

WP 04-AU1028

Revision 0

Disposal Room Access Requirements

Technical Procedure

EFFECTIVE DATE: 06/24/09

Robert Kirby
APPROVED FOR USE

TABLE OF CONTENTS

INTRODUCTION..... 3

REFERENCES..... 3

PRECAUTIONS AND LIMITATIONS..... 4

PREREQUISITE ACTIONS 4

PERFORMANCE 5

1.0 PREOPERATIONAL CHECKS..... 5

Attachment 1 – Underground Liquid-Fueled Equipment..... 7

INTRODUCTION ¹

This procedure provides guidance for inspection and use of liquid-fueled vehicles/equipment (non-waste handling) used underground for ground control and geotechnical assessment activities at the Waste Isolation Pilot Plant (WIPP).

Verification that there are no excessive leaks, fluid levels are properly maintained, and lights and horns are IN-SERVICE and ensures that the ground control equipment selected for use are safe to approach the WASTE FACE.

Performance of this procedure generates the following record(s), as applicable:

- SAC 5.1.1.2, Surveillance Data Sheet

REFERENCES

BASELINE DOCUMENTS

- Title 30, *Code of Federal Regulations* (CFR) Part 57, " Safety and Health Standards – Underground Metal and Nonmetal Mines"
- 30 CFR, Part 58, "Health Standards for Metal and Nonmetal Mines"
- 40 CFR § 264.15, "General Inspection Requirements"
- DOE Standard 1090-2007, *Hoisting and Rigging*
- DOE/WIPP-07-3372, *Waste Isolation Pilot Plant Documented Safety Analysis*
- DOE/WIPP-07-3373, *Waste Isolation Pilot Plant Technical Safety Requirements*
- Hazardous Waste Facility Permit, Waste Isolation Pilot Plant, Permit No. NM4890139088-TSDF, Issued by the new Mexico Environment Department
- WP 04-AD3011, Equipment Lockout/Tagout

REFERENCED DOCUMENTS

- WP 04-AD3001, Facility Mode Compliance
- 00CD-0001, WIPP Mine Ventilation Plan
- EA04AD3001-SR39, Surveillance Data Sheet

PRECAUTIONS AND LIMITATIONS

- The Technical Safety Requirements (TSRs) contain Limiting Conditions for Operation (LCOs) and Specific Administrative Controls (SACs) which provide specific preventative or mitigative limits and required actions for identified accident scenarios. Failure to comply with LCOs or SACs may constitute a violation and must be immediately reported to the Facility Shift Manager (FSM). The step affected by the LCO/SAC is followed by the LCO/SAC number in bold brackets (e.g. [LCO 3.X.X]). Applicable LCO/SAC Surveillance Data Sheets SHALL be completed as required by WP 04-AD3001.
- Liquid-fueled vehicles/equipment and non-WASTE HANDLING EQUIPMENT may be ≤ 25 feet from the WASTE FACE to conduct ground control, install chain link and brattice, and install panel closure/substantial isolation barrier.
- Preoperational Checks required by this procedure must be performed prior to operating underground non-WASTE HANDLING liquid-fueled vehicles or equipment on each shift.
- Attachment 1 lists only the diesel underground liquid-fueled vehicles/equipment approved for use by this procedure.
- Ventilation quantities specified by 00CD-0001, Shall be maintained while selected equipment is in operation near the WASTE FACE.
- Equipment horn, if available, must be sounded:
 - Before starting or moving equipment
 - Approaching an intersection
- If equipment becomes inoperable, Underground Mining Manager (UMM) must be notified.
- No non-waste handling vehicles are allowed in the active DISPOSAL ROOM during waste handling operations.

PREREQUISITE ACTIONS

- 1.0 Verify U/G ventilation is aligned to allow liquid-fueled equipment operation.
- 2.0 Preoperational checks must be performed, as applicable, to the equipment being selected for use.

PERFORMANCE

NOTE

Equipment found deficient during the following inspection SHALL NOT be used within 25 feet of any WASTE FACE.

NOTE

Underground non-WASTE HANDLING liquid-fueled vehicles/equipment may be used without performing this procedure provided a minimum distance of 25 feet from the WASTE FACE is maintained..

1.0 PREOPERATIONAL CHECKS

1.1 Attributes of the underground non-WASTE HANDLING liquid-fueled vehicles/equipment selected for use SHALL be verified PRIOR TO USE as follows: **[SAC 5.1.1.2]**

- VERIFY that there are no excessive leaks (i.e., battery compartment, hydraulic lines, fuel lines) as indicated by visible flow of fluid under pressure, puddles beneath the equipment, or abnormal loss of hydraulic fluid.
- VERIFY fluid levels are adequate for proper operation (i.e., engine oil, transmission fluid, hydraulic fluid, and brake fluid).
- Lights and horn are IN-SERVICE.

1.2 These checks are required in the WASTE HANDLING MODE, when in the VEHICLE EXCLUSION ZONE **OR** DISPOSAL ROOM **AND** in DISPOSAL MODE when in the DISPOSAL ROOM.

- Visually verify that the automatic/manual fire suppression system has not discharged, if applicable.
- Air cleaner trap indicator is in acceptable range, if applicable.
- Tires are in good conditions, i.e., **NOT** excessively worn or cracked.
- Seat belts are in good condition, if applicable.

