



Department of Energy
National Nuclear Security Administration
Nevada Site Office
P.O. Box 98518
Las Vegas, NV 89193-8518



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 (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.

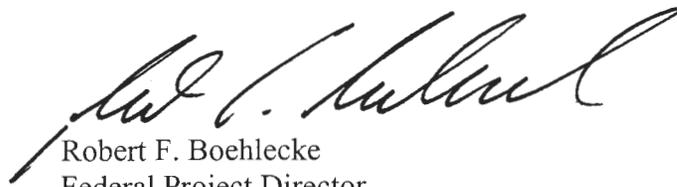
- Approximately 3,500 gallons of chiller water were evaporated, and the residual was solidified. Approximately 11.5 m³ of solidified residual chiller water were disposed at the U10c Sanitary Landfill.
- Approximately 10,635 gallons of used mineral and equipment oil, 1,250 gallons of used diesel fuel, 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. Cabbie, of my staff, at (702) 295-5000.



Robert F. Boehlecke
Federal Project Director
Environmental Restoration Project

ERP:8022.CD

Enclosures:
As stated

Tim Murphy

-3-

OCT 24 2011

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. Cabbie, 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



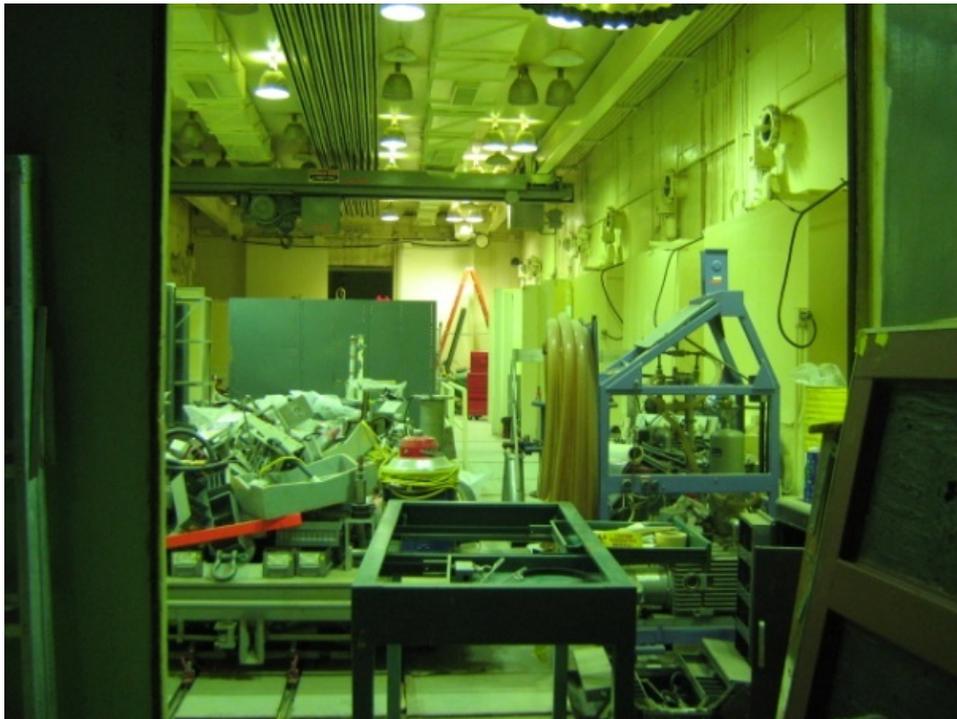
Yard Debris, 04/23/2009



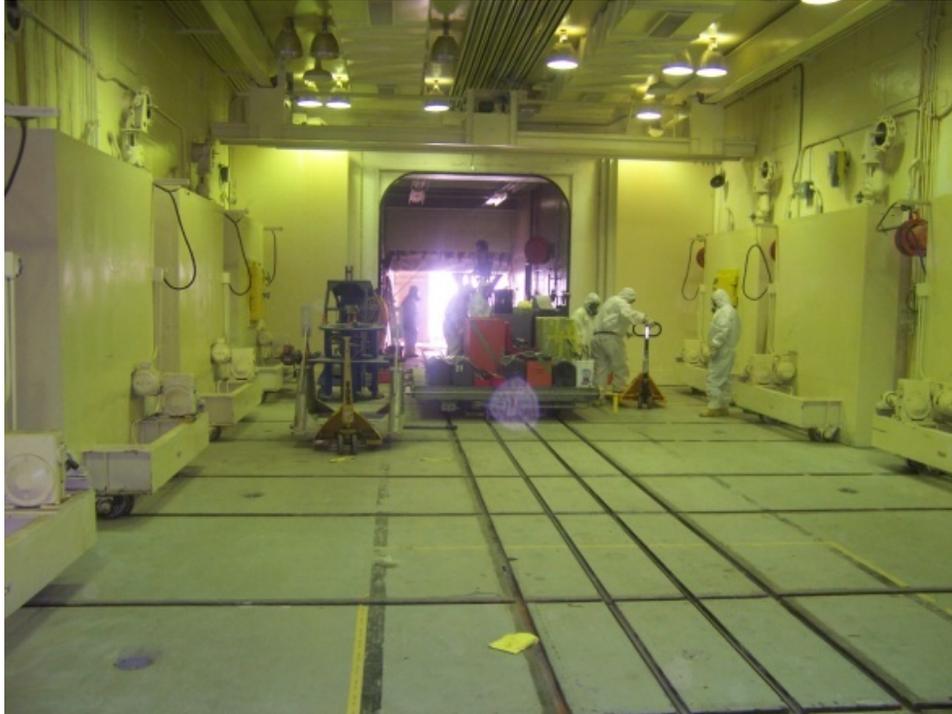
Yard Debris Cleanup, 04/30/2009



After Removal of Yard Debris, 05/05/2009



Postmortem Tunnel Debris, 05/26/2009



Cleanup of Postmortem Tunnel, 05/28/2009



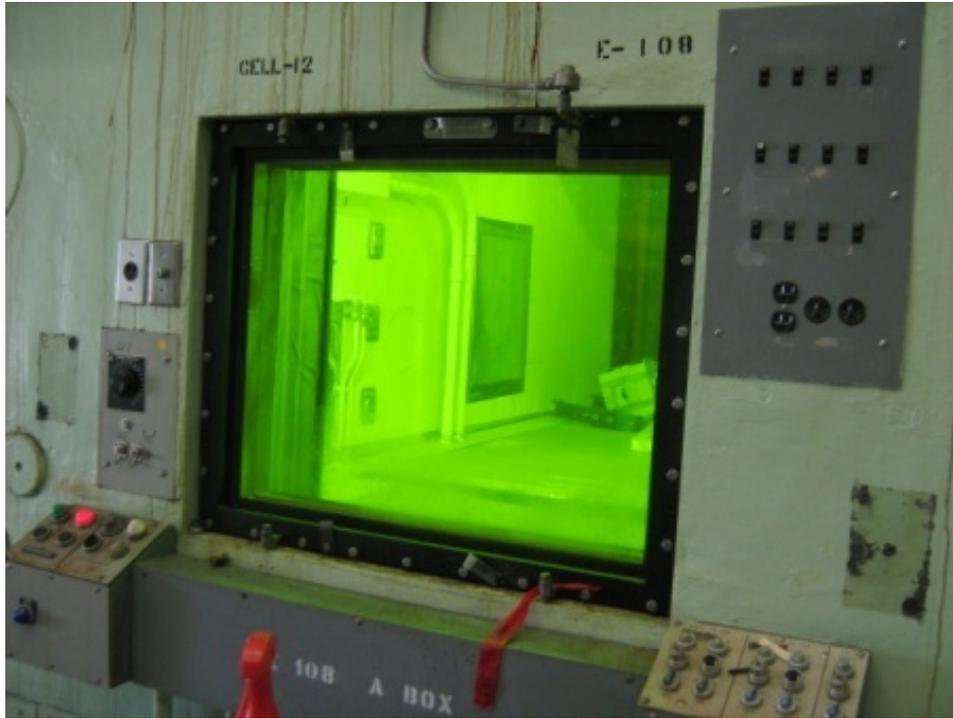
Postmortem Tunnel After Cleanup, 06/02/2009



Marked Tap and Drain Locations, 02/03/2010



Marked Tap and Drain Locations, 02/03/2010



Marked Tap and Drain Locations, 02/03/2010



Tap and Drain Activities, 07/07/2010



Tap and Drain Activities, 08/02/2010



Tap and Drain Activities, 08/02/2010



Deteriorated Cold Bay Roof, 12/29/2009



Repaired Cold Bay Roof, 05/13/2011



Deteriorated Asbestos Tile, 03/03/2010



After Tile Cleanup, 03/30/2010



Chiller Water Evaporation Basin, 09/01/2010



Solidification of Residual Chiller Water, 9/16/2010

CERTIFICATE OF DISPOSAL
(LOW LEVEL WASTE)

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.

Shipment Number	Waste Stream Identification #	Package #	Date of Disposal
DPL09025	LR55LLFY07002	100458	09-16-09
DPL09025	LR55LLFY07002	100486	09-16-09

