

**ATTACHMENT D**

**INSPECTION SCHEDULE, PROCESS AND FORMS**

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**ATTACHMENT D**  
**INSPECTION SCHEDULE, PROCESS AND FORMS**

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## ATTACHMENT D

### INSPECTION SCHEDULE, PROCESS AND FORMS

#### 1 Introduction

2 This Permit Attachment describes the facility inspections (including container inspections) that  
3 are conducted to detect malfunctions, deterioration, operator errors, and discharges that may  
4 cause or lead to releases of hazardous waste or hazardous waste constituents to the  
5 environment or that could be a threat to human health.

#### 6 D-1 Inspection Schedule

7 Equipment instrumental in preventing, detecting, or responding to environmental or human  
8 health hazards, such as monitoring equipment, safety and emergency equipment, security  
9 devices, and operating or structural equipment are inspected. The equipment will be inspected  
10 for malfunctions, deterioration, potential for operator errors, and discharges which could lead to  
11 a release of hazardous waste constituents to the environment or pose a threat to human health.

12 The WIPP facility has developed and will maintain a series of written procedures that include all  
13 the detailed inspection procedures and forms necessary to comply with 20.4.1.500 NMAC  
14 (incorporating 40 CFR §264.15(b)), during the Disposal Phase. Tables D-1 and D-1a lists each  
15 item or system requiring inspection under these regulations, the inspection frequency, the  
16 organization responsible for the inspection, the applicable inspection procedure, and what to  
17 look for during the inspection. 20.4.1.500 NMAC (incorporating 40 CFR §§264.15(b), 264.174,  
18 and 264.602) list requirements that are applicable to the WIPP facility.

19 Operational procedures detailing the inspections required under 20.4.1.500 NMAC  
20 (incorporating 40 CFR §§264.15(a) and (b)), are maintained in electronic format on the WIPP  
21 computer network, in the Operating Record and, as appropriate, in controlled document  
22 locations at the WIPP facility. Frequency of inspections is discussed in detail in Section D-1a(2).  
23 Inspections are conducted often enough to identify problems in time to correct them before they  
24 pose a threat to human health or the environment and are based on regulatory requirements.  
25 The operational procedures assign responsibility for conducting the inspection, the frequency of  
26 each inspection, the types of problems to be watched for, what to do if items fail inspection,  
27 directions on record keeping, and inspector signature, date, and time. The operational  
28 procedures are maintained at the WIPP facility. Tables D-1 and D-1a summarizes inspections,  
29 frequencies, responsible organizations, personnel making the inspection (by job title), and the  
30 types of anticipated problems as well as the references for the operational procedures.  
31 Inspection records are maintained at the WIPP site for three years by the responsible  
32 organization shown in Tables D-1 and D-1a.

33 Waste handling equipment and area inspections are typically controlled through established  
34 procedures and the results are recorded in logbooks or on data sheets. Operators are trained to  
35 consult the logbook to identify the status of any piece of waste handling equipment prior to its  
36 use. Once a piece of equipment is identified to be operable, a preoperational inspection is

1 initiated in accordance with the appropriate inspection procedure in Tables D-1, **D-1a**, or in  
2 **operational procedures**. Inspection results as described below are entered in the applicable  
3 logbook.

4 Inspections include identifying malfunctions or deteriorating equipment and structures.  
5 Inspection results and data, including deficiencies, discrepancies, or needed repairs are  
6 recorded. A negative inspection result does not necessarily lead to a repair. A deficiency, such  
7 as low fluid level, may be corrected by the inspector immediately. A discrepancy, such as an  
8 increasing trend of a data point, may necessitate additional inspection prior to the next  
9 scheduled frequency. The actions taken (corrected, additional inspection, or Action Request  
10 **(AR)** for repair submitted) are recorded on the inspection form, the WIPP automated  
11 Maintenance Management tracking program (**CHAMPS**) work order sheet, or the equipment  
12 logbook, whichever is applicable.

13 Items that are operational with restrictions are tagged with those restrictions. Items that are not  
14 operational are tagged and locked to prevent their use. Tagged and locked items are listed on  
15 the Tagout/Lockout Index. Once a scheduled repair or replacement is accomplished in  
16 accordance with the work authorization procedures, the tag or lock is removed from the item in  
17 accordance with the equipment tagout/lockout procedures. Normally, the individual inspecting  
18 the equipment/system is not qualified to make repairs and consequently, prepares an AR if  
19 repairs are needed. The AR is tracked by the CHAMPS system through the work control  
20 process. When parts are received and work instructions are completed, the work order can be  
21 scheduled on the Plan of the Day (**POD**). The POD is held daily to ensure facility configuration  
22 can support scheduled work items and to allocate and coordinate the resources necessary to  
23 complete the items.

24 Work orders are released for work by the responsible organization. When repairs are complete  
25 the responsible organization tests the equipment to ensure the repairs corrected the problem,  
26 then closes out the work order, to return the equipment to an operational status for normal  
27 operations to resume. Implementation of these procedures constitutes compliance with  
28 20.4.1.500 NMAC (incorporating 40 CFR §264.15(c)).