1.3 Remove wheel chocks.

1.4 Ensure battery disconnect switch is in the **ON** position, if installed.

1.5 Sit in seat and fasten seat belt, if applicable.

1.6 Adjust seat to provide easy access to all controls, if adjustable.

- 1.7 Verify seat locking mechanism locks, if present.
- 1.8 Ensure sufficient fuel is available for operation.
- 1.9 Verify the following:
 - All gauge indications show within their normal ranges.
 - All fault/warning lights are **OFF**.
 - Horn sounds. **[SAC 5.1.1.2]**
 - Front lights illuminate. **[SAC 5.1.1.2]**
 - Back lights illuminate, if applicable. **[SAC 5.1.1.2]**
- 1.10 Complete the Surveillance Data Sheet, EA04AD3001-SR39, for SAC 5.1.1.2 as found in WP 04-AD3001.

NOTE

Prior to approaching a WASTE FACE or entering a DISPOSAL ROOM, verbal approval shall be obtained from the FSM.

- 1.11 Forward the completed Surveillance Data Sheet(s) and all associated documentation to the FSM for review and approval.
- 1.12 Notify UMM of the operational status of the equipment and of any deficiencies discovered during the preoperational checks and the status of each, e.g., deficiencies corrected and action requests that are generated.
- 1.13 Notify Underground Maintenance for service for any unsatisfactory surveillance checks, as appropriate.

Attachment 1 – Underground Liquid-Fueled Equipment

UNDERGROUND DIESEL EQUIPMENT							
WIPP Equip #	Manufacturer	Description	Model	Eng. Model	HP	MSHA CFM	MSHA Cert #
74-G-089	IR	AIR COMPRESSOR	250 CFM	F5L912W	68	6,500	24/D115-0
74-G-147	IR	PORTABLE AIR COMPRESSOR	P260WIR/2005/A	41R18T	86	7,500	TIER 2
74-H-014	PRIME MOVER	SKID STEER	L-1300	QVD	40	5,000	NONE
74-H-026	TOYOTA	FORKLIFT(4T)	02-5FD35	11Z	81	10,000	NONE
74-H-027	TOYOTA	FORKLIFT(4T)	02-5FD35	11Z	81	10,000	NONE
74-H-029	MELROE	SKID-STEER	753-C	V2203E	40	5,000	NONE
74-H-035	TOYOTA	FORKLIFT (4-T)	5FD35	13Z	89	7,500	TIER II
74-H-036	TOYOTA	4-TON FORKLIFT	5FD35	13Z	89	7,500	TIER II
74-H-039	GENIE	BOOM MAN LIFT	Z34-34/22IC	D-1105	23.5	2,500	TIER II
74-PE-001	YANMAR	PORT. GEN	6121002	LA SERIES 40544	9	1,000	NONE
74-PE-003	YAMAHA	PORTABLE GENERATOR	EDL65005	ZB600-EGL	13.5	2,500	NONE
74-U-002-A	EIMCO	LHD	913	3304NA	110	10,700	24/D88-0
74-U-002-C	Sandvik EJC	LOADER LHD	145	N0635H32	190	12,000	7E-B080-0
74-U-008	GETMAN	SCISSOR LIFT	A-64	F6L912W	82	7,500	24/D102-0
74-U-020	KUBOTA	TRACTOR	L-245	DH1101-A	25	2,000	24/D108-0
74-U-021	KUBOTA	TRACTOR	L-245	DH1101-A	25	2,000	24/D108-0
74-U-023	KUBOTA	TRACTOR	L-245DT	DH1101-A	25	2,000	24/D108-0
74-U-024	KUBOTA	TRACTOR	L-245DT	DH1101-A	25	2,000	24/D108-0
74-U-039	EIMCO	LHD	913	F6L413FW	139	12,000	24/D92-0
74-U-040	BOBCAT	SKID STEER LOADER	17S160	V2003M-DI-T	56	3,500	TIER 2 EPA
74-U-105	EIMCO	LHD	EJC-120	3304 PCNA	100	10,700	24/D88-0
74-U-111	ATLAS COPCO	BOLTER	H-226D	F6L912W	82	7,500	24/D102-0
74-U-114	GETMAN	SCISSOR LIFT	A-64	F6L912W	82	7,500	24/D102-0
74-U-115	FLETCHER	SCALER	SV-4D	F6L912W	82	7,500	24/D102-0
74-U-117	EIMCO	LHD	EJC-130	3304PCT	165	33,000	24/D54-56
74-U-127	FLETCHER	SEAL CUTTER	5V-40	D-BF6MI0 13CP	255	12,000	7E-B007-0
74-U-128	FLETCHER	ROOF BOLTER	3024AD	9SB3.9	120	6,500	TIER II
74-U-132	KUBOTA	UTILITY TRACTOR	4240 HST	V2203	42	3,000	TIER II
74-U-133	KUBOTA	UTILITY TRACTOR	4240 HST	V2203	42	3,000	TIER II
74-U-603	SIMMONS	BOOM LIFT TRUCK	32/216	F2L1011	28	5,000	24/D141-0
74-U-606	GETMAN	SCISSOR LIFT	A-64	OM90LA	174	7,500	7E-B098-0
74-UE-060	GETMAN	CRANE TRUCK	A-64	F6L912W	82	7,500	24/D102-0
74-W-009	MILLER	WELDER	250	D622	16.5	2,000	TIER II

Attachment 1 – Underground Liquid-Fueled Equipment

UNDERGROUND DIESEL EQUIPMENT							
WIPP Equip #	Manufacturer	Description	Model	Eng. Model	HP	MSHA CFM	MSHA Cert #
74-W-011	MILLER BOBCAT	WELDER/ GENERATOR	250 DIESEL	D722	16.5	3,600	TIER II
74-U-131	FLETCHER	ROOF BOLTER	3124AD	QSM 4.5L	130	2,500	TIER III
75-H-031	SIMON	MANLIFT	32/21G	F2L1011	28	1,500	7E-B062-0