



Department of Energy

Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221
FEB 13 2015

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

Subject: Notification of Class 1 Permit Modification Notification to the Waste Isolation Pilot Plant
Hazardous Waste Facility Permit Number: NM4890139088-TSDF

Dear Mr. Kieling:

Enclosed is the following Class 1 Permit Modification Notification consisting of the following items:

- Clarify the Date When Laboratory Procedures are Provided to NMED
- Add New Emergency Response Equipment

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

If you have any questions, please contact Mr. George T. Basabilvazo at 575-234-7488.

Sincerely,

Original Signatures on File

~~Jose R. Franco, Manager~~
Carlsbad Field Office

R.L. McQuinn, Project Manager
Nuclear Waste Partnership LLC

Enclosure

cc: w/enclosure
R. Flynn, NMED *ED
T. Kliphuis, NMED ED
S. Lucas-Kamat, NMED ED
R. Maestas, NMED ED
K. Roberts, NMED ED
S. Holmes, NMED ED
C. Smith, NMED ED
CBFO M&RC

*ED denotes electronic distribution

Class 1 Permit Modification Notifications

Clarify the Date When Laboratory Procedures are Provided to NMED

Add New Emergency Response Equipment

**Waste Isolation Pilot Plant
Carlsbad, New Mexico**

WIPP Permit Number - NM4890139088-TSDF

February 2015

Table of Contents

| | |
|---|-----|
| Transmittal Letter | |
| Table of Contents..... | i |
| Overview of the Permit Modification Notifications..... | 1 |
| Attachment A Description of the Class 1 Permit Modification Notifications | A-1 |
| Table 1. Class 1 Hazardous Waste Facility Permit Modification Notifications | A-2 |
| Item 1..... | A-3 |
| Description | A-3 |
| Basis | A-3 |
| Discussion..... | A-3 |
| Proposed Revised Permit Text:..... | A-4 |
| Item 2..... | A-5 |
| Description | A-5 |
| Basis | A-5 |
| Discussion..... | A-5 |
| Proposed Revised Permit Text:..... | A-6 |

Overview of the Permit Modification Notifications

This document contains two (2) Class 1 Permit Modification Notifications (**PMNs**) for the Waste Isolation Pilot Plant (**WIPP**) Hazardous Waste Facility Permit (**Permit**) Number NM4890139088-TSDF.

These PMNs are being submitted by the U.S. Department of Energy (**DOE**) and Nuclear Waste Partnership LLC, collectively referred to as the Permittees, in accordance with Permit Part 1, Section 1.3.1. (20.4.1.900 New Mexico Administrative Code (**NMAC**) incorporating Title 40 of the Code of Federal Regulations (**CFR**) §270.42(a)). The PMNs in this document are necessary to notify the New Mexico Environment Department (**NMED**) of a change which impacts the WIPP facility. This change does not reduce the ability of the Permittees to provide continued protection to human health and the environment.

The requested modifications to the Permit and any related supporting documents are provided in these PMNs. The proposed modification to the text of the Permit has been identified using red text and double underline and a ~~strikeout~~ font for deleted information. All direct quotations are indicated by italicized text.

Attachment A
Description of the Class 1 Permit Modification Notifications

Table 1. Class 1 Hazardous Waste Facility Permit Modification Notifications

| Affected Permit Section | Change Description | Category |
|---|--|-----------------|
| Attachment N, Section N-4e | Clarify the due date by which laboratory procedures will be sent to NMED. | A.1 |
| Attachment D, Table D-6, Attachment E, Table E-1 | Add new emergency response equipment. Make editorial changes to Attachment E, Table E-1 to address the new equipment added to Attachment D, Table D-6. | B.6.b. |

Item 1

Description

Added “by January 31” to Attachment N, Section N-4e to clarify the date when laboratory procedures are provided to NMED and to make the language consistent with Attachment L, Section L-4c(3).

Basis

The change is classified as an “administrative and informational change” and is, therefore, a class 1 modification notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, appendix I A.1).

Discussion

The language in Attachment L, Section L-4c(3) states that the Permittees will provide the NMED with updated laboratory SOPs on an annual basis by January 31. The text in Attachment N, Section N-4e did not state the submittal date of January 31. The Permittees have added “by January 31” to make the text in Attachment N, Section N-4e consistent with Attachment L, Section L-4c(3).

Proposed Revised Permit Text:

N-4e Analytical Procedures

Analytical procedures used in the analysis of VOC samples from canisters are based on concepts contained in Compendium Method TO-15 (EPA, 1999) and in SW-846 Method 8260B (EPA, 1996).

Analysis of samples will be performed by a certified laboratory. Methods will be specified in procurement documents and will be selected to be consistent with Compendium Method TO-15 (EPA, 1999) or EPA recommended procedures in SW-846 (EPA, 1996). Additional detail on analytical techniques and methods will be given in laboratory SOPs.