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

Signature

9-16-09

Date

WASTE HANDLER

Title

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

(Reference: OP-2151.304)

CERTIFICATE OF DISPOSAL
(LOW LEVEL WASTE)

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.

Shipment Number	Waste Stream Identification #	Package #	Date of Disposal
DPL09024	LRY5LLFY07002	450000 (QG003422)	09-16-09
DPL09024	LRY5LLFY07002	460000 (QG003423)	09-16-09
DPL09024	LRY5LLFY07002	520000 (QG003429)	09-16-09
DPL09024	LRY5LLFY07002	550000 (QG003433)	09-16-09
DPL09024	LRY5LLFY07002	560000 (QG003434)	09-16-09
DPL09024	LRY5LLFY07002	590000 (QG003437)	09-16-09
DPL09024	LRY5LLFY07002	681074	09-16-09

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

Signature

9-16-09

Date

WASTE HANDLER

Title

Instructions:

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

3

NSTec
Form
FRM-0918

10/07/09
Rev. 01
Page 1 of 2

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 rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Rebecca King Phone Number: 5-5804
Location / Origin: CAU 114 E-MAD Area 25

Waste Category: (check one)	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Industrial		
Waste Type: (check one)	<input type="checkbox"/> NTS	<input type="checkbox"/> Putrescible	<input checked="" type="checkbox"/> FFACO-onsite	<input type="checkbox"/> WAC Exception
	<input type="checkbox"/> Non-Putrescible	<input type="checkbox"/> Asbestos Containing Material	<input type="checkbox"/> FFACO-offsite	<input type="checkbox"/> Historic DOE/NV
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Environmental management	<input type="checkbox"/> Defense Projects	<input type="checkbox"/> YMP	
Pollution Prevention Category: (check one)	<input checked="" type="checkbox"/> Clean-Up	<input type="checkbox"/> Routine		
Method of Characterization: (check one)	<input checked="" type="checkbox"/> Sampling & Analysis	<input type="checkbox"/> Process Knowledge	<input type="checkbox"/> 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:

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:

<input checked="" type="checkbox"/> Paper	<input type="checkbox"/> Rocks / unaltered geologic materials	<input type="checkbox"/> Empty containers			
<input type="checkbox"/> Asphalt	<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Wood	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Rubber (excluding tires)	<input type="checkbox"/> Demolition debris
<input checked="" type="checkbox"/> Plastic	<input type="checkbox"/> Wire	<input type="checkbox"/> Cable	<input type="checkbox"/> Cloth	<input type="checkbox"/> Insulation (non-Asbestosform)	<input type="checkbox"/> Cement & concrete
<input type="checkbox"/> 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:

<input type="checkbox"/> Non-friable asbestos	<input type="checkbox"/> Drained automobiles and military vehicles	<input type="checkbox"/> Solid fractions from sand/oil/water
<input type="checkbox"/> Light ballasts (contact SWO)	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Decconned Underground and Above Ground Tanks
<input type="checkbox"/> Hydrocarbons (contact SWO)	<input type="checkbox"/> Other _____	

Additional waste accepted at the Area 6 Hydrocarbon Landfill:

<input type="checkbox"/> Septic sludge	<input type="checkbox"/> Rags	<input type="checkbox"/> Drained fuel filters (gas & diesel)	<input type="checkbox"/> Crushed non-teme plated oil filters
<input type="checkbox"/> Plants	<input type="checkbox"/> Soil	<input type="checkbox"/> Sludge from sand/oil/water separators	<input type="checkbox"/> 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 prohibited and allowable waste items. I have verified this through the waste characterization method identified a prohibited and allowable waste items. I have contacted Property Management is approved for disposal in the landfill.

Print Name: Rebecca King Date: 10-11
Signature: _____

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

Radiological Survey Release for Waste Disposal RCT Initials

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

This container/load meets the criteria for Radcon Manual Table 4.2 release limits.

This container/load is exempt from survey due to process knowledge and origin.

SIGNATURE: _____ DATE: 10-11

BN-0846 (10/05)

SWO USE ONLY
Load Weight (net from scale or estimate): 42,500 41,740 Signature of Certifier: 2-10-11

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FRM-0918

NTS LANDFILL LOAD VERIFICATION

10/07/09

Rev. 01

Page 1 of 2

2

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 rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Rebecca King Phone Number: 5-5804

Location / Origin: CAU 114 E-MAD FAX - 5-7918

Waste Category: (check one) Commercial Industrial

Waste Type: NTS Putrescible FFACO-onsite WAC Exception

(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

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

Pollution Prevention Category: (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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-teme plated oil filters
 Plants Soil Sludge from sand/oil/water separators PCBs below 50 parts per million

REQUIRED: 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

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.

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): 6,940 8-18-10 Signature of Certifier: _____

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FRM-0918

NTS LANDFILL LOAD VERIFICATION

Rev. 01
Page 1 of 2

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 rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Rebecca King Phone Number: 5-5804
Location / Origin: Area 25 CAU 114 EMAD FAX: 5-7918

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

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

Pollution Prevention Category: (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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-teme plated 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 M knowledge, does not contain radlological materials.

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

Radiological Survey Release for Waste Disposal RCT Initials

____ This container/load meets the criteria for no added man-made radioactive material

____ This container/load meets the criteria for Radcon Manual Table 4.2 release limits.

____ This container/load is exempt from survey due to process knowledge and origin.

SIGNATURE: _____ DATE: 6/3/10

FRM-0646 (08/06)

Print Name: DAN TOBIASO

Signature: _____ Date: 6/3/10

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.

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): 5,380 Signature of Certifier: 6-3-10

Form
FRM-0918

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 rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Rebecca King Phone Number: 5-5804
Location / Origin: Area 25 CAU 114 EMAD FAX: 5-7918

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFAO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFAO-offsite Historic DOE/NV

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

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-terne plated 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 knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only 1 site. I have verified this through the waste characterization method iden prohibited and allowable waste items. I have contacted Property Manag is approved for disposal in the landfill.

Radiological Survey Release for Waste Disposal RCT Initials

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

SIGNATURE: _____ DATE: 5/6/10
FRM-0646 (08/08)

Print Name: DAN TOBIASO
Signature: _____ Date: 5/6/10

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.

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): 5,340 Signature of Certifier: 5-10-10

(2)

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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 FAX: 5-7918

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

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

Pollution Prevention Category: (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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-terne 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 knowledge, 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 identify prohibited and allowable waste items. I have contacted Property Manager is approved for disposal in the landfill.

Print Name: Christopher McGowan

Signature: _____ Date: 4/19/10

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."

Radiological Survey Release for Waste Disposal
RCT Initials

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

SIGNATURE _____ DATE: _____

SWO USE ONLY
Load Weight (net from scale or estimate): 10,600 Signature of Certifier: _____ 4/19/10

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FRM-0918

NTS LANDFILL LOAD VERIFICATION

10/07/09

Rev. 01

Page 1 of 2

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 rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Rebecca King Phone Number: 5-5804

Location / Origin: Area 25 CAU 114 EMAD Fax 5-7918

Waste Category: (check one) Commercial Industrial

Waste Type: NTS Putrescible FFACO-onsite WAC Exception

(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

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

Pollution Prevention Category: (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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decanned 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-teme 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 M. knowledge, does not contain radiological materials.

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

Print Name: Christopher McConin

Signature: _____ Date: 4-5-10

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."

Radiological Survey Release for Waste Disposal
 RCT Initials _____
 This container/load meets the criteria for no added man-made radioactive material
 This container/load meets the criteria for Radcon Manual Table 4.2 release limits.
 This container/load is exempt from survey due to _____ knowledge and origin.
 DATE: _____
 SIGNATURE: _____
 FRM-0646 (08/06)
 "Radiological Release Sticker" here. Onsite use only.

SWO USE ONLY

Load Weight (net from scale or estimate): 12,280 Signature of Certifier: _____
4-5-10

NSTec
Form
FRM-0918

10/07/09

Rev. 01

Page 1 of 2

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 rollofs, dump trucks, and other onsite disposal of materials.)

