

- Verify that drum tippers and the drum crusher are inspected daily prior to use:
- ◇ Hydraulic hose fittings show no signs of leakage
- ◇ Tipper batteries have a fresh charge
- ◇ Tipper control pendant wiring insulation is not frayed
- ◇ Tipper drum clamp hinges are free from cracks
- ◇ Crusher motor fuel level near full
- ◇ Crusher motor oil level within normal band on dip stick
- ◇ Crusher ram is lubricated
- ◇ Crusher safety limit switch moves freely without sticking
- ◇ Crusher door hinge welds are free from cracks
- ◇ Accumulation debris below crusher support rails is cleaned out

6.0 INSTRUCTIONS

Each subsection represents a module or set of related tasks that may be performed independently from other modules. Unless otherwise stated, tasks may be performed in a different order or concurrently. Instructions apply to both Type A and Type B IDM waste unless specifically stated.

6.1 Drum Movements Module

6.1.1 For Type A containers destined for USA Waste, verify the containers being staged for decanting or loading are listed on PRE Number: 980313-T130B-002.

6.1.2 Type B containers destined for NTS disposal, verify the containers being staged for decanting are listed in the population defined in SAP-LLW-1373-001.

6.1.3 Within the project scope, IDM waste and other generated waste containers may be moved and temporarily staged in any of the following areas:

- Building 904 Pad and Tents
- Contractor Yard Area 905
- Decontamination Pad D903
- Building 664
- Roadways connecting above listed areas (no staging in roadways unless road has been secured)

NOTE: TRAFFIC CONTROLS MUST BE INSTITUTED TO AVOID COMMINGLING OF MOTOR VEHICLES AND FORKLIFTS CARRYING WASTE CONTAINERS

6.1.4 The Job Supervisor shall review general travel routes at the start of each work shift or when a new crew is assigned.

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NOTE: Only subject Type A IDM waste drum to this module after it has undergone processing by Subsection/Module 6.2 or 6.3.

- 6.4.1 The lid of the drum may be on or off while transporting drums of Type A IDM waste.
- 6.4.2 Use a forklift or other means to move the Type A IDM drums into the roll off container.
- 6.4.3 Arrange the Type A IDM drums, lids, pallets, and metal bands in a planar array or as instructed by the CTR (or appointed responsible person) for the landfill site.

NOTE: The landfill roll off container content weight limitation is 21,000 pounds. The overall gross weight may not exceed 54,000 pounds. Assuming a total weight of 908 pounds for each 55-gallon IDM drum, a maximum of 23, 55-gallon drums can be loaded on one roll off container. Assuming that each 30-gallon IDM drum weighs 452 pounds, a maximum of 46, 30-gallon drums can be loaded on one roll off container. For roll off containers with both 55-gallon and 30-gallon drums, the Job Supervisor should contact the Project Engineer to calculate total allowable number of each.

- 6.4.4 The Type A IDM drums are considered Non-Routine/Special landfill waste and require the following paperwork:
 - Material Transfer and Disposal form (for entire IDM Type A population)
 - Waste Acceptance Criteria form contained in 1-PRO-573-SWODP, "Sanitary Waste Offsite Disposal Procedures" (for entire IDM Type A population)
 - Radiological Waste Release Evaluation (for entire IDM Type A population)
 - Non-hazardous waste manifest for each roll off container

Note: Each drum must be certified/authorized for disposal by the Supervisor or Contract Technical Representative.

- 6.4.5 Record on WEMS Container Accuracy Report worksheet an inventory of Type A drums placed in each roll off container. In addition, attach a copy of the Type A drum inventory to each manifest for each roll off container. Retain list of drums in each roll off container in the project files.
- 6.4.6 Daily, secure the gate on the roll off container.
- 6.4.7 Tarp the roll off container according to instructions as prescribed by the Contract Technical Representative for the landfill site.
- 6.4.8 Remove the tarp prior to shipment.

NOTE: The box weight limitation is 4,550 pounds and will be monitored as 55-gallon and 30-gallon drums are bulked into each box. The box being filled will be positioned on a scale during operations.

6.5.7 Prior to sealing, boxes will undergo a "tilt process" overnight. Waste Inspection will observe daily no free liquids are present in the boxes. Determination will be made by Waste Certification if IDM waste meets criteria required for shipment to NTS.

