □ Rags
- □ Drained fuel filters (gas & diesel)
- □ PCBs below 50 parts per million
- □ Plants
- □ Soil

**Required: Waste Generator Signature**

**Initials:** (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only waste that I have verified through the waste characterization method identified prohibited and allowable waste items. I have contacted Property Manager is approved for disposal in the landfill.

**Print Name:** [Redacted]

**Signature:** [Redacted]

**Date:** [Redacted]

**Note:** Food waste, office trash and animal carcasses do not require a radiological clearance. Freon-containing appliances must have signed removal certification statement with Load Verification.

**SWO USE ONLY**

**Load Weight (net from scale or estimate): 10,400**

**Signature of Certifier:** [Redacted]
**nts Landfill Load Verification**

**SwO Use (Select One)**
- **Area 23**
- **Area 6**
- **Area 9/10c**

**Landfill**

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SwO) at 5-7898.

**Required: Waste Generator Information**

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

- **Waste Generator:** Rebecca King
- **Phone Number:** 5-5804
- **Location/Origin:** Area 26 CAU 114 EMAD
  - Fax: 5-7918

**Waste Category:**
- [ ] Commercial
- [ ] Industrial
- [x] NTs
- [ ] Putrescible
- [x] Non-Putrescible
- [ ] Asbestos Containing Material
- [ ] FFACO-onsite
- [ ] WAC Exception
- [ ] FFACO-offsite
- [ ] Historic DOE/NV

**Pollution Prevention Category:**
- [x] Environmental Management
- [ ] Defense Projects
- [ ] YMP
- [ ] Clean-Up
- [ ] Routine

**Method of Characterization:**
- [x] Sampling and Analysis
- [ ] Process Knowledge
- [x] Contents

Prohibited Waste at all three NTs landfills:
- Radioactive waste; RCRA waste; Hazardous waste; Free liquids; PCBs above TSCA regulatory levels; and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill:
- Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

**Required: Waste Contents Allowable Wastes**

Check all allowable wastes that are contained within this load:

- Acceptable waste at any NTs landfill:
  - [ ] Paper
  - [ ] Rocks/unaltered geologic materials
  - [ ] Empty containers
  - [ ] Asphalt
  - [ ] Metal
  - [x] Wood
  - [x] Soil
  - [ ] Rubber (excluding tires)
  - [ ] Demolition debris
  - [ ] Plastic
  - [x] Wire
  - [x] Cable
  - [ ] Cloth
  - [ ] Insulation (non-Asbestos form)
  - [ ] Cement/concrete
  - [ ] Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill:
- [ ] Office Waste
- [ ] Food Waste
- [ ] Animal Carcasses
- [ ] Asbestos
- [ ] Friable
- [ ] Non-Friable (contact SWO if regulated load)

Additional waste accepted at the Area 9 U10c Landfill:
- [x] Non-friable asbestos
- [ ] Drained automobiles and military vehicles
- [ ] Solid fractions from sand/soil/water
- [ ] Drained fuel filters (gas & diesel)
- [x] Decommissioned underground and Above Ground Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
- [ ] Septic sludge
- [ ] Rags
- [ ] Drained fuel filters (gas & diesel)
- [ ] Sludge from sand/soil/water separators
- [ ] PCBs below 50 parts per million

**Required: Waste Generator Signature**

- **Initials:** __________ (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management system, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those items that I have verified through the waste characterization method identified in the form. I have contacted Property Management for disposal in the landfill.

- **Print Name:** Christine Markin
- **Signature:** ____________________________
- **Date:** 4-5-10

Note: "Food waste, once trash and animal carcasses do not require a radiological clearance. Freon-containing appliances must have signed removal certification statement with Load Verification."

**SwO Use Only**

- **Load Weight (not from scale or estimate):** 12,280

**Signature of Certifier**

---

**Radiological Survey Release for Waste Disposal**

- **NCT Initials:** __________
- **This container/load meets the criteria for no added man-made radioactive material.**
- **This container/load meets the criteria for:**
- **This container/load is exempt from survey due to knowledge and origin.**

**Signature:** __________

**Release Sticker**

Here. Onsite use only.
# NTS LANDFILL LOAD VERIFICATION

**SWO USE (Select One) AREA**  
23  6  **9/10C**  LANDFILL  

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7889.

**REQUIRED: WASTE GENERATOR INFORMATION**  
(This form is for rolls off, dump trucks, and other on site disposal of materials.)

<table>
<thead>
<tr>
<th>Waste Generator</th>
<th>Rebecca King</th>
<th>Phone Number: 5-5804</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location / Origin</td>
<td>Area 25 CAU 114 EMAD</td>
<td><strong>Fax - 5 - 7718</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Waste Category</th>
<th>Commercial</th>
<th>Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Type</td>
<td>NTS</td>
<td>Putrescible</td>
</tr>
<tr>
<td>(check one)</td>
<td>Non-Putrescible</td>
<td>Asbestos Containing Material</td>
</tr>
<tr>
<td>Pollution Prevention Category</td>
<td>Environmental management</td>
<td>Defense Projects</td>
</tr>
<tr>
<td>Pollution Prevention Category</td>
<td>Clean-Up</td>
<td>Routine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Method of Characterization</th>
<th>Sampling &amp; Analysis</th>
<th>Process Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prohibited Waste at all three NTS landfills</td>
<td>Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical waste (needles, sharps, bloody clothing)</td>
<td></td>
</tr>
<tr>
<td>Additional Prohibited Waste at the Area 9 U10c Landfill</td>
<td>Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos</td>
<td></td>
</tr>
</tbody>
</table>

**REQUIRED: WASTES CONTENTS ALLOWABLE WASTES**

Check all allowable wastes that are contained within this load:

- **Paper**
- **Rocks / unaltered geologic materials**
- **Empty containers**
- **Asphalt**
- **Metal**
- **Wood**
- **Soil**
- **Rubber (excluding tires)**
- **Demolition debris**
- **Plastic**
- **Wire**
- **Cable**
- **Cloth**
- **Cement & concrete**
- **Manufactured items:** (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

### Additional waste accepted at the Area 23 Mercury Landfill:
- Office Waste
- Food Waste
- Animal Carcasses
- Asbestos
- Friable
- Non-Friable (contact SWO if regulated load)

### Additional waste accepted at the Area 9 U10c Landfill:
- Non-friable asbestos
- Drained automobiles and military vehicles
- Solid fractions from sand/oil/water
- Light ballasts (contact SWO)
- Drained fuel filters (gas & diesel)
- Decommed Underground and Above Ground Tanks
- Hydrocarbons (contact SWO)
- Other

### Additional waste accepted at the Area 6 Hydrocarbon Landfill:
- Sump sludge
- Rags
- Drained fuel filters (gas & diesel)
- Plants
- Soil
- Sludge from sand/oil/water separators
- Crushed non-terne plated oil filters
- PCBs below 50 parts per million

**INITIALS:**  
(If initiated, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only the site. I have verified this waste characterization method identified prohibited and allowable waste items. I have contacted Property Management and approval was disposed in the landfill.