Waste Generator: Rebecca King Phone Number: 5-5804

Location / Origin: Area 25 CAU 114 EMAD FAX - 5-7918

Waste Category: (check one) Commercial Industrial

Waste Type: NTS Putrescible FFACO-onsite WAC Exception

(check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

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

Pollution Prevention Category: (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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decommed 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-teme plated 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 knowledge, 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 identify prohibited and allowable waste items. I have contacted Property Manager is approved for disposal in the landfill.

Radiological Survey Release for Waste Disposal RCT Initials

_____ This container/load meets the criteria for no added man-made radioactive material

_____ This container/load meets the criteria for Radcon Manual Table 4.2 release limits.

_____ This container/load is exempt from survey due to process knowledge and origin.

SIGNATURE

DATE 3/25/10

FRM-0648 (08/06)

Print Name: DAN TOBIASSEN

Signature: _____ Date: 3/25/10

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.

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 3-25-10 Signature of Certifier

NSTec
Form
FRM-0918

10/07/09
Rev. 01
Page 1 of 2

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 rollofs, 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: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/ENV

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

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Decconned 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-terme plated 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 knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only tho site. I have verified this through the waste characterization method identifi prohibited and allowable waste items. I have contacted Property Managem is approved for disposal in the landfill.

Radiological Survey Release for Waste Disposal RCT Initials

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

SIGNATURE: _____

DATE: 3/25/10

FRM-0646 (08/06)

Print Name: DAN DOBISON

Signature: _____ Date: 3/25/10

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.

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): 3210 Signature of Certifier: 3-25-10

NSTec
Form
FRM-0918

NTS LANDFILL LOAD VERIFICATION

10/07/09
Rev. 01
Page 1 of 2

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 rollofs, dump trucks, and other onsite disposal of materials.)

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

Waste Category: (check one) Commercial Industrial

Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

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

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: 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 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:
 Septic sludge Rags Drained fuel filters (gas & diesel) Crushed non-teme 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 knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only the prohibited and allowable waste items. I have contacted Property Management is approved for disposal in the landfill.

Radiological Survey Release for Waste Disposal
RCT Initials
 This container/load meets the criteria for no added man-made radioactive material
 This container/load meets the criteria for Radcon Manual Table 4.2 release limits.
 This container/load is exempt from survey due to _____ knowledge and origin.
 SIGNATURE: _____ DATE: 3/23/10

Print Name: DAN TOBIASON

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 Load Verification."

SWO USE ONLY

Load Weight (net from scale) or estimate: 3160 3-23-10
Signature of Certifier: _____

FRM-0646 (08/08)
If applicable, place 1 introduced, "Radiological Release Sticker" here. Onsite use only.

NSTec

10/07/09

Form

Rev. 01

FRM-0918

NTS LANDFILL LOAD VERIFICATION

Page 1 of 2

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 rollofs, 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 Putrescible FFACO-onsite WAC Exception
 (check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV

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

Pollution Prevention Category: (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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-teme plated 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 knowledge, does not contain radiological materials.

To the best of my knowledge, the waste described above contains only tho site. I have verified this through the waste characterization method identifi prohibited and allowable waste items. I have contacted Property Managem is approved for disposal in the landfill.

Radiological Survey Release for Waste Disposal RCT Initials

_____ This container/load meets the criteria for no added man-made radioactive material

_____ This container/load meets the criteria for Radcon Manual Table 4.2 release limits.

_____ This container/load is exempt from survey due to process knowledge and origin.

SIGNATURE: _____

DATE: 3/23/10

FRM-0646 (08/06)

Print Name: DAN TOBIASON

Signature: _____ Date: 3/23/10

If applicable, place FRM-0646, "Radiological Release Sticker" here. Onsite use only.

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): 2100 Signature of Certifier: 3-2310

3

NSTec

Form

FRM-0918

08/23/06

Rev. 0

Page 1 of 2

NTS LANDFILL LOAD VERIFICATION

SWO USE (Select One) AREA 23 6 9 LANDFILL

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

REQUIRED: WASTE GENERATOR INFORMATION

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

Waste Generator: Kevin Olsen

Phone Number: 5-2941

Location / Origin: Area 25 CAU 114 EMAD

- Waste Category:** (check one) Commercial Industrial
- Waste Type:** NTS Putrescible FFACO-onsite WAC Exception
- (check one) Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV
- Pollution Prevention Category:** (check one) Environmental management Defense Projects YMP
- Pollution Prevention Category:** (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, 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:

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:** 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water

Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-teme 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 materials prohibited and allowable waste items. I have contacted Property Management and it is 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. All other waste must have signed removal certification statement with Load Verification."

SWO USE ONLY

Load Weight (net from scale or estimate): 30,000 5-5-09 Signature of Certifier: _____

Radiological Survey Release for Waste Disposal RCT Initials

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

SIGNATURE: _____

DATE: 5-4-09

BN-0646 (10/05)

NSTec 08/23/06
Form Rev. 0
FRM-0918 **NTS LANDFILL LOAD VERIFICATION** Page 1 of 2

SWO USE (Select One) AREA 23 6 9 LANDFILL
For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

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

Waste Generator: Kevin Olsen Phone Number: 5-2941
 Location / Origin: Area 25 CAU 114 EMAD

Waste Category: (check one) Commercial Industrial
Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV
Pollution Prevention Category: (check one) Environmental management Defense Projects YMP
 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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-teme 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 materials prohibited and allowable waste items. I have verified this through the waste characterization method identified above. I have contacted Property Management and he is approved for disposal in the landfill.

