Unpacking Lines

Overview of Unpacking Lines

- > Three product lines for unpacking
 - > F-24 (~162K Gallons initial unpacking volumes)
 - > JP-5 (~215K Gallons initial unpacking volumes)
 - > F-76 (~72K Gallons UGPH and LYT volumes)
- > Three phases per product line/type
 - Phase I: Pre-Operation
 - Phase II: Gravity Drain Down
 - Phase III: Low Point Drain Transfer
- ➤ All Phase II Gravity Drain Down Fuel Movements will be conducted first
 - > Day 1: F-24
 - > Day 2: JP-5

F-24 Unpacking Lines Concept of Operation (Date: TBD)

Operations Summary

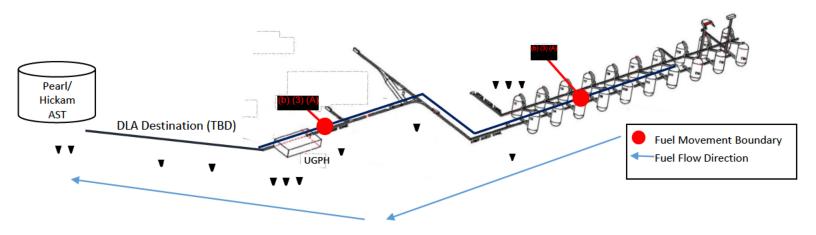
- Phase I: Pre-Operation
- Phase II: Gravity Drain Down (Total ~144K Gallons)
- Phase III: Low Point Drain Transfer (~18K Gallons)
- Phase I: Pre-Operation
 - Planning: Data Gathering, Op Order
 - > Configuring: Align valves per Baseline
 - > Training: To Op Order and Emergency Response
 - > Evolution Walkthrough: All Scheduled Watch-Standers
- Phase II: Gravity Drain Down (~144K Gallons)
 - **Evolution:** Drain F-24 line empty from Tank Skillet to (b) (3) (A
 - > Transferring Location: TBD
 - Ullage: TBD Gallons
 - ➤ Line Pressure Verification: Pressure Equalization during Phase II
 - > Pressure confirmed day of via Op Order
 - Pressure Equalization via empty tanks
 - > Return Valves to Baseline: In sequence from Hickam to
 - Return HPV Valves to Baseline

Phase II Operational Staffing

- Supervisor of the Watch
- Control Room Operator
- Asst. Control Room Operator
- Work Supervisor

- ➤ Work Lead
- Independent Validators
- Rovers

Phase II: Gravity Drain Down



F-24 Unpacking Lines Concept of Operation (Date: TBD)

Operations Summary

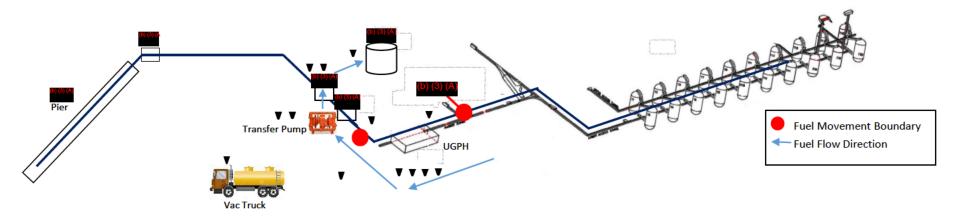
- Phase III: Low Point Drain Transfer (~18K Gallons)
 - > Evolution: Pump F-24 line empty from (b) (3) (A)
 - Transferring Location:
 - > 1) From LPD at (b) (3) (A) Pump
 - > 2) From (b) (3) (A)
 - > 3) From ank Capacity: (0) (3) (A) Gallons
 - Line Pressure Verification: Pressure Equalization during Phase II and III
 - Pressure confirmed day of via Op Order
 - Pressure Equalization via empty tanks
 - > Transfer Pump: Maximum (b) (3) (A) /hr flow rate
 - > Transfer Time: day
 - Return Valves to Baseline: In sequence from Tank to Valve
 - Return HPVs Valves to Baseline