**PRINT NAME:**  
**SIGNATURE:**  
**DATE:**  

**NOTE:**  
"Food waste, office trash and animal carcasses do not require a radiological clearance. Freon-containing appliances must have signed removal certification statement with Load Verification."

**SWO USE ONLY**  
Load Weight (net from scale or estimate): 4340  
**Signature of Certifier:**
NTS LANDFILL LOAD VERIFICATION

SWO USE (Select One) AREA 23 6 ❋ 9/10C LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION
(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Rebecca King
Phone Number: 5-5804

Location / Origin: Area 25 CAU 114 EMAD

Waste Category: (check one) ☐ Commercial ☒ Industrial
Waste Type: ☒ NTS ☒ Non-Putrescible ☒ Asbestos Containing Material
(check one) ☒ Putrescible ☒ FFACO-on-site ☒ WAC Exception
Pollution Prevention Category: (check one) ☒ Environmental management ☒ Defense Projects
Pollution Prevention Category: (check one) ☒ Clean-Up ☒ YMP

Method of Characterization: (check one) ☒ Sampling & Analysis ☒ Process Knowledge ☒ Contents

Prohibited Waste at all three NTS landfills: Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10c Landfill: Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

NOTE: Waste disposal at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolant, such as gasoline (no benzene, lead), jet fuel, diesel fuel, lubricants and hydraulic fluids; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill: ☐ Paper ☒ Rocks / unaltered geologic materials ☒ Empty containers
☐ Asphalt ☒ Metal ☒ Wood ☒ Soil ☒ Rubber (excluding tires) ☒ Demolition debris
☒ Plastic ☒ Wire ☒ Cable ☒ Cloth ☒ Insulation (non-Asbestosform) ☒ Cement & concrete
☐ Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

Additional waste accepted at the Area 23 Mercury Landfill: ☐ Office Waste ☐ Food Waste ☐ Animal Carcasses
☐ Asbestos ☐ Friable ☒ Non-Friable (contact SWO if regulated load) Quantity:

Additional waste accepted at the Area 9 U10c Landfill:
☐ Non-friable asbestos ☐ Solids fractions from sand/oil/water
☐ Light ballast (contact SWO) ☐ Drained fuel filters (gas & diesel) ☐ Decommissioned Underground and Above Ground Tanks
☐ Hydrocarbons (contact SWO) ☐ Other

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
☐ Septic sludge ☐ Rags ☐ Drained fuel filters (gas & diesel) ☐ Crushed non-ferrous plated oil filters
☐ Plants ☐ Soil ☐ Sludge from sand/oil/water separators ☐ PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR

Initials: [signature]

The above-mentioned waste was generated outside of a Controlled Waste Facility, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only the site. I have verified this through the waste characterization method identifies prohibited and allowable waste items. I have contacted Property Management for approval for disposal in the landfill.

Print Name: DAN TEGDSON
Signature: [signature]

Note: Food waste, office trash and animal carcasses do not require a radiological clearance. Food-containing appliances must have signed removal certification statement with Load Verification.

SWO USE ONLY

Load Weight (net from scale or estimate): 320 3-25-10

Radiological Survey Release for Waste Disposal

RGT initials: [signature]

This container/load meets the criteria for no added man-made radioactive material
This container/load meets the criteria for RGamma Manual Table 4.2 release limits.
This container/load is exempt from survey due to source knowledge and origin.

SIGNATURE: [signature]

DATE: 3-25-10

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.
# NTS LANDFILL LOAD VERIFICATION

**SWO USE (Select One)**

<table>
<thead>
<tr>
<th>AREA</th>
<th>USE</th>
<th>LANDFILL</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>6</td>
<td>9/10C</td>
</tr>
</tbody>
</table>

**Waste Generator:** Rebecca King  
**Phone Number:** 5-5804  
**Location / Origin:** ARE 25 CAU 114 EMAD  
**Fax:** 5-7918

**Waste Category:**
- Industrial

**Waste Type:**
- NTS

**Pollution Prevention Category:**
- Clean-Up

**Method of Characterization:**
- Sampling & Analysis

**Prohibited Waste at all three NTS landfills:**
- Radioactive waste; RCR waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).

**Additional Prohibited Waste at the Area 9 U10C Landfill:**
- Sewage sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

**Required: Waste Contents Allowable Wastes**

- Check all allowable wastes that are contained within this load:
  - Acceptable waste at any NTS landfill:
    - Paper
    - Rocks / unaltered geologic materials
    - Empty containers
    - Demolition debris
    - Insulation (non-Asbestos form)
    - Cement & concrete
    - Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)
  - Additional waste accepted at the Area 23 Mercury Landfill:
    - Office Waste
    - Food Waste
    - Animal Carcasses
    - Non-Friable (contact SWO if regulated load)
  - Additional waste accepted at the Area 9 U10C Landfill:
    - Non-friable asbestos
    - Drained automobiles and military vehicles
    - Solid fractions from sand/oil/water
    - Decommissioned underground and above ground tanks
  - Additional waste accepted at the Area 6 Hydrocarbon Landfill:
    - Septic sludge
    - Drained fuel filters (gas & diesel)
    - Crushed non-terne plated oil filters
    - PCBs below 50 parts per million

**Initials:**  
(if initiated, no radiological clearance is necessary)

**Print Name:** Dan Mabson  
**Signature:** Dan Mabson  
**Date:** 3/23/10

**Required: Waste Generator Signature**

**Radiological Survey Release for Waste Disposal**

- This container/load meets the criteria for no added man-made radioactive material.
- This container/load meets the criteria for Radon Manual Table 4.2 release limits.
- This container/load is exempt from survey due to knowledge and origin.

**Radiological Survey Release Sticker**

- On site only.

**SWO USE ONLY**

- Load Weight (not from scale or estimate): 3160

**Signature of Certifier:**
NTS LANDFILL LOAD VERIFICATION

SWO USE (Select One) AREA □ 23 □ 6 □ 9/10C LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

REQUIRED: WASTE GENERATOR INFORMATION
(This form is for roll-offs, dump trucks, and other onsite disposal or materials.)