Print Name: Kevin Olsen
 Signature: _____ Date: 5-1-09

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

Radiological Survey Release for Waste Disposal
 RCT Initials
 This container/load meets the criteria for no added man-made radioactive material
 This container/load meets the criteria for Radcon Manual Table 4.2 release limits.
 This container/load is exempt from survey due to process knowledge and origin.
 SIGNATURE: _____ DATE: 4-30-09
 BN-0646 (10/05)

SWO USE ONLY
 Load Weight (net from scale) or estimate: 23,000 5-5-09 Signature of Certifier: _____

26360
 2742500
 26360

FAX 5-7918

5

SWO USE (Select One) AREA 23 6 9 **LANDFILL**
 For waste characterization, approval, and/or assistance, contact Solid Waste Operation (SWO) at 5-7898.

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

Waste Generator: Christopher McGowin Phone Number: 5-6211
 Location / Origin: CAU 114 CAS 25-41-03 E-mad

Waste Category: (check one) Commercial Industrial
Waste Type: (check one) NTS Putrescible FFACO-onsite WAC Exception
 Non-Putrescible Asbestos Containing Material FFACO-offsite Historic DOE/NV
Pollution Prevention Category: (check one) Environmental management Defense Projects YMP
 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, 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:

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: 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 Drained automobiles and military vehicles Solid fractions from sand/oil/water
 Light ballasts (contact SWO) Drained fuel filters (gas & diesel) Deconned 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-teme 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 knowledge, does not contain radiological materials.
 To the best of my knowledge, the waste described above contains only ti site. I have verified this through the waste characterization method iden prohibited and allowable waste items. I have contacted Property Manag is approved for disposal in the landfill.

Radiological Survey Release for Waste Disposal RCT Initials
 _____ This container/load meets the criteria for no added man-made radioactive material
 _____ This container/load meets the criteria for Radcon Manual Table 4.2 release limits.
 _____ This container/load is exempt from survey due to process knowledge and origin.
 SIGNATURE: _____ DATE: 4-28-09

Print Name: Christopher McGowin
 Signature: _____ Date: 4-28-09 here. Onsite use only.

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): 6500 Signature of Certifier: 4-28-09



The Responsible Solution
(800) 350-7565

INVOICE/Bill of Lading - C

PO # _____

Next Delivery _____

1635399

Uniform Hazardous Waste
Manifest _____

FED ID 59-3210374

US DOT # 641752

Truck Gross Wt _____
Tare Wt 27886
Truck Net Wt _____
Truck # _____

CUST LOC # _____

Cust/Gen Name <u>National Security Technologies</u>	Transporter Name <u>Thermo Fluids Inc</u>	Receiving Facility <u>Thermo Fluids Inc</u>
Address <u>Area 25</u>	Address <u>9 W. Delhi</u>	Address <u>9 W Delhi</u>
City, St Zip <u>Mercury, NV. 89023</u>	City, St Zip <u>N. Las Vegas, NV. 89020</u>	City, St Zip <u>N. Las Vegas, NV. 89020</u>
Phone <u>702 295-6767</u>	Phone <u>702-399-6220</u>	Phone <u>702-399-6220</u>
EPA # (if Required)	EPA # (if Required)	EPA # (if Required)

Billing Address (if Different) _____

Field Screen Test (Circle One): HydroChlor, Q-4000 Result: _____

Quantity		U of M	RQ	Shipping Description	Inventory/ Rate	Tank Size	Total	
P/U	DEL							
				UN1993, Combustible Liquid, N.O.S. (Methanol), Class 3, PG III, ERG 128 (Washer Fluid)				
				UN1268, Petroleum Products, N.O.S., Class 3, PG III ERG 128 (New Solvent)				
				UN1268, Petroleum Products, N.O.S., Class 3, PG III ERG 128 (Used Solvent)				
<u>1250</u>		<u>gals</u>		UN1993, Flammable Liquid, N.O.S., Class 3, PG III Circle One: <u>Diesel</u> Jet Fuel, Gasoline ERG 128 (Unused Fuel)				
				UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Ethylene Glycol), Class 9, PG III ERG 171 (Used Antifreeze)				
				UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Ethylene Glycol), Class 9, PG III Circle One: Premix, Conc, Ext Life ERG 171 (New Antifreeze)				
				Non-Regulated Liquid, Used Oil				
				Non-Regulated Liquid, Used Oil Filters				
				Non-Regulated Solid, Specialty Filters				
				Non-Regulated Solid: Circle One: Dirt, Sludge, Absorbent Profile:				
				Non-Regulated Liquid, Circle One: Grit Trap Separator, Storm Drain, Mop Water, Other _____ Profile:				
		<u>8 1/2 h</u>		Service Fee <u>Truck Time</u>				
				Other: <u>Fuel sur-charge</u>				
				Other:				
							Total	

GENERATOR SIGN BELOW, Subject to terms and conditions as specified on reverse side of form.

Generator Signature <u>Cirilo Carlos Gonzalez</u>	Transporter Signature <u>John A. Sondia</u>	Receiver Signature <u>John A. Sondia</u>
Name <u>Cirilo Carlos Gonzalez</u>	Name <u>John A. Sondia</u>	Name <u>John A. Sondia</u>
Date <u>4/28/10</u>	Date <u>4/28/10</u>	Date