29 Requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264.15(d)), are met by the  
30 inspections for each item or system included in Tables D-1 and **D-1a**. The results of the  
31 inspections are maintained **in the operating record** for at least three years. The inspection logs  
32 or summary records include the date and time of inspection, the name of the inspector, a  
33 notation of the observations made, and the date and nature of any repairs or other remedial  
34 actions. Major pieces of waste handling equipment are inspected using proceduralized  
35 inspections. Current copies of inspection forms are maintained in the Operating Record. Non-  
36 administrative changes (i.e., changes that affect the frequency or content of inspections) to  
37 inspection forms must be submitted to the NMED in accordance with the appropriate portions of  
38 20 NMAC 4.1.900 (incorporating 40 CFR §270.42). The status of these pieces of equipment is  
39 maintained in an equipment logbook that is separate from the checklist. The logbook contains  
40 information regarding the condition of the equipment. Equipment operators are required, by the  
41 inspection checklist, to consult the logbook as the first activity in the inspection procedure. This  
42 logbook is maintained in the operating record. **CH transuranic (TRU) mixed waste equipment**  
43 **Equipment** that is controlled by a logbook includes the waste handling fork lifts, all waste  
44 handling cranes, the adjustable center of gravity lift fixture, the CH **TRU transuranic (TRU)**

1 underground transporter, the facility transfer vehicle, the trailer jockey, and the push-pull  
2 attachment. RH TRU mixed waste equipment that is controlled by a logbook includes the  
3 140/25-ton RH Bay overhead bridge crane, cask transfer cars, 25-ton cask unloading room  
4 crane, transfer cell shuttle car, RH Bay cask lifting yoke, facility grapple, 6.2-ton overhead hoist,  
5 facility cask rotating device, hot cell overhead powered manipulator, 15-ton hot cell crane,  
6 facility cask transfer car, 41-ton forklift, facility cask, and horizontal emplacement and retrieval  
7 equipment. Inspections of the Cask Unloading Room, Hot Cell, Transfer Cell, Facility Cask  
8 Loading Room, RH Bay and radiation monitoring equipment will be recorded on data sheets. In  
9 addition to the inspections listed in Tables D-1 and D-1a, many pieces of equipment are subject  
10 to regular preventive maintenance. This includes more in-depth inspections of mechanical  
11 systems, load testing of lifting systems, calibration of measurement equipment and other actions  
12 as recommended by the equipment manufacturer or as required by DOE Orders. These  
13 preventive maintenance activities along with the inspections in Tables D-1 and D-1a make  
14 mechanical failure of waste handling equipment unlikely. The WIPP Safety Analysis Report  
15 (DOE, 1999-1995a) and the WIPP Remote-Handled Waste Preliminary Safety Analysis Report  
16 (RH PSAR) (DOE, 2000) contains the results of a systematic analysis of waste handling  
17 equipment and the hazards associated with potential mechanical failures. Equipment subject to  
18 failures that cannot practically be mitigated is retained for analysis and are is the basis for  
19 contingency planning. The inspection procedures maintained in the Operating Record for  
20 operational and preventive maintenance are implemented to assure the equipment is  
21 maintained. An example equipment inspection checklist and a typical logbook form are shown  
22 as Figures D-1 and D-42. Actual checklists or forms are maintained within the Operating  
23 Record.

#### 24 D-1a General Inspection Requirements

25 Tables D-1, D-1a, and D-2 of this Permit Attachment list the major categories of monitoring  
26 equipment, safety and emergency systems, security devices, and operating and structural  
27 equipment that are important to the prevention or detection of, or the response to,  
28 environmental or human health hazards caused by hazardous waste. These systems may  
29 include numerous subsystems. These systems are inspected according to the frequency listed  
30 in Tables D-1 and D-1a, a copy of which is maintained at the WIPP facility. The frequency of  
31 inspections is based on the nature of the equipment or the hazard and regulatory requirements.  
32 When in use, daily inspections are made of areas subject to spills, such as TRU mixed waste  
33 loading and unloading areas in the WHB Unit, looking for deterioration in structures, mechanical  
34 items, floor coatings, equipment, malfunctions, etc., in accordance with 20.4.1.500 NMAC  
35 (incorporating 40 CFR §264.15(b)(4)).

36 As required in 20.4.1.500 NMAC (incorporating 40 CFR §264.33), the WIPP facility inspection  
37 procedures for communication and alarm systems, fire-protection equipment, and spill control  
38 and decontamination equipment include provisions for testing and maintenance to ensure that  
39 the equipment will be operable in an emergency.

#### 40 D-1a(1) Types of Problems

41 The inspections for the systems, equipment, structures, etc., listed in Tables D-1 and D-1a,  
42 include the types of problems (e.g., malfunctions, cracks in coatings or welds, and deterioration)

1 to be looked for during the inspection of each item or system, if applicable, and are in  
2 compliance with 20.4.1.500 NMAC (incorporating 40 CFR §264.15(b)(3)).

### 3 D-1a(2) Frequency of Inspections

4 Tables D-1, **D-1a**, and D-2 of this Permit Attachment list the inspection frequencies and  
5 monitoring schedule for equipment and systems subject to the 20.4.1 NMAC hazardous waste  
6 management requirements. The frequency is based on the rate of possible deterioration of the  
7 equipment and the probability of an environmental or human health incident if the deterioration  
8 or malfunction, or any operator error, goes undetected between inspections. Areas subject to  
9 spills, such as loading and unloading areas, are inspected daily when in use, consistent with the  
10 requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264.15(b)(4)).

11 **When a RH TRU mixed waste container is present in the RH Complex, inspections are**  
12 **conducted visually and/or using a closed-circuit video camera in order to manage worker dose**  
13 **and to minimize occupational radiation exposures to as low as reasonably achievable (ALARA).**  
14 **More extensive inspections of these areas are performed at least annually during routine**  
15 **maintenance periods and when RH TRU mixed waste is not present.**

### 16 D-1a(3) Monitoring Systems

17 There are two monitoring systems used at the WIPP to provide assurance that facility systems  
18 are operating correctly, that areas can be used safely, and that there have been no releases of  
19 hazardous waste constituents. These systems are shown in Table D-2 and include the  
20 geomechanical monitoring system and the central monitoring system (**CMS**). The  
21 geomechanical monitoring system is used to assess the condition of mined excavations to  
22 assure no unsafe conditions are allowed to develop. The CMS continuously assesses the status  
23 of the fixed radiation monitoring equipment, electrical power, fire alarm systems, ventilation  
24 system, and other facility systems including water tank levels. In addition, the CMS collects data  
25 from the meteorological monitoring system.