Waste Generator: Rebecca King

Location / Origin: Area 25 CAU 114 EMAD

Waste Type: (check one) □ NTS □ Putrescible □ Industrial
(Continuation) □ Non-Putrescible □ Asbestos Containing Material □ FFACO-on-site □ WAC Exception

Pollution Prevention Category: (check one) □ Environmental management □ FFACO-offsite □ Historic DOE/NV

Method of Characterization: (check one) □ Sampling & Analysis □ Process Knowledge □ Contents

Prohibited Waste at all three NTS landfills:
□ Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).

Additional Prohibited Waste at the Area 9 U10C Landfill:
□ Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

NOTE: Waste disposal at the Area 6 Hydrocarbon Landfill must have come into contact with petroleum hydrocarbons or coolants, such as: gasoline (no benzene, lead); jet fuel; diesel fuel; lubricants and hydraulics; kerosene; asphaltic petroleum hydrocarbon; and ethylene glycol.

Acceptable waste at any NTS landfill:
□ Asphalt □ Metal □ Wood □ Soil □ Paper □ Rocks / unaltered geologic materials □ Empty containers
□ Plastic □ Wire □ Cable □ Cloth □ Insulation (non-Asbestosform) □ Demolition debris
□ Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.) □ Cement & concrete

Additional waste accepted at the Area 23 Mercury Landfill:
□ Asbestos □ Friable □ Non-Friable (contact SWO if regulated load)
□ Office Waste □ Food Waste □ Animal Carcasses

Additional waste accepted at the Area 9 U10C Landfill:
□ Non-friable asbestos □ Drained automobiles and military vehicles □ Solid fractions from sand/oil/water
□ Light ballast (contact SWO) □ Drained fuel filters (gas & diesel) □ Decomposed Underground and Above
□ Hydrocarbons (contact SWO) □ Other □ Ground Tanks

Additional waste accepted at the Area 6 Hydrocarbon Landfill:
□ Septic sludge □ Rags □ Drained fuel filters (gas & diesel) □ Crushed non-terme plate oil filters
□ Plants □ Soil □ Sludge from sand/oil/water separators □ PCBs below 50 parts per million

REQUIRED: WASTE GENERATOR

Initials: (If initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste and, to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only

Print Name: DAN JENSEN

Signature: Date: 3/23/10

Note: "Food waste, office trash and animal carcasses do not require a radiological clearance. Freon-containing appliances must have signed removal certification statement with Land Verification."

Load Weight (net from scale or estimate): 2,000 Signature of Certifier: 3/23/0
# NTS LANDFILL LOAD VERIFICATION

**SWO USE (Select One)**
- [ ] 23
- [ ] 6
- [x] 9
- [ ] LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7698.

**Waste Generator:** Kevin Olsen

**Location / Origin:** Area 25 CAU 114 EMAD

**Phone Number:** 5-2941

**Waste Category:**
- [x] Industrial
- [ ] Commercial
- [ ] Non-Putrescible
- [ ] Putrescible
- [ ] Asbestos Containing Material
- [x] FFACO-onsite
- [ ] FFACO-offsite
- [ ] Historic DOE/NV
- [ ] Routine
- [ ] Sampling & Analysis
- [ ] Environmental management
- [ ] Defense Projects
- [ ] YMP
- [ ] Route

**Method of Characterization:**
- [ ] Process Knowledge
- [ ] Contents

**Prohibited Waste at all three NTS landfills:**
- Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).
- Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

**Required: Waste Contents Allowable Wastes**
- Check all allowable wastes that are contained within this load:
- Asbestos
- Friable
- Non-Friable (contact SWO if regulated load)

**Asphalt**
- [ ] Metal
- [ ] Wood
- [ ] Soil
- [ ] Rubber (excluding tires)
- [ ] Insulation (non-Asbestosform)
- [ ] Concrete
- [ ] Insulation
- [ ] Paper
- [ ] Rocks / unaltered geologic materials
- [ ] Empty containers
- [ ] Demolition debris
- [ ] Cement & concrete
- [ ] Insulation

**Additional waste accepted at the Area 23 Mercury Landfill:**
- Office Waste
- Food Waste
- Animal Carcasses

**Additional waste accepted at the Area 9 U10C Landfill:**
- Drained automobiles and military vehicles
- Drained fuel filters (gas & diesel)
- Deconed Underground and Above Ground Tanks

**Additional waste accepted at the Area 6 Hydrocarbon Landfill:**
- Crushed non-time plated oil filters
- PCBs below 50 parts per million

**Initials:**__ (if initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that have been characterized and are approved for disposal in the landfill.

**Print Name:** Kevin Olsen

**Signature:**

**Date:** 5-4-09

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance statement with Load Verification."

**SWO USE ONLY**

**Load Weight (net from scale or estimate):** 30,000

**Signature of Certifier:**

**Radiological Survey Release for Waste Disposal**

**This container/lead meets the criteria for no added man-made radioactive material**

**This container/lead meets the criteria for Radcon Manual Table 4.2 release limits. This container/lead is exempt from survey due to presence knowledge and origin.**

**SIGNATURE:**

**DATE:** 5-4-09

**IN-0040 (1800)**
# NTS LANDFILL LOAD VERIFICATION

**Form**: FRM-0918  
**Date**: 08/23/06  
**Page**: 1 of 2  
**Revised**: 0

## SWT Use (Select One)
- **AREA**: 23  
- **LOAD**: 6  
- **LANDFILL**: X

**For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7698.**

**REQUIRED: WASTE GENERATOR INFORMATION**

This form is for roll-offs, dump trucks, and other on-site disposal of materials.