The Permittees will establish the criteria for laboratory selection, including the stipulation that the laboratory follow the procedures specified in the appropriate Air Compendium or SW-846 method and that the laboratory follow EPA protocols. The selected laboratory shall demonstrate, through laboratory SOPs, that it will follow appropriate EPA SW-846 requirements and the requirements specified by the EPA Air Compendium protocols. The laboratory shall also provide documentation to the Permittees describing the sensitivity of laboratory instrumentation. This documentation will be retained in the facility operating record and will be available for review upon request by NMED.

The SOPs for the laboratory currently under contract will be maintained in the operating record by the Permittees. The Permittees will provide NMED with an initial set of applicable laboratory SOPs for information purposes, and provide NMED with any updated SOPs on an annual basis by January 31.

Data validation will be performed by the Permittees. Copies of the data validation report will be kept on file in the operating record for review upon request by NMED.

Item 2

Description

Added some new emergency response equipment to Attachment D, Table D-6. The following new emergency equipment is being added to Table D-6:

- A new underground ambulance (Ambulance #3)
- A new surface fire truck (Fire Truck #2) is replacing the “Emergency One Apparatus”
- A new underground rescue truck (Rescue Truck #3)
- New underground fire suppression vehicles (Underground Fire Suppression Vehicles)

In addition, the Permittees made the following changes to Attachment D, Table D-6:

- To “Rescue Truck” added “#1” to read “Rescue Truck #1.” This change clarifies that there are three rescue trucks [1 surface rescue truck (Rescue Truck #1) and 2 underground rescue trucks (Rescue Truck #2 and #3)] identified in Attachment D, Table D-6.
- The following footnote was added to Table D-6: ^a The NMED will be notified when new equipment is brought on line in calendar year 2015.

In addition, the Permittees made some editorial changes to Attachment E, Table E-1 to address the new equipment added to Attachment D, Table D-6:

- Changed “Seagrave Fire Apparatus” and “Emergency One Apparatus” to “Fire Trucks”
- Added an “s” to “Rescue Truck (Surface and Underground)” and to “Underground Rescue Truck”

Basis

The change is classified as a “Replacement with functionally equivalent equipment, upgrade, or relocate emergency equipment listed”, therefore, a class 1 modification notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, appendix I B.6.b). This is the classification because similar equipment already exists in the Permit. The replacement and upgrades simply provide additional fire suppression capacity and additional emergency medical capabilities.

Discussion

These changes are needed in Attachment D, Table D-6 to add additional emergency response equipment that will enhance the Permittees Emergency Management Program. Fire Truck #2 is being brought into service in February 2015. The other new equipment will be brought online in the future as it is received onsite and turned over to operations. To address this, a new footnote was added to Table D-6 to notify the NMED as the new equipment is brought into service. The editorial changes were necessary to address the additional equipment.

Proposed Revised Perm Text:

**Table D-6
Emergency Equipment Maintained at the Waste Isolation Pilot Plant**

| Equipment | Description and Capabilities | Location |
|----------------------------|---|---|
| Communications | | |
| Building Fire Alarms | Manual pull stations and automatic devices (sprinkler system flow, and smoke and thermal detectors) trigger fire alarm; locally visible and audible; visual display and alarm in Central Monitoring Room (CMR) | Guard and Security Building, Pumphouse, Warehouse/Shops, Exhaust Filter Building, Support Building, CMR/ Computer Room, Waste Handling Building, TRUPACT Maintenance Facility, SH Hoisthouse, Maintenance Shops, Guard Shack*, Auxiliary Warehouse, Core Storage Building, Engineering Building, Training Facility, Safety Building, Maintenance Shop, Hazardous Waste Storage (non-TRU) Area (Facility 474) *local alarms; not connected to the CMR |
| Underground Fire Alarms | Automatic/Manual; have priority over other paging channel signals but not override intercom channels; alarms sound in the general area of the control panel and are connected to the underground evacuation alarms; they also interface with the CMR. | Fire detection and control panel locations: Waste Shaft Underground Station, SH Shaft Underground Station, Between E-140 and E-300 in S-2180 Drift, E-O/N-1200, Fuel Station |
| Site-wide Evacuation Alarm | Transmitted over paging channel of the public address system, overriding its normal use; manually initiated according to procedures requiring evacuation; audible alarm produced by tone generator at 10 decibels above ambient noise level (or at least 75 decibels); flashing strobe lights; radios and/or pagers are used to notify facility personnel outside alarm range. Monthly test are performed on the PA, site notification alarms, and plectrons. | Site-wide |
| Vehicle Siren | Manual; oscillating; emergency services/surface response vehicles, is mechanical and electronic. | WIPP surface emergency vehicles |
| Public Address System | Includes intercom phones; handset stations and loudspeaker assemblies, each with own amplifiers; multichannel, one for public address and pages, and others for independent party lines. | Surface and underground |
| Intraplant Phones | Private automatic branch exchange; direct dial; provide communication link between surface and underground operations | Throughout surface and underground |

