The Unpacking Plan includes a Concept of Operations (CONOPs), Maintenance Orders, Operational Orders (OPORDs), Valve Alignment Baseline Operation Orders (Baseline OPORDs), and supporting documents for each fuel product type. Below is a list of the documents in the sequence provided:

- 01\_Unpack CONOP Rev 13 31 August 2022 Revised
- 02 F24 Unpack Maintenance Order #UM01 No changes
- 03\_F24 Unpack ECP Revised
- 04 F24 HPV Elevation Calculation No changes
- 05\_F24 Unpack Gravity HCK OPORD #U001 Revised
- 06\_F24 Unpack Gravity Baseline PH OPORDS #U001A (Rev 1) Revised
- 07\_F24 Unpack Gravity Baseline HCK OPORD #U001B (Rev 1) Revised
- 08\_F24 Unpack Gravity HCK Diagram No changes
- 09\_F24 Unpack Suction Low Point Drain Transfer OPORD #U002 Revised
- 10 F24 Unpack Suction Low Point Drain Transfer Baseline OPORD #U002A (Rev 1) Revised
- 11 F24 Unpack Suction Low Point Drain Transfer Diagram Revised
- 12\_JP5 Unpack Maintenance Order #UM02 No changes
- 13\_JP5 Unpack ECP Revised
- 14\_JP5 Unpack Gravity YON OPORD #U003 Revised
- 15 JP5 Unpack Gravity YON Baseline OPORD #U003A (Rev 1) Revised
- 16\_JP5 Unpack Gravity YON Thermal Baseline OPORD #U003B (Rev 1) Revised
- 17 JP5 Unpack Gravity YON Diagram No changes
- 18 JP5 Unpack Suction Low Point Drain Transfer OPORD #U004 -
- 19 JP5 Unpack Suction Low Point Drain Transfer Baseline OPORD #U004A (Rev 1) Revised
- 20 JP5 Unpack Suction Low Point Drain Transfer Diagram Revised
- 21\_F76 Unpack Maintenance Order #UM03 No changes
- 22 F76 Unpack ECP Revised
- 23\_F76 Unpack Gravity YON OPORD #U005 Revised
- 24\_F76 Unpack Gravity YON Baseline OPORD #U005A (Rev 1) Revised
- 25\_F76 Unpack Gravity YON Thermal Baseline OPORD #U005B (Rev 1) Revised
- 26\_F76 Unpack Gravity YON Diagram Revised
- 27\_F76 Unpack Gravity YON OPORD #U006 Revised
- 28\_F76 Unpack Gravity YON Baseline OPORD #U006A Revised
- 29\_F76 Unpack Gravity YON Thermal Baseline OPORD #U006B (Rev 1) Revised
- 30 F76 Unpack Gravity YON Diagram Revised
- 31\_F76 Unpack Suction Low Point Drain Transfer OPORD #U007 Revised
- 32 F76 Unpack Suction Low Point Drain Transfer Baseline OPORD #U007A (Rev 1) Revised
- 33 F76 Unpack Suction Low Point Drain Transfer Diagram Revised

## Red Hill Pipeline Unpacking

Overall Classification of this Briefing is



## **Overview of Pipeline Unpacking**

- Three product lines to unpack for repair work
  - > F-24 (162,069 Gallons)
  - > JP-5 (216,480 Gallons)
  - > F-76 (691,128 Gallons)
- Four phases per product line/type

#### **Preparatory**

- > Phase I: Pre-Operation
- > Phase II: Valve Maintenance/Op Check/Pressure Equalization

#### **Fuel Movement**

- > Phase III: Gravity Drain Down
- Phase IV: Low Point Drain Transfer
- ➤ All Phase III Gravity Drain Down Fuel Movements will be conducted first
  - > Day 1: F-24
  - Day 2: JP-5
  - > Day 3: F-76
  - Day 4: F-76
- > Then all Phase IV Low Point Drain Transfers will be conducted to conclude unpacking
  - > Day 5: F-24 and JP-5
  - > Day 6: F-76

# F-24 Pipeline Unpacking Red Hill Concept of Operation (Date: TBD)

#### Operations Summary

#### Preparatory

- Phase I: Pre-Operation
- > Phase II: Valve Maintenance/Op Check/Pressure Equalization

#### Fuel Movement (Total ~162,069 Gallons)

- Phase III: Gravity Drain Down (~144,362 Gallons)
- Phase IV: Low Point Drain Transfer (~17,707 Gallons)

#### **Preparatory**

- Phase I: Pre-Operation
  - > Planning: Data Gathering, Maint. Order, Op Order, HAZOP Analysis
  - ➤ Configuring: LOTO RH Tanks work Valves Listed in Baseline
  - Training: To Maint. Order, Op Order, and Emergency Response
  - > Evolution Walkthrough: All Scheduled Watch-Standers
- Phase II: Valve Maintenance/Op Check/Pressure Equalization
  - Maintenance and Op Check: Grease and cycle (4) valves
  - Line Pressure Verification: Equalize pipeline to atmospheric pressure
  - Confirm Valve Alignment as identified in OPORD

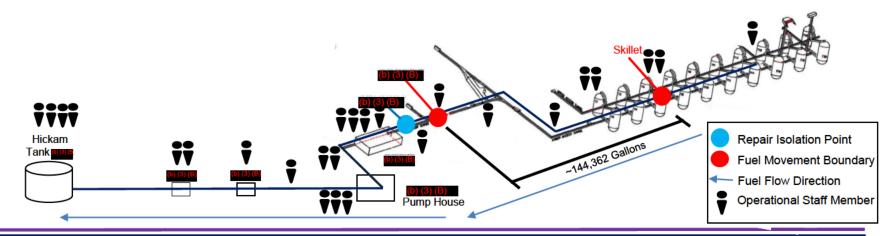
#### **Fuel Movement**

- Phase III: Gravity Drain Down (~144,362 Gallons)
  - Evolution: Gravity Drain F-24 line empty from Tank Skillet to
  - Transferring Location: To Hickam Tank <a href="#">DIGNE</a>
  - Tank Ullage: 300,000 Gallons
  - Line Pressure Verification: Pressure Equalization during Phase II
    - Pressure confirmed day of via Op Order
    - ➤ Open HPV on Tank Lateral to maintain ambient pressure
    - After 10K unpacked, remove flange on TK Lateral
  - ► Gravity Flow Fuel: Max. 100,000 gal/hr flow rate ~2 hrs.
  - Transfer Assist Pump: (b) (3) (B) located in (b) (3) (B)
  - Return Valves to Baseline: In sequence from Hickam to (b) (3) (B)
  - Return HPV Valves to Baseline

#### **Phase III Operational Staffing**

- Supervisor of the Watch (1)
- Control Room Operator (1)
- Asst. Control Room Operator (1)
- ➤ Hickam Pump House Operator (1)
- ➤ Work Supervisor (2)
- ➤ Work Lead (2)
- ➤ Independent Validators (5)
- > Rovers (13)

#### **Phase III: Gravity Drain Down**



# F-24 Pipeline Unpacking Red Hill Concept of Operation (Date: TBD)

#### **Fuel Movement**

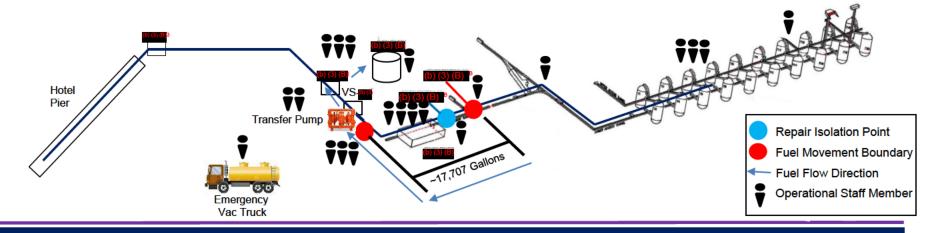
- Phase IV: Low Point Drain Transfer (~17,707 Gallons)
  - > Evolution: Pump F-24 line empty from (b) (3) (B)
  - Transferring Location:
    - > 1) From LPD at (b) (3) (B) to Transfer Pump
    - > 2) From Transfer Pump to (b) (3) (B)
    - > 3) From (b) (3) (B) to Tank (b) (3) (6)
  - Tank or Ullage: 60,000 Gallons
  - ➤ Line Pressure Verification: Pressure Equalization during Phase II and III
    - Pressure confirmed day of via Op Order
    - ➤ Open HPV on Tank 
      Lateral to maintain ambient pressure
  - > Transfer Pump: Maximum 15,000 gal/hr flow rate
  - Transfer Time: ½ day
  - Return Valves to Baseline: In sequence from (b) (3) (B) to (b) (3) (B)
  - Return HPVs Valves to Baseline

#### Phase IV Operational Staffing

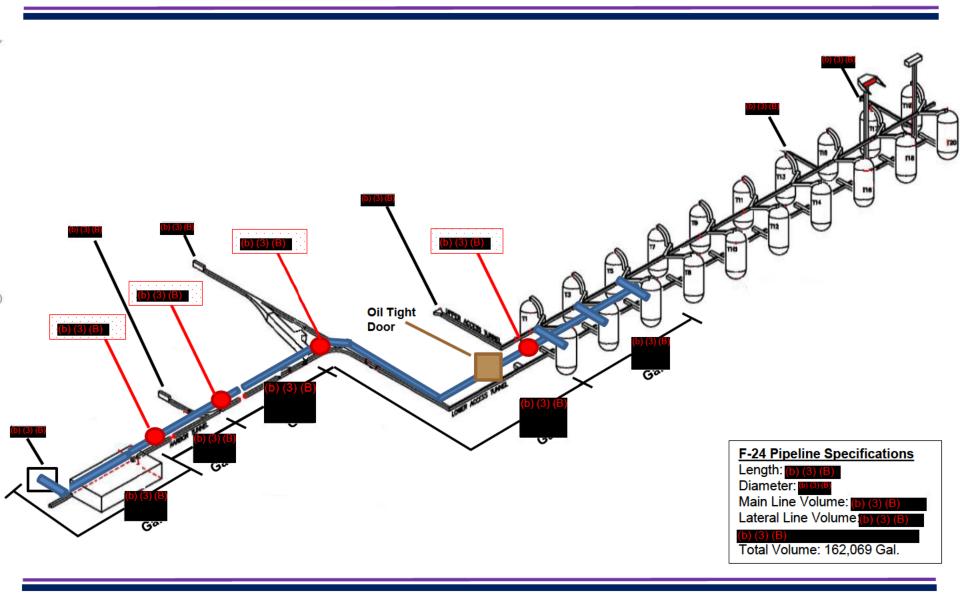
- Supervisor of the Watch (1)
- Control Room Operator (1)
- Asst. Control Room Operator (1)
- Work Supervisor (1)
- Work Leader (2)

- Pump Operator (1)
- Asst. Pump Operator (1)
- > Rovers (9)
- Independent Validators (3)
- Vacuum Truck Operator (1)

#### **Phase IV: Low Point Drain Transfer**



## F-24 Pipeline and Sectional Valve Volumes and Locations



# JP-5 Pipeline Unpacking Red Hill Concept of Operation (Date: TBD)

#### **Operations Summary**

#### Preparatory

- Phase I: Pre-Operation
- ➤ Phase II: Valve Maintenance/Op Check/Pressure Equalization Fuel Movement (Total ~216,480 Gallons)
- Phase III: Gravity Drain Down (~194,156 Gallons)
- Phase IV: Low Point Drain Transfer (~22,324 Gallons)

#### **Preparatory**

- Phase I: Pre-Operation
  - > Planning: Data Gathering, Maint. Order, OPORD, HAZOP Analysis
  - > Configuring: LOTO RH Tanks | Valves Listed in Baseline
  - > Training: To Maint. Order, OPORD, and Emergency Response
  - > Evolution Walkthrough: All Scheduled Watch-Standers
- Phase II: Valve Maintenance/Op Check/Pressure Equalization
  - Maintenance and Op Check: Grease and cycle (5) valves

  - Confirm Valve Alignment as identified in OPORD

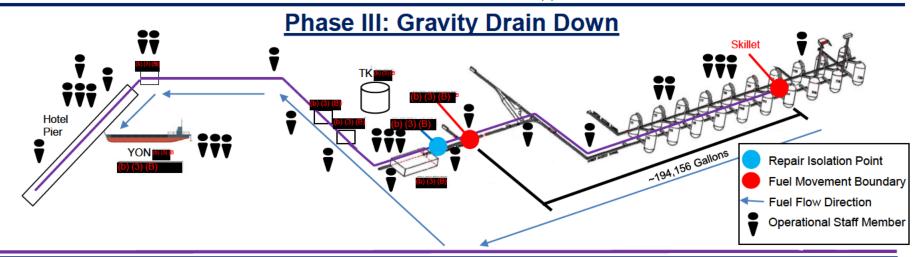
#### Fuel Movement

- Phase III: Gravity Drain Down (~194,156 Gallons)
  - > Evolution: Gravity Drain JP-5 line empty from Tank [6][8][6] Skillet to
  - > Transferring Location: To YON one at Hotel Pier
  - > YON OUR Ullage: 250,000 Gallons
  - Line Pressure Verification: Pressure Equalization during Phase II
    - Pressure confirmed day of via OPORD
    - > Open HPV at Tank (S) (S) Skillet to maintain ambient pressure
  - Gravity Flow Fuel: Maximum 100,000 gal/hr flow rate ~3 hrs
  - Return Valves to Baseline: In sequence from Hotel Pier to (b) (3) (B)
  - Return HPV Valves to Baseline

#### **Phase III Operational Staffing**

- Supervisor of the Watch (1)
- Control Room Operator (1)
- Asst. Control Room Operator (1)
- Work Supervisor (2)
- Work Lead (1)
- Pier PIC (1)
- Asst. Pier PIC (1)

- YON PIC (1)
- Asst. YON PIC (1)
- > YON Asst. (1)
- Vac Truck Operator (1)
- ➤ Independent Validators (2)
- Rovers (14)



# JP-5 Pipeline Unpacking Red Hill Concept of Operation (Date: TBD)

#### **Fuel Movement**

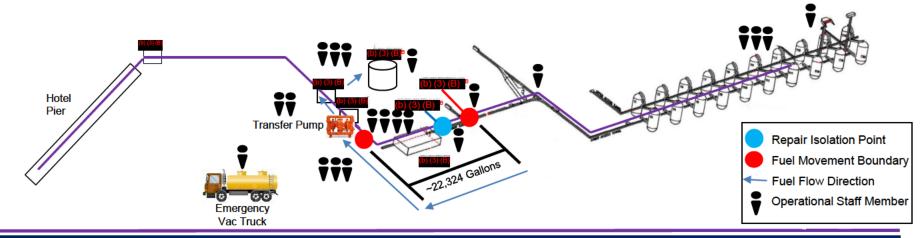
- Phase IV: Low Point Drain Transfer (~22,324 Gallons)
  - > Evolution: Pump JP-5 line empty from (b) (3) (B) to (0) (3) (B
  - Transferring Location:
    - 1) From LPD at (b) (3) (B) (to Transfer Pump)
    - > 2) From Transfer Pump to (b) (3) (B)
    - > 3) From (b) (3) (B) (to Tank (b) (3) (6)
  - Tank Office Ullage: 60,000 Gallons
  - Line Pressure Verification: Pressure Equalization during Phase II and III
    - Pressure confirmed day of via OPORD
    - > Open HPV at Tank | Skillet to maintain ambient pressure
  - ➤ Transfer Pump: Maximum 15,000 gal/hr flow rate
  - Transfer Time: ½ day
  - > Return Valves to Baseline: In sequence from Tankon to (b) (3) (B)
  - Return HPVs Valves to Baseline

#### Phase IV Operational Staffing

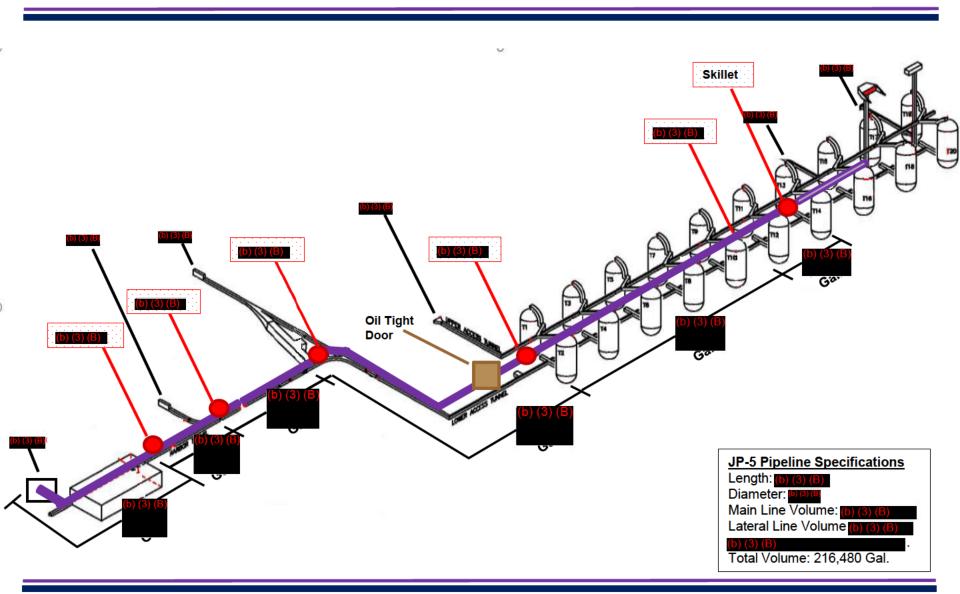
- Supervisor of the Watch (1)
- Control Room Operator (1)
- > Asst. Control Room Operator (1)
- Work Supervisor (1)
- Work Leader (2)

- Pump Operator (1)
- Asst. Pump Operator (1)
- Rovers (9)
- Independent Validators (3)
- Vacuum Truck Operator (1)

#### Phase IV: Low Point Drain Transfer



## JP-5 Pipeline and Sectional Valve Volumes and Locations



# F-76 Pipeline Unpacking Red Hill Concept of Operation (Date: TBD)

#### Operations Summary

#### Preparatory

- Phase I: Pre-Operation
- Phase II: Valve Maintenance/Op Check/Pressure Equalization

Fuel Movement (Total ~691,128 Gallons)

- Phase III: Gravity Drain Down (~622,979 Gallons)
- Phase IV: Low Point Drain Transfer (~68,149 Gallons)

#### **Preparatory**

- Phase I: Pre-Operation
  - ➤ Planning: Data Gathering, Maint. Order, OPORD, HAZOP Analysis
  - Configuring: LOTO RH Tanks (1000) Valves Listed in Baseline
  - Training: To Maint. Order, OPORD, and Emergency Response
  - Evolution Walkthrough: All Scheduled Watch-Standers
- Phase II: Valve Maintenance/Op Check/Pressure Equalization
  - > Maintenance and Op Check: Grease and cycle valves
  - Line Pressure Verification: Equalize pipeline to atmospheric pressure by opening HPV at Line End
  - > Confirm Valve Alignment as identified in OPORD

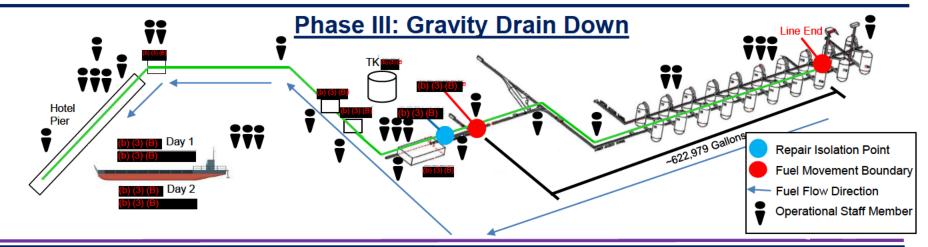
#### **Fuel Movement**

- ➤ Phase III: Gravity Drain Down (~622,979 Gallons)
  - Evolution: Gravity Drain F-76 line empty from Line End to (3) (3) (8)
  - ➤ Transferring YON Day 1: To YON proper at Hotel Pier (~250,000 Gallons)
  - ➤ Transferring YON Day 2: To YON at Hotel Pier (~372,979 Gallons)
  - > YON OTHE Ullage: 500,000 Gallons
  - Line Pressure Verification: Pressure Equalization during Phase II
    - Pressure confirmed day of via OPORD
    - Open HPV at Line End to maintain ambient pressure
  - ➤ Gravity Flow Fuel: Maximum 100,000 gal/hr flow rate ~2 days
  - > Return Valves to Baseline: In sequence from Hotel Pier to (b) (3) (B)
  - Return HPV Valves to Baseline

#### **Phase III Operational Staffing**

- Supervisor of the Watch (1)
- Control Room Operator (1)
- Asst. Control Room Operator (1)
- Work Supervisor (2)
- Work Lead (1)
- Pier PIC (1)
- Asst. Pier PIC (1)

- YON PIC (1)
- Asst. YON PIC (1)
- YON Asst. (1)
- Vac Truck Operator (1)
- Independent ∀alidators (2)
- Rovers (14)



# F-76 Pipeline Unpacking Red Hill Concept of Operation (Date: TBD)

#### **Fuel Movement**

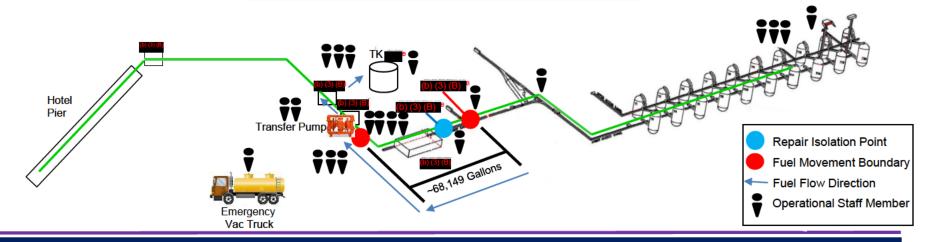
- ➤ Phase IV: Low Point Drain Transfer (~68,149 Gallons)
  - > Evolution: Gravity Drain F-76 line empty from (b) (3) (B) to (b) (3) (B)
  - Transferring Location:
    - > 1) From LPD at (b) (3) (B) (to Transfer Pump
    - > 2) From Transfer Pump to (b) (3) (B)
    - > 3) From (b) (3) (B) Tank (0) (3) (6)
  - ➤ Tank Ullage: 100,000 Gallons
  - ➤ Line Pressure Verification: Pressure Equalization during Phase II and III
    - Pressure confirmed day of via OPORD
    - > Open HPV at Line End to maintain ambient pressure
  - > Transfer Pump: Maximum 15,000 gal/hr flow rate
  - Transfer Time: day
  - > Return Valves to Baseline: In sequence from Tank (a) (3) (3) (B)
  - Return HPVs Valves to Baseline

#### Phase IV Operational Staffing

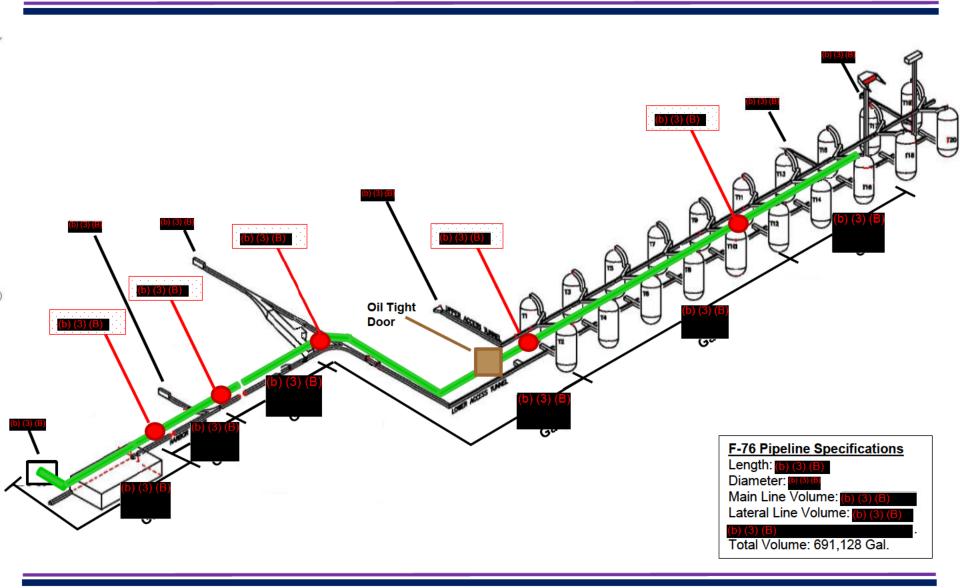
- Supervisor of the Watch (1)
- Control Room Operator (1)
- Asst. Control Room Operator (1)
- Work Supervisor (1)
- ➤ Work Leader (2)

- Pump Operator (1)
- Asst. Pump Operator (1)
- Rovers (9)
- Independent Validators (3)
- Vacuum Truck Operator (1)

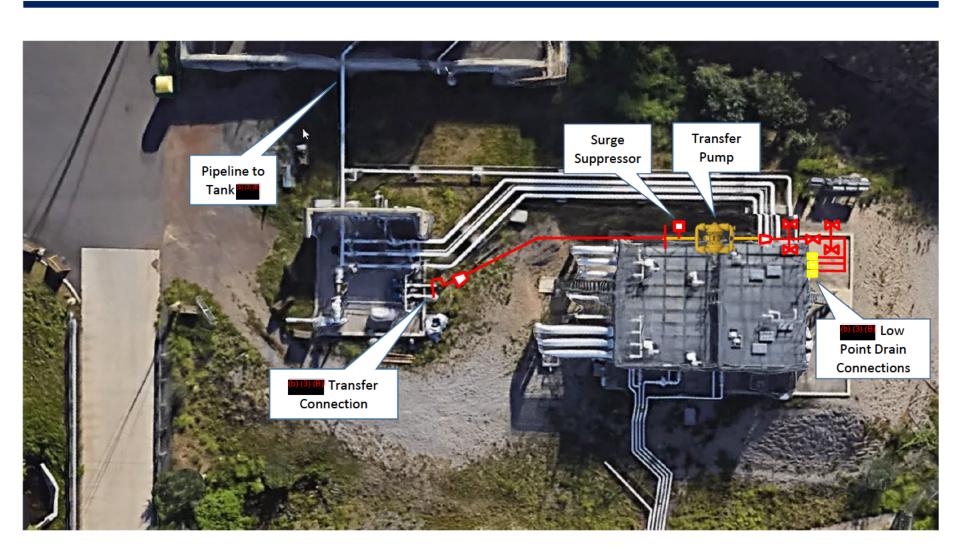
#### **Phase IV: Low Point Drain Transfer**



## F-76 Pipeline and Sectional Valve Volumes and Locations



## **Aerial View of Low Point Drain Transfer Footprint**



Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor** 

#### Maintenance Order

Red Hill F-24 Line Equalization and Maintenance Order Doc #: UM01 Rev No. 1

**Maintenance Order** 

Effective Date: 9/26/2022

Reviewed By: (b) (6) — (b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) - Deputy Fuels Director

Digitally signed by (b) (6)
Date: 2022.09.27 20:04:00 -10'00'

Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### Maintenance Order

#### Red Hill F-24 Line Equalization and Maintenance Order

Doc #: UM01 Rev No. 1

**Maintenance Order** 

Effective Date: 9/26/2022

Requested Start Date: 10/3/2022 Estimated Work Time: 4 hrs Severity: Routine

**Operations Support Needed:** No / Yes: Equalize F-24 Line / Return Sectional Valves to Baseline

Operations Scheduling Needed: None / Impact / Blackout: Red Hill to 101(3)(B) F-24 LOTO

#### **MAINTENANCE ORDER**

- 1. This Maintenance Order ONLY details **Phase 2**, **Equalization and Valve Maintenance** of the 'F-24 Unpacking Process'.
- DFSP JBPHH conducts equalization on the Red Hill F-24 pipeline to support the maintenance greasing, cycling, and PM work on the sectional valves.

WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

#### REFERENCES

- Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- UFC 3-460-03, United Facilities Criteria, Operations and Maintenance: Maintenance Petroleum Fuel Facilities
- 3. NAVSUPINST 5100.12B, Control of Hazardous Energy Procedure (LOTO/ECP)
- 4. Mechanical Integrity Procedure

#### **ENCLOSURES**

Enclosure (1): ECP

Enclosure (2): WAF: To be completed

Enclosure (3): PM Job Orders: To be completed Enclosure (4): F24 HPV Elevation Calculation

# Authored By: (b) (6) Doc Custodian: Fuels Department Approved By: LCDR (b) (6) Date Approved: 09/26/2022 DIFSP Pearl Harbor Maintenance Order Red Hill F-24 Line Equalization and Maintenance Order Effective Date: 9/26/2022

#### MAINTENANCE ORDER START

SECTION 1 – MUSTER

#### 

Zone Assignment	Personnel Assignments	Name	Call Sign
	Lead Authorized Person(LAP)		
	Maintenance Controller(MC)		
	Maintenance Personnel(MP)		
	Maintenance Supervisor(MS)		
	Operations Supervisor(OS)		
	Operations Personnel(OP)		
	CRO		
	Assistant CRO		

#### **SECTION 2 – PRE-BRIEF**

<u>DATE TIME INITIALS</u>

#### 

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### **Maintenance Order**

#### Red Hill F-24 Line Equalization and Maintenance Order

Doc #: UM01	
Rev No. 1	

**Maintenance Order** 

Effective Date: 9/26/2022

#### **SECTION 3 – WATCH TEAM BRIEF**

<u>DATE</u>	<u>TIME</u>	INITI	<u>ALS</u>	
	/	/	_50.	LAP: Lead the brief in the Maintenance Control Room to include:
				ECP review
				WAF review
				Maintenance Order
				Operations Involvement
	/	/	60.	MC: Administrate Documents, Provide Locks, and Post WAF.
	/	/	70.	MP: Confirm and Sign ECP and WAF.
	/	/	_80.	<b>OS/MS:</b> Confirm personnel assignments, scheduling, and operations requirements.
	/	/	90.	CRO: Confirm readings and information accuracy:
				Flow Path – is accurate and no *oos* notes in AFHE
				MOV Isolation – MOVs indicated in ECP not part of separate LOTO, and actuation will not interfere with simultaneous operations
				AFHE Involvement – Confirm AFHE ability to support order
				Approximate duration – Confirm scheduling and control of simultaneous operations will not overburden Control Room
SECT	TION	4 – PI	RE-C	CHECK
<b>DATE</b>	TIME	INITI	ALS	
	/	/	_100.	LAP: Walk and view piping and isolation points, confirming ECP.
	/	/	110.	MC: Walk and view piping and isolation points, confirming ECP.

#### Attach & Review ECP and ECP drawings to this order.

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### **Maintenance Order**

## Red Hill F-24 Line Equalization and Maintenance Order

Doc #: UM01	
Rev No. 1	

**Maintenance Order** 

Effective Date: 9/26/2022

#### **SECTION 5 – ISOLATING AND LOTO**

DATE	TIME	<u>INITIALS</u>	
	/	/120.	LAP: Verify ECP Valve Configuration and Hang Equipment Locks & Tags.
	/	130.	LAP/MP: Install Locking Devices and Tags per ECP.
	/	/140.	LAP: Review Locks, Tags, and Isolation Devices.
	/	150.	LAP: Sign and Post WAF and ECP package at job site.
	/	/160.	OP: Vent F-24 Line:
			Install Compound Pressure Gauge assembly at (b) (3) (B)
			Open (b) (3) (B) , keeping the Pressure Gauge assembly valve closed. Should see pressure decrease here slightly
			Verify Gauge is reading psig
			Very Slowly Open Pressure Gauge assembly valve – NOTE: May hear air suck into pipe
			Wait for pressure to equalize
	/	/170.	<b>OP:</b> Close (b) (3) (B)
		6 – UNDE <u>initials</u>	RGOING MAINTENANCE
	/	/180.	MP: Complete assigned PM and Job Orders.

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### DFSP Pearl Harbor

#### **Maintenance Order**

#### Red Hill F-24 Line Equalization and Maintenance Order

oc #: UM01 v No. 1
Maintenance Order

Effective Date: 9/26/2022

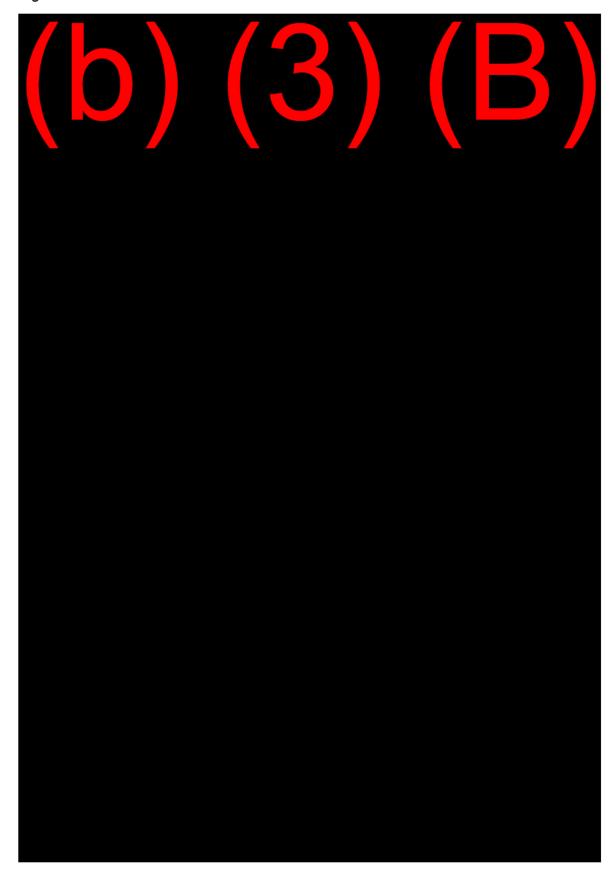
#### REVISION HISTORY

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date

### ENERGY CONTROL PROCEDURE (ECP) FORM

Energy Control Procedure NoDDF24 Lockbox No3         Page _1 of1											
										Date:	
Location and WAF Number			Red Hill			Job Lock Key Custodian (Maintenance Controller)					
							(b) (6)				
Equipment ID/ Description				F24 Head	F24 Header and Laterals		Change				
Job Descri	intion			1 - /T - /£1		f F2.4	Change	Fro	m	То	Date/Time
Job Descri	iption			Header D	owpath only)	for F24	Change	Fro	m	То	Date/Time
Lead Auth	orized Em	ployee		(b) (6)	railling			110		10	Butter Time
				(5)							
		Auth			all Affected Per ps below and p						
			Lock				Т				
LOTO	- 1	Valve	and/or	Isolation	LOTO	Lock Tag			LOTO		Comments
Isolation	n N	umber	tag	Position	Installed	Try	Remo		Removed	1	
Date			Number and Blind	(Open or Closed)	Ву	(Y/N)	Dat	e	Ву		
			Number	,							
9/15/22	(b)	(3) (B)	F24-B1	Closed	RTB	Υ					
9/16/22			F24-B2	Closed	RTB	Υ					
9/13/22			F24-1	Closed	RTB	Υ					
9/13/22			F24-2	Closed	RTB	Υ					
9/13/22			F24-3	Closed	RTB	Υ					
9/13/22			F24-4	Closed	RTB	Υ					
9/13/22			F24-5	Closed	RTB	Υ					
9/13/22			F24-6	Closed	RTB	Υ					
9/13/22			F24-7	Closed	RTB	Υ					
9/13/22			F24-8	Closed	RTB	Υ					
9/13/22			F24-9	Closed	RTB	Υ					
Prehung	3		F24-10	Closed							Valve (Lock after cking)
Prehung	5		F24-11	Closed						Lock	after unpacking
						<u> </u>					
By printing my name in the box below, I signify that all stored energy is dissipated. All isolation points are in the proper position and my personal lock has been attached to either an individual lockout tagout device or group lockbox.											
Print Auth	Print Authorized Employee Name and Company Write on the back if necessary										
1						4					
2						5					
3						6					





F24 HP\	V Elevation Calculation	8/5/2022
Problem: I at Tanks 7	Determine if HPV on the lateral line at Tank is above the expected fuel level at the F24 line 1/8?	skillet blind
Reference	e Point: Top Dead Center (TDC) of the F24 line below the lateral line at Tanks.	
Solution:	Determine height of HPV on the lateral line at Tank above the Reference Point. Estimate height of fuel level at the F24 line skillet blind at Tanks compare the two heights to ensure HPV is above estimated fuel level. Validate results using lazer level and tape measure.	
Step 1.	Determine height of HPV on the lateral line at Tank above the Reference Point.	
	Using 25' tape measure, the top of the HPV is approximately above the lateral line at Ta The diameter of the lateral line at Tank is is lateral line at Tank is lateral line at Tank is lateral line at Tank is lateral line to the Reference approximately lateral line to the Reference approximately	-
	Height (ft) of the HPV on the lateral line at Tank above the Reference Point:.	(b) (3) (ē
Step 2.	Estimate height of fuel level at the F24 line skillet blind at Tanks end.	
	Using the same reference point (TDC of the F24 line below the lateral line at Tanks The slope of the F24 line throughout the Red Hill Tank Gallery is 1.7 % (see below)	
	Recorded elevation at Tanks (b) (3) (6)  Recorded elevation at Tanks (b) (3) (6)  Recorded elevation at Tanks (b) (3) (6)  Distance between Tanks (a) (a) (b) (3) (b)  Feet above mean sea level (b) (3) (B)  Feet (b) (3) (B)	
	Average slope of the F24 line:	
	Distance (feet) between Reference Point and F24 line skillet blind at Tanks	(b) (3) (B)
	Height (feet) of expected fuel level at the F24 line skillet blind at Tanks expected.	(b) (3) (Ē
Step 3.	Compare the two heights to ensure HPV is above estimated fuel level.	(b) (3) (B)
Step 4.	Validate results using lazer level and tape measure.	
	A lazer level was attached to a step ladder and energized creating two horizontal beams throughout the tunnel.  Using 25' tape measure, the distance (ft) from the top of the HPV down to the lazer beam was measured:  Using 25' tape measure, the distance (ft) from the bottom of the F24 line skillet blind down to the lazer beam was measured:	(5) (5) E

The diameter of the F24 line is (b) (3) (B), so the distance from the top of the F24 line to the lazer beam is:

Height (feet) of expected fuel level at the F24 line skillet blind at Tanks

Notes:

Although calculation and measurement may show that the HPV is below the expected fuel level at the F24 line skillet blind, the F24 line is currently OPEN to the UGPH and pressure indication shows the line is currently under vacuum. A vacuum condition at the F24 line skillet blind would mean the level of the fuel at that point is less than full, maybe significantly less. It is recommended to use the HPV to vent the line, however preparations should be made to prevent any spillage at the HPV from reaching the environment or impacting personnel.

Source of Errors:

Lazer level was reportedly accurate to however it was readable to the full (b) (3) (B).

Meaurements taken by tape measure from the ground are likely to be +/- 1/4".

Recorded elevations were assumed to be accurate and not checked.

Authored By (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

**Operations Order** 

RH F-24 Unpacking to (b) (3) (B) with

Doc #: U001 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director



Digitally signed by

Date: 2022.09.27 20:10:32

-10'00'

Authored By: (b) (6)

Doc Custodian: Fuels
Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

DIFSP Pearl Harbor Recurring
Operations Order
RH F-24 Unpacking to (b) (3) (B) with
Diff(3) (B)

Effective Date: 09/26/2022

EVOLUTION START DATE:
CONTROL ROOM INITIALS (MASTER COPY):
FIELD COPY INITIALS:

#### **EVOLUTION ORDER**

- 1. This Operations Order ONLY details Phase 3, Gravity Drain, of the 'F-24 Unpacking Process'.
- 2. DFSP JBPHH conducts unpacking operations from the <u>Red Hill F-24 Pipeline</u> to (b) (3) (B) vacate F-24 pipeline of ~144,362 gallons.
- 3. (b) (3) (B) in (b) (3) (B) will be used to drain down.

Issue Source	Receipt Tank	Volume(Gal)	Deputy Director of Fuels Initial
RH F-24 Pipeline	(b) (3) (B)		

WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

#### REFERENCES

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- MIL STD 3004-1: Department of Defense Standard Practice Quality Assurance for Bulk Fuels, Lubricants and Related Products
- 3. Integrated Contingency Plan (ICP), Date August 2018

#### **ENCLOSURES**

Enclosure (1): Flow Diagram

## <u>Operations Order</u>

RH F-24 Unpacking to (b) (3) (B) with

Doc #: U001
Rev No. 2

Unpack Operating Order

Effective Date: 09/26/2022

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### OPERATIONAL ORDER START

CAUTION: If a deviation or modification is needed in this order, the CRO must obtain proper approval for the change following the <a href="Change Request Form">Change Request Form</a> at the rear of this document.

**NOTE:** A valve baseline must be conducted prior to the execution of this Operations Order.

#### SECTION 1 – MUSTER

#### <u>DATE TIME INITIALS</u>

Zone Assignment	Personnel Assignments	Name	Call Sign
Control Room	SoW		
Control Room	PRL CRO		
Control Room	PRL Assistant CRO		
HCK Pumphouse	HCK Pumphouse Operator		
(b) (3) (B) PH	Work Lead Pearl		
HCK Pumphouse	Work Supervisor Hickam		
TK Lateral	Work Supervisor Red Hill		
TK HPV	Work Lead Read Hill		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 RH TK THPV		
Zone 3	Rover #3 RH (b) (3) (B)/TK		
Zone 4	Rover #4 (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
	(b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B) PH		
Zone 10	Rover #10 (b) (3) (B) Pipeline		
Zone 11	Rover #11 (b) (3) (B)		
Zone 12	Rover #12 (6) (3) (6)		
Zone 13	Hickam Rover (All Areas)		
TK HPV/TK	RH Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
HCK Pumphouse	Hickam Independent Validator		

Authored By: (b) (6)	
Doc Custodian: Fuels Department	

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

## DFSP Pearl Harbor Recurring

#### **Operations Order**

RH F-24	Unpacking to	(b)	(3)	(B)	with
	(b) (3) (B)				

Doc #: U001
Rev No. 2

Unpack Operating Order

Effective Date: 09/26/2022

#### **SECTION 2 – PRE-BRIEF**

DATE .	<u> 1 IIVIE</u>	11111	IALS	
/		/	20.	<b>SoW:</b> Confirm the following procedures are complete IOT conduct Phase 3: F-24 Pipeline Drain Down:
				Phase 2: Maintenance Order/Pressure Equalization has been completed and operating conditions are acceptable to proceed.
				Baseline Operations Orders is completed and validated accurate.Doc#U001A/B
/		/	_30.	WS: Assign required personnel needed for this Operations Order.
/		/	40.	CRO: Verify following procedures are complete:
				Valve baseline matches current AFHE configuration
				SDS and ICP on-hand and updated
				Ensure ullage in receiving tank (b) (3) (B) is greater than 178,276 gallons for transfer. (110% total)

**NOTE:** If there is a discrepancy from the AFHE to the last manual gauge that is +/- 3/16", inform SoW before proceeding, Hickam Rover shall manually top gauge tank prior to conducting transfer operation.

Receiving Tank	Start Level (Ft/In)	Start Ullage (Gal)	CRO Initials	Assistant CRO Initials	Time
(b) (3) (B)					

HCK Tank	High Op Limit Level (Ft/In)	High Op Limit Level (Gal)
(b) (3) (B)	(b) (3) (B)	(b) (3) (B)

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6

## **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to (b) (3) (B) with

Doc #: U001 Rev No. 2

**Unpack Operating Order** 

Date Approved: 09/26/202	22				Effective Date:	09/26/2022	
/	50.	PRL/RH WL: Have the following required paperwork on-hand:					
		Operation Orde	Operation Order				
		C700 Operation	ns Notification Flow Ch	art			
		(b) (3) (B) meter ca	alibration paperwork – v	ıp to date	e		
/	50.	CRO: Prepa	<b>CRO:</b> Prepare/provide the following required paperwork:				
		Tank Inventory Control Daily Levels					
		□ Running Gauge Record					
		Transfer Recor	d				
		Verify (b) (3) (B)	neter is operational and	connecte	ed in AFHE.		
	☐ Verify the (b) (3) (B) current pressure rating.						
_						1	
		PIT # PIT Reading (PSI) Time					

CAUTION: Follow all Safety and Environmental protection. Pipeline Pressure: Less than (6) (8) (8) psig in the (b) (3) (B)(b) (3) (B)), corresponds to vacuum forming in the Red Hill Tank Gallery Pipeline. PIT pressures will be documented and reported to the Supervisor of the Watch

CAUTION: Follow all Safety and Environmental protection. Pipeline Pressure: Less than psig in the (b) (3) (B)(b) (3) (B)), corresponds to dangerous vapor bubble formed in the Red Hill Tank Gallery Pipeline. PIT pressures will be documented and reported to the Supervisor of the Watch

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

## DFSP Pearl Harbor Recurring

#### **Operations Order**

RH F-24 Unpacking to	( <mark>b)</mark>	(3)	(B)	with
(b) (3) (B)				

Doc #: U001 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### **SECTION 3 – WATCH TEAM BRIEF**

#### <u>DATE TIME INITIALS</u>

 _/	/	70.	<b>SoW:</b> Lead the brief in the 1757 Meeting Room to include:
			Operational Procedures/Priorities
			Operational Expectations
			Integrated Contingency Plan
/	/	80.	SoW: Step through operations order and address any questions.

#### **SECTION 4 - VALVE ALIGNMENT**

DATE TIME	<u>INITI</u>	<u>ALS</u>	
/	/	90.	<b>CRO:</b> Prior to <b>OPEN/CLOSE</b> any valves ensure the following procedures have been completed:
			Notify Station "C" by contacting (b) (6) and providing the following information:
			□ Pump HP
			☐ Approximate duration: <u>All Day</u>
			Ensure AFHE System is set for "Issue" Evolution.
/	/	100.	All Assigned Personnel: Report to their designated zones and conduct radio communications check with CRO.

Zone Assignment	Personnel Assignments	Call Sign	Report Time
Control Room	SoW		1
Control Room	PRL CRO		
Control Room	PRL Assistant CRO		
HCK Pumphouse	HCK Pumphouse Operator		
(b) (3) (B) PH	Work Lead Pearl		
HCK Pumphouse	Work Supervisor Hickam		
TK Lateral	Work Supervisor Red Hill		
TK O HPV	Work Lead Read Hill		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 RH TK HPV		
Zone 3	Rover #3 RH (b) (3) (B) TK (5)		
Zone 4	Rover #4 (b) (3) (B)		
Zone 5	Rover #5(b) (3) (B)		
Zone 6	Rover #6(b) (3) (B) (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b)(3)(B)(		
Zone 9	Rover #9 (b) (3) (B) PH		
Zone 10	Rover #10 (b) (3) (B) Pipeline		
Zone 11	Rover #11 (6) (3) (B)		
Zone 12	Rover #12 (6) (3) (B)		
Zone 13	Hickam Rover (All Areas)		
TK HPV/TK	RH Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
HCK Pumphouse	Hickam Independent Validator		

Authored By: (b) (6)	DFSP Pearl Harbor Recurring	Doc #: U001 Rev No. 2			
Doc Custodian: Fuels Department  Approved By: LCDR (6) (6)	Operations Order  RH F-24 Unpacking to (b) (3) (B) with	Unpack Operating Order			
Date Approved: 09/26/2022		Effective Date: 09/26/2022			
/	CRO: Request permission to start the F-24 I  ☐ CRO to SoW  ☐ SoW to Fuels Director  ☐ Fuels Director to Commanding Office				
/	<b>RH WL:</b> Confirm pressure at (b) (3) (B) is maintained between -16 and 5 psi on the compound pressure gauge throughout the operation.				
/130. <b>CRO:</b> Request <b>RH WL OPEN</b> (b) (3) (B)					

Authored By: (b) (6)	DFSP Pearl Harbor Recurring	Doc #: U001 Rev No. 2
Doc Custodian: Fuels Department  Approved By: LCDR (b) (6)	Operations Order  RH F-24 Unpacking to (b) (3) (B) with	Unpack Operating Order
Date Approved: 09/26/2022		Effective Date: 09/26/2022
/ / 140.	CRO: Use the table below to sequentially O	PEN and validate the valves

\_/\_\_\_\_\_\_140. using the "point and call" system. Rov/IV: Validate valve alignment in the field and report valve position per / / 150.