<table>
<thead>
<tr>
<th>Waste Generator</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kevin Olsen</td>
<td>5-2941</td>
</tr>
</tbody>
</table>

**Location / Origin**: Area 25 CAU 114 EMAD

### Waste Category
- [ ] Commercial  
- [X] Industrial  
- [ ] Non-Industrial  

### Waste Type
- [ ] NTS  
- [ ] Putrescible  
- [ ] Asbestos-containing Material  
- [ ] Radioactive  
- [ ] RCRA  
- [ ] Hazardous  
- [ ] Free liquids, PCBs above TSCA regulatory levels  
- [ ] Contaminated soils  
- [ ] Medical wastes (needles, sharps, bloody clothing)  

### Pollution Prevention Category
- [ ] Environmental Management  
- [ ] Defense Projects  
- [ ] YMP  

### Method of Characterization
- [ ] Sampling & Analysis  
- [ ] Process Knowledge  
- [ ] Contents

**Prohibited Waste at all three NTS landfills**:
- Radioactive waste  
- RCRA waste  
- Hazardous waste  
- Free liquids, PCBs above TSCA regulatory levels  
- Medical wastes (needles, sharps, bloody clothing)  

**Additional Prohibited Waste at the Area 9 U10c Landfill**:
- Sewage Sludge, Animal carcasses, Wet garbage (food waste)  
- Friable asbestos

**REQUIRED: WASTE CONTENTS ALLOWABLE WASTES**

Check all allowable wastes that are contained within this load:

**Acceptable waste at any NTS landfill**:
- [ ] Paper  
- [ ] Rocks / unaltered geologic materials  
- [ ] Empty containers  
- [ ] Metal  
- [ ] Wood  
- [ ] Soil  
- [ ] Rubber (excluding tires)  
- [ ] Insulation (non-Asbestos)  
- [ ] Demolition debris  
- [ ] Plastic  
- [ ] Wire  
- [ ] Cable  
- [ ] Cloth  
- [ ] Insulation (non-Asbestos)  
- [ ] Cement & concrete  
- [ ] Manufactured items: (swamp coolers, furniture, rugs, carpet, electronic components, PPE, etc.)

**Additional waste accepted at the Area 23 Mercury Landfill**:
- [ ] Office Waste  
- [ ] Food Waste  
- [ ] Animal Carcasses

**Additional waste accepted at the Area 9 U10c Landfill**:
- [ ] Non-friable asbestos  
- [ ] Solid fractions from sand/water  
- [ ] Drained automobiles and military vehicles  
- [ ] Drained fuel filters (gas & diesel)  
- [ ] Ground tanks  
- [ ] Light ballasts (contact SWO)  
- [ ] Other

**Additional waste accepted at the Area 6 Hydrocarbon Landfill**:
- [ ] Septic sludge  
- [ ] Rags  
- [ ] Drained fuel filters (gas & diesel)  
- [ ] Crushed non-ferrous plated oil filters  
- [ ] Plants  
- [ ] Soil  
- [ ] Sludge from sand/water separators  
- [ ] PCBs below 50 parts per million

**REQUIRED: WASTE GENERATOR SIGNATURE**

Initials: (If initialed, no radiological clearance is necessary.)

The above-mentioned waste was generated outside of a Controlled Waste Management Area (CWMA) and to the best of my knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those materials that are not prohibited and allowable waste items. I have verified this through the waste characterization method identified above and am authorized to dispose of this waste.

**Print Name:** Kevin Olsen  
**Signature:**

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance form."

SWO USE ONLY  
**Load Weight (net from scale or estimate):** 23.020  
**Signature of Certifier:**  
**Date:** 5-5-09

---

**Radiological Survey Release for Waste Disposal**

- **RCT Initials:**
- **Date:** 4-30-08
- **Signature:**
- **Date:** 4-30-08

---

**Print Name:** Kevin Olsen  
**Signature:**

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance form."

**Load Weight (net from scale or estimate):** 23.020  
**Signature of Certifier:**

---

**Print Name:** Kevin Olsen  
**Signature:**

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance form."

**Load Weight (net from scale or estimate):** 23.020  
**Signature of Certifier:**

---

**Print Name:** Kevin Olsen  
**Signature:**

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance form."

**Load Weight (net from scale or estimate):** 23.020  
**Signature of Certifier:**

---

**Print Name:** Kevin Olsen  
**Signature:**

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance form."

**Load Weight (net from scale or estimate):** 23.020  
**Signature of Certifier:**

---

**Print Name:** Kevin Olsen  
**Signature:**

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance form."

**Load Weight (net from scale or estimate):** 23.020  
**Signature of Certifier:**

---

**Print Name:** Kevin Olsen  
**Signature:**

**Note:** "Food waste, office trash and animal carcasses do not require a radiological clearance form."

**Load Weight (net from scale or estimate):** 23.020  
**Signature of Certifier:**
**NTS LANDFILL LOAD VERIFICATION**

**SWO USE (Select One)**  AREA  23  6  9  LANDFILL

For waste characterization, approval, and assistance, contact Solid Waste Operation (SWO) at 5-7898.

**REQUIRED: WASTE GENERATOR INFORMATION**
(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

<table>
<thead>
<tr>
<th>Waste Generator</th>
<th>Christopher McGovin</th>
<th>Phone Number: 5-6211</th>
</tr>
</thead>
</table>

| Location / Origin | 255 114 605 25-4-03 | E-mod |

<table>
<thead>
<tr>
<th>Waste Category: (check one)</th>
<th>Commercial</th>
<th>Industrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Type: (check one)</td>
<td>NTS</td>
<td>Non-Putrescible</td>
</tr>
<tr>
<td>Asbestos Containing Material</td>
<td>FFACO-onsite</td>
<td>FFACO-offsite</td>
</tr>
<tr>
<td>Historic DOE/MV</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pollution Prevention Category: (check one)**
- Environmental management
- Defense Projects
- YMP

**Pollution Prevention Precaution: (check one)**
- Clean-Up
- Routine

**Method of Characterization: (check one)**
- Sampling & Analysis
- Process Knowledge
- Contents

**Prohibited Waste at all three NTS Landfills:**
- Radioactive waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels; Medical waste (needles, sharps, bloody clothing).

**Additional Prohibited Waste at the Area 9 U10c Landfill:**
- Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

**REQUIRED: WASTE CONTENTS ALLOWABLE WASTES**
Check all allowable wastes that are contained within this load:

<table>
<thead>
<tr>
<th>Acceptable waste at any NTS landfill:</th>
<th>Paper</th>
<th>Rocks / unaltered geologic materials</th>
<th>Empty containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic</td>
<td>Metal</td>
<td>Wood</td>
<td>Soll</td>
</tr>
<tr>
<td>Wire</td>
<td>Cloth</td>
<td>Insulation (non-Asbestosform)</td>
<td>Cement &amp; concrete</td>
</tr>
</tbody>
</table>

**Additional waste accepted at the Area 23 Mercury Landfill:**
- Office Waste
- Food Waste
- Animal Carcasses

**Additional waste accepted at the Area 9 U10c Landfill:**
- Non-Friable (contact SWO if regulated load)

**Additional waste accepted at the Area 6 Hydrocarbon Landfill:**
- Solid fractions from sand/oil/water
- Decanted Underground and Above Ground Tanks

**Additional waste accepted at the Area 6 Hydrocarbon Landfill:**
- Crushed non-ferrous plated oil filters
- PCBs below 50 parts per million

**REQUIRED: WASTE GENERATOR SIGNATURE**

Initials: _______(if initialed, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste Management knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only those in site. I have verified this through the waste characterization method identified at prohibited and allowable waste items. I have contacted Property Management for disposal in the landfill.