| Equipment | Description and Capabilities | Location |
|------------------------------------|---|---|
| Mine Page Phones | Battery-operated paging system | CMR, Mine Rescue Room, EOC, lamproom, underground at S550/W30, S100/W30, S1950/E140, SH Shaft Collar and Underground Station, Waste Shaft Collar and Underground Station, FSM desk, EST Station |
| Emergency Pagers | Manual; , intermittent alarm signals | Issued to appropriate emergency personnel |
| Plectrons | Tone-alert radio receivers placed in areas not accessible by the public address system | Site-wide |
| Portable Radios | Two-way, portable; transmits and monitors information to/from other transmitters | Issued to individuals |
| Plant Base Radios | Two-way, stationary, VHF-FM; linked to Eddy County Sheriff Department, NM State Police, and Otis Fire Department), and WIPP Channels 1-18 (Communication with the Lea County Sheriff's Department, the Hobbs Fire Department, Carlsbad Medical Center and Lea Regional Hospital is available via the Eddy County dispatcher) (Site Security, Site Operations and Site Emergency, maintenance, repeater to Carlsbad). Wireless communications such as cellular phones may be used to contact the Eddy County emergency responders. | Various site locations |
| Mobile Phones | Provide communications link between WIPP Security and key personnel | Issued to individuals plus emergency vehicles, |
| Spill Response | | |
| SPILL-X-S Guns and Recharge Powder | Containment; (1)SPILL-X model SC-30-C(Gun) (1)SPILL-X model XC-30-S(Gun) (1)SPILL-X model SC-30-A(Gun); (1) A-Acid, 5 gallon bucket (Recharge Powder) (1)S-Solvent, 5 gallon bucket (Recharge Powder) (1)C-Caustic, 5 gallon bucket (Recharge Powder) | HAZMAT trailer |
| Absorbent Sheets | Containment or cleanup; (1) 3' x 100' Sheet | HAZMAT trailer |
| Absorbents | Grab and Go container; spill control bucket; (1) for solvents and neutralizing absorbents; 5 gallon bucket (1) for acids/caustics; 5 gallon bucket | HAZMAT trailer |
| Absorbent Material | Containment or cleanup; (1) 100 ft. rolled or equivalent socks "Pig" for general liquid (1) 100 ft. rolled or equivalent socks "Pig" for oil | HAZMAT trailer |
| Air Bag System | Extrication, Stabilization, Cribbing (1) bag system with tank kit and the following bag sizes: (1)12-ton, (1) 21.8-ton, (1)17-ton | Surface rescue truck |

| Equipment | Description and Capabilities | Location |
|-------------------------------------|---|---|
| Air Chisel | Extrication (1) Capable of cutting 3/16" steel | Surface rescue truck |
| Drum Transfer Pumps and Drum Opener | Containment or cleanup; (1) unit for chemical transfer (1) hand operated pump for petroleum transfer (1) drum opener | HAZMAT trailer |
| Floor Squeegee | Containment or cleanup; (1) straight rubber blade, nonwood handle | HAZMAT trailer |
| Foam Concentrate | AFFF 6% (4) 5-gallon pail | Fire truck # 1 |
| Gas Cylinder Leak Control Kit | (1)Series A Hazardous Material Response Kit; contains nonsparking equipment to control and plug leaks | HAZMAT trailer |
| Portable Generator | (1)Backup power; 5,000 watt; 120 or 240 volt | Surface rescue truck |
| Hand Tools | Containment and cleanup; Underground rescue truck: (1)12# Sledge Hammer (1)3/8" Drive Socket Set (1)1/2" Drive Socket Set (1)3/4" Drive Socket Set (1)25' 1/2" Chain (1)6' Wrecking Bar (1)Bottle Jack (1)4# Hammer (1)18" Crescent Wrench (1)5' Pry Bar (1)2' Pry Bar (1)100' Extension Cord (1)4' Nylon Sling (1)6' Nylon Sling (1)10' Nylon Sling These tools are located in the HAZMAT Trailer. They are non-sparking. (1)14"L adjustable pipe wrench (1)15" multi-opening bung wrench (1)hammer/crate opener (1)8" pipe pliers (1)8" blade Phillips (1)#2 screwdriver (1)6" blade standard screwdriver (1)Claw Hammer | Underground rescue truck, HAZMAT trailer |
| Come-a-longs | (1) 4-ton; cable-type Ratchet lever tool designed specifically for lifting, lowering and pulling applications including jobs requiring rigging, positioning, and stretching. Used in rescue for extrication. | Surface rescue truck and underground rescue truck |