**CRO** point and call request.

Pearl Harbo Sequential	Valves Verified	Location	CRO	Assistant	Time
Number	OPEN	Location	Initials	CRO Initials	Time
1		\	mitiais	CRO Initials	/
2	(b) (3	) (B)			
3	(8)	, ( )			
4					/
5					/
6					/
7					/
8					/
9					/
10					/
11					/
12					/
13					/
14					/
15					/
					/
16					/
17					/
18					/
19					/
20					/
21					/
22					/
23					/
24					/
25					

1	(*)	ı T	eno:	tes	a	manua	l val	ve

NOTE:	CRO shall regulate (b) (3) (B)	in order to maintain pressure betwe	en <mark>90 -</mark>	- 100	psi

NOTE: Throttle-valves DO NOT isolate fuel flow.

<sup>(\*\*)</sup> Throttle-valve.

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

## DFSP Pearl Harbor Recurring Operations Order

(b) (3) (B)	RH F-24	Unpacking		(3)	(B)	with
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Doc #: U001
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Unpack Operating Order

Effective Date: 09/26/2022

#### Hickam Tank (6)(3)(8

\_\_\_\_\_/\_\_\_\_160. HCK WL/IV: OPEN the following valves and report to PRL CRO.

Sequential	Valves Verified	Location	CRO Initials	Assistant CRO	Time Rover			
Number	OPEN			Initials				
1	(b) (3)	(B)			/			
2					/			
(*) Denotes a manual valve.								

\_\_\_\_\_/\_\_\_\_170. HCK WL/IV: CLOSE the following valves and report to PRL CRO.

Sequential Number	Valves Verified  CLOSE	Location	CRO Initials	Assistant CRO Initials	Time Rover			
1	(b) (3) (E	3)			/			
(*) Denotes a manual valve.								

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

## DFSP Pearl Harbor Recurring

#### **Operations Order**

RH F-24 Unpacking to (b) (3) (B) with

	Doc #: U001 Rev No. 2
h	Unpack Operating Order

Effective Date: 09/26/2022

#### **SECTION 5 – DRAINING**

<u>DA</u>	TE TIMI	E INIT	TIALS						
	/	_/	180.	<b>CRO:</b> Request permission to start the F-24 Drain Down operation:					
				□ CRO to SoW					
				□ SoW to Fuels Director					
				☐ Fuels Director to Commanding Officer					
	/	_/	190.	CRO: Verify the following prior to proceeding:					
				☐ Verify Proper Valve Alignment					
				☐ HCK WL rea	dy to receive				
		_/	200.	Rov: Take sample	at (b) (3) (B)(				
	/	_/	210.	CRO: Slowly open	n <sup>(3) (8)</sup> to begin	transfer.			
	Sequential Number		es Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time		
	1	(b	) (3) (B) *	(b) (3) (B)			/		
(*) Denotes a manual valve.									
NOTE: Flow rate to not exceed 100,000 gallons per hour(gph) controlled by (b) (3) (B)									
	/								

Authored By: (b) (6)	
Doc Custodian: Fuels	

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

Department

DFSP Pearl Harbor Recurring

#### **Operations Order**

RH F-24 Unpacking to (b) (3) (B) with

Doc #: U001 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

Hour # (Time)	Current Tank Amount (Gal)	(b) (3) (B) Meter (Gal)	CRO Initials	Assistant CRO Initials
0( )				
.5 ( )				
1( )				
1.5 ( )				
2( )				
2.5 ( )				
3 ( )				

/\_\_\_\_\_/ \_\_\_\_\_240. CRO: Start Pump (b) (3) (B) at 1 and have all zones report their conditions

			States (Mater)
Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
Control Room	SoW		
Control Room	PRL CRO		
Control Room	PRL Assistant CRO		
HCK Pumphouse	HCK Pumphouse Operator		
(b) (3) (B) PH	Work Lead Pearl		
HCK Pumphouse	Work Supervisor Hickam		
TK Lateral	Work Supervisor Red Hill		
TK HPV	Work Lead Read Hill		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 RH TK HPV		
Zone 3	Rover #3 RH (b) (3) (B)/TK		
Zone 4	Rover #4 (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
	(b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (5) (3) (8)		
Zone 9	Rover #9 (b) (3) (B) PH		
Zone 10	Rover #10 (b) (3) (B) Pipeline		
Zone 11	Rover #11 (b) (3) (B)		
Zone 12	Rover #12 (6) (3) (B)		
Zone 13	Hickam Rover (All Areas)		
TK HPV/TK	RH Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
HCK Pumphouse	Hickam Independent Validator		

Authored By: (b) (6)	DFSP Pearl Harbor Recurring	Doc #: U001 Rev No. 2
Doc Custodian: Fuels Department	Operations Order  RH F-24 Unpacking to (b) (3) (B) with	Unpack Operating Order
Approved By: LCDR (b) (6)	(b) (3) (B)	
Date Approved: 09/26/2022		Effective Date: 09/26/2022
//250.	CRO/PRL WL: Monitor (0)(3)(6), Pump (b) (head and pump cavitation. NOTE: After ~14	4,362 gal, prepare for cavitation.
/260.	CRO/PRL WL: CRO gets low suction alarm shutoff Pump (b) (3) (B) and have WL verify t	± ±

#### SECTION 6 – RETURN TO BASELINE

#### DATE TIME INITIALS

#### Hickam Tank 11-1

\_\_\_\_\_/\_\_\_\_270. HCK WL/IV: CLOSE the following valves and report to PRL CRO.

Sequential Number	Valves Verified CLOSE	Location	CRO Initials	Assistant CRO Initials	Time Rover	
Number	CLOSE		шппата	CKO minais		
1	(b) (3)	(B)			/	
2		// (-/			/	
(*) Denotes a manual valve.						

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time Rover		
1	(b)(3)	(B)			/		
(*) Denotes a manual valve.							

Authored By: (b) (6)	DFSP Pearl Harbor Recurring	Doc #: U001 Rev No. 2
Doc Custodian: Fuels Department	Operations Order  RH F-24 Unpacking to (b) (3) (B) with	Unpack Operating Order
Approved By: LCDR (b) (6)	(b) (3) (B)	
Date Approved: 09/26/2022		Effective Date: 09/26/2022

Sequential	Valves Verified	Location	CRO	Assistant	Time Rover
Number	CLOSE		Initials	CRO Initials	
1	(h) (3)	$2 \setminus (D)$			/
2	(b) (3)				/
3					/
4					/
5					/
6					/
7					/
8					/
9					/
10					/
11					/
12					/
13					/
14					/
15					/
16					/
(*) Denotes	a manual valve.				

(\*) Denotes a manual valve.

(\*\*) Throttle-valve.

NOTE: Throttle-valves DO NOT isolate fuel flow.

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# DFSP Pearl Harbor Recurring Operations Order

RH F-24 Unpacking to	(b)	(3)	(B)	with
(b) (3) (B)				

Doc #: U001 Rev No. 2
Unpack Operating Order

Effective Date: 09/26/2022

310.	All assigned	personnel: R	eport zone	condition to	CRO.
------	--------------	--------------	------------	--------------	------

Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
Control Room	SoW		
Control Room	PRL CRO		
Control Room	PRL Assistant CRO		
HCK Pumphouse	HCK Pumphouse Operator		
(b) (3) (B) PH	Work Lead Pearl		
HCK Pumphouse	Work Supervisor Hickam		
TK Lateral	Work Supervisor Red Hill		
TK HPV	Work Lead Read Hill		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 RH TK HPV		
Zone 3	Rover #3 RH (b) (3) (B)/TK		
Zone 4	Rover #4 (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (5)(3)(6)		
Zone 9	Rover #9 (b) (3) (B) PH		
Zone 10	Rover $\#10$ (b) (3) (B) Pipeline		
Zone 11	Rover #11 (b) (3) (B)		
Zone 12	Rover #12 (5) (3) (6)		
Zone 13	Hickam Rover (All Areas)		
TK HPV/TK	RH Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
(b) (3) (B)	Pearl Independent Validator		
HCK Pumphouse	Hickam Independent Validator		

/	<b>RH WL/Rov:</b> Report the following procedures have been completed and report to <b>CRO</b> .
	(b) (3) (B) CLOSE
	TK Blank Flange Re-installed
/330.	CRO: Ensure the following are verified and will announce when complete:
	F-24 path utilized is back to baseline configuration
	"Issue" Evolution has ended on AFHE System

# Authored By: (b) (6) Doc Custodian: Fuels Department Approved By: LCDR (5) (6) Date Approved: 09/26/2022 DFSP Pearl Harbor Recurring Operations Order RH F-24 Unpacking to (b) (3) (B) with Di(3) (B) Effective Date: 09/26/2022

#### **SECTION 7 – CLOSEOUT**

DATE TI	ME INITIALS							
/340. <b>HCK WL/Rov:</b> Manually gauge receiving tank ~ one (1) hour after the final secure time of the F-24 operation and record final meter amount issued and report to <b>CRO</b> .								
Receiving Tank	Finish Level (Ft	/In)	Finish Level (Gal)	CRO Initials	Assistant CRO Initials	Time		
(b) (3) (B)	/-							
(b) (3) (B) meter	N/A							
/	/350. CRO/HCK WL: Verify the following documents are completed and turned in at the main building, Pearl Harbor: B1757 and Hickam: 2125 at the end of the day:							
		Pear	l Harbor:					
			FLC Fuel Form 703-18, Tra	ansfer Record				
			FLC Fuel Form 703-22, Ta	nk Inventory Co	ntrol Daily Levels			
			FLC Fuel Form 703-24, Ru	nning Gauge Re	cord			
		Hick	am:					
			FLC Fuel Form 703-18, Tra	ansfer Record				
			FLC Fuel Form 703-24, Ru	nning Gauge Re	cord			
			LCL 23-15 Pipeline Receip	ots (6) (8) (8) and (6) (3) (8)				
/	360.	So	W: Verify the following proc	edures have been	n completed:			
		☐ All procedures completed IAW OPORD						
		☐ Documentation is completed						
		All information/signature blocks on operation order are filled in.						
/	370.	So	<b>SoW:</b> Notify operational personnel that the operation is complete.					
/	/ 380.	So	SoW: Notify Fuels Director that the operation is complete.					

Authored By:	(b) (6)	

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to (b) (3) (B) with

Doc	#:	U001
Rev	No	2

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### OPERATIONS ORDER CLOSEOUT

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order.	

NOTE: If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

N	OTE: The Supervisory Distributive Facilities Specialist (SDFS) will pick all Opend of the day at the Control Room.	perations Orders up at the
	CRO	Date
•	The CRO to forward this procedure to the Supervisory Distributive Facilities Sp	pecialist.
_	Supervisory Distributive Facilities Specialist (SDFS)	 Date
	Supervisory Distributive Facilities Specialist (SDFS)	Date
•	The SDFS to forward this order to the Deputy Director of Fuels.	
_	Deputy Director of Evelo	Data
	Deputy Director of Fuels	Date

Authored By:	(b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to (b) (3) (B) with

Doc	#:	U	0	01
Rev	No	٥.	2	

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	1 of 8

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: (b) (6) — Deputy Fuels Director

(b) (6)

Digitally signed by
(b) (6)
Date: 2022.09.27 20:11:55 -10'00'



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	2 of 8

	EVOLUTION START DATE:
	CONTROL ROOM INITIALS (MASTER COPY):
	FIELD COPY INITIALS:
EVOLUTION ORDER	
	s F-24 unpacking operations from Red Hill to Pearl Harbor to provide Pipeline from Lower Tank Gallery Area to (6) (3) (6) with a fuel estimation
NOTE: This Operations Operations Orde	Order will provide the information to safely perform the following er
BASELINE – VALVI DATE TIME INITIALS	E ALIGNMENT VERIFICATION
	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	CRO validates motor operated valves (MOVs)
	☐ Comparison by AFHE in the baseline position to current positon, by writing in the "current position" of the valve with the time of validation
	Rover validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	3 of 8

Sequential			alve Baseline from RH to		
	Valves	Location	Baseline Position	Current Position	Time
Number	Verified		NODY CALLES OF COURT		
1	(b) (3	8) (B)	NORMALLY CLOSED		
2			NORMALLY CLOSED		
3			NORMALLY CLOSED		
4			NORMALLY CLOSED		
5			NORMALLY CLOSED		
6			NORMALLY CLOSED		
7			NORMALLY CLOSED		
8			NORMALLY CLOSED		
9			NORMALLY CLOSED		
10			NORMALLY CLOSED		
11			NORMALLY CLOSED		
12			NORMALLY CLOSED		
13			NORMALLY OPEN		
14			NORMALLY OPEN		
15			NORMALLY OPEN		
16			NORMALLY OPEN		
17			NORMALLY CLOSED		
18			NORMALLY CLOSED		
19			NORMALLY CLOSED		
20			NORMALLY CLOSED		
21			NORMALLY CLOSED		



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	4 of 8

23	o) (3) (B) NORMALLY CLOSED	<u>                                     </u>
	NORMALLY CLOSED	
24	NORMALLY CLOSED	
25	NORMALLY CLOSED	
26	NORMALLY CLOSED	
27	NORMALLY CLOSED	
28	NORMALLY OPEN	
29	NORMALLY CLOSED	
30	NORMALLY CLOSED	
31	NORMALLY CLOSED	
32	NORMALLY CLOSED	
33	NORMALLY CLOSED	
34	NORMALLY CLOSED	
35	NORMALLY CLOSED	
36	NORMALLY CLOSED	
37	NORMALLY CLOSED	
38	NORMALLY CLOSED	
39	NORMALLY CLOSED	
40	NORMALLY OPEN	
41	NORMALLY CLOSED	
42	NORMALLY CLOSED	
43	NORMALLY CLOSED	
44	NORMALLY CLOSED	
45	NORMALLY CLOSED	
46	NORMALLY CLOSED	



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	5 of 8

	MODMALLY CLOSED	
<sup>47</sup> (b) (3	NORMALLY CLOSED	
48	NORMALLY CLOSED	
49	NORMALLY CLOSED	
50	NORMALLY CLOSED	
51	NORMALLY CLOSED	
52	NORMALLY CLOSED	
53	NORMALLY OPEN	
54	NORMALLY OPEN	
55	NORMALLY OPEN	
56	NORMALLY OPEN	
57	NORMALLY OPEN	
58	NORMALLY OPEN	
59	NORMALLY OPEN	
50	NORMALLY CLOSED	
Denotes Manual Valve		



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	6 of 8

//	20. After completion of the Baseline Operations Order (OPORD):
	<ul> <li>CRO and Rover: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)</li> </ul>
	☐ CRO: Ensure Baseline OPORD is provide to SoW for validation at the Watch Team Brief
Validation Baseline	Inspection Completed by:
	Rover #1 (Print, Sign, Date)
	CRO (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
-	erations Order was completed with NO issues and NO changes, file should be the completed Operations Order box.

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	7 of 8

#### **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
NOTE: If the order required approved modification, the CRO to sign, date an and archiving.	d forward for final approval
NOTE: The Supervisory Distribution Facilities Specialist (SDFS) will pick at	1 Operations Orders up at the
end of the day at the Control Room.	r operations orders up at the
CRO	
CRO	Date
CRO     The CRO to forward this procedure to the Supervisory Distributive Facilities.	
The CRO to forward this procedure to the Supervisory Distributive Facilitie	s Specialist
The CRO to forward this procedure to the Supervisory Distributive Facilitie	s Specialist

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

Deputy Director of Fuels

Date



#### Operations Order Pearl Harbor F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001A
Revision No:	1.0
Page No:	8 of 8

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	1 of 9

Reviewed By: (b) (6) - (b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR(b) (6) - Deputy Fuels Director

(b) (6)

Digitally signed by

Date: 2022.09.27 20:12:34

-10'00'



#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	2 of 9

EVOLUTION START DATE:	
CONTROL ROOM INITIALS (MASTER COPY):	
FIELD COPY INITIALS:	

#### **EVOLUTION ORDER**

1. DFSP JBPHH conducts F-24 unpacking operations from Red Hill to Pearl Harbor to provide drain down of the F-24 Pipeline from Lower Tank Gallery Area to (b) (3) (B) with a fuel estimation of 144,362 gallons

**NOTE:** This Operations Order will provide the information to safely perform the following Operations Order

#### BASELINE – VALVE ALIGNMENT VERIFICATION

DATE TIME INITIALS	
	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	Hickam Pumphouse Operator and Work Supervisor validates all valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	3 of 9

F-24 Valve Baseline from APAD to HCK TK					
Sequential	Valves	Location	Baseline Position	Current Position	Time
Number	Verified				
1	(b) $(3)$	3) (B)	NORMALLY OPEN		
2	, , ,	, , ,	NORMALLY CLOSED		
3			NORMALLY CLOSED		
4			NORMALLY CLOSED		
5			NORMALLY CLOSED		
6			NORMALLY CLOSED		
7			NORMALLY OPEN		
8			NORMALLY OPEN		
9			NORMALLY CLOSED		
10			NORMALLY CLOSED		
11			NORMALLY CLOSED		
12			NORMALLY CLOSED		
13			NORMALLY OPEN		
14			NORMALLY OPEN		



#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	4 of 9

15	(b) (3) (B) NORMALLY OPEN
16	NORMALLY CLOSED
17	NORMALLY CLOSED
18	NORMALLY CLOSED (DEFAULT)
19	NORMALLY OPEN (DEFAULT)
20	NORMALLY OPEN
21	NORMALLY OPEN
22	NORMALLY CLOSED
23	NORMALLY OPEN
24	NORMALLY OPEN
25	NORMALLY OPEN



#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	5 of 9

26	(b) (3) (B) NORMALLY OPEN	
27	NORMALLY CLOSED	
28	NORMALLY OPEN	
29	NORMALLY CLOSED	
30	NORMALLY CLOSED	
31	NORMALLY CLOSED	
32	NORMALLY OPEN	
33	NORMALLY CLOSED	
34	NORMALLY OPEN	



#### Operations Order Hickam F-24 Pipeline **Drain Down Baseline OPORD** (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	6 of 9

35	(b) (3) (B)	NORMALLY OPEN	
36		NORMALLY OPEN	
37		NORMALLY OPEN	
38		NORMALLY OPEN	
(*) - Denotes	Manual Valva		

#### - Denotes Manual Valve

- 1. For HCK TK inter-dependent and must open or closed jointly.
- 2. For HCK TK inter-dependent and must open or closed jointly.
- 3. For (Return Line) (b) (3) (B) the new valve line up must be opened prior to closing the old valve line up



#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	7 of 9

/	20. After completion of the Baseline Operations Order (OPORD):
	☐ Hickam Pumphouse Operator and Work Supervisor: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)
	☐ CRO: Ensure Baseline OPORD is provide to SoW for validation at the Watch Team Brief
Validation Baseline	Inspection Completed by:
	Hickam Pumphouse Operator (Print, Sign, Date)
	Work Supervisor (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
1	erations Order was completed with NO issues and NO changes, file should be

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

NOTE: If the Operations Order was completed WITH issues or WITH changes, ensure the

modified copy in the Operations Order modified box

appropriate process was followed and signed off on for the change or issue. File this



#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U001B
Revision No:	1.0
Page No:	8 of 9

#### **Operations Order Closeout:**

Select the appropriate statement below

select the appropriate statement below	
Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
<b>NOTE:</b> If the order required approved modification, the CRO to sign, date and forward and archiving.	l for final approval
<b>NOTE:</b> The Supervisory Distribution Facilities Specialist (SDFS) will pick all Operation end of the day at the Control Room.	ons Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distribution Facilities Special	list
Supervisory Distribution Facilities Specialist (SDFS)	Date

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

The SDFS to forward this order to the Deputy Director of Fuels

**Deputy Director of Fuels** 

Date

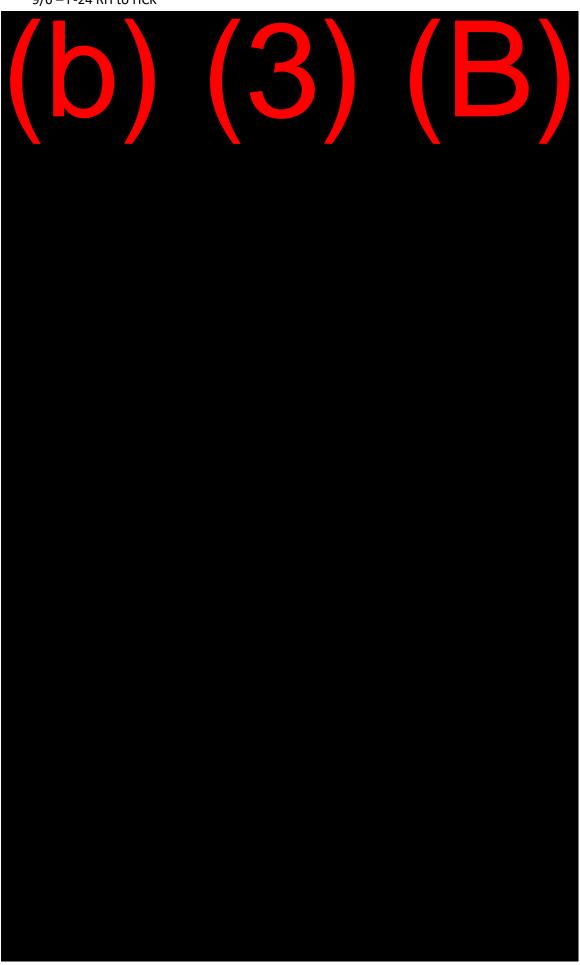


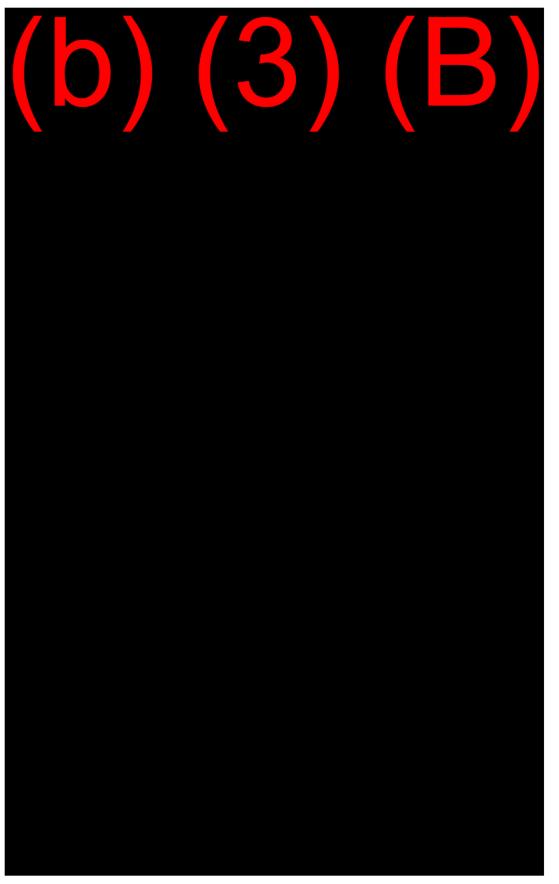
#### Operations Order Hickam F-24 Pipeline Drain Down Baseline OPORD (Date OCT22)

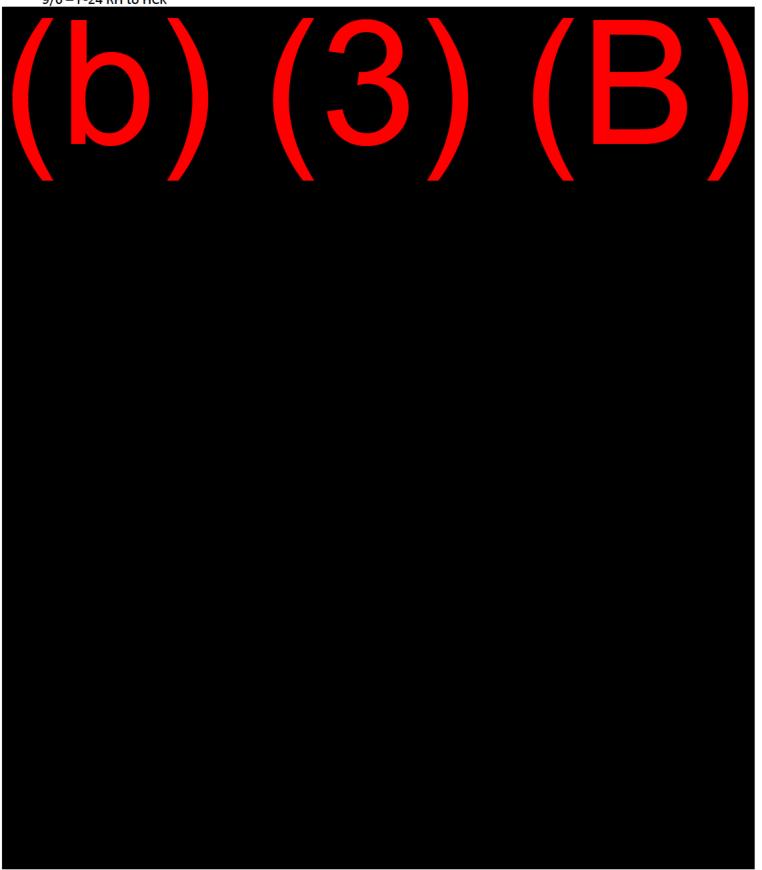
Document No:	U001B
Revision No:	1.0
Page No:	9 of 9

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date







Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 00/26/2022

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

Reviewed By: (b) (6) - (b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: LCDR (b) (6) - Deputy Fuels Director

Digitally signed by (b) (6)
Date: 2022.09.27 20:15:35 -10'00'

Authored By: (b) (6)

Doc Custodian: Fuels
Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# DFSP Pearl Harbor Recurring

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002
Rev No. 2

Suction Unpacking Low
Point Drain Transfer

Operations Order
Effective Date: 09/26/2022

DLUTION START DATE:	
TIALS (MASTER COPY):	CONTROL ROOM
FIELD COPY INITIALS:	

#### **EVOLUTION ORDER**

- This Operations Order ONLY details procedures for Phase 4, Suction Unpack, of the 'F-24 Unpacking Process.'
- 2. DFSP JBPHH conducts suction operations from the Red Hill F-24 Pipeline to Tank pipeline of ~17,707 gallons remaining to empty pipeline to (b) (3) (B).