### 26 D-1b Specific Process Inspection Requirements

27 20.4.1.500 NMAC (incorporating 40 CFR §264.15(b)(4)), requires inspections of specific  
28 portions of a facility, rather than the general facility. These include container storage areas and  
29 miscellaneous units. Both are addressed below.

### 30 D-1b(1) Container Inspection

31 Containers are used to manage TRU mixed waste at the WIPP facility. These containers are  
32 described in Permit Module III. Off-site CH TRU mixed waste will arrive in 55-gallon drums  
33 arranged as seven (7)-packs, in Ten Drum Overpacks (**TDOP**), in 85-gallon drums arranged as  
34 four (4) packs, in 100-gallon drums arranged as three (3) packs, or in standard waste boxes  
35 (**SWB**). The waste containers will be visually inspected to ensure that the waste containers are  
36 in good condition and that there are no signs that a release has occurred. This visual inspection  
37 shall not include the center drums of 7-packs and waste containers positioned such that visual  
38 observation is precluded due to the arrangement of waste assemblies on the facility pallets. If  
39 **CH TRU mixed** waste handling operations should stop for any reason with containers located on



1 the TRUPACT-II Unloading Dock (**TRUDOCK** storage area of the WHB Unit) in the Contact-  
2 Handled Packages, primary waste container inspections could not be accomplished until the  
3 containers of waste are removed from the shipping containers.

4 RH TRU mixed waste will arrive in containers inside Nuclear Regulatory Commission (**NRC**)-  
5 certified casks designed to provide shielding and facilitate safe handling. Canisters, will be  
6 loaded singly into an RH-TRU 72-B cask. Drums will be loaded into a CNS 10-160B cask. The  
7 cask will be visually inspected upon arrival. Because RH TRU mixed waste is held in the  
8 ~~Parking Area Staging Area~~ or stored in the Parking Area Unit in sealed casks, there are no  
9 additional requirements for engineered secondary containment systems. Following removal of  
10 the canisters and drums, the interior of the cask will be inspected and surveyed for evidence of  
11 contamination that may have occurred during transport.

12 RH TRU mixed waste is handled and stored in the RH Complex of the WHB. The RH Complex  
13 includes the following: RH Bay, the Cask Unloading Room, the Hot Cell, the Transfer Cell, and  
14 the Facility Cask Loading Room. As RH TRU mixed waste is held in canisters within a canister  
15 rack the physical inspection of the drum or canister is not possible. Inspections of RH TRU  
16 mixed waste in these areas occurs remotely via closed-circuit camera a minimum of once  
17 weekly when stored waste is present. Because RH TRU mixed waste is held in the ~~Parking  
18 Area Holding Area~~ or stored in the Parking Area Unit in sealed casks, there are no additional  
19 requirements for engineered secondary containment systems. ~~There are no additional  
20 requirements for engineered secondary containment systems.~~ However, the floors in the RH  
21 Complex (including the RH Bay, Facility Cask Loading Room and Cask Unloading Room) are  
22 coated concrete and during normal operations (i.e., when waste is present), the floor of the RH  
23 Complex is inspected visually or by using close-circuit cameras on a weekly basis to verify that  
24 it is in good condition and free of obvious cracks and gaps.

25 Inspections of RH TRU mixed waste containers stored in the Hot Cell and Transfer Cell are  
26 conducted using remotely operated cameras. RH TRU mixed waste in the Hot Cell is stored in  
27 either drums or canisters. The containers in the Hot Cell are inspected to ensure that they are in  
28 acceptable condition. RH TRU mixed waste in the Transfer Cell is stored in the RH-TRU 72-B  
29 cask or shielded insert; therefore, inspections in this area focus on the integrity of the cask or  
30 shielded insert. RH TRU mixed waste in the Facility Cask Loading Room is stored in the facility  
31 cask; therefore, inspections in this area focus on the integrity of the facility cask.

32 Inspections will be conducted in the Parking Area Unit at a frequency not less than once weekly  
33 ~~when waste is present~~. These inspections are applicable to loaded, ~~and stored~~ Contact-  
34 Handled ~~and Remote-Handled~~ Packages. The perimeter fence located at the lateral limit of the  
35 Parking Area Unit, coupled with personnel access restrictions into the WHB Unit, will provide  
36 the needed security. The perimeter fence and the southern border of the WHB shall mark the  
37 lateral limit of the Parking Area Unit. Radiologically controlled areas can be established  
38 temporarily with barricades. More permanent structures can be installed. The western boundary  
39 can be established with temporary barricades since this area is within the perimeter fence.  
40 Access to radiologically controlled areas will only be permitted to personnel who have  
41 completed General Employee Radiological Training (**GERT**), a program defined by the  
42 Permittees, or escorted by personnel who have completed GERT. This program ensures that  
43 personnel have adequate knowledge to understand radiological posting they may encounter at  
44 the WIPP site. The fence of the Radiologically Controlled Area, south from the WHB airlocks,

1 was moved to provide more maneuvering space for the trucks delivering waste. Since TRU  
2 mixed waste to be stored in the Parking Area Unit will be in sealed Contact-Handled or Remote-  
3 Handled Packages, there will be no additional requirements for engineered secondary  
4 containment systems. Inspections of the Contact-Handled and Remote-Handled Packages  
5 stored in the Parking Area Unit shall be conducted at a frequency no less than once weekly and  
6 will focus on the inventory and integrity of the shipping containers and the spacing between  
7 trailers carrying the Contact-Handled or Remote-Handled Packages. This spacing will be  
8 maintained at a minimum of four feet.

