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**WP 05-WH1406**

Revision 11

# Conveyance Loading Car

Technical Procedure

EFFECTIVE DATE: 03/14/11

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APPROVED FOR USE

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**CHANGE HISTORY SUMMARY**

<b>REVISION NUMBER</b>	<b>DATE ISSUED</b>	<b>DESCRIPTION OF CHANGES</b>
11	03/14/11	<p>Deleted "and leather gloves" from PPE statements.</p> <p>Deleted first bullet page 5 under Precautions and Limitations for conveyance loading car must be against stop in loading room prior to opening and closing Door 156.</p> <p>Deleted PPE Note above Step 1.2 as already in Precautions and Limitations.</p> <p>Added "out of door operating envelope" to end of sentence for Steps 2.8 and 3.9.</p> <p>Deleted check boxes from Attachment 1.</p>

## INTRODUCTION <sup>1</sup>

This procedure provides the required instructions for inspecting and operating the Conveyance Loading Car, 41-H-018, at the Waste Isolation Pilot Plant (WIPP).

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

- Equipment Logbook

## REFERENCES

### BASELINE DOCUMENTS

- Title 40 *Code of Federal Regulations* (CFR)§264.15, "General Inspection Requirements"
- Hazardous Waste Facility Permit, Identification No. NM4890139088-TSDF
- Equipment No. 41-H-018, "Maintenance Manual for Conveyance Loading Car," West Mont Industries
- WP 04-AD3011, Equipment Lockout/Tagout
- WP 05-WH1101, Surface Transuranic Mixed Waste Handling Area Inspections
- PROD-149 and PROD-304, Conveyance Loading Car

### REFERENCED DOCUMENTS

- WP 04-IM1000, Issues Management Processing of WIPP Forms
- EA04IM1000-1-0, WIPP Form

## PRECAUTIONS AND LIMITATIONS

- When connecting or disconnecting the 480 volt power cable to conveyance loading car, operators are required to wear a long-sleeve 100% cotton shirt , safety shoes/boots, and safety glasses.
- Preoperational checks are required prior to first operation of conveyance loading car on any shift.
- In the event position sensor fails or is blocked, operator or spotter will continuously monitor conveyance loading car during operations.
- Only a qualified Waste Handling Technician/Engineer (WHT/WHE), or trainee operating under the direct supervision of a qualified WHT/WHE is

authorized to perform the waste handling activities specified in this procedure.

- All personnel and equipment must be clear of marked operating radius of Door #156 prior to opening or closing.
- Door #156 should not be operated while conveyance loading car platform is being raised or lowered to allow for proper communication between operators/spotters.
- All personnel and equipment should remain clear of the area between conveyance loading car and Door #156 while car is in motion.

### PREREQUISITE ACTIONS

- 1.0 If a required inspection goes delinquent, perform the following:
  - 1.1 Immediately notify Site Environmental Compliance (SEC) of the delinquent inspection.
  - 1.2 Schedule and complete inspection.
  - 1.3 Document the following in a letter to SEC within five working days:
    - Schedule for inspection
    - Reason(s) why inspection was not performed
    - Any measures taken to offset negative impacts resulting from not performing inspection
    - Actions to prevent further delinquencies
  - 1.4 SEC, **GO TO** WP 04-IM1000, and ensure a WIPP Form, EA04IM1000-1-0, is initiated.
- 2.0 Review equipment logbook for outstanding deficiencies and Action Requests (ARs).
- 3.0 WHE, review Equipment Logbook on a weekly basis, generally the last day of the workweek.
  - 3.1 Submit completed Equipment Logbooks to the Records Coordinator.
- 4.0 **IF** any concerns of the safe condition of conveyance loading car exist, **THEN** notify WHE immediately.

## PERFORMANCE

### 1.0 PREOPERATIONAL CHECKS

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#### NOTE

Deficiencies that are corrected when discovered may be considered a satisfactory check.

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- 1.1 **IF** any deficiencies **CANNOT** be corrected, **THEN** notify WHE.
- 1.2 Prior to conveyance car operation at beginning of each shift, complete Steps 1 through 8 on Attachment 1, Conveyance Loading Car Preoperational Checks **AND RETURN TO** Step 1.3.

#### WARNING

When connecting or disconnecting the 480 volt power cable to Conveyance Loading Car, operators are required to wear a long-sleeved 100% cotton shirt, safety shoes/boots, and safety glasses.

- 1.3 If power cable is **NOT** connected to car, perform the following:
    - 1.3.1 Ensure 480V DISC SW 41P-SW04/39 is in **OFF** position.
    - 1.3.2 Visually verify that contacts are separated.
    - 1.3.3 Connect power cable and strain relief to car.
  - 1.4 Place 480V DISC SW 41P-SW04/39 to **ON** position.
  - 1.5 Turn system on, momentarily turn system On-Off key switch to the right.
  - 1.6 **GO TO** Attachment 1 and complete Steps 9 through 12.
- ### 2.0 LOADING FACILITY PALLET ONTO HOIST
- 2.1 Energize 411-CP04-20, if needed.
  - 2.2 Using UP-DOWN joy stick, ensure platform on car is fully lowered.
  - 2.3 Ensure Door #156 is CLOSED.
  - 2.4 Open Door #140 to fully OPEN position.
  - 2.5 Load facility pallet on car.

2.6 Move forklift out of room.

2.7 Close Door #140.

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**NOTE**

Once the SENSOR BYPASS PUSH BUTTON has been released, the button should return to the NORMAL/OUT position.

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2.8 Using FWD-REV joy stick and SENSOR BYPASS PUSH BUTTON, position car out of door operating envelope.