Issue Source	Receipt	Volume/Quantity	Deputy Director of Fuels
	Tank	(Gals)	Initial
RH F-24 Pipeline	(b) (3) (B)		

WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

#### <u>REFERENCES</u>

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- MIL STD 3004-1: Department of Defense Standard Practice Quality Assurance for Bulk Fuels, Lubricants and Related Products
- 3. Integrated Contingency Plan (ICP), Date August 2018

#### **ENCLOSURES**

Enclosure (1): Flow Diagram

Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **OPERATIONS ORDER START**

CAUTION: If a deviation or modification is needed in this order, the CRO must obtain proper approval for the change following the <a href="Change Request Form">Change Request Form</a> at the rear of this document.

**NOTE:** A valve baseline must be conducted prior to the execution of this Operations Order.

#### **SECTION 1 – MUSTER**

#### DATE TIME INITIALS

Zone Assignment	Personnel Assignments	Name(s)	Call Sign
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Work Supervisor(VS-		
RH TK HPV	Work Lead RH (RH WL)		
(b) (3) (B) and (b) (3) (B)	Work Lead PH (PH WL)		
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Pump Operator (PO)		
$\frac{\text{(b) (3) (B)}}{\text{and}} \frac{\text{(b) (3) (B)}^3}{\text{and}}$	Assistant Pump Operator		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 RH TK HPV		
Zone 3	Rover #3 (b) (3) (B)		
Zone 4	Rover #4 (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (6) (3) (6)		
Zone 7	Rover #7(b) (3) (B) <sup>8</sup>		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 TK		
RH TK HPV	Independent Validator RH		
(b) (3) (B)	Independent Validator PH		
(b) (3) (B) <sup>B</sup>	Independent Validator PH		

#### Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### SECTION 2 - PRE-BRIEF

SECTION	2 – 1 KE-DK				
DATE TIME	E <u>INITIALS</u>				
/	_/20.	SoW: Confirm Pha and operating cond		n Operations Order has able to proceed.	been completed
/		WS/WL: Confirm Order.	and assign requi	red personnel needed fo	or this Operations
/	_/40.	CRO: Verify follo	owing AFHE read	ings:	
	□ V	alve baseline match	nes current AFHE	configuration	
		OS and ICP all on-l	nand and updated		
		llage in receiving ta otal)	ank <sup>orsto</sup> is greater	than ~19,478 gallons f	for transfer. (110%
Asset Location	Start Level (Ft/In)	Start Ullage (Gal)	CRO Initials	Assistant CRO Initials	Time
(D) (3) (B)					
		Lev		gh Op Limit evel (Gal)	
		ncy from the AFH for before proceeding		nual gauge that is +/- 3	3/16", inform Fuel
1	/ 50.	(b) (6) WS. Hove	the following rea	uired paperwork on ha	nd·
			the following req	uned paper work on ha	uu.
		peration Order	······································		
	□ C	700 Operations No	tification Flow Cl	art	

Authored By:	(b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DATE TIME INITIALS** 

### **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **SECTION 3 – WATCH TEAM BRIEF**

 _/	_/	_60.	<b>SoW:</b> Lead the brief in the 1757 Meeting Room to include:
			Operational Expectations
			Operational Priorities
			Integrated Contingency Plan (ICP), Date August 2018
/	/	70.	<b>SoW:</b> Step through operations order and address any questions.

#### Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

	mmunications check with CRO.	
Zone Assignment	Personnel Assignments	Report Time
Control Room	SoW	
Control Room	CRO	
Control Room	Assistant CRO	
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Work Supervisor VS-1C	
RH TK HPV	Work Lead RH	
(b) (3) (B) and (b) (3) (B) <sup>8</sup>	Work Lead PH	
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Pump Operator	
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Assistant Pump Operator	
Zone 1	Rover #1 Lower Tank Gallery	
Zone 2	Rover #2 RH TK HPV	
Zone 3	Rover #3 (b) (3) (B)	
Zone 4	Rover #4 (b) (3) (B)	
Zone 5	Rover #5 (b) (3) (B)	
Zone 6	Rover #6 (b) (3) (B)(	
Zone 7	Rover #7 (b) (3) (B) <sup>6</sup>	
Zone 8	Rover #8 (b) (3) (B)	
Zone 9	Rover #9 TK	
RH TK HPV	Independent Validator RH	
(b) (3) (B)	Independent Validator PH	
(b) (3) (B) <sup>8</sup>	Independent Validator PH	

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of
this document must ensure the current approved version of the document is being used and all field copies

☐ Inspect Pump, ensuring that pump is properly secured to prevent movement

☐ Confirm that compressor and pump are ready for operation

returned to the CRO at the end of the order.

Authored By:	o) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

#### **Operations Order**

RH F-24 Unpacking to via AODD Pump

Doc #: U002 Rev No. 2

> **Suction Unpacking Low** Point Drain Transfer **Operations Order**

Effective Date: 09/26/2022

/	/	100.	<b>RH WL:</b> Ensure pressure at the HPV is maintained between and psi or the compound gauge throughout the operation.
/	/	110.	RH WL: Request authorization to OPEN (b) (3) (B)
/	/	120.	RH WL: OPEN TK Flange to vent.
/	/	130.	<b>CRO:</b> Use the table below to sequentially <b>OPEN</b> and validate the valves using the "point and call" system.
/	/	140.	<b>Rov/IV:</b> Validate valve alignment in the field and report valve position per <b>CRO</b> point and call request.

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time
1	/h\ /9	\ (D)			/
2	(b) (3)				/
3		/ (			/
4					/
5					/
6					/
7					/
8					/
9					/
10					/
(*) Denotes	manual valves.				

#### NOTE: Throttle-valves DO NOT isolate fuel flow.

/	<b>CRO:</b> Use the table below to sequentially <b>OPEN</b> and validate the valves
	using the "point and call" system.

Rov/IV: shall sequentially OPEN and validate valve alignment in the field 160. and report valve position to CRO.

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time		
1	(h) (2	$\backslash \backslash D \backslash$			/		
2					/		
3					/		
4					/		
5							
(*) Denotes manual valves.							

<sup>(\*\*)</sup> Throttle-valve.

#### Authored By (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

## **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **SECTION 5 – TRANSFER PUMP SUCTION CYCLE**

/	/	170.	(b) (3) (b) WS: Complete the following procedures and report to the CRO:
			Connect/Confirm suction hose to (b) (8) (B) manifold and verify is properly secured
			Connect/Confirm drain hose to (b)(3)(B) manifold and verify is properly secured
/	/	180.	<b>CRO:</b> Request permission to start the F-24 Suction Unpacking operation:
			CRO to SoW
			SoW to Fuels Director
			Fuels Director to Commanding Officer
/		190.	CRO: Begin the "Receiving" Evolution on AFHE System to TK
/	/	200.	PO((b) (3) (B) WS: Start the pump
			$OPEN^{(b)(3)(B)}, (b)(3)(B)$
			OPEN (b) (3) (B) Manifold Valve
			<b>OPEN</b> (b) (3) (B), (b) (3) (B)
			Start the Compressor
			Slowly open air line valve – pump should begin to cycle – wait for pump to prime (discharge hose will begin to move)
			Continue opening air line valve until fully open and pump is at full speed
/	/	210.	PO(0) (3) (6) WS: Monitor pump for excessive vibration or loss of prime
/	/	220.	CRO: Monitor tank level for expected drain amount
/	/	230.	PO((b) (3) (B) WS: Stopping the pump
			Once tank level has reached desired transfer amount or only air is being pumped, stop the pump.
			Slowly close the air line valve
			Turn off the Compressor
			CLOSE (b) (3) (B), (b) (3) (B)
			CLOSE (b) (3) (5), Manifold Valve
			CLOSE (b) (3) (B) (b) (3) (B)

|--|

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DATE TIME INITIALS** 

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### SECTION 6 – RETURN TO BASELINE

#### 

Sequential	Valves Verified	Location	CRO	Assistant	Time
Number	CLOSE		Initials	CRO Initials	
6	(b) $(3)$	(R)			
7	(0)	) (D)			/
8					/
9					/
10					/
11					/
12					/
13					/
14					/
15					/
(*) Denotes	manual valves				

Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

/	 	_260.	All assigned personnel: Report condition of zone to CRO

Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
(b) (	3) (B)		
/	70. <b>RH WL:</b> Report the follo	owing procedures have	e been completed and report to
	□ (b) (3) (B) <b>CLOSE</b>		
	☐ TK Blank Flange RE-INS	TALLED	

280. CRO: Ensure the following procedures are completed and announce when complete:□ F-24 path utilized is back to baseline configuration

☐ "Receiving" Evolution has ended on AFHE System

#### Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **SECTION 7 – CLOSEOUT**

DATE TIM	ME INITIALS						
/	300.	(b	(3) (B) WS: Complete the follow	wing procedures	and report to the C	RO:	
		All	equipment is stowed away				
		Pun	np is secured				
/	310.		tov: Manually gauge receiving me of the F-24 operation and r			ecure	
Receiving Tank	Finish Level (Ft	/In)	Finish Level (Gal)	CRO Initials	Assistant CRO Initials	Time	
TK (1)(1)(1)							
/_	/320. CRO: Finalize the following documents are completed and turned in at the main building B1757 at the end of the day:						
			FLC Fuel Form 703-18, Tra	ansfer Record			
			FLC Fuel Form 703-22, Ta	nk Inventory Co	ntrol Daily Levels		
/	330.	S	<b>oW:</b> verify the following the fo	ollow procedures	s have been complete	ted:	
		All	All procedures completed IAW OPORD				
		Doc	Documentation is completed				
		All	All information/signature blocks on operation order are filled in				
/	/340.	S	SoW: Notify operational personnel the operation is complete.				
/	/350.	S	SoW: Notify the Fuels Director the operation is complete.				

Authored By:	(b) (6)
radiation and any.	$\langle -\rangle \langle -\rangle$

Doc Custodian: Fuels

Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to via AODD Pump

Doc #: U002 Rev No. 2

> **Suction Unpacking Low** Point Drain Transfer **Operations Order**

Effective Date: 09/26/2022

#### **OPERATIONS ORDER CLOSEOUT**

Select the appropriate statement below:

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order.	

NOTE: If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

end of the day at the Control Room.	perations Orders up at the
CRO	Date
CRO	Date
The CRO to forward this procedure to the Supervisory Distributive Facilities S	Specialist.
Supervisory Distributive Facilities Specialist (SDFS)	Date
The SDFS to forward this order to the Deputy Director of Fuels.	
Deputy Director of Fuels	Date

Authored By:	(b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-24 Unpacking to Pump via AODD

Doc #: U002 Rev No. 2

Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U002A
Revision No:	0.0
Page No:	1 of 8

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR(b) (6) – Deputy Fuels Director

Digitally signed by

(b) (6)

Date: 2022.09.27 20:16:32 -10'00'



#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U002A
Revision No:	0.0
Page No:	2 of 8

	EVOLUTION START DATE:
	CONTROL ROOM INITIALS (MASTER COPY):
	FIELD COPY INITIALS:
EVOLUTION ORDER	
	s F-24 unpacking operations from Red Hill to Pearl Harbor to provide Pipeline from (b) (3) (B) Area to (b) (3) (B) with a fuel estimation of 18,349
NOTE: This Operations Operations Ord	Order will provide the information to safely perform the following er
BASELINE – VALVI DATE TIME INITIALS	E ALIGNMENT VERIFICATION
	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	CRO validates motor operated valves (MOVs)
	☐ Comparison by AFHE in the baseline position to current positon, by writing in the "current position" of the valve with the time of validation
	Rover validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U002A
Revision No:	0.0
Page No:	3 of 8

Sequential Number   Verified   Location   Baseline Position   Current Position   Time	F-24 Valve Baseline via AODD Pump RH to TK					
1 (b) (3) (B) NORMALLY CLOSED  NORMALLY OPEN  14  NORMALLY OPEN  NORMALLY OPEN  NORMALLY OPEN  NORMALLY OPEN  NORMALLY OPEN  NORMALLY CLOSED  NORMALLY CLOSED						Time
NORMALLY CLOSED		Verified		NORMAL TARGET COMP.		
3	1	(b) (3	B) (B)	NORMALLY CLOSED		
4	2			NORMALLY CLOSED		
S	3			NORMALLY CLOSED		
NORMALLY CLOSED	4			NORMALLY CLOSED		
NORMALLY CLOSED	5			NORMALLY CLOSED		
NORMALLY CLOSED	6			NORMALLY CLOSED		
NORMALLY CLOSED	7			NORMALLY CLOSED		
10	8			NORMALLY CLOSED		
11       NORMALLY CLOSED         12       NORMALLY CLOSED         13       NORMALLY OPEN         14       NORMALLY OPEN         15       NORMALLY OPEN         16       NORMALLY OPEN         17       NORMALLY CLOSED         18       NORMALLY CLOSED         19       NORMALLY CLOSED         NORMALLY CLOSED         NORMALLY CLOSED	9			NORMALLY CLOSED		
12       NORMALLY CLOSED         13       NORMALLY OPEN         14       NORMALLY OPEN         15       NORMALLY OPEN         16       NORMALLY OPEN         17       NORMALLY CLOSED         18       NORMALLY CLOSED         19       NORMALLY CLOSED         NORMALLY CLOSED         NORMALLY CLOSED	10			NORMALLY CLOSED		
13   NORMALLY OPEN     14   NORMALLY OPEN     15   NORMALLY OPEN     16   NORMALLY OPEN     17   NORMALLY CLOSED     18   NORMALLY CLOSED     19   NORMALLY CLOSED     20   NORMALLY CLOSED	11			NORMALLY CLOSED		
NORMALLY OPEN  15  NORMALLY OPEN  16  NORMALLY CLOSED  18  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED	12			NORMALLY CLOSED		
NORMALLY OPEN  16  NORMALLY CLOSED  18  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED	13			NORMALLY OPEN		
16 NORMALLY OPEN  17 NORMALLY CLOSED  18 NORMALLY CLOSED  19 NORMALLY CLOSED  20 NORMALLY CLOSED	14			NORMALLY OPEN		
17  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED	15			NORMALLY OPEN		
NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED	16			NORMALLY OPEN		
NORMALLY CLOSED  NORMALLY CLOSED	17			NORMALLY CLOSED		
NORMALLY CLOSED	18			NORMALLY CLOSED		
	19			NORMALLY CLOSED		
NORMALLY CLOSED	20			NORMALLY CLOSED		
	21			NORMALLY CLOSED		



#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U002A
Revision No:	0.0
Page No:	4 of 8

22	(b) (3) (B) NORMALLY CLOSED  NORMALLY CLOSED	
23	NORMALLY CLOSED	
24	NORMALLY CLOSED	
25	NORMALLY CLOSED	
26	NORMALLY CLOSED	
27	NORMALLY CLOSED	
28	NORMALLY OPEN	
29	NORMALLY CLOSED	
30	NORMALLY CLOSED	
31	NORMALLY CLOSED	
32	NORMALLY CLOSED	
33	NORMALLY CLOSED	
34	NORMALLY CLOSED	
35	NORMALLY CLOSED	
36	NORMALLY CLOSED	
37	NORMALLY CLOSED	
38	NORMALLY CLOSED	
39	NORMALLY CLOSED	
40	NORMALLY CLOSED	
41	NORMALLY CLOSED	
42	NORMALLY OPEN	
43	NORMALLY CLOSED	
44	NORMALLY CLOSED	
45	NORMALLY CLOSED	
46	NORMALLY CLOSED	



#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U002A
Revision No:	0.0
Page No:	5 of 8

47	(b) (3) (B) NORMALLY OPEN	
48	NORMALLY CLOSED	
49	NORMALLY CLOSED	
50	NORMALLY CLOSED	
51	NORMALLY CLOSED	
52	NORMALLY CLOSED	
53	NORMALLY CLOSED	
54	NORMALLY OPEN	
55	NORMALLY CLOSED	
(*) – Denote	es Manual Valve	



#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U002A
Revision No:	0.0
Page No:	6 of 8

	20. After completion of the Baseline Operations Order (OPORD):
	<ul> <li>CRO and Rover: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)</li> </ul>
	<ul> <li>CRO: Ensure Baseline OPORD is provide to SoW for validation at the Watch Team Brief</li> </ul>
Validation Baselin	ne Inspection Completed by:
	Rover #1 (Print, Sign, Date)
	CRO (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
NOTE: If the Op	perations Order was completed with NO issues and NO changes, file should be

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box

placed in the completed Operations Order box.



#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U002A
Revision No:	0.0
Page No:	7 of 8

#### **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
This order was encoded with changes as marked and approved on the order	

**NOTE:** If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

<b>NOTE:</b> The Supervisory Distribution Facilities Specialist (SDFS) will pick all Opend of the day at the Control Room.	erations Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distribution Facilities Sp	ecialist
Supervisory Distribution Facilities Specialist (SDFS)	Date
The CDEC to fee your this contents the Deput Pice story of Early	
The SDFS to forward this order to the Deputy Director of Fuels	
Deputy Director of Fuels	Date

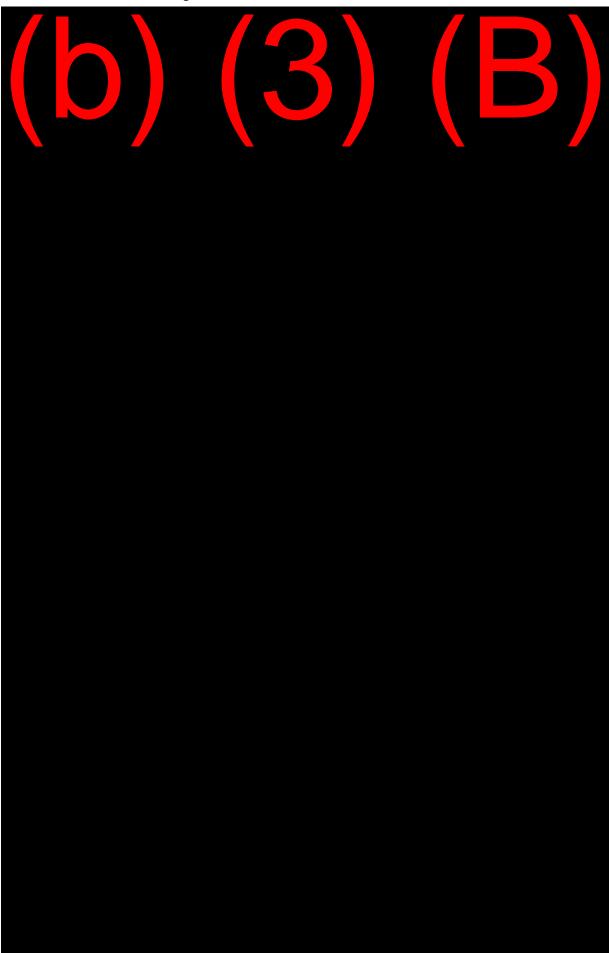


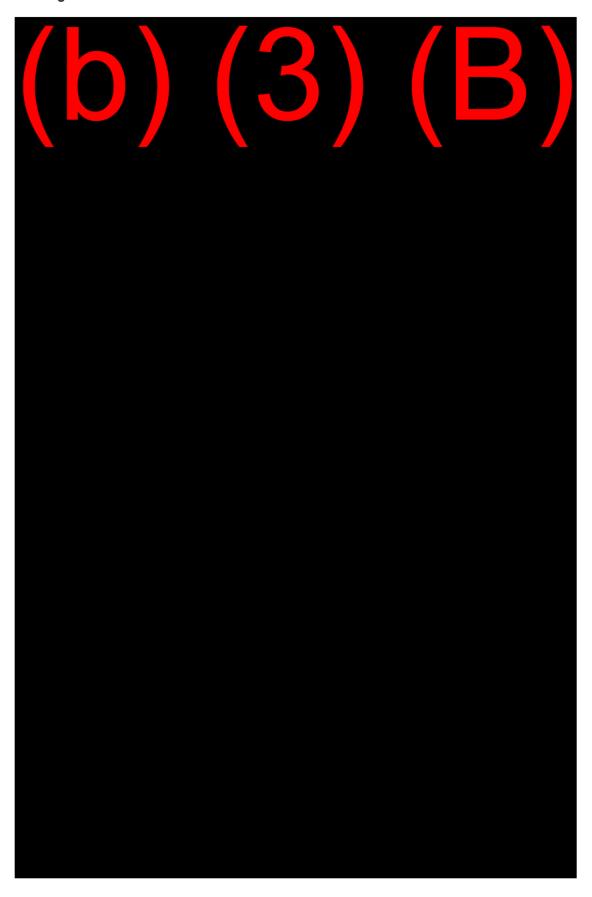
#### Operations Order F-24 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

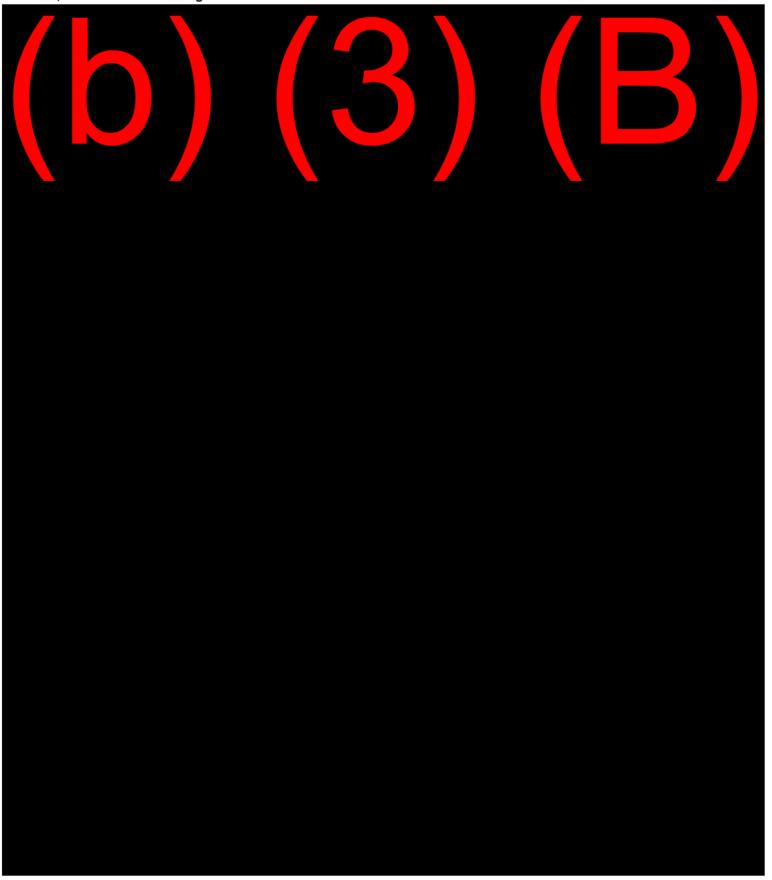
Document No:	U002A
Revision No:	0.0
Page No:	8 of 8

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date







Authored By: (b) (6)

Doc Custodian: Fuels

Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor** 

#### Maintenance Order

Red Hill JP-5 Line Equalization and Maintenance Order Doc #: UM02 Rev No. 1

**Maintenance Order** 

Effective Date: 09/26/2022

Reviewed By: (b) (6) — (b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) - Deputy Fuels Director

Digitally signed by
(b) (6)
Date: 2022.09.27 21:50:36 -10'00'

Authored By: (b) (6)

Doc Custodian: Fuels

Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor** 

**Maintenance Order** 

Red Hill JP-5 Line Equalization and Maintenance Order Doc #: UM02 Rev No. 1

**Maintenance Order** 

Effective Date: 09/26/2022

Requested Start Date: 10/3/2022 Estimated Work Time: 4 hrs Severity: Routine

**Operations Support Needed:** No / Yes: Equalize JP-5 Line / Return Sectional Valves to Baseline

Operations Scheduling Needed: None / Impact / Blackout: Red Hill to (b) (3) (B) JP-5 LOTO

#### MAINTENANCE ORDER

1. This Maintenance Order ONLY details **Phase 2, Equalization and Valve Maintenance** of the 'JP-5 Unpacking Process'.

2. DFSP JBPHH conducts equalization on the Red Hill JP-5 pipeline to support the maintenance greasing, cycling, and PM work on the sectional valves.

#### WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

#### REFERENCES

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- 2. UFC 3-460-03, United Facilities Criteria, Operations and Maintenance: Maintenance Petroleum Fuel Facilities
- 3. NAVSUPINST 5100.12B Control of Hazardous Energy
- 4. Mechanical Integrity Procedure

#### **ENCLOSURES**

Enclosure (1): ECP

Enclosure (2): WAF: To be completed

Enclosure (3): PM Job Orders: To be completed

Authored By: (b) (6)	DFSP Pearl Harbor	Doc #: UM02 Rev No. 1
Doc Custodian: Fuels Department	Maintenance Order  Red Hill JP-5 Line Equalization and	Maintenance Order
Approved By: LCDR (b) (6)	Maintenance Order	
Date Approved: 09/26/2022		Effective Date: 09/26/2022

#### **MAINTENANCE ORDER START**

SECTION 1 – MUSTER

# 

Zone Assignment	Personnel Assignments	Name	Call Sign
	Lead Authorized Person(LAP)		
	Maintenance Controller(MC)		
	Maintenance Personnel(MP)		
	Maintenance Supervisor(MS)		
	Operations Supervisor(OS)		
	Operations Personnel(OP)		
	CRO		
	Assistant CRO		

#### **SECTION 2 – PRE-BRIEF**

<u>DATE TIME INITIALS</u>

#### 

# Authored By: (b) (6) Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### **Maintenance Order**

#### Red Hill JP-5 Line Equalization and Maintenance Order

Doc #: UM02	
Rev No. 1	

**Maintenance Order** 

Effective Date: 09/26/2022

#### **SECTION 3 – WATCH TEAM BRIEF**

DATE	TIME	<u>INITI</u>	<u>ALS</u>	
	/	/	_50.	LAP: Lead the brief in the Maintenance Control Room to include:
				ECP review
				WAF review
				Maintenance Order
				Operations Involvement
	/	/	60.	MC: Administrate Documents, Provide Locks, and Post WAF.
	/	/	70.	MP: Confirm and Sign ECP and WAF.
	/	/	_80.	<b>OS/MS:</b> Confirm personnel assignments, scheduling, and operations requirements.
	/	/	90.	CRO: Confirm readings and information accuracy:
				Flow Path – is accurate and no *oos* notes in AFHE
				MOV Isolation – MOVs indicated in ECP not part of separate LOTO, and actuation will not interfere with simultaneous operations
				AFHE Involvement - Confirm AFHE ability to support order
				Approximate duration – Confirm scheduling and control of simultaneous operations will not overburden Control Room
SECT	TION	4 – PR	RE-C	CHECK
<u>DATE</u>	TIME	<u>INITI</u>	<u>ALS</u>	
	/	/	100.	LAP: Walk and view piping and isolation points, confirming ECP.
	/	/	110.	MC: Walk and view piping and isolation points, confirming ECP.

## Attach & Review ECP and ECP drawings to this order.

# Authored By: (b) (6) Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

# **Maintenance Order**

#### Red Hill JP-5 Line Equalization and Maintenance Order

Doc #: UM02	
Rev No. 1	

**Maintenance Order** 

Effective Date: 09/26/2022

#### **SECTION 5 – ISOLATING AND LOTO**

	s & Tags.
/	
□ Install Compound Pressure Gauge assembly at (b) (3) (B) □ Open (b) (3) (B), keeping the Pressure Gauge assembly valve closed. Supressure decrease here slightly □ Verify Gauge is reading psig □ Very Slowly Open Pressure Gauge assembly valve – NOTE: May he into pipe □ Wait for pressure to equalize □ /	
Open (b) (3) (B), keeping the Pressure Gauge assembly valve closed. Spressure decrease here slightly  Verify Gauge is reading psig  Very Slowly Open Pressure Gauge assembly valve – NOTE: May he into pipe  Wait for pressure to equalize	
pressure decrease here slightly  □ Verify Gauge is reading psig  □ Very Slowly Open Pressure Gauge assembly valve – NOTE: May he into pipe  □ Wait for pressure to equalize	
Usery Slowly Open Pressure Gauge assembly valve − NOTE: May he into pipe  Wait for pressure to equalize /	Should see
into pipe  □ Wait for pressure to equalize /170. OP: Open Sectionals (b) (3) (B)  □ Slowly Open (b) (3) (B), keeping communication with OP at (b) (3)	
/170. <b>OP:</b> Open Sectionals (b) (3) (B)  Slowly Open (b) (3) (B), keeping communication with OP at (b) (3)	ar air suck
☐ Slowly Open (b) (3) (B), keeping communication with OP at (b) (3)	
psig slow and opening of the varve	(B)
☐ Open until the valve is fully open – verified by indicator and CRO	
☐ Wait for pressure to equalize	
<ul> <li>Repeat this step until all stated sectionals have been opened and the p has been equalized</li> </ul>	ipeline
/180. <b>OP:</b> Close (b) (3) (B)	
SECTION 6 – UNDERGOING MAINTENANCE	
DATE TIME INITIALS	
/	

Authored By: (b) (6)	
Doc Custodian: Fuels	

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

Department

## **DFSP Pearl Harbor**

#### **Maintenance Order**

#### Red Hill JP-5 Line Equalization and Maintenance Order

Doc #: UM02 Rev No. 1	
Maintenance Order	

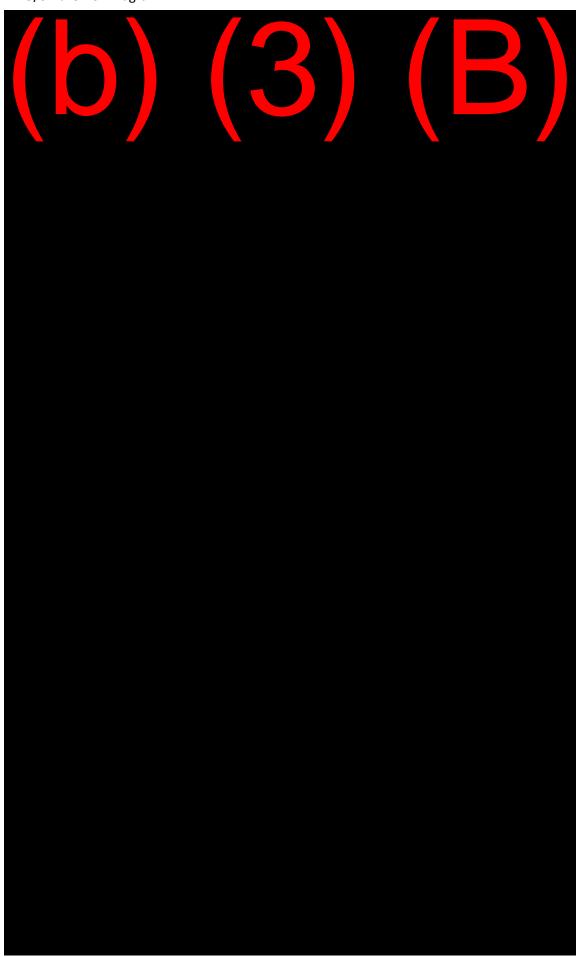
Effective Date: 09/26/2022

#### REVISION HISTORY

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date

# ENERGY CONTROL PROCEDURE (ECP) FORM

Energy Control Procedure NoDDJP5 Lockbox No2					Page_	_1 of1					
								Date:			
Location and WAF Number			Red Hill		Job Lock Key Custodian (Ma			/laintena	aintenance Controller)		
Equipment											
Equipment ID/ Description			JP-5 Head	JP-5 Header and Laterals		Change	Froi	m	То	Date/Time	
Job Descri	ption			Lo/To (flo	owpath only)	for JP5	Change				
				Header D			From		m	То	Date/Time
Lead Autho	orized Emp	loyee		(b) (6)							
		Auth		•	all Affected Per						
			Docume	nt isolation ste	ps below and p	erform LOC	CK, TAG, ar	nd TRY	/. ·		
LOTO	, v		Lock	la alasta a	LOTO	Lasli Tas	LOT	0	LOTO		C
LOTO Isolation	1	alve mber	and/or tag	Isolation Position	LOTO Installed	Lock Tag Try	g LOT Remo		LOTO Removed		Comments
Date			Number	(Open or	Ву	(Y/N)	Dat		Ву	·	
			and Blind	Closed)							
9/15/22	(b) (3	3) (B	Number JP5-B1	Closed	RTB	Υ				+-	
			JP5-B2								
9/15/22				Closed	RTB	Υ					
9/12/22			JP5-1	Closed	RTB	Υ					
9/13/22			JP5-2	Closed	RTB	Y					
9/13/22			JP5-3	Closed	RTB	Υ					
9/13/22			JP5-4	Closed	RTB	Υ					
9/12/22			JP5-5	Closed	RTB	Y					
9/12/22			JP5-6	Closed	RTB	Y					
9/12/22			JP5-7	Closed	RTB	Υ					
9/12/22			JP5-8	Closed	RTB	Υ					
9/12/22			JP5-9	Closed	RTB	Υ					
9/12/22			JP5-10	Closed	RTB	Υ					
9/12/22			JP5-11	Closed	RTB	Υ					
9/12/22			JP5-12	Closed	RTB	Υ					
9/15/22			JP5-B3	Closed	RTB	Υ					
9/16/22			JP5-B4	Closed	RTB	Υ					
9/15/22			JP5-B5	Closed	RTB	Υ					
Prehung			JP5-13	Closed							/alve to be locked post unpacking
By printir	ng my nam				red energy is di ther an individu						position and my
Print Authorized Employee Name and Company  Write on the back if necessary											
1						4					
2						5					
3						6					
							L				





Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

1 1 1 CDD (b) (c)

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

Digitally signed by (b) (6)
Date: 2022.09.27 21:52:41 -10'00'

Authored By: (b) (6)

Doc Custodian: Fuels
Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

DFSP Pearl Harbor Recurring

**Operations Order** 

RH JP-5 Unpacking to YON via Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

EVOLUTION START DATE:
CONTROL ROOM INITIALS (MASTER COPY):
FIELD COPY INITIALS:

#### **EVOLUTION ORDER**

- 1. This Operations Order ONLY details Phase 3, Gravity Drain, of the 'JP-5 Unpacking Process'
- 2. DFSP JBPHH conducts unpacking operations from the <u>Red Hill JP-5 Pipeline</u> to <u>YON</u> to vacate JP-5 pipeline of ~194,156 gallons.

Issue Source	Receipt Tank	Volume	Deputy Director of Fuels Initial
RH JP-5 Pipeline	YON		

WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

#### REFERENCES

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- MIL STD 3004-1: Department of Defense Standard Practice Quality Assurance for Bulk Fuels, Lubricants and Related Products
- 3. Integrated Contingency Plan (ICP), Date August 2018

#### **ENCLOSURES**

Enclosure (1): Flow Diagram

Enclosure (2): Terminal Pier PIC Checklist

Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

**Operations Order** 

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### OPERATIONAL ORDER START

CAUTION: If a deviation or modification is needed in this order, the CRO must obtain proper approval for the change following the <a href="Change Request Form">Change Request Form</a> at the rear of this document.

**NOTE:** A valve baseline must be conducted prior to the execution of this Operations Order.

#### **SECTION 1 – MUSTER**

#### **DATE TIME INITIALS**

//	10.	<b>SoW:</b> Conduct a Muster to ensure all assigned personnel are in attendance
	_	for the brief

	for the orier		
Zone Assignment	Personnel Assignments	Name	Call Sign
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK(b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (6) (3) (6)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery		
	(b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B) <sup>8</sup>		
Zone 10	Rover #10 (b) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (0) (3) (B)		
Zone 13	Rover #13 Hotel Pier		
Zone 14	Rover #14 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (0) (3) (8)	YON PIC		
YON <sup>(5)(3)(B)</sup>	Assistant YON PIC		
YON DECEMBER 1	YON Assistant		
RH Skillet TK (b) (3) (B)	RH Independent Validator		
Hotel Pier	PH Independent Validator		

Authored By: (b) (6)	

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

### **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### **SECTION 2 – PRE-BRIEF**

DATE TIME	INIT	<u>IALS</u>	
/		_20.	<b>SoW:</b> Confirm the following procedures are complete IOT conduct Phase 3: JP-5 Pipeline Drain Down:
			Phase 2: Maintenance Order/Pressure Equalization has been completed and operating conditions are acceptable to proceed
			Baseline Operations Orders is completed and validated accurate (Doc# $003A$ & $003B$ )
/	_/	_30.	WS: Confirm and assign required personnel needed for this Operations Order
/	/	_40.	CRO: Verify the following procedures have been completed
			Valve baseline matches current AFHE configuration
			SDS and ICP are on-hand and updated
			Ullage in YON is greater than ~238,128 gallons for transfer (110% of transfer amount)

Receiving Tank	Start Level (Ft/In)	Start Ullage (Gal)	CRO Initials	Assistant CRO Initials	Time
YON					

Authored By: (b) (6)
Doc Custodian: Fuels Department

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

Doc #: U003	
Rev No. 2	

**Unpack Operating Order** 

Department			RH JP-5 Unpacking to YON via	
Approved By:	LCDR	(b) (6)	Gravity	
Date Approved	1: 09/26	/2022		Effective Date: 09/26/2022
/	/	50.	YON PIC: Prepare/provide the following re	equired paperwork:
			Operation Orders	
			C700 Operations Notification Flow Chart	
			Barge and Ullage Report	
/	_/	60.	CRO: Prepare/provide the following require	ed paperwork:
			Tank Inventory Control Daily Levels	
			Transfer Record	
SECTION  DATE TIME			CH TEAM BRIEF	
/	_/	70.	SoW: Lead the brief in the (0) (3) (6) Control I	Room to include:
			Operational Procedures/Priorities	
			Operational Expectations	
			Integrated Contingency Plan	
/	/	80	SoW. Step through operations order and add	dress any questions

Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

## **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### SECTION 4 – PRE-OPERATION CHECK

DATE	TIME	IN	<u>ITIALS</u>	
	/	/	90.	<b>YON PIC:</b> Ensure all procedures are completed prior to executing JP-5 Drain Down Operations:
				Report Time of YON Crew
				Thermal Baseline Verified
	/	/	100.	<b>Terminal PIC:</b> Ensure all procedures are completed prior to executing JP-5 Drain Down Operations:
				Terminal Pier PIC Checklist
				Verify Fuel Riser Utilized
				Verify Amount being Transferred

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

DATE TIME INITIALS

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to YON Gravity

Unpack	<b>Operating Order</b>
Rev No. 2	
Doc #: U0	03

Effective Date: 09/26/2022

#### **SECTION 5 – VALVE ALIGNMENT**

 /	/	110.	All Assigned Personnel: Report to designated zones and conduct radio communications check with CRO
/	/	120.	YON PIC: Direct Hose Movement and Connection:
			Transfer Hose from YON to Hotel Pier
			Connect and secure hose to riser
			Line-up YON for receiving, keeping header valve CLOSED
			Inform CRO that connection has been completed
 /	/	130.	CRO: Request permission to start the JP-5 Drain Down Valve Alignment:
			☐ CRO to SoW
			☐ SoW to Fuels Director
			☐ Fuels Director to Command Officer
 /	/	140.	RH PIC: Ensure pressure on compound gauge at HPV is maintained between and psi throughout the operation.
/	/	150.	CRO: Direct RH WL to OPEN (b) (3) (B)

Authored By: (b) (6)	DFSP Pearl Harbor Recurring	Doc #: U003 Rev No. 2
Doc Custodian: Fuels Department	Operations Order  RH JP-5 Unpacking to YON via	Unpack Operating Orde
Approved By: LCDR (b) (6)	Gravity	
Date Approved: 09/26/2022		Effective Date: 09/26/2022

**CRO:** Use the table below to sequentially **OPEN** and validate the valves

_	<u>;</u>	1	using the "point an				141105
_			Rov/IV: Validate v CRO point and cal		t in the field and	report valve pos	sition per
	Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent Validator
	1	(b) (3)	3) (B)				
	2		/ ( _ /				
	3						
	4						
	5						
	6						
	7						
	8						

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

160.

(\*) Denotes manual valves

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# DFSP Pearl Harbor Recurring

#### **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2					
Unpack Operating Order					

Effective Date: 09/26/2022

YON PIC and IV: Use the table below, align header, issue and meter valves and report to CRO

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent Validator
1	(b) (3)	(R)				
2						
3						
(*) Denotes	(*) Denotes manual valves.					

///////	190.	<b>Terminal PIC:</b> Ensure Pier is ready to "Receive" JP-5 for Drain Down Operations:
		Vacuum Truck is positioned at Hotel Pier
	П	Snill Kits and Fire Extinguisher Available

Authored By: (b) (6)
Doc Custodian: Fuels Department

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to YON via Gravity

Doc #: U003 Rev No. 2
Unpack Operating Order

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

Effective Date: 09/26/2022

#### **SECTION 5 – DRAINING**

DATE TIME INIT	<u>IALS</u>	
	_200.	CRO: Request permission to start the JP-5 Drain Down:
		☐ CRO to SoW
		☐ SoW to Fuels Director
	_210.	☐ Fuels Director to Command Officer  CRO: Complete the following procedures prior to pressurizing the hose:
		☐ Verify valve alignment
		☐ Verify hose connection
	_220.	☐ Verify YON header valve is CLOSED  CRO: Slowly OPEN (5) (3) (6) and (6) (3) (6)
NOTE: Valves (b) (3) (	B) and <mark>(b)</mark>	(3) (B) are Throttle-valves. Throttle-valves DO NOT isolate fuel flow.
	230.	Terminal PIC: Slowly OPEN Fuel Riser/Station/
	240.	CRO: Inform Control Tower that YON loading will begin.

Doc Custodian: Fuels Department

# Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

/ /	250.	All Personnel: Monitor zone	es for leaks, sheen	, and abnormal conditions.
-----	------	-----------------------------	---------------------	----------------------------

Zone Assignment	Personnel Assignments	Call Sign	Report Time
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank	Work Supervisor RH		
Gallery			
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (0)(8)(8)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery		
	(b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B)		
Zone 10	Rover #10 (b) (3) (B) <sup>6</sup>		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (5)(3)(6)(		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (D) (B) (B)	YON PIC		
/ /	260. YON PIC: After zone c	hecks have been comple	eted, slowly OPEN YON

YON PIC: After zone checks have been completed, slowly OPEN YON header valve and inform CRO start of transfer

Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time
Number	OPEN		Initials	CRO Initials		Independent
						Validator
1	(b) (3) (	B)				

/	/	270.	CRO/RH WL: Monitor pressure on compound gauge at HPV, throttling
			(b) (3) (B) as needed to reduce vacuum
/	/	280.	<b>RH WL:</b> After ~10,000 gal has drained, <b>OPEN</b> (b) (3) (B) and (b) (3) (B)

Authored By:	(b)	(6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

/290. YON PIC: Report to CRO and record YON levels hourly					
Hour # (Time)	Tank L	evel	Current Amount(Gals)	CRO Initials	Assistant CRO Initials
.5 ( )					
1( )					
1.5 ( )					
2( )					
2.5 ( )					
3 ( )					
3.5 ( )					
4( )					
4.5 ( )					
5( )					
/	/300.		C: Monitor Flowrate during the RO and prepare to stop operation		n flow slows,
/	_/310.	CRO/YON PIC: Once JP-5 Operation head pressure has decreased and flow has ceased, YON PIC will CLOSE the Hotel riser and YON header valve.			
/	/ 320.	CRO: Inf	orm Control Tower that YON	loading has ende	d

Authored By: (b) (6)
Doc Custodian: Fuels Department

# <u>Operations Order</u>

RH JP-5 Unpacking to YON via

Gravity

Doc #: U003
Rev No. 2
Unpack Operating Order
Effective Date: 09/26/2022

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

<u>DATE TIME INITIALS</u>

#### SECTION 6 - RETURN TO BASELINE

_			CRO: Use the tablusing the "point an	-	uentially CLOSE	and validate the	e valves
_	/		Rov/IV: Validate v	_	t in the field and	report valve pos	sition per
		'	c <b>ko</b> pomi and car	ii request			
	Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time
	Number	CLOSE		Initials	CRO Initials		Independ

Sequential Number	Valves Verified CLOSE	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent Validator
1	(b) (3)	(B)				
2						
1						
2						
3						
4						
5						
6						
7						
8						
9						
(*) Denotes	manual valves.					

<sup>(\*\*)</sup> Throttle-valve.

All JP-5 Sectional Valves will remain OPEN from (b) (3) (B) to Red Hill Lower Tank Gallery

NOTE: Throttle-valves DO NOT isolate fuel flow.

Authored By: (b) (6)	DFSP Pearl Harbor Recurring	Doc #: U003 Rev No. 2
Doc Custodian: Fuels Department	Operations Order  RH JP-5 Unpacking to YON via	Unpack Operating Order
Approved By: LCDR (b) (6)	Gravity	
Date Approved: 09/26/2022		Effective Date: 09/26/2022

-							
	Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time

Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time	
Number	CLOSE		Initials	CRO Initials		Independent	
						Validator	
1	(h) / 3	(D)					
2	(10)						
3							
(*) Denotes	(*) Denotes manual valves.						