9 Container inspections will be included as part of the surface TRU mixed waste handling areas  
10 (i.e. Parking Area Unit and WHB Unit) inspections described in Tables D-1 and D-1a. These  
11 inspections will also include the Derived Waste Storage Areas of the WHB Unit. The Derived  
12 Waste Storage Areas will consist of containers of 55 or 85-gallon drums or SWBs for CH TRU  
13 mixed waste and 55-gallon drums for RH TRU mixed waste. ~~The total storage volume of this~~  
14 ~~area is up to 66.3 cubic feet (1.88 cubic meters).~~ A Satellite accumulation area (SAA) may be  
15 required in an area adjacent to the TRUDOCKs for CH TRU mixed waste. A SAA may also be  
16 required in the RH Bay and Hot Cell for RH TRU mixed waste. ~~These~~ This SAAs will be set up  
17 on an as needed basis at or near the point of generation and the derived waste will be  
18 discarded into the active derived waste container. All SAAs will be inspected in accordance with  
19 20.4.1.300 NMAC (incorporating 40 CFR §262.34).

#### 20 D-1b(2) Miscellaneous Unit Inspection

21 20.4.1.500 NMAC (incorporating 40 CFR §264.602), requires that inspections required in  
22 20.4.1.500 NMAC (incorporating 40 CFR §264.15 and §264.33), as well as any additional  
23 requirements needed to protect human health and the environment, be met. The requirements  
24 of 20.4.1.500 NMAC (incorporating 40 CFR §264.15 and §264.33) are discussed in Section D-1  
25 of this Permit Attachment, along with how the WIPP facility complies with those requirements for  
26 standard types of inspections. Inspection frequencies for geomechanical monitoring equipment  
27 are provided in Table D-1. The monitoring schedule for geomechanical instrumentation is given  
28 in Table D-2.

#### 29 References

30 DOE, ~~1997~~ 1999. "WIPP Safety Analysis Report," DOE/WIPP-95-2065. Rev.-2 4, U.S.  
31 Department of Energy. Washington, D.C., ~~March 1997~~.

32 DOE, 2000. "WIPP Remote-Handled Waste Preliminary Safety Analysis" (RH PSAR), U.S.  
33 Department of Energy. Washington, D.C.

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## FIGURES

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TYPICAL EQUIPMENT WEEKLY CHECK LIST		
<b>% OK</b> <b>X</b> Adjustment Made <b>O</b> Repairs Required AR Written [ ] Yes [ ] No      AR # _____ (check or complete appropriate information)		
ITEM INSPECTED	Condition	Comments/Corrective Action
<b>Mechanical Checks:</b> (examples)		
Oil level		
Radiator fluid level		
Automatic transmission fluid level		
Operate all valves/check gauges		
Emergency brake		
Fuel level (> ¾ full)		
Oil pressure (at warm idle)		
Tire Pressure		
Sirens, horn, & back-up alarm		
<b>Deterioration Checks:</b> (examples)		
Fan belts		
Battery (terminals, cables)		
Run generator 5 min.		
Hose, nozzles & valves		
<b>Leaks/Spills Checks:</b> (examples)		
Leaks around pump		
Foam tank level		
<b>Required Equipment:</b> (examples)		
Inspect SCBAs (> 4050 psi)		
Hand tools & equipment		
Trauma Kit		
<b>Inspected by:</b> _____		
Print Name	Signature	Time/Date
<b>Inspected by:</b> _____		
Print Name	Signature	Time/Date
<b>Reviewed by:</b> _____		
Print Name	Signature	Time/Date
<b>Comments:</b> _____		
_____		
_____		

39

**NOTE: All items that are mandatory for every inspection form are shown in bold.**

Figure D-1  
 Typical Inspection Checklist

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HOUR METER READING \_\_\_\_\_ EQUIPMENT NO. \_\_\_\_\_

**DEFICIENCIES NOTED:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PRE OPS COMPLETED PER   {Procedure Number}   SAT \_\_\_\_\_ **PROBLEMS NOTED** \_\_\_\_\_

**CORRECTIVE ACTIONS TAKEN:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**OPERATOR  
SIGNATURE**

**DATE**

**TIME**

**SUPERVISOR  
SIGNATURE/DATE**

\_\_\_\_\_

**NOTE: All items that are mandatory for every inspection form are shown in bold.**

Figure D-2  
Typical Logbook Entry  
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1

## **TABLES**

1

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**TABLE D-1  
 INSPECTION SCHEDULE/PROCEDURES**

System/Equipment Name	Responsible Organization	Inspection <sup>a</sup> Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number and Inspection Criteria
Air Intake Shaft Hoist	Underground Operations	Preoperational <sup>c</sup> See Lists 1b and c	WP 04-HO1004 Inspecting for Deterioration <sup>b</sup> , Safety Equipment, Communication Systems, and Mechanical Operability <sup>m</sup> 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	PM000030 Inspecting for Mechanical Operability <sup>m</sup> , Deterioration <sup>b</sup> , and Required Equipment <sup>n</sup>
Adjustable Center of Gravity Lift Fixture	Waste Handling	Preoperational See List 8	WP 05-WH1410 Inspecting for Mechanical Operability <sup>m</sup> and Deterioration <sup>b</sup>
Backup Power Supply Diesel Generators	Facility Operations	Monthly See List 3	WP 04-ED1301 Inspecting for Mechanical Operability <sup>m</sup> 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 <sup>b</sup>
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 <sup>m</sup> , Deterioration <sup>b</sup> , and area around transporter clear of obstacles
Facility Transfer Vehicle	Waste Handling	Preoperational See List 8	WP 05-WH1406 Inspecting for Mechanical Operability <sup>m</sup> , Deterioration <sup>b</sup> , path clear of obstacles, and guards in the proper place
Exhaust Shaft	Underground Operations	Quarterly See List 1a	PM041099 Inspecting for Deterioration <sup>b</sup> and Leaks/Spills
Eye Wash and Shower Equipment	Equipment Custodian	Weekly See List 5	WP 12-IS1832 Inspecting for Deterioration <sup>b</sup>
		Semi-annually See List 2a	WP 12-IS1832 Inspecting for Deterioration <sup>b</sup> and Fluid Levels—Replace as Required
Fire Detection and Alarm System	Emergency Services	Semiannually See List 11	PM000027 Inspecting for Deterioration <sup>b</sup> , Operability of indicator lights and, underground fuel station dry chemical suppression system. Inspection is per NFPA 72