| Equipment | Description and Capabilities | Location |
|--|---|--|
| Porta-power | (1) 10-ton hydraulic, hand-powered jaws used for extrication during rescues. | Surface rescue truck |
| Jugs | Containment or cleanup; (4) 1-gallon plastic | HAZMAT trailer |
| Pails | Containment or cleanup; (3) 5-gallon plastic with lid | HAZMAT trailer |
| Portable Lighting | (1) Emergency lighting system; 120 volts; 500-watt bulbs, suitable for wet location | Underground rescue truck |
| Patching Kit | Series A Hazardous Response Kit; Class A; contains nonsparking equipment to control and plug leaks. | HAZMAT trailer |
| Scoops and Shovels | Cleanup; plastic; various sizes; nonsparking; nonwood handles (1) Scoop (3) Shovels | HAZMAT trailer |
| Medical Resources | | |
| Ambulance #1 | Equipped as per Federal Specifications KKK-A-1822 and New Mexico Emergency Medical Services Act General Order 35; equipped with a radio to Carlsbad Medical Center, VHF radio, UHF medical frequency, cellular phone | Surface (Safety and Emergency Services Facility) |
| Ambulance #2 | Diesel and/or electric ambulance equipped with first aid kit, 2 stretchers, and other associated medical supplies | Underground |
| <u>Ambulance #3^a</u> | <u>Diesel and/or electric ambulance equipped with first aid kit, rescue basket, oxygen, cardiac monitor and other associated medical supplies</u> | <u>Underground</u> |
| Rescue Truck #1 | Special purpose vehicle; light and heavy duty rescue equipment; transports 1 litter patient, medical oxygen and supplies for mass casualties, fire suppression support equipment (rescue tool, air bag, K-12 Rescue Saw, 5,000-watt generator, self-contained breathing apparatus (SCBA), and much more equipment | Surface (Safety and Emergency Services Facility) |
| Fire Detection and Fire Suppression Equipment | | |
| Building Smoke, Thermal Detectors, or Manual Pull Stations | Ionization and photoelectric or fixed temperature/rate of rise detectors; visual display and alarm in CMR; manual pull stations. The underground has manual fire alarm pull stations located where personnel have access when evacuating. These are connected to the U/G evacuation alarm. | Guard and Security Building, Warehouse/Shops, Support Building, CMR/Computer Room, Waste Handling Building, TRUPACT Maintenance Facility, Waste Shaft Collar, Underground Fuel Station, SH Hoisthouse, Engineering Building, Industrial Safety Building, Training Facility |
| Fire Truck # 1 | Equipped per Class "A" fire truck per NFPA; capacity 750 gallons, with pump capacity of 1200 gallons per minute | Surface (Safety and Emergency Services Facility) |
| <u>Fire Truck #2</u> | <u>Equipped per Class "A" fire truck per NFPA; capacity 1500 gallons, with pump capacity rated for 1250 gallons per minute.</u> | <u>Surface (Safety and Emergency Services Facility)</u> |

| Equipment | Description and Capabilities | Location |
|--|---|--|
| Rescue Truck # 2 (U/G) | (1) 125-pound dry chemical extinguisher (1) 150-pound foam extinguisher | Underground |
| <u>Rescue Truck #3^a (U/G)</u> | <u>(1) 125-pound dry chemical extinguisher</u> <u>(1) 33-gallon foam extinguisher</u> | <u>Underground</u> |
| <u>Underground Fire^a Suppression Vehicles</u> | <u>(1) 125-pound dry chemical fire extinguisher</u> <u>(1) 33-gallon foam extinguisher</u> | <u>Underground</u> |
| Extinguishers | Individual fire extinguisher stations; various types located throughout the facility, conforming to NFPA-10. | Buildings, underground, and underground vehicles |
| Automatic Dry Chemical Extinguishing Systems | Automatic; 1,000-pound system (Dry Chemical); actuated by thermal detectors or by manual pull stations | Underground fuel station |
| Sprinkler Systems | Fire alarms activated by water flow | Pumphouse, Guard and Security Building, Support Building, Waste Handling Building (contact- transuranic waste area only), Warehouse/Shops Building, Auxiliary Warehouse Building, TRUPACT Maintenance Facility, Training Facility, SH Shaft Hoisthouse, Exhaust Filter Building, Engineering Building, and Safety Building |
| Water Tanks, Hydrants | Fire suppression water supply; one 180,000-gallon capacity tank, plus a second tank with 100,000 gallon reserve | Tanks are at southwestern edge of WIPP facility; pipelines and hydrants are throughout the surface |
| Fire Water Pumps | Fire suppression water supply; pumps are rated at 125 pounds per square inch, 1,500 gallons per minute centrifugal pump, one with electric motor drive, the other with diesel engine; pressure maintenance pump | Pumphouse |
| Personal Protection Equipment | | |
| Headlamps | Mounted on hard hat; battery operated | Each person underground |
| Underground Self-Rescuer Units | Short-term rebreathers; approximately 300 | Each person underground |
| Self-Contained Self-Rescuer | At least 60 minutes of oxygen available. Approximately 400 units cached throughout the underground | Cached throughout the underground |
| Self-Contained Breathing Apparatus (SCBA) | Oxygen supply; 4-hour units; approximately 14 Mine Rescue Team Draeger units | Mine Rescue Training Room |
| Chemical and Chemical-Supported Gloves | Body protection; (12 pair) inner-cloth, (12 pair) outer-pvc, (5 pair) outer-viton | HAZMAT trailer |