Phase III Operational Staffing

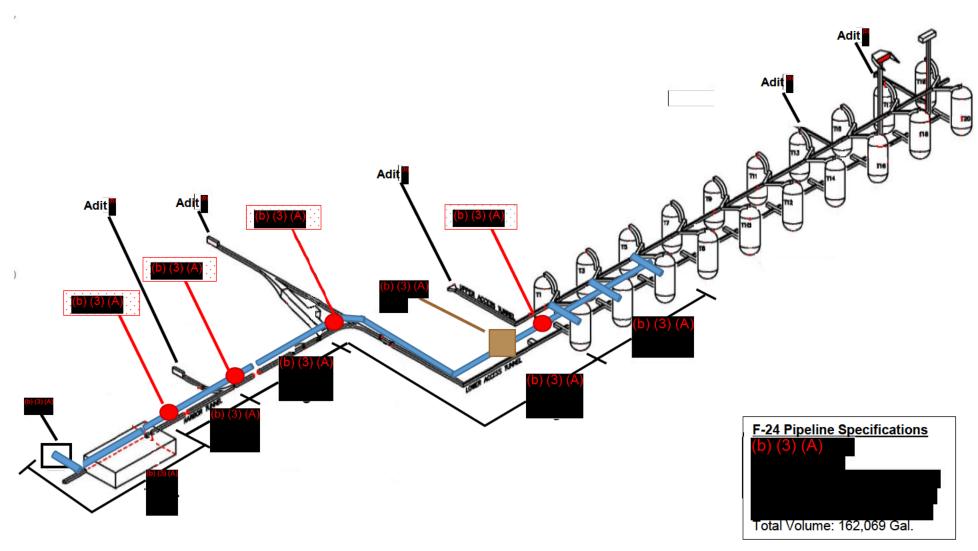
- Supervisor of the Watch
- Control Room Operator
- Asst. Control Room Operator
- Work Supervisor
- Work Leader

- ➤ Pump Operator
- Asst. Pump Operator
- ➤ Independent Validators
- Rovers
- Vacuum Truck Operator

Phase III: Low Point Drain Transfer



F-24 Pipeline and Sectional Valve Volumes and Locations



JP-5 Unpacking Lines Concept of Operation (Date: TBD)

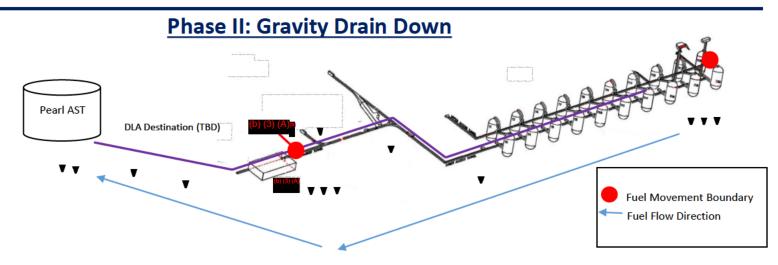
Operations Summary

- Phase I: Pre-Operation
- Phase II: Drain Down (~194K Gallons)
- Phase III: Low Point Drain Transfer (~21K Gallons)
- Phase I: Pre-Operation
 - Planning: Data Gathering, OPORD
 - > Configuring: Align valves per Baseline
 - > Training: To OPORD and Emergency Response
 - Evolution Walkthrough: All Scheduled Watch-Standers
- Phase II: Drain Down (194K Gallons)
 - > Evolution: Drain JP-5 line empty from end of line at Tank
 - > Transferring Location: TBD
 - Ullage: TBD Gallons
 - ➤ Line Pressure Verification: Pressure Equalization during Phase II
 - Pressure confirmed day of via OPORD
 - Pressure Equalization via empty tanks
 - Return Valves to Baseline: In sequence from destination to (b) (3
 - Return HPV Valves to Baseline

Phase II Operational Staffing

- Supervisor of the Watch
- Control Room Operator
- Asst. Control Room Operator
- Work Supervisor

- Work Lead
- ➤ Independent Validators
- Rovers



JP-5 Unpacking Lines Concept of Operation (Date: TBD)

Operations Summary

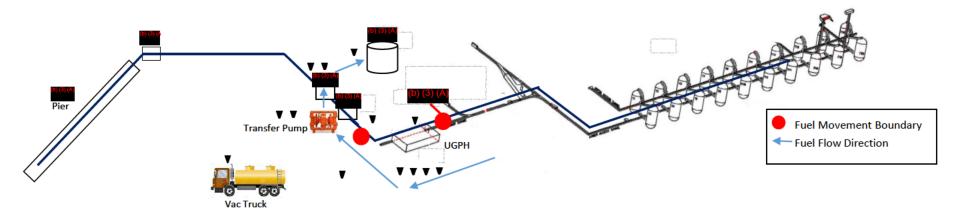
- Phase III: Low Point Drain Transfer (~21K Gallons)
 - Evolution: Pump JP-5 line empty from (b) (3) (A)
 - Transferring Location:
 - > 1) From (b) (3) (A) Pump > 2) From (b) (3) (A)
 - 3) From
 - > Tank 301 Capacity: (b) (3) (A)
 - ➤ Line Pressure Verification: Pressure Equalization during Phase II and III
 - Pressure confirmed day of via Op Order
 - Pressure Equalization via empty tanks
 - > Transfer Pump: Maximum (b) (3) (A) /hr flow rate
 - Transfer Time: (5)(3)(
 - Return Valves to Baseline: In sequence from Tank to Valve
 - Return HPVs Valves to Baseline