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 NV3890090001	2. Page 1 of 1	3. Emergency Response Phone 800-424-9300	4. Manifest Tracking Number 007137369 JJK		
5. Generator's Name and Mailing Address NSTEC for USDOE P.O. Box 98501, m/s NT 540 Las Vegas, NV 89193 Generator's Phone: 702-295-7365				Generator's Site Address (if different than mailing address) NSTEC for USDOE Nevada Test Site, Hwy 95 Mesquite, NV 89023			
6. Transporter 1 Company Name EVERGREEN ENVIRONMENTAL SERVICES					U.S. EPA ID Number CAD982413262		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address EVERGREEN ENVIRONMENTAL SERVICES 10604 SAN PEDRO STREET, CARSON CA, 90746 Facility's Phone: 1-800-972-5284					U.S. EPA ID Number CAD981896420		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit: Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	NON-RCRA HAZARDOUS WASTE, LIQUID	1	TT	3600 G		221	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information DO NOT USE IN FEDERAL DTL 24 Hour Emergency Response Telephone No. CHEMTREC 1-800-424-9300 DOT ERG# 171 WEAR PROTECTIVE CLOTHING							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offereor's Printed/Typed Name Carlos Cortez					Signature <i>[Signature]</i>		Month Day Year 07 22 10
16. International Shipments: <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name WILLIAM NAJISO Month Day Year 07 22 10 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) Facility's Name: _____ Facility's Phone: _____					U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name _____ Signature _____ Month Day Year _____							

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NV3880090001	2. Page 1 of 1	3. Emergency Response Phone (800) 424-6300	4. Manifest Tracking Number 007135820 JJK	
5. Generator's Name and Mailing Address NSTEC FOR USDOE P O BOX 98521 m/s NTS110 LAS VEGAS, NV 89193 702 295-7365			Generator's Site Address (if different than mailing address) NEVADA TEST SITE HWY 95, MERCURY, NV 89023 (702) 630-0235			
6. Transporter 1 Company Name EVERGREEN ENVIRONMENTAL SERVICES			U.S. EPA ID Number CAD982413262			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address EVERGREEN ENVIRONMENTAL SVCS 18904 S SAN PEDRO ST CARSON, CA 90746 (607) 972-5284			U.S. EPA ID Number CAD981696420			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
		No.	Type			
	1. <i>NON-FLORA HAZARDOUS WASTE</i>	1	TT	2740	G	221
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 24 Hour Emergency Response Telephone No. CHEMTREC 1-800-424-9300 DOT ERG 171 WEAR PROTECTIVE CLOTHING						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name <i>Cicito Carlos Gonzalez</i>			Signature <i>[Signature]</i>		Month Day Year 08 12 10	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>Hector Vargas</i>			Signature <i>[Signature]</i>		Month Day Year 8 12 10	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____						
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name			Signature		Month Day Year	

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number

NV389100910001

2. Page 1 of 1

3. Emergency Response Phone

800-424-9300

4. Manifest Tracking Number

007131140 JJK

5. Generator's Name and Mailing Address

~~HAZARDOUS~~ NSTEC for USDOE
PO BOX 98521 m/s NSTEC HINES 110
Las Vegas NV 89193-8521

Generator's Site Address (if different than mailing address)

NSTEC for USDOE
Merced National Security Site Hwy 95
Merced NV 89023
702-630-0225

Generator's Phone:

702-795-7116

6. Transporter 1 Company Name

Evergreen Environmental Services

U.S. EPA ID Number

CA0982413262

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

Evergreen Environmental Services
11604 Sun Park St
Carson CA 90746

U.S. EPA ID Number

Facility's Phone:

1-800-977-5284

CA09816916420

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
1.	Non Rare Hazardous waste, Liquid (used oil)	1	TT	3975 G	G	221		
2.								
3.								
4.								

14. Special Handling Instructions and Additional Information

24 Hour Emergency Response Tel. No. CHEMTREC 1-800-424-9300
wear Protective clothing
DOT REG 171 96.1 used oil

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

Generator's/Offor's Printed/Typed Name

Cirilo Carlos Gonzales

Signature

[Signature]

Month Day Year

09/15/10

16. International Shipments

Import to U.S.

Export from U.S.

Port or entry/exit:

Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

WILLIAM WAKISO

Signature

[Signature]

Month Day Year

09/15/10

Transporter 2 Printed/Typed Name

Signature

Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

18b. Alternate Facility (or Generator)

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

Month Day Year

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

1.	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L
TRANSPORTER

DESIGNATED FACILITY

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

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NV3890090001	2. Page 1 of 5	3. Emergency Response Phone (702) 295-0311	4. Manifest Tracking Number 000956218 FLE				
5. Generator's Name and Mailing Address NSTEC FOR USDOE P.O. BOX 98521, M/S NTS110 LAS VEGAS NV 89193 Generator's Phone: (702)295-7366				Generator's Site Address (if different than mailing address) NSTEC FOR USDOE NEVADA TEST SITE, HWY 95, NTS110 MERCURY NV 89023					
6. Transporter 1 Company Name CAST TRANSPORTATION					U.S. EPA ID Number COR000005389				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address U.S. ECOLOGY HWY 95, 12 MI. SOUTH OF BEATTY BEATTY NV 89003 Facility's Phone: (800)239-3943					U.S. EPA ID Number NVT330010000				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		1. RQ UN1203, waste gasoline, 3, II. (D001)		No.	Type	2353	P	D001	D018
		2. X UN1993, waste Flammable liquids, n.o.s., 3, II. Labpack.		1	DM	204	P	D001	U154
		3. RQ UN1993, waste Flammable liquids, n.o.s. (benzene, methyl ethyl ketone), 3, II. (D001, D006, D007, D008, D018)		1	DM	203	P	D001	D005 D006 D007 D008 D018
		4. X UN1993, waste Flammable liquids, n.o.s., 3, II. Labpack.		1	DM	97	P	D001	D008 D018 U002
14. 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 D035;13-0960. 4. ER 128;NS-NTS-10-0107;LP 13-1015. LOAD 10015.									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name CIRILO CARLOS GONZALES					Signature ON BEHALF OF USDOE			Month Day Year 8 30 10	
TRANSPORTER INT'L	16. Informational Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Date leaving U.S.:								
	17. Transporter's Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: <i>[Signature]</i> Signature: CAST TRANSPORTATION Month Day Year: 8 30 10 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____								
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____								
	18b. Alternate Facility (or Generator) Facility's Phone: _____ U.S. EPA ID Number: _____								
	18c. Signature of Alternate Facility (or Generator) Month Day Year: _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H141 2. H141 3. H141 4. H141									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Misty Leary Month Day Year: 08 31 10									