| Equipment | Description and Capabilities | Location |
|------------------------------------|---|--|
| Suit, Acid | Body protection; (4) acid | HAZMAT trailer |
| Suit, Fully Encapsulated | Body protection; used with SCBAs; full outerboot; (4) Level A; (4) Level B | HAZMAT trailer |
| Emergency Medical Equipment | | |
| Antishock Trousers | Shock treatment; (2) inflatable, one on each ambulance | Ambulance # 1 and # 2 |
| Heart Monitor and Defibrillator | Heart Monitor/defibrillator | Ambulance # 1 and # 2 |
| Oxygen | Patient care; Size D: (2) Ambulance #1 (1) Underground Ambulance (1) Health Services Size E: (1) Rescue Truck (2) Underground Ambulance Size M: (1) Ambulance #1 | Ambulance # 1 and # 2, surface rescue truck |
| Resuscitators (Bag) | Disposable bag resuscitation Ambulance #1: (2) adult size (1) child size Underground Ambulance: (2) adult size | Ambulance # 1, Ambulance # 2 |
| Splints | Immobilize limbs; (1) Adult traction splint, lower extremity, with limb-supporting slings, padded ankle hitch and traction device per ambulance. (2) Rigid splinting devices or equivalents, suitable for immobilization of upper extremities per ambulance. (2) Rigid splinting devices or equivalents, suitable for the immobilization of lower extremities. (1) Set of Airsplints: 6 assorted splints; hand/wrist, half arm, full arm, foot/ankle, half leg, and full leg per miner's aid stations. | Ambulance # 1 and # 2, Miner's Aid Stations |
| Stretchers | Patient transport; (2) Spine Boards, one short and one long, with nylon straps per ambulance. (also used to perform cardiopulmonary resuscitation) (2) Emergency Stretchers or scoops, or combination per ambulance (1) All-purpose multi-level ambulance stretch (gurney), with 3 safety straps and locking mechanism per ambulance. (1) Stretcher in each miner's aid station. | Various combinations in Ambulance # 1 and # 2, Miner's Aid Station |

| Equipment | Description and Capabilities | Location |
|---------------------|--|---|
| Suctions | For medical emergencies: Portable (1) Suction unit, capable of delivering at least 300 mm. HG on each ambulance. | Ambulances #1 and #2 |
| Trauma Kits | (1) adult blood pressure cuff and stethoscope (4) soft-roller bandages (3) triangular bandages (1) pkg. band-aids (2) trauma dressings (25) 4X4 sponges (1) roll adhesive tape (1) bite stick (1) penlight (1) sterile burn sheet (1) oropharyngeal airway (1) glucose substance (2) sterile gauze dressings | (1) kit in each: Ambulances #1 and #2, surface rescue truck |
| Miner's Aid Station | For First Aid Stations in the Underground (1) Stretcher--as referenced above per station (1) Set of airsplints--as referenced above per station (1) Blanket per station (1) Box of latex gloves (50) per station (5) Pathogen Wipes per station (1) First Aid Kit (24) per station; includes, (3) Band-Aid Combo Paks (2) Swabs, PVP (1) Antibiotic Ointment (1) Sting-Kill Swab (2) Dressing, compresses (2) Roller Bandages (2) Tape (2) Triangle Bandage (1) Eyedressing Pak (1) Burn Dressing (1) Ammonia Inhalants (1) User Log Sheet | Miner's Aid Stations - Various Underground Locations |