6.5.8 Seal the waste crate according to WGI Number GI98OUOPS0519A (for half crates), WGI Number GI98OUOPS0519D (for full crates), or WGI Number GI98OUOPS0526A (for V-crates) and the on-site waste procedure, 4-D99-WO-1100, "Solid Radioactive Waste Packaging."

6.6 Dumping Type B Waste into Boxes With Segregation of IDM (refer to 3.0 Definition) and Drum Crushing Module

NOTE: Only subject Type B IDM waste drum to this module after it has undergone processing by Subsection/Module 6.2 or 6.3.

6.6.1 Transport the IDM Type B drum with secured lid to the 904 Pad south end for indoor processing.

6.6.2 Have an approved metal or wooden box (crate) staged on a scale with packaging materials per the WGI staged. Remove the "Radioactive Contamination Inside" label if present.

6.6.3 Record the receiving box (crate) number and number of the drum to be consolidated on the Traveler in addition to Waste Inspection verification of crate.

6.6.4 Place absorbent as needed in the box with the waste alternately or physically mixed with the IDM.

Note: As a guideline, follow Table 1 (refer to 6.5.4) guidance for adding absorbent.

6.6.5 For a half-size or full size box, open the drum and use a forklift with hydraulic grabber or a drum tipper to empty the contents into the box. If necessary for waste compacting, sawsall cut the rigid drum liners. The IDM dirt and drum liner will be bulked into the box.

NOTE: The box weight limitation is 4,550 pounds and will be monitored as 55-gallon and 30-gallon drums are bulked into each box. The box being filled will be positioned on a scale during operations.

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6.6.6 Per OPS-INSTR.009, "Building 991 Drum Cutting/Crushing Operations", crush the empty drum and place in the metal accumulation box, with drum lid and ring. Crushed drums can also be added to boxes containing IDM B.

NOTE: Operator judgment shall determine whether or not absorbent needs to be added to boxes accumulating segregated metal (metal only). If residual moisture warrants the addition of absorbent, Operator judgment shall also determine the amount added.

6.6.7 Prior to sealing, boxes will undergo a "tilt process" overnight. Waste Inspection will observe daily no free liquids are present in the boxes. Determination will be made by Waste Certification if IDM waste meets criteria required for shipment to NTS.

6.6.8 Seal the waste crate according to WGI Number GI98OUOPS0519A (for half crates), WGI Number GI98OUOPS0519D (for full crates), or WGI Number GI98OUOPS0526A (for V-crates) and the on-site waste procedure, 4-D99-WO-1100, "Solid Radioactive Waste Packaging."

6.6.9 Stage boxes with IDM bulk waste on the 904 Pad until a truck load is accumulated and/or until an off-site transport truck is available.

6.7 Loading Type B Waste Boxes onto Trucks Module

6.7.1 Transport the boxes with IDM bulk waste to the Building 664.

6.7.2 Load the boxes into a truck for off-site transport. Only DOT trained personnel may load trucks for off-site transfers.

6.7.3 If a truck is not available for off site transport, stage the boxes of IDM bulk waste on the 904 Pad until a truck is available.

7.0 RECORDS

All records generated while employing this WI will be retained as required by the referenced procedures or instructions; however, no records are generated as a result of this instruction.

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8.0 REFERENCES

- 1-PRO-573-SWODP, Sanitary Waste Off-Site Disposal Procedure.
- 00-SWO-004, Handling Drums and Pallets in Poor Condition and Response to Spills of Investigative Derived Material.
- 3-PRO-140-RSP-09.03, Unrestricted Release of Bulk or Volume.
- 4-D99-WO-1100, Solid Radioactive Waste Packaging.
- 1-PRO-Q11-1221, Controls for Updating Waste Package Information in WEMS.
- WGI Number GI98OUOPS0519A, Disposing Type B IDM in Half Crates.
- WGI Number GI98OUOPS0521A, Disposing Type A IDM in Roll Off Containers.
- WGI Number GI98OUOPS0526A, Disposing Type B IDM in V-Crates.
- WGI Number GI98OUOPS0519D, Disposing Type B IDM in Half or Full Crates.

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