**TABLE D-1  
 INSPECTION SCHEDULE/PROCEDURES**

	System/Equipment Name	Responsible Organization	Inspection <sup>a</sup> Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number and Inspection Criteria
1	Fire Extinguishers <sup>i</sup>	Emergency Services	Monthly See List 11	PM000036 Inspecting for Deterioration <sup>b</sup> , Leaks/Spills, Expiration, seals, fullness, and pressure
2	Fire Hoses	Emergency Services	Annually (minimum) See List 11	PM000031 Inspecting for Deterioration <sup>b</sup> and Leaks/Spills
3	Fire Hydrants	Emergency Services	Semi-annual/ annually See List 11	PM000034 Inspecting for Deterioration <sup>b</sup> and Leaks/Spills
4	Fire Pumps	Emergency Services	Weekly/annually See List 11	PM000026 Inspecting for Deterioration <sup>b</sup> , Leaks/Spills, valves, and panel lights
5	Fire Sprinkler Systems	Emergency Services	Monthly/ quarterly See List 11	PM000025 Inspecting for Deterioration <sup>b</sup> , Leaks/Spills, static pressures, and removable strainers
6	Fire Trucks (Seagrave Fire Apparatus, Emergency One Apparatus, Brush Truck, and Underground Rescue Truck)	Emergency Services	Weekly See List 11	PM000033 Inspecting for Mechanical Operability <sup>m</sup> , Deterioration <sup>b</sup> , Leaks/Spills, and Required Equipment <sup>n</sup>
7				
8				
9				
10				
11	Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment)	Waste Handling	Preoperational See List 8	WP 05-WH1401, WP 05-WH1402, WP 05-WH1403, and WP 05-WH1412 Inspecting for Mechanical Operability <sup>m</sup> , Deterioration <sup>b</sup> , and On board fire suppression system
12				
13				
14				
15	Hazardous Material Response Equipment	Emergency Services	Weekly See List 11	PM000033 Inspecting for Mechanical Operability <sup>m</sup> , Deterioration <sup>b</sup> , and Required Equipment <sup>n</sup>
16				
17	Miners First Aid Station	Emergency Services	Quarterly See List 11	PM000035 Inspecting for Required Equipment <sup>n</sup>
18	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
19				
20				
21	MSHA Air Quality Monitor	Maintenance/ Underground Operations	Daily <sup>i</sup> See Lists 1 and 10	WP 12-IH1828 Inspecting for Air Quality Monitoring Equipment Functional Check
22	Perimeter Fence, Gates, Signs	Security	Daily See List 6	PF0-011 Inspecting for Deterioration <sup>b</sup> and Posted Warnings
23				

**TABLE D-1  
 INSPECTION SCHEDULE/PROCEDURES**

System/Equipment Name	Responsible Organization	Inspection <sup>a</sup> Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number and Inspection Criteria
1 2 3 4 5 6 7 Personal Protective Equipment (not otherwise contained in emergency vehicles or issued to individuals): —Self-Contained Breathing Apparatus	Emergency Services	Weekly See List 11	PM000029 Inspecting for Deterioration <sup>b</sup> and Pressure
8 9 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
10 Radio Equipment	Facility Operations	Daily <sup>j</sup> See List 3	Radios are operated daily and are repaired upon failure
11 12 Rescue Truck (Surface and Underground)	Emergency Services	Weekly See List 11	PM000030 and PM000033 Inspecting for Mechanical Operability <sup>m</sup> , Deterioration <sup>b</sup> , Leaks/Spills, and Required Equipment <sup>n</sup>
13 Salt Handling Shaft Hoist	Underground Operations	Preoperational See List 1b and c	WP 04-HO1002 Inspecting for Deterioration <sup>b</sup> , Safety Equipment, Communication Systems, and Mechanical Operability <sup>m</sup> in accordance with MSHA requirements
14 Self-Rescuers	Underground Operations	Quarterly See List 1c	WP 04-AU1026 Inspecting for Deterioration <sup>b</sup> and Functionality in accordance with MSHA requirements
15 16 Surface TRU Mixed Waste Handling Area <sup>k</sup>	Waste Handling	Preoperational or Weekly <sup>e</sup> See List 8	WP 05-WH1101 Inspecting for Deterioration <sup>b</sup> , Leaks/Spills, Required Aisle Space, Posted Warnings, Communication Systems, Container Condition, and Floor coating integrity
17 18 19 TRU Mixed Waste Decontamination Equipment	Waste Handling	Annually See List 8	WP 05-WH1101 Inspecting for Required Equipment <sup>n</sup>
20 21 Underground Openings— Roof Bolts and Travelways	Underground Operations	Weekly See List 1a	WP 04-AU1007 Inspecting for Deterioration <sup>b</sup>
22 23 24 25 Underground— Geomechanical Instrumentation System (GIS)	Geotechnical Engineering	Monthly See List 9	WP 07-EU1301 Inspecting for Deterioration <sup>b</sup>
26 27 Underground TRU Mixed Waste Disposal Area	Waste Handling	Preoperational See List 8	WP 05-WH1810 Inspecting for Deterioration <sup>b</sup> , Leaks/Spills, mine pager phones, equipment, unobstructed access, signs, debris, and ventilation