| Equipment | Description and Capabilities | Location |
|--|---|--|
| First Aid Supplies | According to General Order #35 (12) bandages, soft roller, self-adhering type--4" or 6" x 5 yards. (6) triangular bandages, 40" (1) box band-aids (1) 1 pair bandage shears (6) Trauma dressings, 30" x 10" (6) Trauma dressings, 5" x 7" (50) 4" x 4" sponges, individually wrapped and sterile (2) rolls adhesive tape (1) penlight (2) sterile burn sheets (2) oropharyngeal airways -- adult (2) oropharyngeal airways -- child (Ambulance #1 only) (2) oropharyngeal airways -- infant (Ambulance #1 only) (1) Glucose substance (3) Occlusive dressings (1) Roll aluminum foil (6) Rigid cervical collars--2 each small, medium and large sizes (4) Cold packs (4) Heat packs (2) Bite sticks | Ambulance #1 |
| First Aid Supplies | (2) Transfer sheets (2) Blankets | Ambulances #1 and #2 |
| First Aid Supplies | (2) #16g angiosets (2) #18g angiosets (2) #20g angiosets (1) 1000cc LR IV fluid (1) 500cc NS IV fluid | Ambulances #1 and #2, surface rescue truck |
| General Plant Emergency Equipment | | |
| Emergency Lighting | For employee rescue and evacuation, and fire/spill containment; linked to main power supply, and selectively linked to back up diesel power supply and/or battery-backed power supply | Surface and underground |
| Backup Power Sources | Two diesel generators, and battery-powered uninterruptible power supply (UPS); use limited to essential loads; manual or remote starting 1,100-kilowatt diesel generators with on-site fuel for 62% load for 3 days for selected loads; 30-minute battery capacity for essential loads | Generators are east of Safety and Emergency Services Building; UPS is located at the essential loads |
| Hoists | Hoists in Waste Shaft, Air Intake Shaft, and SH Shaft | Waste Shaft, Air Intake Shaft, SH Shaft |
| Radiation Monitoring Equipment | (5) Portable alpha and beta survey meters, portable air samplers, and portable continuous air monitors | Building 412 |
| Emergency Shower | For emergency flushing of chemical contact or injury | Surface |

| Equipment | Description and Capabilities | Location |
|--------------------------------------|--|---|
| Eye Wash Fountains | For emergency flushing of affected eyes | Various locations on surface and in the underground |
| Decon Shower Equipment | Self-contained decon shower trailer, portable decon shower unit | Surface |
| Overpack containers | 14-85 Gallon drums 4-SWBs 1-TDOP | Building 481 Building 481 Building 481 |
| HEPA Vacuums | 2 HEPA Vacuums to be utilized for removal of contamination. | Building 481 |
| Aquaset or Cement | 100 lbs. of aquaset or cement material for solidification of liquid waste generated as a result of fire fighting water or decontamination solutions. | Building 481 |
| Paint or Fixative | 1 - 5 gallon bucket of approved fixative to be used during recovery. | Building 481 |
| TDOP Upender | Upender facilitates overpacking standard waste boxes | Building 481 |
| Non hazardous Decontaminating Agents | 4-1 Gallon bottles for decontamination of surfaces, equipment, and personnel | Building 481 |

^a The NMED will be notified when new equipment is brought on line in calendar year 2015.

**Table E-1
Inspection Schedule/Procedures**

| System/Equipment Name | Responsible Organization | Inspection a Frequency and Job Title of Personnel Normally Making Inspection | Procedure Number and Inspection Criteria |
|---|---------------------------------|---|---|
| Air Intake Shaft Hoist | Underground Operations | Preoperational ^c See Lists 1b and c | WP 04-HO1004 Inspecting for Deterioration ^b , Safety Equipment, Communication Systems, and Mechanical Operability ^m in accordance with Mine Safety and Health Administration (MSHA) requirements |
| Ambulances (Surface and Underground) and related emergency supplies and equipment | Emergency Services | Weekly See List 11 | 12-FP0030 Inspecting for Mechanical Operability ^m , Deterioration ^b , and Required Equipment ⁿ |
| Adjustable Center of Gravity Lift Fixture | Waste Handling | Preoperational See List 8 | WP 05-WH1410 Inspecting for Mechanical Operability ^m and Deterioration ^b |
| Backup Power Supply Diesel Generators | Facility Operations | Monthly See List 3 | WP 04-ED1301 Inspecting for Mechanical Operability ^m and Leaks/Spills by starting and operating both generators. Results of this inspection are logged in accordance with WP 04-AD3008. |
| Facility Inspections (Water Diversion Berms) | Facility Engineering | Annually See List 4 | WP 10-WC3008 Inspecting for Damage, Impediments to water flow, and Deterioration ^b |
| Central Monitoring Systems (CMS) | Facility Operations | Continuous See List 3 | Automatic Self-Checking |
| Contact-Handled (CH) TRU Underground Transporter | Waste Handling | Preoperational See List 8 | WP 05-WH1603 Inspecting for Mechanical Operability ^m , Deterioration ^b , and area around transporter clear of obstacles |
| Conveyance Loading Car | Waste Handling | Preoperational See List 8 | WP 05-WH1406 Inspecting for Mechanical Operability ^m , Deterioration ^b , path clear of obstacles, and guards in the proper place |
| Facility Transfer Vehicle | Waste Handling | Preoperational See List 8 | WP 05-WH1204 Inspecting for Mechanical Operability ^m , Deterioration ^b , path clear of obstacles, and guards in the proper place |