 <b>RH PIC/WL:</b> Report the following procedures have been completed and report to <b>CRO</b> :
(b) (3) (B) CLOSE
(b) (3) (B) and (b) (3) (B) CLOSE

Authored	Bw.	(h)	(6)	
Aumorea	ъy.	(D)	(0)	

Approved By: LCDR (b) (6) Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH JP-5 Unpacking to YON via Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

/ /	370.	All assigned	personnel: Repo	ort zone condition	to CRO
-----	------	--------------	-----------------	--------------------	--------

Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank		
	Gallery		
Zone 2	Rover #2 TK (b)(s)(B)		
Zone 3	Rover #3 Lower Tank		
	Gallery		
Zone 4	Rover #4 Lower Tank		
	Gallery (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B) <sup>6</sup>		
Zone 10	Rover #10 (b) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (b) (3) (B)		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (0) (3) (6)	YON PIC		

/	380.	<b>CRO:</b> Ensure the follow procedures are completed and announce when
		complete

☐ JP-5 path utilized is back to baseline configuration

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH JP-5 Unpacking to YON Gravity

ler

Effective Date: 09/26/2022

# **SECTION 7 – CLOSEOUT**

DATE TIM	ME INITIALS				
/		YON PIC: Manually gauge rec secure time of the JP-5 operatio CRO			
Receiving Tank	Finish Level (Ft/In	) Finish Level (Gal)	CRO Initials	Assistant CRO Initials	Time
YON					
/410. <b>SoW:</b> verify the following the follow procedures have been completed:					
☐ All procedures completed IAW OPORD					
	☐ Documentation is completed				
	☐ All information/signature blocks on operation order are filled in				
/	/420.	. SoW: Notify Operational personnel that the operation is complete			
/	/ / 430. <b>SoW:</b> Notify Fuels Director operation is complete				

Authored	By:	(b)	(6)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

# **Operations Order Closeout**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	

**NOTE:** If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

NOTE: The Supervisory Distributive Facilities Specialist (SDFS) will pick all Operations Orders up at the

	end of the day at the Control Room.	
_	CRO	Date
•	The CRO to forward this procedure to the Supervisory Distributive Facilities Specia	alist
	Supervisory Distributive Facilities Specialist (SDFS)	Date
•	The SDFS to forward this order to the Deputy Director of Fuels	

**Deputy Director of Fuels** 

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Date

Authored	Bv:	(b)	(6)
	,.	<b>\</b> —/	

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH JP-5 Unpacking to YON Gravity

Doc #: U003 Rev No. 2

**Unpack Operating Order** 

Effective Date: 09/26/2022

## **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



#### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003A
Revision No:	1.0
Page No:	1 of 9

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: (b) (6) — Deputy Fuels Director

Digitally signed by
(b) (6)
Date: 2022.09.27 21:53:14 - 10'00'



#### JBPHH Fleet Logistics Center

#### Operations Order JP-5 Pipeline Drain **Down Baseline OPORD** (Date OCT22)

Document No:	U003A
Revision No:	1.0
Page No:	2 of 9

	EVOLUTION START DATE:
	CONTROL ROOM INITIALS (MASTER COPY):
	FIELD COPY INITIALS:
EVOLUTION ORDER	
	s JP-5 unpacking operations from Red Hill to Pearl Harbor to provide Pipeline from Lower Tank Gallery Area to (b) (3) (B) with a fuel gallons
NOTE: This Operations Operations Ord	Order will provide the information to safely perform the following er
BASELINE – VALVI	E ALIGNMENT VERIFICATION
DATE TIME INITIALS	
/	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	CRO validates motor operated valves (MOVs)
	☐ Comparison by AFHE in the baseline position to current positon, by writing in the "current position" of the valve with the time of validation
	Rover validates manual valves
	☐ Comparison by in the field verification of the baseline position to

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform CRO immediately and bring to attention of SoW in morning briefing

the time of validation

current position, by writing in the "current position" of the valve with



#### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003A
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JP-5 Valve Baseline from RH to Hotel Pier					
Sequential	Valves	Location	Baseline Position	Current Position	Time
Number	Verified		NORMALITY OF CORP.		
1	(b) $(3)$	3) (B)	NORMALLY CLOSED		
2	, , ,	/ ( /	NORMALLY CLOSED		
3			NORMALLY CLOSED		
4			NORMALLY CLOSED		
5			NORMALLY CLOSED		
6			NORMALLY CLOSED		
7			NORMALLY CLOSED		
8			NORMALLY CLOSED		
9			NORMALLY CLOSED		
10			NORMALLY CLOSED		
11			NORMALLY CLOSED		
12			NORMALLY CLOSED		
13			NORMALLY OPEN		
14			NORMALLY CLOSED		
15			NORMALLY CLOSED		
16			NORMALLY CLOSED		
17			NORMALLY CLOSED		
18			NORMALLY CLOSED		
19			NORMALLY CLOSED		
20			NORMALLY CLOSED		
21			NORMALLY CLOSED		
22			NORMALLY CLOSED		



#### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

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23	o) (3) (B) NORMALLY OPEN	
	3) (3) (B)	
24	NORMALLY OPEN	
25	NORMALLY OPEN	
26	NORMALLY OPEN	
27	NORMALLY CLOSED	
28	NORMALLY CLOSED	
29	NORMALLY CLOSED	
30	NORMALLY CLOSED	
31	NORMALLY OPEN	
32	NORMALLY OPEN	
33	NORMALLY CLOSED	
34	NORMALLY CLOSED	
35	NORMALLY CLOSED	
36	NORMALLY CLOSED	
37	NORMALLY CLOSED	
38	NORMALLY CLOSED	
39	NORMALLY CLOSED	
40	NORMALLY CLOSED	
41	NORMALLY CLOSED	
42	NORMALLY CLOSED	
43	NORMALLY CLOSED	
44	NORMALLY CLOSED	
45	NORMALLY CLOSED	
46	NORMALLY CLOSED	



### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

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47	NORMALLY OPEN	
48	NORMALLY CLOSED	
49	NORMALLY CLOSED	
50	NORMALLY CLOSED	
51	NORMALLY CLOSED	
52	NORMALLY CLOSED	
53	NORMALLY OPEN	
54	NORMALLY OPEN	
55	NORMALLY CLOSED	
56	NORMALLY CLOSED	
57	NORMALLY OPEN	
58	NORMALLY CLOSED	
59	NORMALLY CLOSED	
60	NORMALLY CLOSED	
61	NORMALLY CLOSED	
62	NORMALLY CLOSED	
63	NORMALLY CLOSED	
64	NORMALLY CLOSED	
65	NORMALLY CLOSED	
66	NORMALLY CLOSED	
67	NORMALLY CLOSED	
68	NORMALLY CLOSED	
69	NORMALLY CLOSED	
70	NORMALLY CLOSED	
71	NORMALLY CLOSED	



#### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

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72	(b) (3) (B) NORMALLY CLOSED
73	NORMALLY CLOSED
74	NORMALLY CLOSED
75	NORMALLY CLOSED
76	NORMALLY CLOSED
77	NORMALLY CLOSED
78	NORMALLY CLOSED
79	NORMALLY CLOSED
80	NORMALLY CLOSED
81	NORMALLY CLOSED
82	NORMALLY CLOSED
(*) – Denotes	Manual Valve

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

All (b) (3) (B) Valves are OPEN for thermal expansion



#### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003A
Revision No:	1.0
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	20. After completion of the Baseline Operations Order (OPORD):			
	<ul> <li>CRO and Rover: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)</li> </ul>			
	☐ <b>CRO:</b> Ensure Baseline OPORD is provided to SoW for validation at the Watch Team Brief			
Validation Baseline Inspection Completed by:				
	Rover #1 (Print, Sign, Date)			
	CRO (Print, Sign, Date)			
/	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation			
	SoW (Print, Sign, Date)			
	rations Order was completed with NO issues and NO changes, file should be the completed Operations Order box.			

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



#### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003A
Revision No:	1.0
Page No:	8 of 9

Date

Date

#### **Operations Order Closeout:**

Select the appropriate statement below

	Long Till		
Statement or Order CRO			
This order was executed as written without any changes.			
This order was executed with changes as marked and approved on the order			
<b>NOTE:</b> If the order required approved modification, the CRO to sign, date and forward and archiving.	d for final approval		
NOTE: The Supervisory Distribution Facilities Specialist (SDFS) will pick all Operation	ons Orders up at the		
end of the day at the Control Room.			
CRO	Date		
The CRO to forward this procedure to the Supervisory Distribution Facilities Special	list		

Supervisory Distribution Facilities Specialist (SDFS)

Deputy Director of Fuels

The SDFS to forward this order to the Deputy Director of Fuels



### Operations Order JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003A
Revision No:	1.0
Page No:	9 of 9

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



# Operations Order YON JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003B
Revision No:	1.0
Page No:	1 of 7

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director





# Operations Order YON JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003B
Revision No:	1.0
Page No:	2 of 7

EVOL	LUTION START DATE:
CONTROL ROOM INITI	ALS (MASTER COPY):
F	IELD COPY INITIALS:

#### **EVOLUTION ORDER**

1. DFSP JBPHH conducts JP-5 unpacking operations from Red Hill to Pearl Harbor to provide drain down of the JP-5 Pipeline from Lower Tank Gallery Area to (b) (3) (b) with a fuel estimation of 194,156 gallons

**NOTE:** This Operations Order will provide the information to safely perform the following Operations Order

#### BASELINE – VALVE ALIGNMENT VERIFICATION

DATE TIME INITIALS	
/	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	YON PIC & YON 2 <sup>nd</sup> PIC (IV) validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



# Operations Order YON JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003B
Revision No:	1.0
Page No:	3 of 7

YON Valve Baseline with Thermal Exception					
Sequential	Valves	Location	Baseline Position	Current Position	Time
Number 1	Verified (		NORMALLY CLOSED		/
1	(b) (3	8) (B)	NORWIALLI CLOSED		,
2			NORMALLY CLOSED		/
3			NORMALLY CLOSED		/
4			NORMALLY CLOSED		/
5			NORMALLY CLOSED		/
6	-		NORMALLY CLOSED		
· ·			NORWALLI CLOSED		,
7	-		NORMALLY OPEN		/
8			NORMALLY CLOSED		/
9			NORMALLY CLOSED		/
9			NORWALLI CLOSED		/
10			NORMALLY CLOSED		/
11			NORMALLY CLOSED		/
12			NORMALLY OPEN		/
13			NORMALLY CLOSED		/
14			NORMALLY CLOSED		/
15			NORMALLY OPEN		/
16			NORMALLY OPEN		/
17			NORMALLY OPEN		/
18			NORMALLY CLOSED		/



# Operations Order YON JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003B
Revision No:	1.0
Page No:	4 of 7

19	(b) (3) (B) <sup>1</sup>	IORMALLY OPEN		/
20	NO	ORMALLY CLOSED		/
	Manual Valve lves are OPEN for thermal expan	sion		
	☐ Verify all (1)) are CLOS	. , . , . ,	/rake hatches (depic	ted on Enclosure

☐ Verify and report to CRO the following tank hatches (depict	ed
on Enclosure (1)) are CLOSED	

	YON Valve Thermal Baseline				
Sequential Number	Hatch Verified	Location	Baseline Position	Current Position	Time
1	(b) (3)	3) (B)	NORMALLY CLOSED		/
2		, , ,	NORMALLY CLOSED		/
3			NORMALLY CLOSED		/
4			NORMALLY CLOSED		/
5			NORMALLY CLOSED		/
6			NORMALLY CLOSED		/
7			NORMALLY CLOSED		/
8			NORMALLY CLOSED		/
(*) – Denotes	Manual Valve				



# Operations Order YON JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003B
Revision No:	1.0
Page No:	5 of 7

/	
	☐ YON PIC & YON 2 <sup>nd</sup> PIC (IV) Print, sign and date at the bottom of the OPORD
Validation B	Baseline Inspection Completed by:
	YON PIC (Print, Sign, Date)
	YON 2 <sup>ND</sup> PIC (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
	f the Operations Order was completed with NO issues and NO changes, file should be laced in the completed Operations Order box.

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



# Operations Order YON JP-5 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U003B
Revision No:	1.0
Page No:	6 of 7

#### **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Initial	
This order was executed as written without any changes.		
This order was executed as written without any changes.  This order was executed with changes as marked and approved on the order		
This order was executed with changes as marked and approved on the order		
<b>NOTE:</b> If the order required approved modification, the CRO to sign, date and forwar and archiving.	rd for final approval	
<b>NOTE:</b> The Supervisory Distribution Facilities Specialist (SDFS) will pick all Operate end of the day at the Control Room.	ions Orders up at the	
CRO	Date	
The CRO to forward this procedure to the Supervisory Distribution Facilities Special	alist	
Supervisory Distribution Facilities Specialist (SDFS)	Date	

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order..

The SDFS to forward this order to the Deputy Director of Fuels

**Deputy Director of Fuels** 

Date

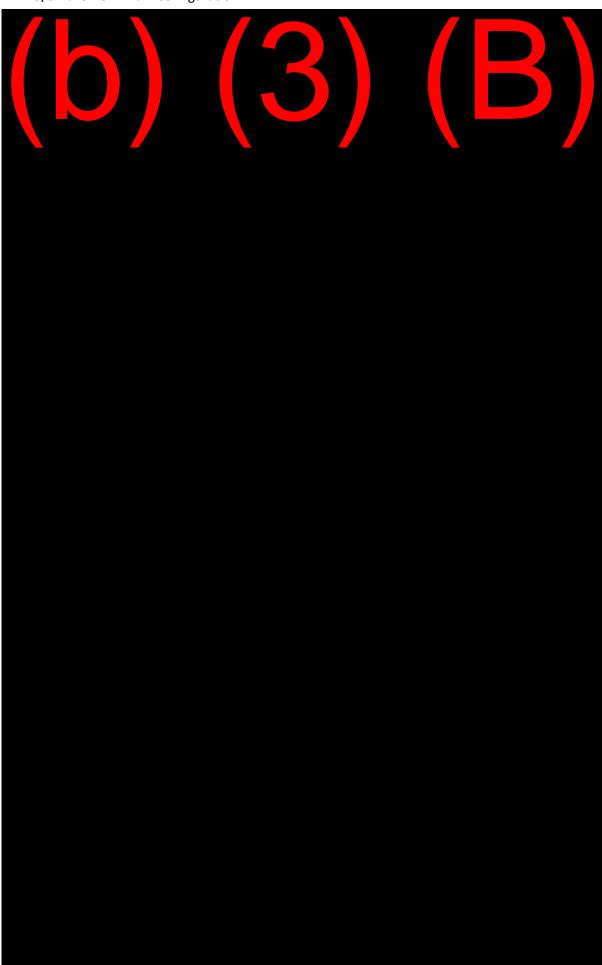


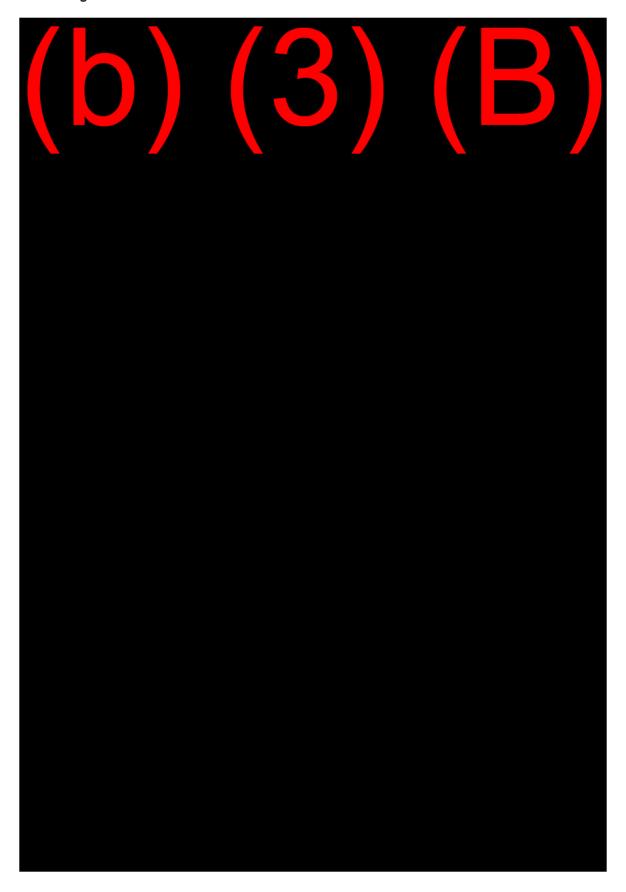
Operations Order YON JP-5 Pipeline
Drain Down Baseline OPORD
(Date OCT22)

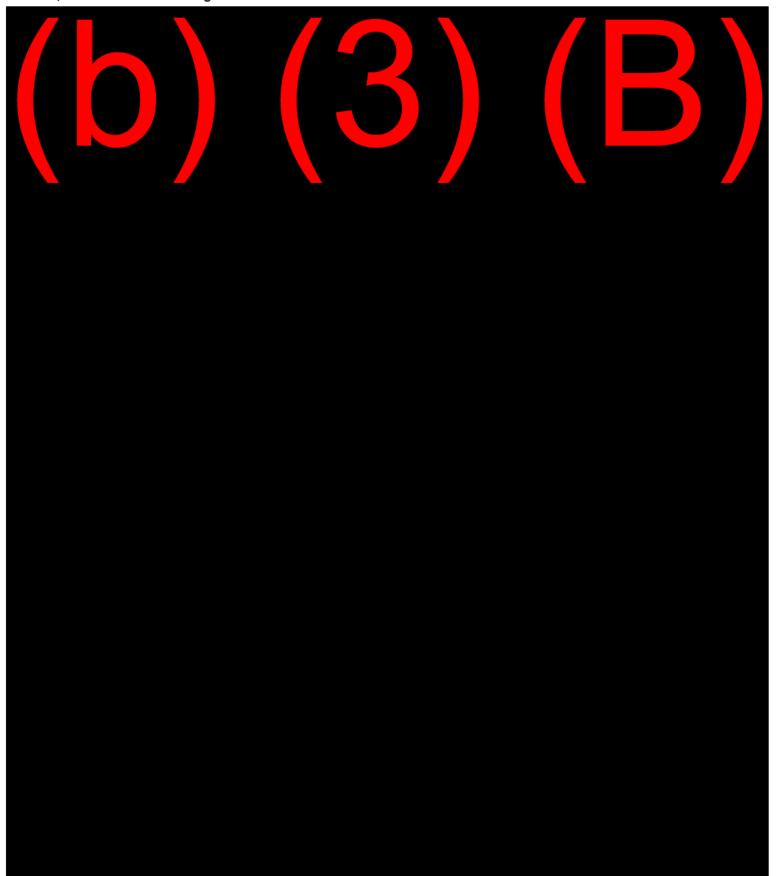
Document No:	U003B
Revision No:	1.0
Page No:	7 of 7

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date







Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

Reviewed By: (b) (6) — (b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) - Deputy Fuels Director

Digitally signed by
(b) (6)
Date: 2022.09.27 21:54:18 -10'00'

Authored By: (b) (6)

Doc Custodian: Fuels
Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

DFSP Pearl Harbor Recurring

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004
Rev No. 2

Suction Unpacking Low
Point Drain Transfer
Operations Order

Effective Date: 09/26/2022

	EVOLUTION START DATE:
CONTROL ROOM	INITIALS (MASTER COPY):
	FIELD COPY INITIALS:

#### **EVOLUTION ORDER**

- This Operations Order ONLY details procedures for Phase 4, Suction Unpack, of the 'JP-5 Unpacking Process.'
- 2. DFSP JBPHH conducts suction operations from the <u>Red Hill JP-5 Pipeline</u> to <u>Tank</u> to vacate JP-5 pipeline of ~22,324 gallons remaining to empty pipeline to (b) (3) (B).

Issue Source	Receipt	Volume/Quantity	Deputy Director of Fuels
	Tank	(Gals)	Initial
RH JP-5 Pipeline	(b) (3) (B)		

### WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

# **REFERENCES**

- Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- MIL STD 3004-1: Department of Defense Standard Practice Quality Assurance for Bulk Fuels, Lubricants and Related Products
- 3. Integrated Contingency Plan (ICP), Date August 2018

#### **ENCLOSURES**

Enclosure (1): Flow Diagram

Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

### OPERATIONS ORDER START

CAUTION: If a deviation or modification is needed in this order, the CRO must obtain proper approval for the change following the <a href="Change Request Form">Change Request Form</a> at the rear of this document.

**NOTE:** A valve baseline must be conducted prior to the execution of this Operations Order.

#### **SECTION 1 – MUSTER**

#### DATE TIME INITIALS

Zone Assignment	Personnel Assignments	Name(s)	Call Sign
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
(b) (3) (B) and (b) (3) (B)	Work Supervisor (b) (3) (B)		
	WS)		
RH HPV (b) (3) (B)	Work Lead RH (RH WL)		
(b) (3) (B) and (b) (3) (B)	Work Lead PH (PH WL)		
(b) (3) (B) and (b) (3) (B)	Pump Operator (PO)		
(b) (3) (B) and (b) (3) (B)	Assistant Pump Operator		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 RH HPV (0)(3)(8)		
Zone 3	Rover #3 (b) (3) (B)		
Zone 4	Rover #4 (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B) <sup>8</sup>		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 TK OTE 10		
RH HPV (b) (3) (B)	Independent Validator RH		
(b) (3) (B)	Independent Validator PH		
(b) (3) (B)³	Independent Validator PH		

Authored By:	(b) (6	3)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### SECTION 2 - PRE-BRIEF

SECTION	2 – FKE-DK	ILT				
DATE TIME	E INITIALS					
/		SoW: Confirm Ph and operating cond		n Operations Order has able to proceed.	been completed	
/		<b>WS/WL:</b> Confirm and assign required personnel needed for this Operations Order.				
/	/40.	CRO: Verify follo	owing AFHE read	ings:		
	□ V	alve baseline matcl	hes current AFHE	configuration		
	□ S	DS and ICP all on-l	hand and updated			
		Illage in receiving to of transfer amount)		than ~24,556 gallons f	for transfer. (110%	
Asset Location	Start Level (Ft/In)	Start Ullage (Gal)	CRO Initials	Assistant CRO Initials	Time	
(b) (3) (6)						
HCK Tank  High Op Limit  Level (Ft/In)  High Op Limit  Level (Gal)  TK (b) (3) (B)  (b) (3) (B)						
		ncy from the AFH sor before proceedi		nual gauge that is +/- 3	3/16", inform Fuel	
/	/ 50.			quired paperwork on ha	nd:	
	 0	peration Order				
		700 Operations No	tification Flow Cl	nart		

Authored	By:	(b)	(6)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DATE TIME INITIALS** 

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH JP-5 Unpacking to via AODD Pump

Doc #: U004	
Rev No. 2	

Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **SECTION 3 – WATCH TEAM BRIEF**

 /	/	60.	<b>SoW:</b> Lead the brief in the 1757 Meeting Room to include:
			Operational Expectations
			Operational Priorities
			Integrated Contingency Plan (ICP), Date August 2018
/	/	70.	<b>SoW:</b> Step through operations order and address any questions.

Authored	By:	(b)	(6)	

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

CO	mmunications check with CRO	
Zone Assignment	Personnel Assignments	Report Time
Control Room	SoW	
Control Room	CRO	
Control Room	Assistant CRO	
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Work Supervisor (b) (3) (B) <sup>8</sup>	
RH HPV (b) (3) (B)	Work Lead RH	
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Work Lead PH	
(b) (3) (B) <sub>and</sub> (b) (3) (B) <sup>5</sup>	Pump Operator	
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Assistant Pump Operator	
Zone 1	Rover #1 Lower Tank Gallery	
Zone 2	Rover #2 RH HPV (D)(8)(B)	
Zone 3	Rover #3 (b) (3) (B)	
Zone 4	Rover #4 (b) (3) (B)	
Zone 5	Rover #5 (b) (3) (B)	
Zone 6	Rover #6 (b) (3) (B)	
Zone 7	Rover #7 (b) (3) (B)	
Zone 8	Rover #8 (b) (3) (B)	
Zone 9	Rover #9 TK	
RH HPV (b) (3) (B)	Independent Validator RH	
b) (3) (B)	Independent Validator PH	
(b) (3) (B)	Independent Validator PH	

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

☐ Inspect Pump, ensuring that pump is properly secured to prevent movement

☐ Confirm that compressor and pump are ready for operation

Authored	By:	(b) (	<b>(6)</b>	
			( - <i>/</i>	

# Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

/	/	100.	<b>RH WL:</b> Ensure pressure at the HPV is maintained between (b) (3) (B) psi on the compound gauge throughout the operation.
/_	/	110.	CRO: Request RH WL to OPEN (b) (3) (B)
/	/	120.	CRO: Request RH WL to OPEN (b) (3) (B) and (b) (3) (B).
/	/	130.	<b>CRO:</b> Use the table below to sequentially <b>OPEN</b> and validate the valves using the "point and call" system.
/	/	140.	<b>Rov/IV:</b> Validate valve alignment in the field and report valve position per <b>CRO</b> point and call request.

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time
1	/b\ /2	\			/
2	(b) (3				/
3	()	/ (			/
4					/
5					/
6					/
7					/
8					/
9					/
10					/
11					/
(*) Denotes	manual valves.		-		

(\*\*) Throttle-valve.

\_\_\_\_\_/\_\_\_\_\_160. **Rov/IV:** shall sequentially **OPEN** and validate valve alignment in the field and report valve position to CRO.

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time
1	/h) /2	$\backslash \backslash D \backslash$			/
2					/
3	(10)				/
4					/
5					
(*) Denotes	manual valves.				

