Transfer Equipment/Material through the 242-A Loadout Room and Doors

Tank Farm Plant Operating Procedure

USQ # GCX-2

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Figure 1. Rollup Door and Draft Curtain Chainfall Locations
1.0 PURPOSE AND SCOPE

1.1 Purpose

To provide instructions for transferring equipment and material within the 242-A Loadout Room and through the Loadout Room doors.

1.2 Scope

This procedure applies to the 242-A Loadout Room.

2.0 INFORMATION

2.1 General Information

2.1.1 Process Crane Operator is responsible for all crane operations.

2.1.2 The Loadout Room is used as an airlock for transferring equipment into and out of the Equipment Storage Room and the pump cell; therefore, one ventilation barrier must be maintained at all times when it is required to maintain negative pressure in the Loadout Room.

2.1.3 The Loadout Room rolling door acts as one ventilation barrier. A draft curtain has been installed that acts as a ventilation barrier between the Loadout Room and the crane passageway. Maintaining one of these ventilation barriers closed allows the canyon portion of the 242-A Building to be maintained at a negative pressure at all times.
3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

**WARNING** - Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

3.1.1 Stay clear of the load path. Use hand over hand while operating or closing door using chain hoist.

3.1.2 Crane must not be positioned over the draft curtain while it is closed.

3.2 Equipment Safety

**CAUTION** - Opening roll up door when K1-5-1 is running in the HAND mode could cause load out room to pressurize.

3.3 Radiation and Contamination Control

3.3.1 When performed without a work package, this procedure is limited to radiological areas and work activities permitted by a general Radiological Work Permit (RWP).

3.3.2 When work is performed in or when work will result in a high contamination, high radiation, or an airborne radioactivity area, an approved work package must be developed which is reviewed by Radiological Control per ALARA work planning procedure TFC-ESHQ-RP_RWP-C-03.

3.3.3 High dose rates may be encountered. Continuous HPT monitoring is required if dose rates could exceed 100 mRem/hr.

3.3.4 During performance of Sections 5.1 and 5.2, building pressure and airflow should be closely monitored while opening rolling door. This indication is located on the HVAC Human Machine Interface (HMI) located in the Control Room. In the event that the airflow cannot be maintained with door open, the door should be closed and supervision notified.

3.3.5 Equipment to be removed from the facility for shipment must be released by HPT prior to leaving facility.
4.0 PREREQUISITES

4.1 Special Tools, Equipment, and Supplies
- Shipping containers and documentation required by TO-100-052, “Perform Waste Generation, Segregation, Accumulation and Clean-up”.
- Paper/plastic for covering floor
- Tape

4.2 Performance Documents
- TO-100-052, “Perform Waste Generation, Segregation, Accumulation and Clean-up”
- TO-600-140, “Operate 242-A Overhead Crane”
- TO-620-020, “Operate the 242-A Evaporator Ventilation System”

4.3 Field Preparations

4.3.1 BEFORE performing this procedure, CONFIRM the Shift Manager (SM) has directed equipment move through the Loadout Room area or door(s).
5.0 PROCEEDURE

5.1 Move Equipment/Material into the 242-A Loadout Room

5.1.1 LAY paper/plastic as required to control contamination.

5.1.2 CHECK that crane hooks and cables are clear of the draft curtain opening.

5.1.3 IF not clear of the draft curtain opening, REQUEST Crane Operator to reposition crane hooks and cables.

5.1.4 CLOSE personnel doors between the Loadout Room and Hot Equipment Storage Room. (See Figure 1)

5.1.5 CLOSE draft curtain. (See Figure 1)

5.1.6 ENSURE K1-5-3 or K1-5-2 and K2-5-1 ventilation systems are in operation per TO-620-020.

5.1.6.1 IF the K2-5-1 ventilation system cannot be maintained in operation as required to maintain positive pressure on the facility cold side, STOP.

CAUTION
Opening roll up door when K1-5-1 is running in the HAND mode could cause load out room to pressurize

5.1.7 CHECK K1-5-1 supply fan is operating in AUTO mode.

5.1.7.1 IF K1-5-1 is NOT in AUTO mode, ENSURE the supply fan is shut down per TO-620-020 to prevent possible pressurizing of load out room when roll up door is opened.

NOTE - Building pressure can be monitored on HVAC VCS HMI in the Control room on the ventilation exhaust system K1 Graphics.

5.1.8 ASSIGN an operator to monitor building pressure on HVAC VCS HMI as door is opened.

5.1.8.1 IF pressure cannot be maintained negative (less than 0) with door open, CLOSE door AND NOTIFY SOM.
5.1 Move Equipment/Material into the 242-A Loadout Room (Cont.)

**WARNING**
Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.1.9 USING hand over hand technique on chain of chain fall, SLOWLY OPEN rolling door.

5.1.10 BRING equipment/material into the Loadout Room.

**WARNING**
Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.1.11 USING hand over hand technique on chain of chain fall, SLOWLY CLOSE the rolling door.

5.1.12 OPEN the draft curtain.

5.1.13 IF Equipment/material is to be removed from the 242-A facility, CONFIRM it has been released for shipment by the HPT prior to leaving the facility.

5.1.14 REQUEST Crane Operator move equipment as directed by SM.

5.1.14.1 IF equipment/material is to be removed from the facility, ENSURE the HPT has released for shipment prior to equipment/material leaving the facility.

5.1.15 IF directed by Shift Manager, START K1-5-1 Supply Fan per TO-620-020.
5.2 Move Equipment/Material out of 242-A Loadout Room via Rollup Door

5.2.1 ENSURE door between Loadout and Hot Equipment rooms is CLOSED. (See Figure 1)

5.2.2 CLOSE the draft curtain. (See Figure 1)

5.2.3 REQUEST HPT survey any equipment/material exiting Loadout Room for release.

NOTE - Building pressure can be monitored on HVAC HMI in the Control room on the ventilation exhaust system K1 Graphics.