| System/Equipment Name | Responsible Organization | Inspection a Frequency and Job Title of Personnel Normally Making Inspection | Procedure Number and Inspection Criteria |
|---|---------------------------------|---|---|
| Exhaust Shaft | Underground Operations | Quarterly See List 1a | PM041099 Inspecting for Deterioration ^b and Leaks/Spills |
| Eye Wash and Shower Equipment | Equipment Custodian | Weekly See List 5 | WP 12-IS1832 Inspecting for Deterioration ^b |
| | | Semi-annually See List 2a | WP 12-IS1832 Inspecting for Deterioration ^b and Fluid Levels—Replace as Required |
| Fire Detection and Alarm System | Emergency Services | Semiannually See List 11 | 12-FP0027 Inspecting for Deterioration ^b , Operability of indicator lights and, underground fuel station dry chemical suppression system. Inspection is per NFPA 17 |
| Fire Extinguishers ^j | Emergency Services | Monthly See List 11 | 12-FP0036 Inspecting for Deterioration ^b , Leaks/Spills, Expiration, seals, fullness, and pressure |
| Fire Hoses | Emergency Services | Annually (minimum) See List 11 | 12-FP0031 Inspecting for Deterioration ^b and Leaks/Spills |
| Fire Hydrants | Emergency Services | Semi-annual/ annually See List 11 | 12-FP0034 Inspecting for Deterioration ^b and Leaks/Spills |
| Fire Pumps | Emergency Services | Weekly/annually See List 11 | WP 12-FP0026 Inspecting for Deterioration ^b , Leaks/Spills, valves, and panel lights |
| Fire Sprinkler Systems | Emergency Services | Monthly/ quarterly See List 11 | 12-FP0025 Inspecting for Deterioration ^b , Leaks/Spills, static pressures, and removable strainers |
| Fire and Emergency Response Trucks (Seagrave Fire Apparatus <u>Fire Trucks</u> , Emergency One Apparatus, <u>Underground Fire Suppression Vehicles</u> , and Underground Rescue Trucks) | Emergency Services | Weekly See List 11 | 12-FP0033 Inspecting for Mechanical Operability ^m , Deterioration ^b , Leaks/Spills, and Required Equipment ⁿ |

| System/Equipment Name | Responsible Organization | Inspection a Frequency and Job Title of Personnel Normally Making Inspection | Procedure Number and Inspection Criteria |
|--|-------------------------------------|---|--|
| Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment) | Waste Handling | Preoperational See List 8 | WP 05-WH1201, WP 05-WH1207, WP 05-WH1401, WP 05-WH1402, WP 05-WH1403, and WP 05-WH1412 Inspecting for Mechanical Operability ^m , Deterioration ^b , and On board fire suppression system |
| Hazardous Material Response Equipment | Emergency Services | Weekly See List 11 | 12-FP0033 Inspecting for Mechanical Operability ^m , Deterioration ^b , and Required Equipment ⁿ |
| Miners First Aid Station | Emergency Services | Quarterly See List 11 | 12-FP0035 Inspecting for Required Equipment ⁿ |
| Mine Pager Phones (between surface and underground) | Facility Operations | Monthly See List 3 | WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations |
| MSHA Air Quality Monitor | Maintenance/ Underground Operations | Daily ⁱ See Lists 1 and 10 | WP 12-IH1828 Inspecting for Air Quality Monitoring Equipment Functional Check |
| Perimeter Fence, Gates, Signs | Security | Daily See List 6 | PF0-010 Inspecting for Deterioration ^b and Posted Warnings |
| Personal Protective Equipment (not otherwise contained in emergency vehicles or issued to individuals): —Self-Contained Breathing Apparatus | Emergency Services | Weekly See List 11 | 12-FP0029 Inspecting for Deterioration ^b and Pressure |
| Public Address (and Intercom System) | Facility Operations | Monthly See List 3 | WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations Systems operated in test mode |
| Radio Equipment | Facility Operations | Daily ⁱ See List 3 | Radios are operated daily and are repaired upon failure |
| Rescue Trucks (Surface and Underground) | Emergency Services | Weekly See List 11 | 12-FP0030 and 12-FP0033 Inspecting for Mechanical Operability ^m , Deterioration ^b , Leaks/Spills, and Required Equipment ⁿ |