Authored By: (b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **SECTION 5 – TRANSFER PUMP SUCTION CYCLE**

/170.	(b) (c) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
	Connect/Confirm suction hose to b)(3)(B) manifold and verify is properly secured
	Connect/Confirm drain hose to (b) (3) (b) manifold and verify is properly secured
/	CRO: Request permission to start the JP-5 Suction Unpacking operation:
	CRO to SoW
	SoW to Fuels Director
	Fuels Director to Command Officer
/	CRO: Begin the "Receiving" Evolution on AFHE System to TK
/200.	PO(b)(3)(B) WS: Start the pump
	$OPEN^{(b)(3)(B)}, (b)(3)(B)$
	OPEN (b) (3) (B), Manifold Valve
	<b>OPEN</b> $^{(b)}$ $^{(3)}$ $^{(B)}$ , $^{(b)}$ $^{(3)}$ $^{(B)}$
	Start the Compressor
	Slowly open air line valve – pump should begin to cycle – wait for pump to prime (discharge hose will begin to move)
	Continue opening air line valve until fully open and pump is at full speed
/	PO(b)(3)(B) WS: Monitor pump for excessive vibration or loss of prime
/	CRO: Monitor tank level for expected drain amount
/230.	PO/VS-1C WS: Stopping the pump
	Once tank level has reached desired transfer amount or only air is being pumped, stop the pump.
	Slowly close the air line valve
	Turn off the Compressor
	CLOSE (b) (3) (B), (b) (3) (B)
	CLOSE (b) (3) (B), Manifold Valve
	CLOSE (b) (3) (B), (b) (3) (B)

Authored By: (b) (6)
----------------------

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DATE TIME INITIALS** 

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### SECTION 6 – RETURN TO BASELINE

#### 

report valve position to CRO.

Sequential Number	Valves Verified CLOSE	Location	CRO Initials	Assistant CRO Initials	Time
6	(b) (3	) (R)			
7	(D) (U				/
8					/
9					/
10					/
11					/
12					/
13					/
14					/
15					/
(*) Denotes	manual valves.				

Authored	By:	(b)	(6)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

Control Room CRO Control Room CRO Control Room Assistant CRO Control Room CRO Control Room Assistant CRO Control Room CRO CRO Control Room CRO CRO CONTROL ROOM CRO	Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
Assistant CRO   Work Supervisor   Work Supervisor   Work Supervisor   Work Supervisor   Work Lead RH	Control Room	SoW	1	` ` `
Work Supervisor   Work Supervisor   Work Supervisor   Work Lead RH	Control Room	CRO		
Work Lead RH	Control Room	Assistant CRO		
Work Lead RH	(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Work Supervisor (b) (3) (B)		
(a) (b) (d) (B)   Pump Operator	RH HPV (b) (3) (B)			
Assistant Pump Operator  Rover #1 Lower Tank Gallery  Zone 2 Rover #2 RH HPV  Zone 3 Rover #3 (b) (3) (B)  Zone 4 Rover #4 (b) (3) (B)  Zone 5 Rover #5 (b) (3) (B)  Zone 6 Rover #6 (b) (3) (B)  Zone 7 Rover #7 (b) (3) (B)  Zone 8 Rover #8 (b) (3) (B)  Zone 9 Rover #9 TK  Zone 9 Rover #9 TK  Zone 9 Rover #9 Independent Validator RH  Independent Validator PH  Independent Validator PH  Independent Validator PH	b) (3) (B) and (b) (3) (B)	Work Lead PH		
Assistant Pump Operator  Rover #1 Lower Tank Gallery  Zone 2 Rover #2 RH HPV  Zone 3 Rover #3 (b) (3) (B)  Zone 4 Rover #4 (b) (3) (B)  Zone 5 Rover #5 (b) (3) (B)  Zone 6 Rover #6 (b) (3) (B)  Zone 7 Rover #7 (b) (3) (B)  Zone 8 Rover #8 (b) (3) (B)  Zone 9 Rover #9 TK  Zone 9 Rover #9 TK  Zone 9 Rover #9 Independent Validator RH  Independent Validator PH  Independent Validator PH  Independent Validator PH	b) (3) (B) and (b) (3) (B) <sup>5</sup>	Pump Operator		
Gallery  Zone 2  Rover #2 RH HPV (5) (3) (B)  Zone 4  Rover #4 (5) (3) (B)  Zone 5  Rover #5 (b) (3) (B)  Zone 6  Rover #6 (5) (3) (B)  Zone 7  Rover #7 (5) (3) (B)  Zone 8  Rover #8 (5) (3) (B)  Zone 9  Rover #9 TK (5) (B)  Independent Validator RH  Independent Validator PH  Independent Validator PH  Independent Validator PH	b) (3) (B) and (b) (3) (B)	Assistant Pump Operator		
Zone 2 Rover #2 RH HPV (b) (3) (B) Zone 3 Rover #3 (b) (3) (B) Zone 4 Rover #4 (b) (3) (B) Zone 5 Rover #5 (b) (3) (B) Zone 6 Rover #6 (b) (3) (B) Zone 7 Rover #7 (b) (3) (B) Zone 8 Rover #8 (b) (3) (B) Zone 9 Rover #9 TK Zone 9 Rover #9 TK Zone 9 Independent Validator RH Independent Validator PH Independent Validator PH Independent Validator PH Independent Validator PH	Zone 1	Rover #1 Lower Tank		
Zone 3       Rover #3 (b) (3) (B)         Zone 4       Rover #4 (b) (3) (B)         Zone 5       Rover #5 (b) (3) (B)         Zone 6       Rover #6 (b) (3) (B)         Zone 7       Rover #7 (b) (3) (B)         Zone 8       Rover #8 (b) (3) (B)         Zone 9       Rover #9 TK (B) (B)         RH HPV (D) (3) (B)       Independent Validator RH         Independent Validator PH       Independent Validator PH         Independent Validator PH       Independent Validator PH		Gallery		
Rover #4   B   Cone 5	Zone 2			
Zone 5  Rover #5 (b) (3) (B)  Zone 6  Rover #7 (b) (3) (B)  Zone 7  Rover #7 (b) (3) (B)  Zone 8  Rover #8 (b) (3) (B)  Zone 9  Rover #9 TK  RH HPV (b) (3) (B)  Independent Validator RH  Independent Validator PH  Independent Validator PH  Independent Validator PH	Zone 3	Rover #3 (b) (3) (B)		
Zone 6  Rover #6 (b) (3) (6)  Zone 7  Rover #7 (b) (3) (6)  Zone 8  Rover #8 (b) (3) (5)  Zone 9  Rover #9 TK (b) (3) (6)  Independent Validator RH  Independent Validator PH  Independent Validator PH  Independent Validator PH	Zone 4	Rover #4 (b) (3) (B)		
Zone 7 Rover #7 (b) (3) (b) Zone 8 Rover #8 (b) (3) (b) Zone 9 Rover #9 TK RH HPV (b) (3) (6) Independent Validator RH Independent Validator PH Independent Validator PH Independent Validator PH	Zone 5			
Zone 7 Rover #7 (b) (3) (b) Zone 8 Rover #8 (b) (3) (b) Zone 9 Rover #9 TK RH HPV (b) (3) (6) Independent Validator RH Independent Validator PH Independent Validator PH Independent Validator PH	Zone 6	Rover #6 (b) (3) (B)		
ROVER #9 TK  RH HPV Independent Validator RH  Independent Validator PH  Independent Validator PH  Independent Validator PH	Zone 7			
Independent Validator RH Independent Validator PH Independent Validator PH Independent Validator PH	Zone 8	Rover #8 (b) (3) (B)		
Independent Validator PH Independent Validator PH Independent Validator PH	Zone 9	Rover #9 TK		
Independent Validator PH		Independent Validator RH		
	b) (3) (B)	Independent Validator PH		
/ / 270. <b>RH WL:</b> Report the following procedures have been completed and re	(b) (3) (B)	Independent Validator PH		
CRO:	Zone 7 Zone 8 Zone 9 RH HPV (b) (c) (c) (b) (3) (b) (b) (3) (b)	Rover #7 (b) (3) (B) Rover #8 (D) (3) (B) Rover #9 TK Independent Validator RH Independent Validator PH Independent Validator PH 270. RH WL: Report the following the second seco	lowing procedures have	been completed and
		□ (b) (3) (B) CLOSE		
$\square$ (b) (3) (B) CLOSE		□ (b) (3) (B) and (b) (3) (B	CLOSED	
		280. <b>CRO:</b> Ensure the follow complete:	ving procedures are com	pleted and announce wh
(b) (3) (B) and (b) (3) (B) CLOSED  /		☐ JP-5 path utilized is back to	o baseline configuration	l

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

☐ "Receiving" Evolution has ended on AFHE System

Authored By:	(b)	(6)	

Approved By: LCDR (b) (6)

Deta Assurant 00/26/2022

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH JP-5 Unpacking to Pump via AODD

Doc #: U004 Rev No. 2

> Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **SECTION 7 – CLOSEOUT**

DATE TIM	ME INITIA	<u>ALS</u>				
/	/	300. (b)	(3) (B) WS: Complete the follow	wing procedures	and report to the C	RO:
		□ All o	equipment is stowed away			
		□ Pum	np is secured			
/			ov: Manually gauge receiving me of the JP-5 operation and re			ecure
Receiving Tank	Finish Lev	rel (Ft/In)	Finish Level (Gal)	CRO Initials	Assistant CRO Initials	Time
TK (0)(3)(6)						
	/	•	RO: Finalize the following do ain building B1757 at the end  FLC Fuel Form 703-18, Tra	of the day:	npleted and turned i	n at the
/	/	330. <b>S</b> e	FLC Fuel Form 703-22, Tarow: verify the following the fo	•	-	ted:
		□ All 1	procedures completed IAW OF	PORD		
		□ Doc	umentation is completed			
		□ All i	information/signature blocks o	n operation orde	r are filled in	
/		340. Se	oW: Notify operational person	nel the operation	n is complete	
/	/	350 S	oW. Notify the Fuels Director	the operation is	complete	

Authored By:	(b)	(6)	

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH JP-5 Unpacking to via AODD Pump

Doc	#:	U	004
Rev	Να	,	2.

Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

# **OPERATIONS ORDER CLOSEOUT**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	

**NOTE:** If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

<b>NOTE:</b> The Supervisory Distributive Facilities Specialist (SDFS) will pend of the day at the Control Room.	pick all Operations Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distributive I	Facilities Specialist
Supervisory Distributive Facilities Specialist (SDFS)	Date
The SDFS to forward this order to the Deputy Director of Fuels	
Deputy Director of Fuels	Date

Authored By:	(b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH JP-5 Unpacking to via AODD Pump

Doc #: U004
Rev No. 2

Suction Unpacking Low Point Drain Transfer Operations Order

Effective Date: 09/26/2022

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



#### Operations Order JP-5 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U004A
Revision No:	1.0
Page No:	1 of 8

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

(b) (6)

Digitally signed by (b) (6)
Date: 2022.09.27 21:54:41

Date: 2022.09.27 21:54:41 -10'00'



#### JBPHH Fleet Logistics Center

#### Operations Order JP-5 Pipeline Suction **Drain Down Baseline OPORD** (Date OCT22)

Document No:	U004A
Revision No:	1.0
Page No:	2 of 8

	EVOLUTION START DATE:
	CONTROL ROOM INITIALS (MASTER COPY):
	FIELD COPY INITIALS:
EVOLUTION ORDER	
	s JP-5 unpacking operations from Red Hill to Pearl Harbor to provide Pipeline from (b) (3) (B) Area to (b) (3) (B) with a fuel estimation of 22,324
NOTE: This Operations Operations Orde	Order will provide the information to safely perform the following
BASELINE – VALVE	E ALIGNMENT VERIFICATION
/	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	CRO validates motor operated valves (MOVs)
	☐ Comparison by AFHE in the baseline position to current positon, by writing in the "current position" of the valve with the time of validation
	Rover validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform CRO immediately and bring to attention of SoW in morning briefing

the time of validation



#### Operations Order JP-5 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U004A
Revision No:	1.0
Page No:	3 of 8

JP-5 Valve Baseline via AODD Pump RH to TK 301					
Sequential	Valves	Location	Baseline Position	Current Position	Time
Number 1	Verified (	\	NORMALLY CLOSED		
*	(b) $(3)$	(B)	WORWINEET CEOSED		
2	( ) (	/ / /	NORMALLY CLOSED		
3			NORMALLY CLOSED		
4			NORMALLY CLOSED		
5			NORMALLY CLOSED		
6			NORMALLY CLOSED		
7			NORMALLY CLOSED		
8			NORMALLY CLOSED		
9			NORMALLY CLOSED		
10			NORMALLY CLOSED		
11			NORMALLY CLOSED		
12			NORMALLY CLOSED		
13			NORMALLY OPEN		
14			NORMALLY CLOSED		
15			NORMALLY CLOSED		
16			NORMALLY CLOSED		
17			NORMALLY CLOSED		
18			NORMALLY CLOSED		
19			NORMALLY CLOSED		
20			NORMALLY CLOSED		
21			NORMALLY CLOSED		
22			NORMALLY CLOSED		
					l .



#### Operations Order JP-5 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U004A
Revision No:	1.0
Page No:	4 of 8

23	(b) (3) (B) NORMALLY OPEN	
24	NORMALLY OPEN	
25	NORMALLY OPEN	
26	NORMALLY OPEN	
27	NORMALLY CLOSED	
28	NORMALLY CLOSED	
29	NORMALLY CLOSED	
30	NORMALLY CLOSED	
31	NORMALLY OPEN	
32	NORMALLY OPEN	
33	NORMALLY CLOSED	
34	NORMALLY CLOSED	
35	NORMALLY CLOSED	
36	NORMALLY CLOSED	
37	NORMALLY CLOSED	
38	NORMALLY CLOSED	
39	NORMALLY CLOSED	
40	NORMALLY CLOSED	
41	NORMALLY CLOSED	
42	NORMALLY CLOSED	
43	NORMALLY CLOSED	
44	NORMALLY CLOSED	
45	NORMALLY CLOSED	
46	NORMALLY CLOSED	



#### Operations Order JP-5 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U004A
Revision No:	1.0
Page No:	5 of 8

47	NORMALLY OPEN  NORMALLY CLOSED	
48	NORMALLY CLOSED	
49	NORMALLY CLOSED	
50	NORMALLY CLOSED	
51	NORMALLY CLOSED	
52	NORMALLY CLOSED	
53	NORMALLY CLOSED	
54	NORMALLY OPEN	
55	NORMALLY CLOSED	
56	NORMALLY CLOSED	
57	NORMALLY CLOSED	
58	NORMALLY CLOSED	
59	NORMALLY OPEN	
60	NORMALLY CLOSED	
61	NORMALLY CLOSED	
62	NORMALLY CLOSED	
63	NORMALLY CLOSED	
64	NORMALLY CLOSED	
65	NORMALLY CLOSED	
66	NORMALLY OPEN	
67	NORMALLY CLOSED	
(*) – Denotes	Manual Valve	



#### Operations Order JP-5 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U004A
Revision No:	1.0
Page No:	6 of 8

/	20. After completion of the Baseline Operations Order (OPORD):
	<ul> <li>CRO and Rover: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)</li> </ul>
	<ul> <li>CRO: Ensure Baseline OPORD is provide to SoW for validation at the Watch Team Brief</li> </ul>
Validation Baseli	ne Inspection Completed by:
	Rover #1 (Print, Sign, Date)
	CRO (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
1	Operations Order was completed with NO issues and NO changes, file should be in the completed Operations Order box.

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



#### Operations Order JP-5 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U004A
Revision No:	1.0
Page No:	7 of 8

Date

Date

#### **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
<b>NOTE:</b> If the order required approved modification, the CRO to sign, date and forward and archiving.	d for final approval
<b>NOTE:</b> The Supervisory Distribution Facilities Specialist (SDFS) will pick all Operation end of the day at the Control Room.	ons Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distribution Facilities Special	list

Supervisory Distribution Facilities Specialist (SDFS)

**Deputy Director of Fuels** 

The SDFS to forward this order to the Deputy Director of Fuels

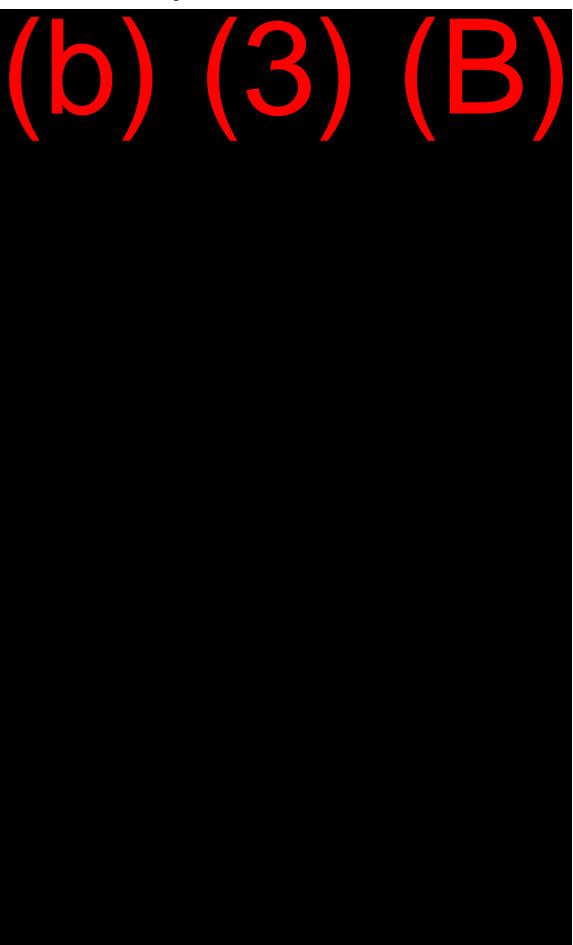


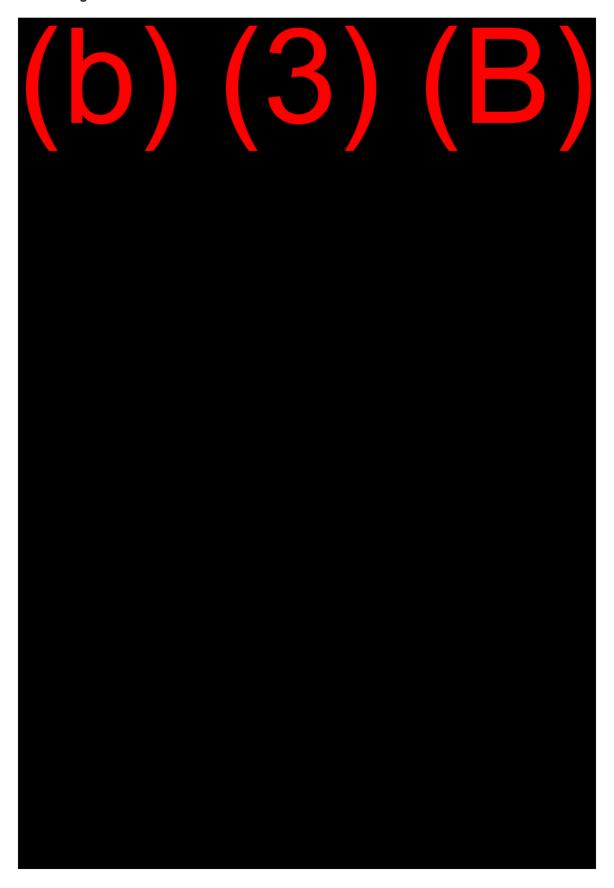
#### Operations Order JP-5 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

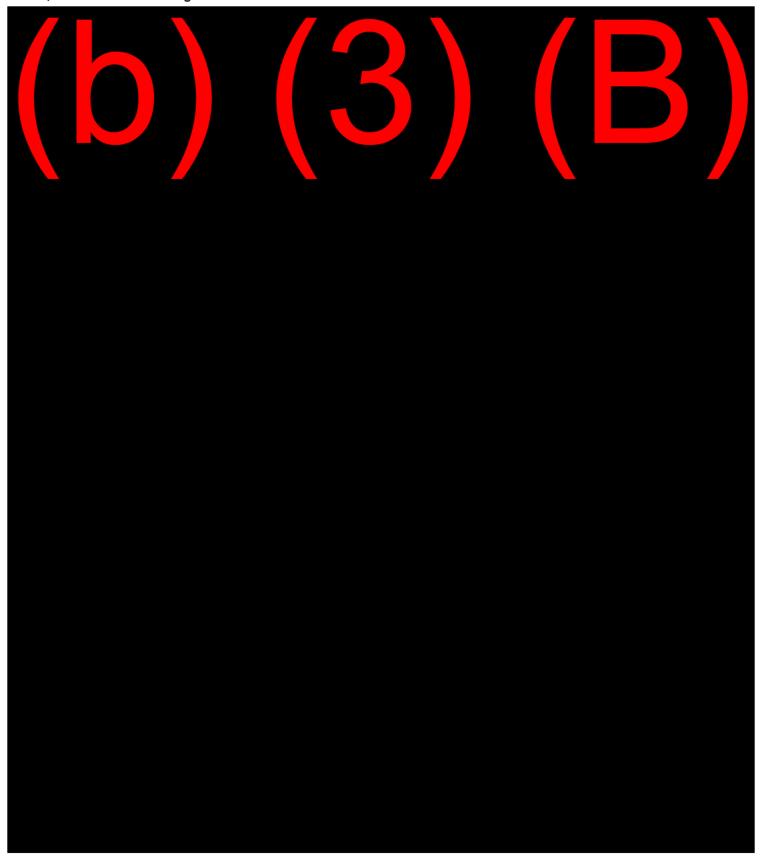
Document No:	U004A
Revision No:	1.0
Page No:	8 of 8

#### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date







Doc Custodian: Fuels Department

1 D 1 CDD 10 C

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### Maintenance Order

#### Red Hill F-76 Line Equalization and Maintenance Order

Doc #: UM03 Rev No. 1

**Maintenance Order** 

Effective Date: 09/26/2022

Reviewed By: (b) (6) — (b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) - Deputy Fuels Director

(b) (6)

Digitally signed by

Date: 2022.09.27 22:36:17 -10'00'

Doc Custodian: Fuels

Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### **Maintenance Order**

#### Red Hill F-76 Line Equalization and Maintenance Order

Doc #: UM03 Rev No. 1

Maintenance Order

Effective Date: 09/26/2022

Requested Start Date: 10/3/2022 Estimated Work Time: 4 hrs **Severity:** Routine

**Operations Support Needed:** No / Yes: Equalize F-76 Line / Return Sectional Valves to Baseline

Operations Scheduling Needed: None / Impact / Blackout: Red Hill to 10/18/18 F-76 LOTO

#### MAINTENANCE ORDER

- 1. This Maintenance Order ONLY details Phase 2, Equalization and Valve Maintenance of the 'F-76 Unpacking Process'.
- 2. DFSP JBPHH conducts equalization on the Red Hill F-76 pipeline to support the maintenance greasing, cycling, and PM work on the sectional valves.

#### WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- Reference the ICP plan for further instruction.

#### REFERENCES

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- 2. UFC 3-460-03, United Facilities Criteria, Operations and Maintenance: Maintenance Petroleum Fuel
- NAVSUPINST 5100.12B Control of Hazardous Energy
- 4. Mechanical Integrity Procedure

#### **ENCLOSURES**

Enclosure (1): ECP

Enclosure (2): WAF: To be completed

Enclosure (3): PM Job Orders: To be completed

# Authored By: (b) (6) Doc Custodian: Fuels Department Approved By: LCDR (b) (6) Date Approved: 09/26/2022 DFSP Pearl Harbor Maintenance Order Red Hill F-76 Line Equalization and Maintenance Order Effective Date: 09/26/2022

#### MAINTENANCE ORDER START

SECTION 1 – MUSTER

#### 

Zone Assignment	Personnel Assignments	Name	Call Sign
	Lead Authorized Person(LAP)		
	Maintenance Controller(MC)		
	Maintenance Personnel(MP)		
	Maintenance Supervisor(MS)		
	Operations Supervisor(OS)		
	Operations Personnel(OP)		
	CRO		
	Assistant CRO		

#### **SECTION 2 - PRE-BRIEF**

<u>DATE TIME INITIALS</u>

#### 

# Authored By: (b) (6) Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### **Maintenance Order**

#### Red Hill F-76 Line Equalization and Maintenance Order

Doc #: UM03	
Rev No. 1	

#### **Maintenance Order**

Effective Date: 09/26/2022

#### **SECTION 3 – WATCH TEAM BRIEF**

<u>DATE</u>	TIME	INIT	<u>IALS</u>	
	/	/	_50.	LAP: Lead the brief in the Maintenance Control Room to include:
				ECP review
				WAF review
				Maintenance Order
				Operations Involvement
	/	/	_60.	MC: Administrate Documents, Provide Locks, and Post WAF.
	/	/	_70.	MP: Confirm and Sign ECP and WAF.
	/	/	_80.	<b>OS/MS:</b> Confirm personnel assignments, scheduling, and operations requirements.
	/	/	_90.	CRO: Confirm readings and information accuracy:
				Flow Path – is accurate and no *oos* notes in AFHE
				MOV Isolation – MOVs indicated in ECP not part of separate LOTO, and actuation will not interfere with simultaneous operations
				AFHE Involvement - Confirm AFHE ability to support order
				Approximate duration – Confirm scheduling and control of simultaneous operations will not overburden Control Room
SECT	TION 4	4 – P	RE-C	CHECK
DATE	TIME	INIT	IALS	
	/	/	_100.	LAP: Walk and view piping and isolation points, confirming ECP.
	/	/	_110.	MC: Walk and view piping and isolation points, confirming ECP.