Phase III Operational Staffing

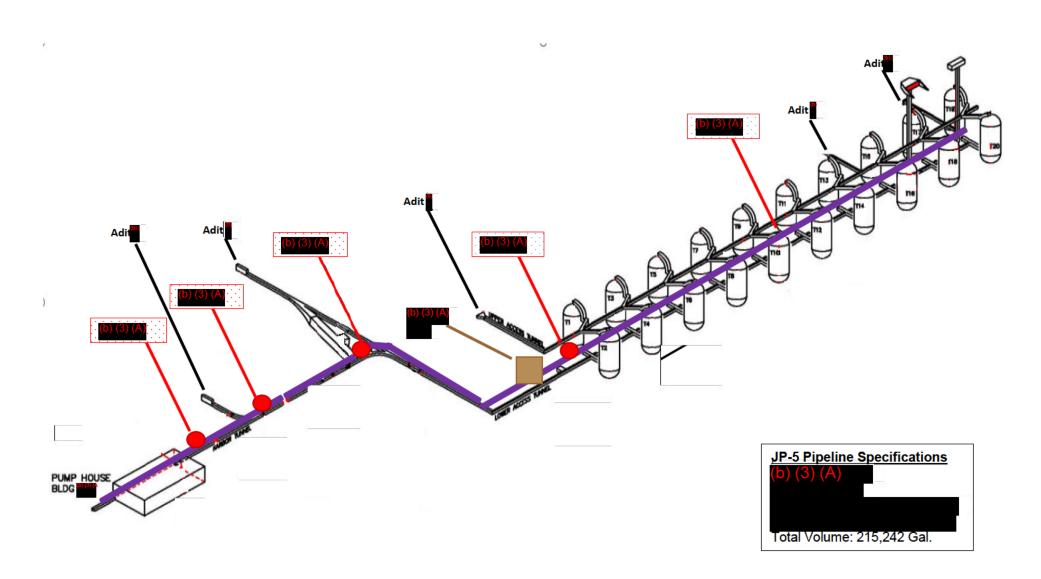
- Supervisor of the Watch
- Control Room Operator
- Asst. Control Room Operator
- Work Supervisor
- Work Leader

- ➤ Pump Operator
- > Asst. Pump Operator
- ➤ Independent Validators
- Rovers
- Vacuum Truck Operator

Phase III: Low Point Drain Transfer



JP-5 Unpacking Lines Sectional Valve Locations



F-76 Unpacking Lines Concept of Operation (Date: TBD)

Operations Summary

- Phase I: Pre-Operation
- Phase II: Does Not Apply to F-76
- Phase III: Low Point Drain Transfer (~72K Gallons)
- Phase I: Pre-Operation
 - Planning: Data Gathering, OPORD
 - Configuring: Align valves per Baseline
 - > Training: To OPORD and Emergency Response
 - > Evolution Walkthrough: All Scheduled Watch-Standers
- Phase II: Does Not Apply to F-76

Phase III: Low Point Drain Transfer (~72K Gallons)

Evolution: Pump F-76 line empty from (b) (3) (A)

Transferring Location:

1) From (b) (3) (A)

2) From (b) (3) (A)

3) From (b) (3) (A)

Tank

Tank

Capacity: (a) (a) (A) Gallons

Line Pressure Verification: Pressure Equalization during Phase II and III

Pressure confirmed day of via Op Order

Pressure Equalization via empty tanks

Transfer Pump: Maximum (b) (3) (A) / hr flow rate

Transfer Time

Return Valves to Baseline: In sequence from Tank

Possible (a) (A) / hr flow rate

Phase III Operational Staffing

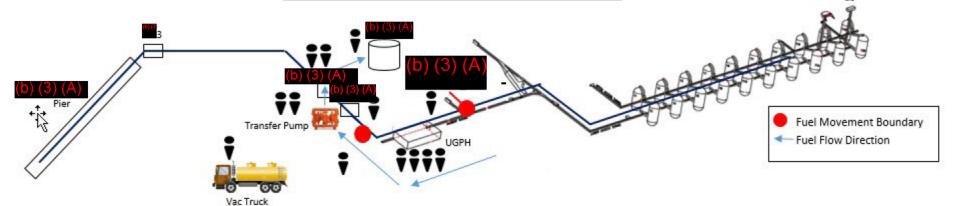
- Supervisor of the Watch
- Control Room Operator
- Asst. Control Room Operator

Return HPVs Valves to Baseline

- Work Supervisor
- Work Leader

- Pump Operator
- Asst. Pump Operator
- Independent Validators
- Rovers
- Vacuum Truck Operator

Phase III: Low Point Drain Transfer



F-76 Unpacking Lines Sectional Valve Locations