**TABLE D-1  
 INSPECTION SCHEDULE/PROCEDURES**

	System/Equipment Name	Responsible Organization	Inspection <sup>a</sup> Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number and Inspection Criteria
1	Uninterruptible Power Supply (Central UPS)	Facility Operations	Daily See List 3	WP 04-ED1542 Inspecting for Mechanical Operability <sup>m</sup> and Deterioration <sup>b</sup> with no malfunction alarms. Results of this inspection are logged in accordance with WP 04-AD3008.
2	TDOP Upender	Waste Handling	Preoperational See List 8	WP 05-WH1010 Inspecting for Mechanical Operability <sup>m</sup> and Deterioration <sup>b</sup>
3	Vehicle Siren	Emergency Services	Weekly See List 11	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks
4	Ventilation Exhaust	Maintenance Operations	Quarterly See List 10	IC041098 Check for Deterioration <sup>b</sup> and Calibration of Mine Ventilation Rate Monitoring Equipment
5	Waste Handling Cranes	Waste Handling	Preoperational See List 8	WP 05-WH1407 Inspecting for Mechanical Operability <sup>m</sup> , Deterioration <sup>b</sup> , and Leaks/Spills
6	Waste Hoist	Underground Operations	Preoperational See List 1b and c	WP 04-HO1003 Inspecting for Deterioration <sup>b</sup> , Safety Equipment, Communication Systems, and Mechanical Operability <sup>m</sup> , Leaks/Spills, in accordance with MSHA requirements
7	Water Tank Level	Facility Operations	Daily See List 3	SDD-WD00 Inspecting for Deterioration <sup>b</sup> , and water levels. Results of this inspection are logged in accordance with WP 04-AD3008.
8	Push-Pull Attachment	Waste Handling	Preoperational See List 8	WP 05-WH1401 Inspecting for Damage and Deterioration <sup>b</sup>
9	Trailer Jockey	Waste Handling	Preoperational See List 8	WP 05-WH1405 Inspecting for Mechanical Operability <sup>m</sup> and Deterioration <sup>b</sup>
10	Facility Grapple	Waste Handling	Preoperational See List 8	To Be Determined (RH equipment)
11	15-Ton Bridge Crane	Waste Handling	Preoperational See List 8	To Be Determined (RH equipment)
12	Hook and Rope on 50/25-Ton Bridge Crane	Waste Handling	Preoperational See List 8	To Be Determined (RH equipment)
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1 **TABLE D-1 (CONTINUED)**  
2 **INSPECTION SCHEDULE/PROCEDURES LISTS**

3	<u>List 1: Underground Operations</u>	<u>List 5: General</u>
4	a. Mining Technician *	Equipment Custodian*
5	Senior Mining Technician *	
6	Continuous Mining Specialist *	<u>List 6: Security</u>
7	Senior Mining Specialist *	
8	Mine OPS Supervisor *	Security Protective *
9	b. Waste Hoist Operator	Security Protective Supervisor *
10	Waste Hoist Shaft Tender	
11	c. U/G Facility Operations* - Self Rescuers	<u>List 8: Waste Handling</u>
12	Shaft Technician *	
13	d. Operations Engineer	Manager, Waste Operations
14	Supervisor U/G Services*	TRU-Waste Handler
15	Senior Operations Engineer*	
16	<u>List 2: Industrial Safety</u>	<u>List 9: Geotechnical Engineering</u>
17	a. Safety Technician *	Engineer Technician *
18	Senior Safety Technician *	Associate Engineer *
19	Safety Specialist *	Engineer *
20	Safety Engineer *	Senior Engineer *
21	Industrial Hygienist *	Principal Engineer*
22	b. Fire Protection Engineering *	<u>List 10: Maintenance Operations</u>
23	<u>List 3: Facility Operations</u>	Maintenance Technician *
24	Facilities Technician *	Maintenance Specialist *
25	Senior Facilities Technician *	Senior Maintenance Specialist *
26	Facility Operations Specialist *	Contractor *
27	Central Monitoring Room Operator *	<u>List 11: Emergency Services</u>
28	Central Monitoring Room Specialist *	
29	Operations Engineer	Qualified Emergency Services Personnel
30	Senior Operations Engineer *	Fire Protection Technician
31	Facility Shift Manager	
32	Operations Technical Coordinator *	
33	<u>List 4: Facility Engineering</u>	
34	Senior Engineer *	

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**TABLE D-1 (CONTINUED)**  
**INSPECTION SCHEDULE/PROCEDURES NOTES**