Print Name: Christopher McGovin

Signature: ____________________________  Date: 4-30-09  
Note: "Food waste, office trash and animal carcasses do not require a radiological clearance. Freon-containing appliances must have signed removal certification statement with Load Verification."

**SWO USE ONLY**
- 4-30-09

Load Weight (not from scale or estimate): 5830 Lb
## NTS LANDFILL LOAD VERIFICATION

### SWO USE (Select One) AREA
- [ ] 23
- [ ] 6
- [X] 9
- [ ] LANDFILL

For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7998.

### REQUIRED: WASTE GENERATOR INFORMATION

(This form is for rolloffs, dump trucks, and other onsite disposal of materials.)

**Waste Generator:** Christopher McGoun  
**Phone Number:** 5-6211

**Location / Origin:** CAV 114, CAS 25-41-03, E-Mad

**Waste Category:** (check one)  
- [X] Industrial
- [ ] Commercial
- [ ] Non-putrescible
- [ ] Putrescible
- [ ] Asbestos-containing material
- [ ] FFAQO-onsite
- [ ] FFAQO-offsite
- [ ] WAC Exception
- [ ] Historic DOE/NV
- [ ] Routine
- [ ] Environmental management
- [ ] Defense Projects
- [ ] YMP
- [ ] Sampling & Analysis
- [ ] Process Knowledge
- [ ] Contents

**Method of Characterization:** (check one)  
- [ ] Radiological waste; RCRA waste; Hazardous waste; Free liquids, PCBs above TSCA regulatory levels, and Medical wastes (needles, sharps, bloody clothing).
- [ ] Sewage Sludge, Animal carcasses, Wet garbage (food waste); and Friable asbestos

**Prohibited Waste at all three NTS landfills:**
- [ ] Asbestos
- [ ] Filled
- [ ] Non-Friable (contact SWO if regulated load)

**Additional waste accepted at the Area 23 Mercury Landfill:**
- [ ] Office Waste
- [ ] Food Waste
- [ ] Animal Carcasses
- [ ] Asbestos
- [ ] Filled
- [ ] Non-Friable (contact SWO if regulated load)

**Additional waste accepted at the Area 9 U10C Landfill:**
- [ ] Non-friable asbestos
- [ ] Drained automobiles and military vehicles
- [ ] Solid fractions from sand/oil/water
- [ ] Light ballasts (contact SWO)
- [ ] Drained fuel filters (gas & diesel)
- [ ] Decommissioning above and below ground tanks
- [ ] Hydrocarbons (contact SWO)
- [ ] Other
- [ ] Crushed non-ferrous plated oil filters
- [ ] PCBs below 50 parts per million
- [ ] Septic sludge
- [ ] Rags
- [ ] Drained fuel filters (gas & diesel)
- [ ] Sludge from sand/oil/water separators

**Initials:** (if initial, no radiological clearance is necessary.)

The above mentioned waste was generated outside of a Controlled Waste knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only materials that are prohibited and allowable waste items. I have contacted Property Manager for approval for disposal in the landfill.

**Print Name:** Christopher McGoun

**Signature:**

**Date:** 4-28-09

**Note:** “Food waste/office trash and animal carcasses do not require a radiological clearance. Freon-containing appliances must have signed removal certification statement with Load Verification.”

**SWO USE ONLY**

**Load Weight (net from scale or estimate):** 6,500

**Signature of Certifier:**

---

**Radiological Survey Release for Waste Disposal:**

- [ ] This container/load meets the criteria for no added man-made radioactive material
- [ ] This container/load meets the criteria for Radcon Manual Table 4.3 release limits

**SIGNATURE:**

**DATE: 4-28-09**

**FMM-0646 (08/06)**

---

**Onsite use only.**
<table>
<thead>
<tr>
<th>Quantity</th>
<th>UN1983, Combustible Liquid, N.O.S. (Methanol), Class 3, PG III, ERG 128 (Washer Fluid)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN1268, Petroleum Products, N.O.S., Class 3, PG III, ERG 128 (New Solvent)</td>
</tr>
<tr>
<td></td>
<td>UN1268, Petroleum Products, N.O.S., Class 3, PG III, ERG 128 (Used Solvent)</td>
</tr>
<tr>
<td>1250 gals</td>
<td>UN1993, Flammable Liquid, N.O.S., Class 3, PG III, Circle One: Diesel Jet Fuel, Gasoline ERG 128 (Unused Fuel)</td>
</tr>
<tr>
<td></td>
<td>UN5082, Environmentally Hazardous Substance, Liquid, N.O.S., (Ethylene Glycol), Class 9, PG III, ERG 171 (Used Antifreeze)</td>
</tr>
<tr>
<td></td>
<td>UN5082, Environmentally Hazardous Substance, Liquid, N.O.S., (Ethylene Glycol), Class 9, PG III, Circle One: Premix, Conc. Ext Life, ERG 171 (New Antifreeze)</td>
</tr>
<tr>
<td></td>
<td>Non-Regulated Liquid, Used Oil</td>
</tr>
<tr>
<td></td>
<td>Non-Regulated Liquid, Used Oil Filters</td>
</tr>
<tr>
<td></td>
<td>Non-Regulated Solid, Specialty Filters</td>
</tr>
<tr>
<td></td>
<td>Non-Regulated Solid: Circle One: Dirt, Sludge, Absorbent Profile</td>
</tr>
<tr>
<td></td>
<td>Non-Regulated Liquid, Circle One: Grit Trap Separator, Storm Drain, Mop Water, Other: Fuel surcharge</td>
</tr>
</tbody>
</table>

In Case of Emergency, Call: Chemtrec 1-800-262-8200

REMIT TO: THERMO FLUIDS INC.
39354 TREASURY CENTER
CHICAGO, IL 60694-9300

METHOD OF PAYMENT: CASH / CREDIT CARD / TERMS
CHECK #
**Uniform Hazardous Waste Manifest**