**WARNING**

In order to prevent injury to personnel or damage to equipment, all personnel and equipment **MUST** be clear of marked operating radius of Door #156 prior to opening.

2.9 Ensure Door #155 is CLOSED.

2.10 Open Door #156.

2.11 Prior to loading facility pallet on hoist, ensure west stop pins on hoist chairs are lowered and east stop pins are raised and pivot rails are lowered.

2.12 Using UP-DOWN joy stick, raise car platform to FULL UP position.

2.13 Using FWD-REV joy stick and SENSOR BYPASS PUSH BUTTON, if needed, move car and facility pallet onto hoist cage.

2.14 Using UP-DOWN joy stick, lower car platform to FULLY LOWERED position.

2.15 Ensure car platform has cleared facility pallet.

2.16 Using FWD-REV joy stick and SENSOR BYPASS PUSH BUTTON, if needed, back car out of hoist and into loading room.

2.17 Ensure west stop pins are raised.

**WARNING**

In order to prevent injury to personnel or damage to equipment, all personnel and equipment **MUST** be clear of marked operating radius of Door #156 prior to closing.

2.18 Close Door #156.

**3.0 UNLOADING FACILITY PALLET FROM HOIST****WARNING**

In order to prevent injury to personnel or damage to equipment, all personnel and equipment **MUST** be clear of marked operating radius of Door #156 prior to opening.

3.1 Ensure Door #155 is CLOSED.

3.2 Open Door #156.

3.3 Ensure west stop pins are lowered.

3.4 Using UP-DOWN joy stick, ensure car platform is fully lowered.

3.5 Using FWD-REV joy stick and SENSOR BYPASS PUSH BUTTON if needed, move car onto hoist, lining up positioning pins on platform to facility pallet receptacles.

3.6 When car is correctly positioned, fully raise car platform, using UP-DOWN joy stick, to lift facility pallet off support stands.

3.7 Using FWD-REV joy stick and SENSOR BYPASS PUSH BUTTON, if needed, back car and facility pallet out of cage and into loading room.

3.8 Using UP-DOWN joy stick, once car clears hoist, fully lower car platform.

**NOTE**

Once SENSOR BYPASS PUSH BUTTON has been released, button should return to NORMAL/OUT position.

3.9 Using FWD-REV joy stick and SENSOR BYPASS PUSH BUTTON, position car out of door operating envelope.

**WARNING**

In order to prevent injury to personnel or damage to equipment, all personnel and equipment **MUST** be clear of marked operating radius of Door #156 prior to closing.

- 3.10 Close Door #156.
- 3.11 De-energize 411-CP04-20.
- 3.12 Open Door #140 to fully OPEN position.
- 3.13 Unload facility pallet from car.

**4.0 CONVEYANCE LOADING CAR SHUTDOWN****NOTE**

Once SENSOR BYPASS PUSH BUTTON has been released, button should return to NORMAL/OUT position.

- 4.1 Push system On-Off Key Switch "in" to turn system **OFF**.
- 4.2 Place 480V DISC SW 41P-SW04/39 in **OFF** position.
- 4.3 If desired, visually verify breaker is OPEN and disconnect power cable.

## Attachment 1 – Conveyance Loading Car Preoperational Checks

	Inspection	Criteria
1.	Tracks	Tracks are clear of obstacles.
2.	Conveyance Car Wheels	Wheels are fully seated on tracks.
3.	General Condition Checks	<b>NO</b> damage.
		<b>NO</b> loose parts.
		<b>NO</b> grease leaks on forklift or floor.
		<b>NO</b> oil leaks on forklift or floor.
		<b>NO</b> trash.
4.	Gear Box Oil Level	Level is above lower level mark.
5.	Power Cable	CABLE REEL 41-P-004C is properly wound on cable reel.
6.	Guards	All guards are in proper place.
7.	Reflectors	Reflectors are attached to: <ul style="list-style-type: none"> <li>• Door #140</li> <li>• Facility pallet support stands in hoist cage</li> </ul>
8.	Light Transmitters	Both light transmitters are attached to car.
9.	Reflectors	Reflectors are <b>NOT</b> blocked.
10.	Operational Checks	Verify red POWER light illuminates.
		Move UP-DOWN joy stick to UP <b>AND</b> verify RAISE light illuminates.
		Check upper limit.
		Move UP-DOWN joy stick to DOWN <b>AND</b> verify LOWER light illuminates.
		Check lower limit.
		Verify sensor selector is in tram.

## Attachment 1 – Conveyance Loading Car Preoperational Checks

**NOTE**

Once SENSOR BYPASS PUSHBUTTON has been released, button should return to NORMAL/OUT position.

	Inspection	Criteria
11.	Sensor Bypass Checks	Momentarily press SENSOR BYPASS PUSH BUTTON while holding FWD/REV joy stick in FWD position <b>AND</b> verify FWD light illuminates.
		Ensure forward travel a minimum of two feet beyond stop. Move FWD/REV joy stick to REV position <b>AND</b> verify REV light illuminates.
		Confirm reverse travel.
		Ensure Sensor stops conveyance car.
		Momentarily press SENSOR BYPASS PUSH BUTTON while holding FWD/REV joy stick in REV position.
12.	Communicate/Document Status	Initiate ARs to address any deficiencies that cannot be corrected by Waste Handling Operations.
		Notify WHE of the operational status and any deficiencies and status of each (e.g., deficiencies corrected and ARs generated).
13.	Record in the Equipment Logbook	Deficiencies.
		Corrective Actions taken (i.e., outstanding/newly generated ARs).
		If applicable, complete appropriate sections of WP 05-WH1101, Attachment 5, Preoperational Waste Handling Mode Checklist.