- <sup>a</sup> Inspection may be accomplished as part of or in addition to regularly scheduled preventive maintenance inspections for each item or system. Certain structural systems of the WHB, Waist Hoist and Station A are also subject to inspection following severe natural events including earthquakes, tornados, and severe storms. Structural systems include columns, beams, girders, anchor bolts and concrete walls.
- <sup>b</sup> Deterioration includes: **obvious** cracks, erosion, salt build-up, damage, corrosion, loose or missing parts, malfunctions, and structural deterioration.
- <sup>c</sup> "Preoperational" signifies that inspections are required prior to the first use during a calendar day. For calendar days in which the equipment is not in use, no inspections are required. For an area this includes: area is clean and free of obstructions (for emergency equipment); adequate aisle space; emergency and communications equipment is readily available, properly located and sign-posted, visible, and operational. For equipment, this includes: checking fluid levels, pressures, valve and switch positions, battery charge levels, pressures, general cleanliness, and that all functional components and emergency equipment is present and operational.
- <sup>e</sup> These weekly inspections apply to container storage areas when containers of waste are present for a week or more.
- <sup>g</sup> In addition, the water tank levels are maintained by the CMR and level readouts are available at any time.
- <sup>h</sup> This organization is responsible for obtaining licenses for radios and frequency assignments. They do periodic checks of frequencies and handle repairs which are performed by a vendor.
- <sup>i</sup> Radios are not routinely "inspected." They are operated daily and many are used in day-to-day operations. They are used until they fail, at which time they are replaced and repaired. Radios are used routinely by Emergency Services, Security, Environmental Monitoring, and Facility Operations.
- <sup>j</sup> Fire extinguisher inspection is paperless. Information is recorded into a database using barcodes. The database is then printed out.
- <sup>k</sup> Surface **CH** TRU mixed waste handling areas include the Parking Area Unit, the WHB unit, and unloading areas.
- <sup>l</sup> No log forms are used for daily readings. However, readings that are out of tolerance are reported to the CMR and logged by CMR operator. Inspection includes daily functional checks of portable equipment.
- <sup>m</sup> Mechanical Operability means that the equipment has been checked and is operating in accordance with site safety requirements (e.g. proper fluid levels and tire pressure; functioning lights, alarms, sirens, and power/battery units; and belts, cables, nuts/bolts, and gears in good condition), as appropriate.
- <sup>n</sup> Required Equipment means that the equipment identified in Table F-6 is available and usable (i.e. not expired/depleted and works as designed).
- \* Positions are not considered RCRA positions (i.e., personnel do not manage TRU mixed waste).

**TABLE D-1A  
 RH TRU MIXED WASTE INSPECTION SCHEDULE/PROCEDURES**

System/ Equipment Name	Responsible Organization	Inspection <sup>a</sup> Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number (Latest Revision)	Inspection Criteria		
				Deterioration <sup>b</sup>	Leaks/ Spills	Other
Cask Transfer Car(s)	Waste Operations	Preoperational <sup>c,d,e</sup> See list 1	WP05-WH1701 PM041186 (Semi-Annual)	Yes	NA	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication
RH Bay Overhead Bridge Crane	Waste Operations	Preoperational <sup>c,d,e</sup> See list 1	WP05-WH1741 PM041232 (Quarterly & Annual) PM041117 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication
Facility Cask	Waste Operations	Preoperational <sup>c,d,e,f</sup> See list 1	WP05-WH1753 PM041201 (Annual) PM041203 (Annual)	Yes	NA	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication. Electrical PM.
RH Bay Cask Lifting Yoke	Waste Operations	Preoperational <sup>c,d,e</sup> See list 1	WP05-WH1741 PM041233 (Annual)	Yes	NA	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication
Facility Cask Transfer Car	Waste Operations	Preoperational <sup>c,d,e,f</sup> See list 1	WP05-WH1704 PM041186 (Quarterly) PM041195 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication Electrical Inspection
Facility Cask Rotating Device	Waste Operations	Preoperational <sup>c,d,e,f</sup> See list 1	WP05-WH1713 PM041175 (Annual) PM041176 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication Electrical Inspection
Facility Grapple	Waste Operations	Preoperational <sup>c,d,e,f</sup> See list 1	WP05-WH1721 PM041172 (Quarterly) PM041177 (Annual)	Yes	NA	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear. Non-Destructive Examination
6.25-Ton Hoist	Waste Operations	Preoperational <sup>c,d,e,f</sup> See list 1	WP05-WH1721 PM041173 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication
Transfer Cell Shuttle Car	Waste Operations	Preoperational <sup>c,d,e,f</sup> See list 1	WP05-WH1705 PM041184 (Semi-Annual) PM041222 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication. Electrical Inspection.
Cask Unloading Room	Waste Operations	Preoperational <sup>c,d,e,f,h</sup> See list 1	WP05-WH1744	Yes	NA	Floor coating integrity
Hot Cell	Waste Operations	Preoperational <sup>c,d,e,f,g,h</sup> See list 1	WP05-WH1744	Yes	NA	Floor coating integrity

**TABLE D-1A  
 RH TRU MIXED WASTE INSPECTION SCHEDULE/PROCEDURES**

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System/ Equipment Name	Responsible Organization	Inspection <sup>a</sup> Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number (Latest Revision)	Inspection Criteria		
				Deterioration <sup>b</sup>	Leaks/ Spills	Other
Hot Cell Overhead Powered Manipulator	Waste Operations	Preoperational <sup>c,d,e</sup> See list 1	WP05-WH1743 PM041215 (Annual) PM041216 (Annual) IC411037 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication. Electrical Inspection. Load Cell Calibration
Hot Cell Bridge Crane	Waste Operations	Preoperational <sup>c,d,e</sup> See list 1	WP05-WH1742 PM041217 (Annual) PM041209 (Annual) IC411038 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication. Electrical Inspection. Load Cell Calibration.
Transfer Cell	Waste Operations	Preoperational <sup>c,d,e,f,h</sup> See list 1	WP05-WH1744	Yes	NA	Floor coating integrity
Facility Cask Loading Room	Waste Operations	Preoperational <sup>c,d,e,f,h</sup> See list 1	WP05-WH1744	Yes	NA	Floor coating integrity
Closed Circuit Television Camera	Waste Operations	Preoperational <sup>c</sup> See list 1	WP05-WH1757	NA	NA	Operability
Radiation Monitoring Equipment	Radiation Safety	Preoperational <sup>c,d,e</sup> See list 2	WP12-HP1302 PM411015 IC411039 & IC411040 IC411036 (Annual)	Yes	NA	Operability Checks, Functional Checks, Instrument calibrations, Flow Calibration, Efficiency Checks.
Cask Unloading Room Crane	Waste Operations	Preoperational <sup>c,d,e</sup> See list 1	WP05-WH1719 PM041190 (Quarterly & Annual) PM041191 (Annual) PM041192 (Annual) IC411035 (Annual)	Yes	Yes	Pre-operational Checks and Operating Instructions. Mechanical Inspection for Wear and Lubrication. Electrical Inspection. Load Cell Calibration.
Horizontal Emplacement and Retrieval Equipment	Waste Operations	Preoperational <sup>c,d,e,f</sup> See list 1	WP05-WH1700 PM052010 (Monthly) PM052011 (Annual) PM052013 PM052012 PM052014 (Annual)	Yes	Yes	Assembly and Operating Instructions. Electrical Inspection. Position Transducer Calibration. Tilt Sensor Calibration.



