ADDENDUM M

WASTE TRANSFER OPERATING CONDITIONS
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Contents

M  WASTE TRANSFER OPERATING CONDITIONS .................................................... M.1
M.1 Initial Configuration (Prestartup) ............................................................... M.1
M.2 System Startup ......................................................................................... M.1
M.3 Normal Operations .................................................................................... M.1
M.4 Off-Normal Operations ............................................................................ M.1
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M WASTE TRANSFER OPERATING CONDITIONS

Pre-established routes are used to transfer liquid waste safely from one location to another in response to processing requirements, changing tank storage needs, or tank leaks. The Permittees will use H-14-107346, sheets 1 through 7, DST Waste Transfer Piping Diagram, to establish a compliant waste transfer route.

Before transferring waste, Tank Farm Operations performs several activities. These activities include verifying that sufficient space is available in the receiving tank, verifying waste compatibility, verifying waste acceptability for transfers coming into tank farms and verifying equipment operability. A baseline material balance is developed before the transfer for both the sending and receiving storage tanks. The material balance is reviewed periodically during the transfer to provide early leak detection and avoid filling tanks above safe levels. After the transfer is complete, transfer lines are flushed with water, if required, and a final material balance is recorded for both tanks.

Typical waste transfer operations for transfer through underground transfer lines and hose-in-hose transfer lines (HIHTL) are presented below. Where distinguishing additional operations for the slurry transfer line is necessary, the key operations have been noted.

M.1 Initial Configuration (Prestartup)

Prestartup conditions must be verified before waste transfer is begun. The Permittees must verify the operating procedures are listed below:

- Verify the proper valve alignment for the waste transfer mode
- Verify the leak-detection functionality
- Verify that the electrical distribution and instrument air support systems are operable.

M.2 System Startup

The master pump shutdown system receives an enable signal from connected instrumentation, indicating that the initial configuration is complete. The enable signal alerts the operator and provides the permissive for the transfer pump to be started. If the transfer involves a booster pump, the pump also is permitted to run (slurry line only).

M.3 Normal Operations

Normal operations for the supernatant transfer line proceed as follows.

- The waste transfer operation continues, monitored by either a totalizing flowmeter and/or tank levels, until the desired volume is reached. Pumping is stopped.
- The drain operation is performed immediately. It consists of the following key steps:
  - Transfer lines may be flushed with flush water or backup flush water (by another interfacing system).
  - For cross site transfer line transfers the lines are vented at the vent station to allow air to enter the line and to allow complete liquid drainage to occur, as required.

M.4 Off-Normal Operations

One condition is considered for off-normal operations:

- Recovery of liquids from the sump area of either the diversion box or the vent station after a leak is detected. To assist with this, an operator monitors for leaks via a Human Machine Interface (HMI) system. This system monitors the transfer route and annunciates in the event of an alarm alerting operations to shut down the transfer.