1. **Generator ID Number**: NV3890003001
2. **2. Page 1 of 3**: 800-424-9500
3. **Emergency Response Phone**: 800-713-7369 JJK
4. **Manifest Tracking Number**: 007137369 JJK

5. **Generator's Name and Mailing Address**
   - NSTEC FOR US DOE
   - 98501, M 51485
   - P.O. Box, 98501, M 51485
   - Los Angeles, CA 95913
   - Generator's Phone: 724-275-7385

6. **Transporter 1 Company Name**: EVERGREEN ENVIRONMENTAL SERVICES
7. **Transporter 2 Company Name**: EVERGREEN ENVIRONMENTAL SERVICES
8. **Transporter 1 Company Name**: CADB82413262
9. **Transporter 2 Company Name**: CADB82413262

10. **Containers**
    - **No.** | **Type** | **Quantity** | **Weight**
    - 1 | TT | 3604 | 22.1

11. **Special Handling Instructions and Additional Information**
    - 24 Hour Emergency Response Telephone: CHEMTREC 1-800-424-9300
    - DOT ERG 171 WEAR PROTECTIVE CLOTHING

15. **Generator/Shipper's Certification**:
    - I hereby declare that the contents of this container are fully and accurately described above by the proper shipping name, and are classified, packed, marked, and labeled as designated, 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 container conform to the terms of the applicable EPA Exporter's Certification. I certify that the waste minimization statement identified in 40 CFR 262.27(a)(1) is (is not) true.

16. **International Shipments**
    - Import to U.S.
    - Export from U.S.
    - Port of entry:
    - Date leaving U.S.: 07/22/10

17. **Transporter Acknowledgment of Receipt of Materials**
    - **Transporter 1 Printed/Typed Name**: WILLIAM HAMSO
    - **Transporter 2 Printed/Typed Name**:
    - **Signature**:

18. **Discrepancy**
    - **Discrepancy Indicator**: Space
    - **Quantity**: X
    - **Type**: X
    - **Residue**: X
    - **Partial Rejection**: X
    - **Full Rejection**: X

    - 1.
    - 2.
    - 3.
    - 4.

20. **Designated Facility Owner or Operator Certification of Receipt of Hazardous Materials**
    - **Printed/Typed Name**: Signature
    - **Month**: 07
    - **Day**: 22
    - **Year**: 10

---

**Environmental Protection Agency**

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

**GENERATOR'S INITIAL COPY**
UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NV39890000001

2. Page 1 of 1

3. Emergency Response Phone: 866-494-8305

4. Manifest Tracking Number: 007135820 JJK

5. Generator's Name and Mailing Address:
ASTEC FOR USDOE
P.O. BOX 39521
NTS 110, LAS VEGAS, NV 89133
702-295-7355

6. Generator's Site Address (if different than mailing address):
NEVADA TEST SITE HWY 95, MERCURY, NV 89033
(702) 930-0235

7. Transporter 2 Company Name:
EVENGREEN ENVIRONMENTAL SERVICES

8. Designated Facility Name and Site Address:
EVENGREEN ENVIRONMENTAL SVC
CARSON, CA 90746
(800) 922-5284

9a. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)):

10. Containers:

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Quantity</th>
<th>U.S.</th>
<th>Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TT</td>
<td>2740</td>
<td>G</td>
<td>241</td>
</tr>
</tbody>
</table>

11. Total Quantity

12. Unit

13. Waste Codes

14. Special Handling Instructions and Additional Information:

24 Hour Emergency Response Telephone: CHEMTEC 4000-44-4000
DOT ERC 111 WEAR PROTECTIVE CLOTHING

15. GENERATOR/SHIPPER'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/packaged, and 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)(1) is true (if I am a small quantity generator) or (b) (if I am a large quantity generator) is true.

16. International Shipments: [ ] Import to U.S. [ ] Export from U.S.

17. Transporter Acknowledgment of Receipt of Materials:

Transporter 1: [ ] Signature

Transporter 2: [ ] Signature

18. Discrepancy:

[ ] Quantity
[ ] Type
[ ] Residue
[ ] Partial Rejection
[ ] Full Rejection

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

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 19a

Printed/Typed Name: [ ] Signature

EPA Form 8700-22 (Rev. 3-06) Previous editions are obsolete.

GENERATOR'S INITIAL COPY
<table>
<thead>
<tr>
<th>Container No.</th>
<th>Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TT</td>
<td>3975 G</td>
</tr>
</tbody>
</table>

15. GENERATOR/SIPPER'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 in accordance with the International and national transportation regulations applicable at the time of shipment and I am the Primary Exporter. I certify that the contents of this consignment conform to the terms of the applicable EPA Certificate of Consent. I further certify that the waste shipped is in accordance with the terms and conditions of the EPA Certificate of Consent.

Circulo Carlos Gonzales

16. International Shipment:

17. Transporee's Acknowledgment of Receipt of Materials:

William Ipekso

19. Discrepancy:

20. Desgnotated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 16a.

EPA Form 6700-22 (Rev. 3-05) Previous editions are obsolete.
**UNIFORM HAZARDOUS WASTE MANIFEST**

<table>
<thead>
<tr>
<th>Generator's Name and Facility Address</th>
<th>U.S. EPA ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSTEC FOR USDOE</td>
<td>COR000005389</td>
</tr>
<tr>
<td>P.O. Box 98521, NTS 79110</td>
<td></td>
</tr>
<tr>
<td>Las Vegas, NV 89119</td>
<td></td>
</tr>
<tr>
<td>Laboratory Phone: (702) 295-0313</td>
<td></td>
</tr>
</tbody>
</table>

**Transporter Name and Address**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>U.S. EPA ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAST TRANSPORTATION</td>
<td></td>
</tr>
<tr>
<td>Nevada Test Site, Hwy 95, NTS 810</td>
<td></td>
</tr>
<tr>
<td>Mercury, NV 89023</td>
<td></td>
</tr>
</tbody>
</table>