5.2.4 ASSIGN an operator to monitor building pressure on HVAC HMI as door is opened.

5.2.4.1 IF pressure cannot be maintained negative (less than 0) with door open, CLOSE door AND NOTIFY SM.

WARNING
Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.2.5 USING hand over hand technique on chain of chain fall, SLOWLY OPEN the rolling door when the equipment/material is released by HPT.

5.2.6 MOVE the equipment/material from the Loadout Room.

WARNING
Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.2.7 USING hand over hand technique on chain of chain fall, CLOSE rolling door.
5.2 Move Equipment/Material out of 242-A Loadout Room via Rollup Door (Cont.)

5.2.8 IF directed by SM, OPEN the draft curtain.

5.2.9 PACKAGE AND DISPOSE of waste per TO-100-052.
Transfer Equipment/Material through the 242-A Loadout Room and Doors

5.3 Move Equipment/Material into 242-A Loadout Room with Rollup Door and Draft Curtain Open

5.3.1 **ENSURE** the evaporator is in SHUTDOWN MODE before proceeding with this section.

5.3.2 **ENSURE** K1-5-3 or K1-5-2 and K2-5-1 ventilation systems are in operation per TO-620-020.

5.3.2.1 **IF** the K2-5-1 ventilation system cannot be maintained in operation as required to maintain positive pressure on the facility cold side, **STOP**.

**CAUTION**
Opening roll up door when K1-5-1 is running in the HAND mode could cause load out room to pressurize

5.3.3 **CHECK** K1-5-1 supply fan is operating in AUTO mode.

5.3.3.1 **IF** K1-5-1 is NOT in AUTO mode, **ENSURE** the supply fan is shut down per TO-620-020 to prevent possible pressurizing of load out room when roll up door is opened.

5.3.4 **LAY** paper/plastic as required to control contamination.

5.3.5 **CHECK** that crane hooks and cables are clear of the draft curtain opening.

5.3.6 **IF** crane hooks and cables are not clear of the draft curtain opening, **REQUEST** Crane Operator to reposition crane hooks and cables.
Transfer Equipment/Material through the 242-A Loadout Room and Doors

5.3 Move Equipment/Material into 242-A Loadout Room with Rollup Door and Draft Curtain Open (Cont.)

NOTE - See Figure 1 for location of chainfalls to operate draft curtain and rolling door.

5.3.7 CLOSE personnel doors between the Loadout Room and Hot Equipment Storage Room. (See Figure 1)

5.3.8 CHECK draft curtain is OPEN. (See Figure 1)

WARNING
Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.3.9 USING hand over hand technique on chain of chain fall, SLOWLY OPEN rolling door.

5.3.10 BRING equipment/material into the Loadout Room.

WARNING
Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.3.11 USING hand over hand technique on chain of chain fall, CLOSE rolling door.

5.3.12 IF Equipment/material is to be removed from the 242-A facility, CONFIRM it has been released for shipment by the HPT prior to leaving the facility.

5.3.13 REQUEST Crane Operator move equipment as directed by SM.

5.3.13.1 IF equipment/material is to be removed from the facility, ENSURE the HPT has released for shipment prior to equipment/material leaving the facility.

5.3.14 IF directed by Shift Manager, START K1-5-1 Supply Fan per TO-620-020.
5.4 Move Equipment/Material out of 242-A Loadout Room with Rollup Door and Draft Curtain Open

5.4.1 CONFIRM the evaporator is in SHUTDOWN MODE before proceeding with this section.

5.4.2 ENSURE K1-5-3 or K1-5-2 and K2-5-1 ventilation systems are in operation per TO-620-020.

5.4.2.1 IF the K2-5-1 ventilation system cannot be maintained in operation as required to maintain positive pressure on the facility cold side, STOP.

CAUTION
Opening roll up door when K1-5-1 is running in the HAND mode could cause load out room to pressurize

5.4.3 CHECK K1-5-1 supply fan is operating in AUTO mode.

5.4.3.1 IF K1-5-1 is NOT in AUTO mode, ENSURE the supply fan is shut down per TO-620-020 to prevent possible pressurizing of load out room when roll up door is opened.

5.4.4 ENSURE door between Loadout and Hot Equipment rooms is CLOSED.

5.4.5 CHECK the draft curtain is OPEN.

5.4.6 REQUEST HPT survey any equipment/material exiting Loadout Room for release.

WARNING
Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.4.7 USING hand over hand technique on chain of chain fall, SLOWLY OPEN the rolling door.
Transfer Equipment/Material through the 242-A Loadout Room and Doors

5.4 Move Equipment/Material out of 242-A Loadout Room with Rollup Door and Draft Curtain Open (Cont.)

5.4.8 WHEN material/equipment has been surveyed and released, MOVE the equipment/material from the Loadout Room.

**WARNING**

Due to the design of the roll up door, when the door is being raised or lowered the weight of the door may pull the chain of the chain fall from the users hands potentially causing personnel injury if not staying clear of the load path or damage to roll up door.

5.4.9 USING hand over hand technique on chain of chain fall, CLOSE rolling door.

5.4.10 IF directed by SM, OPEN the draft curtain.

5.4.11 PACKAGE AND DISPOSE of waste per TO-100-052.

5.4.12 IF directed by Shift Manager, START K1-5-1 Supply Fan per TO-620-020.

5.5 Records

No records are generated during the performance of this procedure.
Figure 1. Rollup Door and Draft Curtain Chainfall Locations