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number NV3890090001	22. Page of 2 5	23. Manifest Tracking Number 000956218 FLE				
24. Generator's Name NSTEC FOR USDOE P.O. BOX 98521, M/S NTS110 LAS VEGAS NV 89193								
25. Transporter _____ Company Name				U.S. EPA ID Number				
26. Transporter _____ Company Name				U.S. EPA ID Number				
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					
RQ	5. NA1993, Waste Combustible liquid, n.o.s. (lead, solvent naphtha), III. (lead)	2	DM	503	P	D008		
RQ	6. NA1203, Waste Gasohol, 3, II. (D001)	2	DM	873	P	D001	D018	
X	7. Waste Consumer Commodity, ORM-D	1	DF	67	P	D001	D005	D035
X	8. UN1760, Waste Corrosive liquids, n.o.s., 8, III. Labpack.	1	DF	2	P	D002		
X	9. UN3264, Waste Corrosive liquid, acidic, inorganic, n.o.s. (ceric nitrate, nitric acid), 8, II	1	DF	19	P	D002		
X	10. UN2794, Waste Batteries, wet, filled with acid, 8, III	1	DF	206	P	D002	D004	D008
X	RQ 11. UN3432, Polychlorinated biphenyls, solid, 9, III	5	DM	589	K			
X	RQ 12. UN2315, Polychlorinated biphenyls, liquid, 9, III	6	DM	735	K			
X	13. NA3077, Hazardous waste, solid, n.o.s. (lead, isobutanol), 9, III	2	DM	208	P	D008	F005	
X	14. NA3077, Hazardous waste, solid, n.o.s. (di-n-butyl-phthalate, cadmium), 9, III	1	DF	10	P	D005	D006	D008
						D018	D019	D028
32. Special Handling Instructions and Additional Information 5. ER128;10-0085,-0086;13-3529. 6. ER128;-0087,-0088;13-9713. 7. ER171;-0106;13-0956. 8. ER154;-0061;LP 13-1015. 9. ER154;-0096;13-1007. 10. ER154;-0090;13-1009. 11. ER171;SEE PCB CONTROL SHEET DETAIL 13-1022. 12. ER171;SEE PCB CONTROL SHEET DETAIL;INCIN 13-1022. 13. ER171;-0054,0110;14-5295. 14. ER171;-0057;LDR HAS ADD'L CODES;14-5295. LOAD 10015.								
33. Transporter _____ Acknowledgment of Receipt of Materials								
Printed/Typed Name			Signature		Month	Day	Year	
34. Transporter _____ Acknowledgment of Receipt of Materials								
Printed/Typed Name			Signature		Month	Day	Year	
35. Discrepancy								
36. Hazardous Waste Management Method Codes (i.e. codes for hazardous waste treatment, storage, and recycling systems)								
H141 H132		H141 H132		H141 H132		H141 H132		
H141 H132		H141 H132		H141 H132		H141 H132		

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number NV3890090001	22. Page 3 of 5	23. Manifest Tracking Number 000956218 FILE
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24. Generator's Name
**NSTEC FOR USDOE
P.O. BOX 98521, M/S NTS110
LAS VEGAS NV 89193**

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

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

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					
X	15. NA3077, Hazardous waste, solid, n.o.s. (hexachlorobutadiene, hexachlorobenzene), 9, III	1	DM	32	P	D030	D032	D033
X	16. NA3077, Hazardous waste, solid, n.o.s. (chromium, mercury), 9, III	1	DF	6	P	D003	D007	D008
						D009	D010	D011
X	17. NA3077, Hazardous waste, solid, n.o.s. (benzene, methyl ethyl ketone), 9, III	1	DF	6	P	D005	D006	D007
						D008	D018	D035
X	18. NA3077, Hazardous waste, solid, n.o.s. (lead), 9, III	1	DM	160	P	D008		
X	19. NA3082, Hazardous waste, liquid, n.o.s. (selenium, 2,4-dinitrotoluene), 9, III	1	DF	264	P	D010	D030	D032
						D033	D034	D036
X	20. NA3082, Hazardous waste, liquid, n.o.s. (selenium, 2,4-dinitrotoluene), 9, III	1	DM	90	P	D010	D030	D032
						D033	D034	D036
X	21. NA3082, Hazardous waste, liquid, n.o.s. (mercury), 9, III	1	DF	12	P	D009		
X	22. UN1593, Waste Dichloromethane, 6.1, III. Toxic.	1	DF	15	P	U080		
X	23. UN3087, Waste Oxidizing solid, toxic, n.o.s., 5.1, (6.1), II. Labpack.	1	DF	26	P	D001		
X	24. UN2811, Toxic solids, organic, n.o.s., 6.1, III. Labpack.	1	DF	4	P			

32. Special Handling Instructions and Additional Information
 15. ER 171;10-0070;14-5295. 16. ER 171;10-0074; D038;13-9714-1. 17. ER 171;10-0075;14-5295. 18. ER 171;10-0080;14-5295. 19. ER 171;10-0102; D038,D042;13-3442-1. 20. ER 171;10-0103; D038,D042;13-3442-1. 21. ER 171;10-0105;13-7750-445. 22. ER 160;10-0097;07016-9042-0. 23. ER 141;10-0095;LP 13-1015. 24. ER 154;10-0056;LP 13-1016. LOAD 10015.