**Designated Facility Name and Site Address**

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>U.S. EPA ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. ECOLOGY</td>
<td></td>
</tr>
<tr>
<td>Hwy 95, 12 Mi. South of Beatty</td>
<td></td>
</tr>
<tr>
<td>Beatty, NV 89003</td>
<td></td>
</tr>
<tr>
<td>Facility Phone: (800) 238-3842</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RC No.</th>
<th>Description</th>
<th>No.</th>
<th>Type</th>
<th>Quantity</th>
<th>Weight (Vol.)</th>
<th>Waste Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UN1203, Waste Gasoline, 3, II. (D001)</td>
<td>6</td>
<td>DM</td>
<td>2352 P</td>
<td>D001 D018</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>UN1993, Waste Flammable liquids, n.o.s., 3, II. Labpack.</td>
<td>1</td>
<td>DM</td>
<td>204 P</td>
<td>D001 U154</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>UN1993, Waste Flammable liquids, n.o.s. (Benzene, methyl ethyl ketone), 3, II. (D001, D006, D007, D008, D018)</td>
<td>1</td>
<td>DM</td>
<td>203 P</td>
<td>D001 D005 D006 D007 D008 D018</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>UN1993, Waste Flammable liquids, n.o.s., 3, II. Labpack.</td>
<td>1</td>
<td>DM</td>
<td>97 P</td>
<td>D001 D008 D018 U002</td>
<td></td>
</tr>
</tbody>
</table>

**Special Handling Instructions and Additional Information**

1. ER 128; NS-NTS-10-0048, THRU -0053; 13-9713.
2. ER 128; NS-NTS-10-0108; LP 13-1015.
3. ER 128; NS-NTS-10-0076; ALSO 0035; 13-9683.
4. ER 128; NS-NTS-10-0107; LP 13-1015. LOAD 10015.

**Generator's Signature**

CIRILITO CARLOS GONZALEZ

**Transporter's Signature**

CAST TRANSPORTATION

**Facility Name**

U.S. ECOLOGY

**EPA Form 8702-22 (Rev. 3/06) Previous editions are obsolete.
<table>
<thead>
<tr>
<th>RQ</th>
<th>Description</th>
<th>Type</th>
<th>Quantity</th>
<th>Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>NA1993. Waste Combustible liquid, n.o.s. (lead, solvent naphtha), III. (lead)</td>
<td>2</td>
<td>503</td>
<td>P</td>
<td>D008</td>
</tr>
<tr>
<td>6</td>
<td>NA1203, Waste Gasohol, 3, XI. (D001)</td>
<td>2</td>
<td>873</td>
<td>P</td>
<td>D001, D018</td>
</tr>
<tr>
<td>7</td>
<td>Waste Consumer Commodity, GBM-D</td>
<td>1</td>
<td>67</td>
<td>P</td>
<td>D002, D005, D035</td>
</tr>
<tr>
<td>8</td>
<td>UN2760, Waste Corrosive liquids, n.o.s., 8, III. Labpack</td>
<td>1</td>
<td>2</td>
<td>P</td>
<td>D002</td>
</tr>
<tr>
<td>9</td>
<td>UN3964, Waste Corrosive liquid, acidic, inorganic, n.o.s. (ceric nitrate, nitric acid), 8, II</td>
<td>1</td>
<td>19</td>
<td>P</td>
<td>D002</td>
</tr>
<tr>
<td>10</td>
<td>UN2794, Waste Batteries, wet, filled with acid, 8, III</td>
<td>1</td>
<td>206</td>
<td>P</td>
<td>D002, D004, D008</td>
</tr>
<tr>
<td>11</td>
<td>UN3432, Polychlorinated biphenyls, solid, 9, III</td>
<td>5</td>
<td>589</td>
<td>K</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>UN2315, Polychlorinated biphenyls, liquid, 9, III</td>
<td>6</td>
<td>733</td>
<td>K</td>
<td></td>
</tr>
</tbody>
</table>

**Special Handling Instructions and Additional Information**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X 13. NA3077, Hazardous waste, solid, n.o.s. (hexachlorobutadiene, hexachlorobenzene), 9, III</td>
<td>1 DM</td>
<td>32</td>
<td>P</td>
<td>D030 D032 D033</td>
</tr>
<tr>
<td>X 15. NA3077, Hazardous waste, solid, n.o.s. (chromium, mercury), 9, III</td>
<td>1 DF</td>
<td>6</td>
<td>P</td>
<td>D003 D007 D008</td>
</tr>
<tr>
<td>X 17. NA3077, Hazardous waste, solid, n.o.s. (benzene, methyl ethyl ketone), 9, III</td>
<td>1 DF</td>
<td>6</td>
<td>P</td>
<td>D005 D006 D007</td>
</tr>
<tr>
<td>X 18. NA3077, Hazardous waste, solid, n.o.s. (lead), 9, III</td>
<td>1 DM</td>
<td>160</td>
<td>P</td>
<td>D008</td>
</tr>
<tr>
<td>X 19. NA3082, Hazardous waste, liquid, n.o.s. (selenium, 2,4-dinitrothiophene), 9, III</td>
<td>1 DF</td>
<td>264</td>
<td>P</td>
<td>D030 D032</td>
</tr>
<tr>
<td>X 20. NA3082, Hazardous waste, liquid, n.o.s. (selenium, 2,4-dinitrothiophene), 9, III</td>
<td>1 DM</td>
<td>90</td>
<td>P</td>
<td>D030 D032</td>
</tr>
<tr>
<td>X 21. NA3082, Hazardous waste, liquid, n.o.s. (mercury), 9, III</td>
<td>1 DF</td>
<td>12</td>
<td>P</td>
<td>D009</td>
</tr>
<tr>
<td>X 22. UN1593, Waste Dichloromethane, 5.1, III. Toxic.</td>
<td>1 DF</td>
<td>15</td>
<td>P</td>
<td>U080</td>
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<tr>
<td>X 23. UN087, Waste Oxidizing solid, toxic, n.o.s. (6.1), II. Labpack.</td>
<td>1 DF</td>
<td>26</td>
<td>P</td>
<td>D001</td>
</tr>
<tr>
<td>X 24. UN2811, Toxic solids, organic, n.o.s., 6.1, III. Labpack.</td>
<td>1 DF</td>
<td>4</td>
<td>P</td>
<td></td>
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32. Special Handling Instructions and Additional Information:

<table>
<thead>
<tr>
<th>26. Container No.</th>
<th>Type</th>
<th>Quantity</th>
<th>Units</th>
<th>Waste Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>25. MA1993</td>
<td>DM</td>
<td>90</td>
<td>P</td>
<td>0008 0018 0019</td>
</tr>
<tr>
<td>26. WA3077</td>
<td>DM</td>
<td>335</td>
<td>P</td>
<td>0008 0018 0019</td>
</tr>
<tr>
<td>27. UN1824</td>
<td>DF</td>
<td>248</td>
<td>P</td>
<td>0002</td>
</tr>
<tr>
<td>28. Universal Waste - Intact Fluorescent Lamps</td>
<td>DF</td>
<td>1334</td>
<td>P</td>
<td>0002</td>
</tr>
<tr>
<td>29. Universal Waste - Broken Fluorescent Lamps</td>
<td>DF</td>
<td>38</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>30. UN3028</td>
<td>DM</td>
<td>95</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>31. Universal Waste - Sodium Lamps</td>
<td>DF</td>
<td>25</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>32. Universal Waste - Mercury Vapor Lamps</td>
<td>DF</td>
<td>11</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>33. UN1800</td>
<td>DM</td>
<td>279</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>34. UN3009</td>
<td>DM</td>
<td>72</td>
<td>P</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Universal Waste - Intact Fluorescent Lamps: 6,753 linear feet total.
- Universal Waste - Broken Fluorescent Lamps: 38 linear feet total.
- Universal Waste - Sodium Lamps: 18 lamps total.
- Universal Waste - Mercury Vapor Lamps: 11 lamps total.