| System/Equipment Name | Responsible Organization | Inspection a Frequency and Job Title of Personnel Normally Making Inspection | Procedure Number and Inspection Criteria |
|--|---------------------------------|---|--|
| Salt Handling Shaft Hoist | Underground Operations | Preoperational See List 1b and c | WP 04-HO1002 Inspecting for Deterioration ^b , Safety Equipment, Communication Systems, and Mechanical Operability ^m in accordance with MSHA requirements |
| Self-Rescuers | Underground Operations | Quarterly See List 1c | WP 04-AU1026 Inspecting for Deterioration ^b and Functionality in accordance with MSHA requirements |
| Surface TRU Mixed Waste Handling Area ^k | Waste Handling | Preoperational or Weekly ^e See List 8 | WP 05-WH1101 Inspecting for Deterioration ^b , Leaks/Spills, Required Aisle Space, Posted Warnings, Communication Systems, Container Condition, and Floor coating integrity |
| TRU Mixed Waste Decontamination Equipment | Waste Handling | Annually See List 8 | WP 05-WH1101 Inspecting for Required Equipment ⁿ |
| Underground Openings— Roof Bolts and Travelways | Underground Operations | Weekly See List 1a | WP 04-AU1007 Inspecting for Deterioration ^b |
| Underground— Geomechanical Instrumentation System (GIS) | Geotechnical Engineering | Monthly See List 9 | WP 07-EU1301 Inspecting for Deterioration ^b |
| Underground TRU Mixed Waste Disposal Area | Waste Handling | Preoperational See List 8 | WP 05-WH1810 Inspecting for Deterioration ^b , Leaks/Spills, mine pager phones, equipment, unobstructed access, signs, debris, and ventilation |
| Uninterruptible Power Supply (Central UPS) | Facility Operations | Daily See List 3 | WP 04-ED1542 Inspecting for Mechanical Operability ^m and Deterioration ^b with no malfunction alarms. Results of this inspection are logged in accordance with WP 04-AD3008. |
| TDOP Upender | Waste Handling | Preoperational See List 8 | WP 05-WH1010 Inspecting for Mechanical Operability ^m and Deterioration ^b |
| Vehicle Siren | Emergency Services | Weekly See List 11 | Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks |

| System/Equipment Name | Responsible Organization | Inspection a Frequency and Job Title of Personnel Normally Making Inspection | Procedure Number and Inspection Criteria |
|------------------------------|---------------------------------|---|---|
| Ventilation Exhaust | Maintenance Operations | Quarterly See List 10 | IC041098 Check for Deterioration ^b and Calibration of Mine Ventilation Rate Monitoring Equipment |
| Waste Handling Cranes | Waste Handling | Preoperational See List 8 | WP 05-WH1407 Inspecting for Mechanical Operability ^m , Deterioration ^b , and Leaks/Spills |
| Waste Hoist | Underground Operations | Preoperational See List 1b and c | WP 04-HO1003 Inspecting for Deterioration ^b , Safety Equipment, Communication Systems, and Mechanical Operability ^m , Leaks/Spills, in accordance with MSHA requirements |
| Water Tank Level | Facility Operations | Daily See List 3 | SDD-WD00 Inspecting for Deterioration ^b , and water levels. Results of this inspection are logged in accordance with WP 04-AD3008. |
| Push-Pull Attachment | Waste Handling | Preoperational See List 8 | WP 05-WH1401 Inspecting for Damage and Deterioration ^b |
| Trailer Jockey | Waste Handling | Preoperational See List 8 | WP 05-WH1405 Inspecting for Mechanical Operability ^m and Deterioration ^b |
| Explosion-Isolation Walls | Underground Operations | Quarterly See List 1 | Integrity and Deterioration ^b of Accessible Areas |
| Bulkhead in Filled Panels | Underground Operations | Monthly See List 1 | Integrity and Deterioration ^b of Accessible Areas |
| Bolting Robot | Waste Handling | Preoperational See List 8 | WP 05-WH1203 Mechanical Operability ^m |
| Yard Transfer Vehicle | Waste Handling | Preoperational See List 8 | WP 05-WH1205 Mechanical Operability ^m , Deterioration ^b , Path clear of obstacles and Guards in proper place |
| Payload Transfer Station | Waste Handling | Preoperational See List 8 | WP 05-WH1208 Mechanical Operability ^m , Deterioration ^b , and Guards in proper place |
| Monorail Hoist | Waste Handling | Preoperational See List 8 | WP 05-WH1202 Mechanical Operability ^m , Deterioration ^b , and leaks/spills |

| System/Equipment Name | Responsible Organization | Inspection a Frequency and Job Title of Personnel Normally Making Inspection | Procedure Number and Inspection Criteria |
|------------------------------|---------------------------------|---|---|
| Bolting Station | Waste Handling | Preoperational See List 8 | WP 05-WH1203 Mechanical Operability ^m , Deterioration ^b , and Guards in proper place |

|