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

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

35. Discrepancy _____

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

<i>H132</i>	<i>H141</i>	<i>H132</i>	<i>H132</i>	<i>H141</i>
<i>H141</i>	<i>H132</i>	<i>H141</i>	<i>H141</i>	<i>H132</i>

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number NV3890090001	22. Page of 4 5	23. Manifest Tracking Number 000956218 FLE														
24. Generator's Name NSTEC FOR USDOE P.O. BOX 98521, M/S NTS110 LAS VEGAS NV 89193																		
25. Transporter _____ Company Name				U.S. EPA ID Number														
26. Transporter _____ Company Name				U.S. EPA ID Number														
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes												
		No.	Type															
X	25. NA1993, Combustible liquid, n.o.s., III. Labpack.	1	DM	90	P													
X	26. NA3077, Hazardous waste, solid, n.o.s. (hexachlorobenzene, 2,4-dinitrotoluene), 9, III	1	DM	335	P	D008	D018	D019										
						D023	D024	D025										
X	27. UN1824, Waste sodium hydroxide solution, 8, II. Labpack.	2	DF	248	P	D002												
X	28. Universal waste - Intact Fluorescent Lamps 6,753 linear feet total.	14	DF	1334	P													
X	29. Universal waste - Broken Fluorescent Lamps	3	DF	38	P													
X	30. UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III. (Universal Waste - Dry Nickel-Cadmium Batteries.)	1	DM	95	P													
	31. Universal Waste - Sodium Lamps 18 lamps total.	3	DF	25	P													
X	32. Universal waste - Mercury Vapor Lamps 7 lamps total.	1	DF	11	P													
X	33. UN2800, Batteries, wet, non-spillable, 8, III. (Universal Waste - Sealed Lead-Acid Batteries).	2	DF	279	P													
X	34. UN3090, Lithium batteries, 9, II. (Universal Waste - Lithium Batteries). 1,242 each.	1	DF	72	P													
32. Special Handling Instructions and Additional Information 25. ER128;10-0082;LP13-1015. 26. ER171;0116;LDR HAS ADD'L CODES:14-5294. 27. ER154;0117,0118;LP13-1015. 28. SEE INV. FOR PKGE DETAIL. 29. 0123(4/28/10);0126(4/15/10);0138(4/7/10);13-0168. 30. ER154;10-0124;11/4/09;13-0169. 31. 0125(7/13/10);0136(4/7/10);0142(4/26/10);13-1080. 32. 0129(7/15/10);13-1083. 33. ER154;0064(10/26/09);0146(4/7/10);07016-5670-0. 34. ER138;0144(10/27/09);13-1079. LOAD 10015.																		
33. Transporter _____ Acknowledgment of Receipt of Materials		Signature		Month	Day	Year												
34. Transporter _____ Acknowledgment of Receipt of Materials		Signature		Month	Day	Year												
35. Discrepancy																		
36. Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, storage, and recycling systems)																		
<table border="1"> <tr> <td>H141</td> <td>H141</td> <td>H141</td> <td>H132</td> <td>H132</td> </tr> <tr> <td>H132</td> <td>H141</td> <td>H141</td> <td>H141</td> <td>H141</td> </tr> </table>							H141	H141	H141	H132	H132	H132	H141	H141	H141	H141		
H141	H141	H141	H132	H132														
H132	H141	H141	H141	H141														

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number NV3890090001	22. Page of 5	23. Manifest Tracking Number 000956218 FLE						
24. Generator's Name NSTEC FOR USDOE P.O. BOX 98521, M/S NT5110 LAS VEGAS NV 89193										
25. Transporter _____ Company Name				U.S. EPA ID Number						
26. Transporter _____ Company Name				U.S. EPA ID Number						
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes				
		No.	Type							
X	35. UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III. (Universal Waste - Dry Mercury Batteries). 10 each.	1	DF	5	P					
X	36. UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III. (Universal waste - Dry Nickel-Cadmium Batteries).	1	DF	109	P					
	37. Universal waste - Metal Halide Lamps 19 each.	2	DF	16	P					
32. Special Handling Instructions and Additional Information 35. ER 154;NS-NTS-10-0145(10/27/09);13-1076. 36. ER 154;NS-NTS-10-0147(12/8/09);13-0169. 37. NS-NTS-10-0137(4/7/10),-0143(1/22/10);13-1074. LOAD #10015.										
33. Transporter Acknowledgment of Receipt of Materials										
Print/Typed Name		Signature			Month	Day				
34. Transporter Acknowledgment of Receipt of Materials										
Print/Typed Name		Signature			Month	Day				
35. Discrepancy										
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, storage, and recycling systems)										
<table style="width:100%; border: none;"> <tr> <td style="width: 25%; border: none;">H191</td> <td style="width: 25%; border: none;">H132</td> <td style="width: 25%; border: none;">H191</td> <td style="width: 25%; border: none;"></td> </tr> </table>							H191	H132	H191	
H191	H132	H191								

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

- Approximately 3,500 gallons of chiller water were evaporated, and the residual was solidified. Approximately 11.5 m³ 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. Cabbie, of my staff, at (702) 295-5000.

Original Signed by:
Rob Boehlecke

Robert F. Boehlecke
Federal Project Director
Environmental Restoration Project

ERP:8022.CD

Enclosures:
As stated



Department of Energy
National Nuclear Security Administration
Nevada Site Office
P.O. Box 98518
Las Vegas, NV 89193-8518



ERD.111024.0001

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.

CONCURRED	
EM	5-0789
PSG	
Dinsman	
10/18/11	
PSG	
Lantow	
10/19/11	
ERP	
Cable	KC
10/19/11	
ERP	
Boehlecke	
10/19/11	
AMEM	5-0789