**Transporter Information:**
- Name: NSTEC FOR USDOE
- Address: P.O. BOX 98521, M/S NTS110
- City: LAS VEGAS
- State: NV
- Zip: 89193

**Transporter Signature:**

**Acknowledgment of Receipt of Materials:**

**Recognized by:**

**Date:**

**Designated Facility to Destination State:**

**Form Approved:** CMS No. 2059-0019

**Confidentiality:**

**Revision:**

**Notes:**

**Previous Editions are Obsolete.**
<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Quantity</th>
<th>Unit</th>
<th>Waste Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DF</td>
<td>5</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DF</td>
<td>109</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DF</td>
<td>16</td>
<td>P</td>
<td></td>
</tr>
</tbody>
</table>

25. Transporter: [Company Name]
26. Transporter: [Company Name]
32. HAZMAT Placard Information and Additional Information:
34. Signature: [Signature]
35. [Signature]
37. Universal Waste - Metal Halide Lamps
19 each.

---

**UNIFORM HAZARDOUS WASTE MANIFEST**

21. Generator ID Number: NV3990090001
22. Page of: 5
23. Manifest Tracking Number: 000956218 ELE

**24. Generator's Name**
NSTEC FOR USDA
P.O. BOX 98521, M/S NT5110
LAS VEGAS, NV 89193

25. Transporter: [Company Name]
U.S. EPA ID Number: [ID]

26. Transporter: [Company Name]
U.S. EPA ID Number: [ID]

27a. 27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, UN Number, and Packing Group [If Any]):

X 35. UN3028, Batteries, dry, containing potassium hydroxide
solid, 8, III.
(UNiversal Waste - Dry Mercury Batteries). 10 each.

X 36. UN3028, Batteries, dry, containing potassium hydroxide
solid, 8, III.
(UNiversal Waste - Dry Nickel-Cadmium Batteries).

37. Universal Waste - Metal Halide Lamps
19 each.

---

38. Acknowledgment of Receipt of Materials:

**Transporter**

Name:
[Name]

Signature:
[Signature]

Month Day Year:

[Month] [Day] [Year]

**DESIGNATED FACILITY**

Name:
[Name]

Signature:
[Signature]

Month Day Year:

[Month] [Day] [Year]

**DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED):**

Signature:
[Signature]

Month Day Year:

[Month] [Day] [Year]

EPA Form - 503 (Rev. 3-96) Previous editions are obsolete.
• Approximately 3,500 gallons of chiller water were evaporated, and the residual was solidif
• Approximately 11.5 m$^3$ of solidified residual chiller water were disposed at the U10e Sanitary Landfill.
• Approximately 10,635 gallons of used mineral and equipment oil, 1,250 gallons of used diesel fuel, and 50 pounds of Freon were sent for recycle/reuse.
• One 55-gallon drum of oil, five cartons of universal waste lamps, and three 20-gallon drums of polychlorinated biphenyl ballasts were disposed at an offsite treatment and disposal facility.

All waste associated with this work has been disposed. Waste disposition documentation and photographs of fieldwork before, during, and after completion are enclosed with this letter.

The following non-waste-generating activities were also performed:

• All floor drains in non-radiologically contaminated areas of the building were grouted.
• Postmortem cell doors were opened in preparation for future radiological characterization.
• Deteriorated areas of the roof were repaired.
• Power to the facility was disconnected at the substations because the safety of the electrical system could not be confirmed due to water seepage into the building from the deteriorated roof. The building was rendered cold and dark.

Remaining closure work associated with CAU 114 will be documented in the Closure Report. Please direct comments and questions to Kevin J. Cabble, of my staff, at (702) 295-5000.

Original Signed by:
Rob Boehlecke

Robert F. Boehlecke
Federal Project Director
Environmental Restoration Project
INTERIM ACTIVITIES AT CORRECTIVE ACTION UNIT (CAU) 114: AREA 25 EMAD FACILITY, NEVADA NATIONAL SECURITY SITE, NEVADA

CAU 114: Area 25 EMAD Facility is currently listed in Appendix III of the Federal Facility Agreement and Consent Order and consists of the following two Corrective Action Sites (CASs):

- CAS 25-41-03: EMAD Facility
- CAS 25-99-23: Manned Control Car and Engine Installation Vehicle

Closure activities for CAU 114 are specified in Revision 1 of the approved Streamlined Approach for Environmental Restoration Plan for CAU 114. Closure activities will include characterization of potential source materials, removal of readily removable nonhazardous waste, and identification and abatement of asbestos. The end state for Building 3900 will be demolition to slab.

This letter report documents interim activities that have been completed at CAU 114 to support ongoing access and generate information necessary to plan future closure activities. General housekeeping and cleanup of debris was conducted in the EMAD yard, cold bays, support areas of Building 3900, and postmortem cell tunnel area of the hot bay. All non-asbestos ceiling tiles and loose and broken non-friable asbestos floor tiles were removed from support galleries and office areas. Non-radiologically contaminated piping and equipment in the cold areas of the building and in the two 120-ton locomotives in the yard were tapped, characterized, drained, and verified free of contents.

The following waste was removed from the EMAD complex and disposed:

- Approximately 52 cubic meters ($m^3$) of yard debris and 69 $m^3$ of debris from the postmortem cell tunnel were packaged in either B-25 boxes or cargo containers and disposed at the Area 5 Radioactive Waste Management Site.
- Approximately 46 $m^3$ of yard debris and 115 $m^3$ of debris from the building cold bays and support areas were disposed at the U10c Sanitary Landfill.
- Approximately 5,500 gallons of sanitary liquid were drained and disposed at onsite lagoons.