**TABLE D-1A  
 RH TRU MIXED WASTE INSPECTION SCHEDULE/PROCEDURES**

System/ Equipment Name	Responsible Organization	Inspection <sup>a</sup> Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number (Latest Revision)	Inspection Criteria		
				Deterioration <sup>b</sup>	Leaks/ Spills	Other
41-Ton Forklift	Waste Operations	Preoperational <sup>c,d,e</sup> See list 1	WP05-WH1602 PM074061 PM052003 (Hours of Use) PM074027 (Quarterly) PM074029 &PM074051 (Annual)	Yes	Yes	Pre-Operational Checks. PM performed every 100 hours of operation, every 500 hours of operation or every 5 Years. Quarterly Engine Emission Test. Annual Electrical Inspection. Annual NDE.
RH Bay	Waste Operations	Preoperational <sup>c,d,e,h</sup> See list 1	WP05-WH1744	Yes	NA	Floor coating integrity
Surface RH TRU Mixed Waste Handling Area	Waste Operations	Preoperational See List 1	WP- 05 WH1744	Yes	Yes	Posted Warning, Communications

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**TABLE D-1A (CONTINUED)**  
**RH TRU MIXED WASTE INSPECTION SCHEDULE/PROCEDURES LISTS**

List 1: Waste Operations

Manager, RH Waste Handling  
Qualified TRU-Waste Handler, Level II or III

List 2: Radiation Safety

Radiological Control Technician

1 **TABLE D-1A (CONTINUED)**  
2 **RH TRU MIXED WASTE INSPECTION SCHEDULE/PROCEDURES NOTES**

- 3 <sup>a</sup> Inspection may be accomplished as part of or in addition to regularly scheduled preventive maintenance inspections for each  
4 item or system. Certain structural systems of the WHB are also subject to inspection following severe natural events including  
5 earthquakes, tornados, and severe storms. Structural systems include columns, beams, girders, anchor bolts, and concrete  
6 walls.
- 7 <sup>b</sup> Deterioration includes: obvious cracks, erosion, salt build-up, damage, corrosion, loose or missing parts, malfunctions, and  
8 structural deterioration.
- 9 <sup>c</sup> "Preoperational" signifies that inspections are required prior to the waste handling evolution. (The evolution is considered to be  
10 from the receipt of a cask into the RH Bay through canister emplacement in the underground.) For an area, preoperational  
11 inspection includes: area is clean and free of obstructions (for emergency equipment); adequate aisle space; emergency and  
12 communications equipment is readily available, properly located and sign-posted, visible, and operational. For equipment, this  
13 includes: checking fluid levels, pressures, valve and switch positions, battery charge levels, pressures, general cleanliness, and  
14 that functional components and emergency equipment are present and operational. When the equipment is not in use, no  
15 inspections are required.
- 16 <sup>d</sup> When equipment needs to be inspected while handling waste (i.e., during waste unloading or transfer operations), general  
17 cleanliness and functional components will be inspected to detect any problem that may harm human health or the environment.  
18 The inspection will verify that emergency equipment is present.
- 19 <sup>e</sup> Inspection of RH TRU mixed waste equipment and areas in the RH Complex applies only after RH TRU mixed waste receipt  
20 begins.
- 21 <sup>f</sup> The inspection/maintenance activities associated with these pieces of equipment are performed when the RH Complex is empty  
22 of RH TRU mixed waste. If contamination is present, a radiation work permit may be needed.
- 23 <sup>g</sup> For the Hot Cell and Transfer Cell, if RH TRU mixed waste is present, camera inspections will be performed in lieu of physical  
24 inspection.
- 25 <sup>h</sup> The integrity of the floor coating will be inspected weekly if RH TRU mixed waste is present.

**TABLE D-2  
 MONITORING SCHEDULE**

System/Equipment Name	Responsible Organization	Monitoring Frequency	Purpose
Geomechanical <sup>b</sup>	Geotechnical Engineering	Monthly	To evaluate the geotechnical performance of the underground facility and to detect ground conditions that could affect operational safety
Central Monitoring System	Facility Operations	System Dependent	Monitor and provide status for the following facility parameters:  Electrical Power Status <sup>d</sup>  Fire Alarm System <sup>e</sup>  Ventilation System Status <sup>f</sup>  Meteorological Data System <sup>g</sup>  Facility Systems (compressors <sup>g</sup> , pumps <sup>h</sup> , water tank levels <sup>i</sup> , waste hoists <sup>j</sup> )

- 6     <sup>b</sup> Equipment is listed as Underground-Geomechanical Instrumentation System (GIS) in Table D-1.
- 7     <sup>d</sup> Equipment listed as Backup Power Supply Diesel Generator in Table D-1.
- 8     <sup>e</sup> Equipment listed as Fire Detection and Alarm System in Table D-1.
- 9     <sup>f</sup> Equipment listed as Ventilation Exhaust in Table D-1.
- 10    <sup>g</sup> Not RCRA equipment.
- 11    <sup>h</sup> Equipment listed as Fire Pumps in Table D-1.
- 12    <sup>i</sup> Equipment listed as Water Tank Level in Table D-1.
- 13    <sup>j</sup> Equipment listed as Waste Hoist in Table D-1.