#### Attach & Review ECP and ECP drawings to this order.

# Authored By: (b) (6) Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### **DFSP Pearl Harbor**

#### **Maintenance Order**

#### Red Hill F-76 Line Equalization and Maintenance Order

Doc #: UM03	
Rev No. 1	

**Maintenance Order** 

Effective Date: 09/26/2022

#### **SECTION 5 – ISOLATING AND LOTO**

LAP: Verify ECP Valve Configuration and Hang Equipment Locks & Tags.
LAP/MP: Install Locking Devices and Tags per ECP.
LAP: Review Locks, Tags, and Isolation Devices.
LAP: Sign and Post WAF and ECP package at job site.
<b>OP:</b> Vent F-76 Line
Install Compound Pressure Gauge assembly at (b) (3) (B)
Open (b) (3) (B) , keeping the Pressure Gauge assembly valve closed. Should see pressure decrease here slightly
Verify Gauge is reading psig
Very Slowly Open Pressure Gauge assembly valve – NOTE: May hear air suck into pipe
Wait for pressure to equalize
OP: Open Sectionals (b) (3) (B)
Slowly Open (b) (3) (B), keeping communication with OP a (b) (3) (B). If the pressure reads opening of the valve
Open until the valve is fully open – verified by indicator and CRO
Wait for pressure to equalize
Repeat this step until all stated sectionals have been opened and the pipeline has been equalized
<b>OP:</b> Close (b) (3) (B)
RGOING MAINTENANCE
MP: Complete assigned PM and Job Orders.

# Authored By: (b) (6) Doc Custodian: Fuels

Department

#### **DFSP Pearl Harbor**

#### **Maintenance Order**

#### Red Hill F-76 Line Equalization and **Maintenance Order**

Doc #: UM03 Rev No. 1
Maintenance Order

Effective Date: 09/26/2022

Date Approved: 09/26/2022

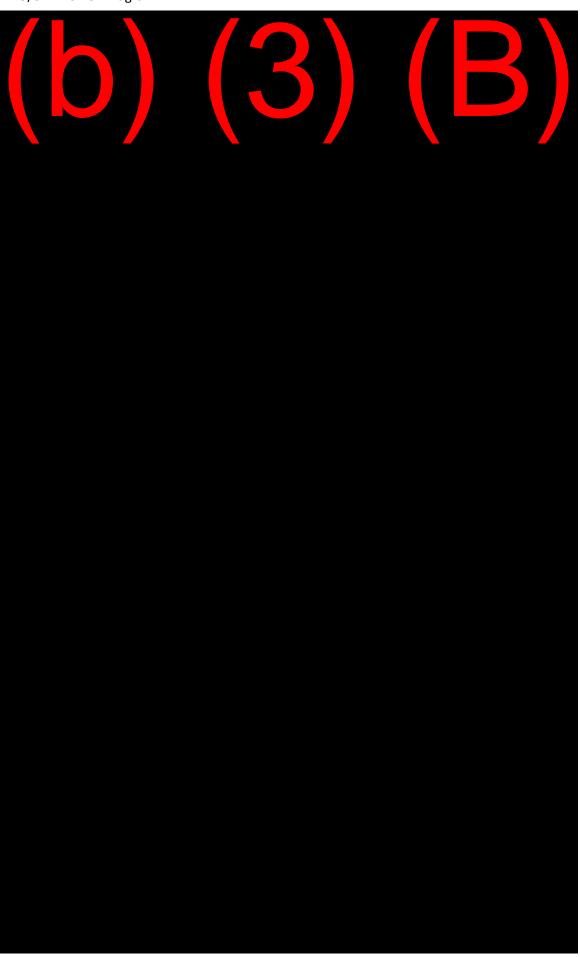
Approved By: LCDR (b) (6)

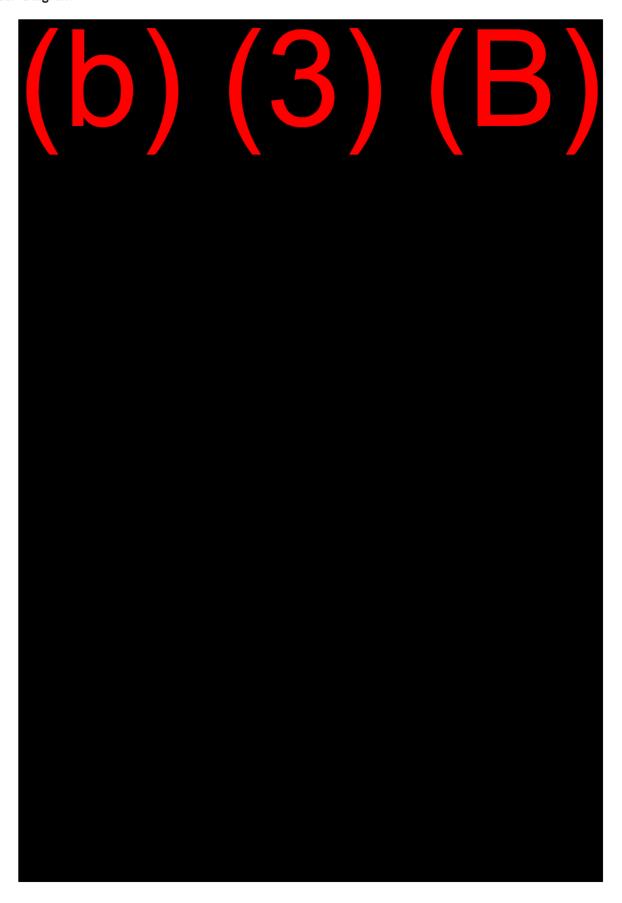
#### REVISION HISTORY

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date

### ENERGY CONTROL PROCEDURE (ECP) FORM

Energy Control Procedure NoDDF76 Lockbox No1 Page _1 of _1_											
										Date:	
Location and WAF Number				Red Hill	Red Hill		Job Lock Key Custodian (Maintenance Cor (b) (6)		nce Controller)		
Equipme	nt ID/	Description		F76 Head	ler and Later	als	Change				
							C.I.	Fror	n	То	Date/Time
Job Desc	riptior	1		Lo/To (flo	owpath only)	for F76	Change	Fror	m	То	Date/Time
Lead Aut	horize	ed Employee		(b) (6)							Date, Illie
		Au	horized Employe Documer		all Affected Pe ps below and p						
LOTO Isolatio Date	on	Valve Number	Lock and/or tag Number and Blind Number	Isolation Position (Open or Closed)	LOTO Installed By	Lock Tag Try (Y/N)	g LOT Remo Dat	val	LOTO Remove By		Comments
9/9/22		(D) (D) (L	F76-1	Closed	RTB	Υ					
9/9/22			F76-2	Closed	RTB	Υ					
9/9/22			F76-3	Closed	RTB	Υ					
9/9/22			F76-4	Closed	RTB	Υ					
9/15/22	2		F76-B1	Closed	RTB	Υ					
9/15/22	2		F76-B2	Closed	RTB	Υ					
9/15/22	2		F76-B3	Closed	RTB	Υ					
9/9/22			F76-5	Closed	RTB	Υ					
9/9/22			F76-6	Closed	RTB	Υ					
9/9/22			F76-7	Closed	RTB	Υ					
9/9/22			F76-8	Closed	RTB	Υ					
9/15/22	2		F76-B4	Closed	RTB	Υ					
9/16/2	2		F76-B5	Closed	RTB	Υ					
Prehun	g		F76-9	Closed						lock	Valve to be ked close post acking
By printing my name in the box below, I signify that all stored energy is dissipated. All isolation points are in the proper position and my personal lock has been attached to either an individual lockout tagout device or group lockbox.											
Print Authorized Employee Name and Company				Write o	n the back	if ne	cessary				
1						4					
2						5					
3						6					





Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

#### **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U005 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

(b) (6)

Digitally signed by

Date: 2022.09.27 22:37:29 -10'00'

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6) Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc #: U005 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

EVOLUTION START DATE:	_
CONTROL ROOM INITIALS (MASTER COPY):	
FIELD COPY INITIALS:	

#### **EVOLUTION ORDER**

- 1. This Operations Order ONLY details **Phase 3**, **Gravity Drain**, of the 'F-76 Unpacking Process'.
- 2. DFSP JBPHH conducts unpacking operations from the Red Hill F-76 Pipeline to YON to vacate F-76 pipeline of  $\sim$ 250,000 gallons.

Issue Source	Receipt Tank	Volume	Deputy Director of Fuels Initial
RH F-76 Pipeline	YON		

WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- Reference the ICP plan for further instruction.

#### REFERENCES

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- 2. MIL STD 3004-1: Department of Defense Standard Practice Quality Assurance for Bulk Fuels, Lubricants and Related Products
- 3. Integrated Contingency Plan (ICP), Date August 2018

#### **ENCLOSURES**

Enclosure (1): Flow Diagram

Enclosure (2): Terminal Pier PIC Checklist

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

**Operations Order** 

RH F-76 Unpacking to YON Gravity

Doc #: U005 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### OPERATIONAL ORDER START

CAUTION: If a deviation or modification is needed in this order, the CRO must obtain proper approval for the change following the <a href="Change Request Form">Change Request Form</a> at the rear of this document.

**NOTE:** A valve baseline must be conducted prior to the execution of this Operations Order.

#### **SECTION 1 – MUSTER**

#### DATE TIME INITIALS

Zone Assignment	Personnel Assignments	Name	Call Sign
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (6) (3) (8)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery		
	(b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B) 8		
Zone 10	Rover #10 (b) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (b) (3) (5)		
Zone 13	Rover #13 Hotel Pier		
Zone 14	Rover #14 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON	YON PIC		
YON OT (3) (6)	Assistant YON PIC		
YON (5) (8)	YON Assistant		
RH Skillet TK (1) (3) (8)	RH Independent Validator		
Hotel Pier	PH Independent Validator		

|--|

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

#### **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U005 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### **SECTION 2 – PRE-BRIEF**

<u>DATE</u>	TIME	INIT	<u>TIALS</u>	
/		/	20.	<b>SoW:</b> Confirm the following procedures are complete IOT conduct Phase 3: F-76 Pipeline Drain Down:
				Phase 2: Maintenance Order/Pressure Equalization has been completed and operating conditions are acceptable to proceed.
				Baseline Operations Orders is completed and validated accurate (Doc# $006A$ ).
/		/	30.	<b>WS:</b> Confirm and assign required personnel needed for this Operations Order.
/		/	40.	CRO: Verify the following procedures have been completed.
				Valve baseline matches current AFHE configuration
				SDS and ICP are on-hand and updated
				Ullage in YON is greater than ~275,000 gallons for transfer (110% of transfer amount)

Receiving Tank	Start Level (Ft/In)	Start Ullage (Gal)	CRO Initials	Assistant CRO Initials	Time
YON					

Authored By: (b) (6)
Doc Custodian: Fuels Department

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

Doc #: U005	
Rev No. 1	

Department	RH F-76 Unpacking to YON via	Unpack Operating Order
Approved By: LCDR (b) (6)	Gravity	
Date Approved: 09/26/2022		Effective Date: 09/26/2022
/50.	YON PIC: Prepare/provide the following re	equired paperwork:
	Operation Orders	
	C700 Operations Notification Flow Chart	
	Barge and Ullage Report	
60.	CRO: Prepare/provide the following require	ed paperwork:
	Tank Inventory Control Daily Levels	
	Transfer Record	
SECTION 3 – WATO	TH TEAM DDIFF	
DATE TIME INITIALS	II TEAW DRIEF	
/	SoW: Lead the brief in the (0) (8) (5) Control 1	Room to include:
	Operational Procedures/Priorities	
	Operational Expectations	
	Integrated Contingency Plan	
/	SoW: Step through operations order and ad-	dress any questions.

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

#### **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc	#:	U	00	)5
Rev	N	•	1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### SECTION 4 – PRE-OPERATION CHECK

DATE	TIME	IN	<u>ITIALS</u>	
	/	/	90.	<b>YON PIC:</b> Ensure all procedures are completed prior to executing F-76 Drain Down Operations:
				Report Time of YON Crew
				Thermal Baseline Verified
	/	/	100.	<b>Terminal PIC:</b> Ensure all procedures are completed prior to executing F-76 Drain Down Operations:
				Terminal Pier PIC Checklist
				Verify Fuel Riser Utilized
			П	Verify Amount being Transferred

# Authored By: (b) (6) Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

# DFSP Pearl Harbor Recurring

**Operations Order** 

RH F-76 Unpacking to YON via Gravity

Doc #: U005 Rev No. 1
Unpack Operating Order

Effective Date: 09/26/2022

SECTION 5 – VALVE ALIGNMENT

# DATE TIME INITIALS \_\_\_\_\_/\_\_\_\_110. All Assigned Personnel: Report to designated zones and conduct radio communications check with CRO.

Zone Assignment	Personnel Assignments	Call Sign	Report Time
Control Room	SoW	8	•
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (b) (3) (B)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery		
	(b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B)		
Zone 10	Rover #10 (b) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (6) (8) (8)		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (B) (B)	YON PIC		

Authored By:	(b) (6)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

#### **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U005 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

/	/	120.	YON PIC: Direct Hose Movement and Connection:
			Transfer Hose from YON to Hotel Pier
			Connect and secure hose to riser
			Line-up YON for receiving, keeping header valve CLOSED
			Inform CRO that connection has been completed
/	/	130.	<b>CRO:</b> Request permission to start the F-76 Drain Down Valve Alignment:
			☐ CRO to SoW
			☐ SoW to Fuels Director
			☐ Fuels Director to Command Officer
/	/	140.	RH PIC: Ensure pressure on compound gauge at HPV is maintained between (b) (3) (B) psi throughout the operation.
/	/	150.	CRO: Direct RH WL to OPEN (b) (3) (B)
/	/	160.	<b>CRO:</b> Use the table below to sequentially <b>OPEN</b> and validate the valves using the "point and call" system.
/	/	170.	<b>Rov/IV:</b> Validate valve alignment in the field and report valve position per <b>CRO</b> point and call request

erro pomento con requision						
Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time
Number	OPEN		Initials	CRO Initials		Independent
						Validator
1	(h) (4	3) (B)				
2	( ) (					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
(*) Denotes manual valves.						

Authored By: (b) (6)	DFSP Pearl Harbor Recurring	Doc #: U005 Rev No. 1
Doc Custodian: Fuels Department	Operations Order  RH F-76 Unpacking to YON via	Unpack Operating Order
Approved By: LCDR (b) (6)	Gravity	
Date Approved: 09/26/2022		Effective Date: 09/26/2022
	·	

YON PIC and IV: Use the table below, align header, issue and meter valves and report to CRO

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent
						Validator
1	(h) ('	3) (R)				
2	(D)					
3						
(*) Denotes	(*) Denotes manual valves.					

 /	/	190.	<b>Terminal PIC:</b> Ensure Pier is ready to "Receive" F-76 for Drain Down Operations:
			Vacuum Truck is positioned at Hotel Pier
			Spill Kits and Fire Extinguisher Available

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

### **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U005	
Rev No. 1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### **SECTION 5 – DRAINING**

#### <u>DATE TIME INITIALS</u>

/	/	200.	<b>CRO:</b> Request permission to start the F-76 Drain Down:
			☐ CRO to SoW
			☐ SoW to Fuels Director
/	/	210.	☐ Fuels Director to Command Officer  CRO: Complete the following procedures prior to pressurizing the hose:
			<ul><li>□ Verify valve alignment</li><li>□ Verify hose connection</li></ul>
/	/	220.	☐ Verify YON header valve is CLOSED  CRO: Slowly OPEN (b) (3) (B) and (b) (3) (B).
	/	230.	Terminal PIC: Slowly OPEN Fuel Riser/Station /
/	/	230. 240.	CRO: Inform Control Tower that YON loading will begin.

Authored By:	(b)(6)	

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc #: U005 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

All Personnel: Monitor zones for leaks, sheen, and abnormal conditions. / / 250.

Zone Assignment	Personnel Assignments	Call Sign	Report Time
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank	Work Supervisor RH		
Gallery			
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (6)(8)(8)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery		
	(b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B) <sup>8</sup>		
Zone 10	Rover #10 (b) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (5)(3)(6)		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (0) (3) (6)	YON PIC		
/ /	260. YON PIC: After zone c	hecks have been comple	eted, slowly OPEN YON

YON PIC: After zone checks have been completed, slowly OPEN YON header valve and inform CRO start of transfer.

Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time
Number	OPEN		Initials	CRO Initials		Independent
						Validator
1	(b) (3) (l	B)				

/	/	270.	CRO/RH WL: Monitor pressure on compound gauge at HPV, throttling
			(b) (3) (B) as needed to reduce vacuum.
/	/	280.	RH WL: After (b) (3) (B) gal has drained, OPEN (b) (3) (B).

Authored	Bv:	(b)	(6)
		\— <i>/</i>	

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# DFSP Pearl Harbor Recurring

#### **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #:	U005
Rev No	o 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

/	_/290.	YON PIC	: Report to CRO and record	Y ON levels half i	iouriy.			
Hour # (Time)	Tank L	evel	Current Amount(Gals)	CRO Initials	Assistant CRO Initials			
.5 ( )								
1( )								
1.5 ( )								
2( )								
2.5 ( )								
3 ( )								
3.5 ( )								
4( )								
4.5 ( )								
5( )								
	/300.		: Monitor <b>Tank Level</b> during ached 250,000 gallons, inform					
/	_/310.		CRO/YON PIC: Once F-76 Operation has transferred 250,000 gallons, YON PIC will CLOSE the Hotel riser and YON header valve.					
/	_/320.	CRO: Inf	orm Control Tower that YON	loading has ende	ed			

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

<u>DATE TIME INITIALS</u>

### **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U005 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### **SECTION 6 – RETURN TO BASELINE**

/	/	330.	<b>CRO:</b> Use the table below to sequentially <b>CLOSE</b> and validate the valves using the "point and call" system.
/	/	340.	<b>Rov/IV:</b> Validate valve alignment in the field and report valve position per <b>CRO</b> point and call request.

Sequential Number	Valves Verified CLOSE	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent Validator
1	(b) (3)	(B)				
2						
1						
2						
3						
4						
5						
6						
7						
8						
9						
(*) Denotes	manual valves					

All F-76 Sectional Valves will remain **OPEN** from **(b) (3) (B)** to Red Hill Lower Tank Gallery.

Authored By: (b) (6)	
Doc Custodian: Fuels Department	

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

# DFSP Pearl Harbor Recurring

#### **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc #: U005		
Rev No. 1		

**Unpack Operating Order** 

Effective Date: 09/26/2022

YON PIC & IV: Use the table below to ensure YON Valves are CLOSED and OPEN IOT return YON Valve baseline with thermal exception

Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time
Number	CLOSED		Initials	CRO Initials		Independent
			_			Validator
1	(h) ('	(R)				
2	(D)	J) (D)				
3						
(*) Denotes	manual valves.		_			

/	_/	_360.	RH PIC/WL: Report the following procedures have been completed and
			report to CRO:

- □ (b) (3) (B) CLOSE
- □ (b) (3) (B) CLOSE

Authored	D. 7.	(h)	(6)
Aumorea	ъy.	(D)	(0)

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

### **DFSP Pearl Harbor Recurring**

#### **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc	#:	U	00	5
Rev	N	•	1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

/370.	All assigned personnel: Repor	t zone condition to CRO.
-------	-------------------------------	--------------------------

Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank		
	Gallery		
Zone 2	Rover #2 TK (D)(S)(B)		
Zone 3	Rover #3 Lower Tank		
	Gallery		
Zone 4	Rover #4 Lower Tank		
	Gallery (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B)*		
Zone 10	Rover #10 (b) (3) (B) <sup>5</sup>		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (b) (3) (B)		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON DISTRIBUTION	YON PIC		

/	<b>CRO:</b> Ensure the follow procedures are completed and announce when
	complete:

<sup>☐</sup> F-76 path utilized is back to baseline configuration

# Authored By: (b) (6) Doc Custodian: Fuels Department

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc #: U005 Rev No. 1
Unpack Operating Order

Effective Date: 09/26/2022

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

#### SECTION 7 - CLOSEOUT

DATE TIME INITIALS						
/	/390.	<b>YON PIC:</b> Manually gauge rec secure time of the F-76 operation <b>CRO</b> .				
Receiving Tank	Finish Level (Ft/I	n) Finish Level (Gal)	CRO Initials	Assistant CRO Initials	Time	
YON						
//		all procedures completed IAW Of Documentation is completed all information/signature blocks of SoW: Notify Operational personal SoW: Notify Fuels Director operations	on operation orde	ration is complete.		

Authored By:	(b) (6)
radiation and any.	$\langle -\rangle \langle -\rangle$

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc	#:	U00:
Rev	N	1

**Unpack Operating Order** 

Effective Date: 09/26/2022

# **Operations Order Closeout**

Select the appropriate statement below:

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order.	

**NOTE:** If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

end of the day at the Con	trol Room.	k all Operations Orders up at the
	CRO	Date
The CRO to forward this proceed	dure to the Supervisory Distributive Fac	ilities Specialist.
Supervisory Distributiv	re Facilities Specialist (SDFS)	Date
The CDEC to forward this and a	to the Demote Diseaton of Fools	
<ul> <li>The SDFS to forward this order</li> </ul>	to the Deputy Director of Fuels.	
	Director of Fuels	Date

Authored By:	(b) (6)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc	#:	U	0	05
Rev	No		1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

# **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005A
Revision No:	1.0
Page No:	1 of 8

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

Digitally signed by

(b) (6)

Date: 2022.09.29 07:17:19 -10'00'



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005A
Revision No:	1.0
Page No:	2 of 8

EVOLUTION START DATE:	_
CONTROL ROOM INITIALS (MASTER COPY):	_
FIELD COPY INITIALS:	

### **EVOLUTION ORDER**

1. DFSP JBPHH conducts F-76 unpacking operations from Red Hill to Pearl Harbor to provide drain down of the F-76 Pipeline from Lower Tank Gallery Area to (b) (3) (b) with a fuel estimation of 250,000 gallons

**NOTE:** This Operations Order will provide the information to safely perform the following Operations Order

#### BASELINE – VALVE ALIGNMENT VERIFICATION

DATE TIME INITIALS	<u>5</u>
/	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
[	☐ CRO validates motor operated valves (MOVs)
	☐ Comparison by AFHE in the baseline position to current positon, by writing in the "current position" of the valve with the time of validation
[	Rover validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005A
Revision No:	1.0
Page No:	3 of 8

F-76 Valve Baseline from RH to Hotel Pier					
Sequential	Valves	Location	Baseline Position	Current Position	Time
Number	Verified		NODWALLYCLOSED		
1	(b) (3	B) (B)	NORMALLY CLOSED		
2			NORMALLY CLOSED		
3			NORMALLY CLOSED		
4			NORMALLY CLOSED		
5	-		NORMALLY CLOSED		
6			NORMALLY CLOSED		
7			NORMALLY OPEN		
8			NORMALLY OPEN		
9			NORMALLY OPEN		
10			NORMALLY OPEN		
11	-		NORMALLY OPEN		
12	-		NORMALLY CLOSED		
13	-		NORMALLY CLOSED		
14			NORMALLY CLOSED		
15			NORMALLY CLOSED		
16			NORMALLY OPEN		
17			NORMALLY CLOSED		
18			NORMALLY OPEN		
19			NORMALLY CLOSED		
20			NORMALLY CLOSED		
21			NORMALLY CLOSED		
ATTENTTON	On as printed	for field use	the document becomes a	NON CONTROL CO	DV. The user of



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005A
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Page No:	4 of 8

22	NORMALLY CLOSED  NORMALLY CLOSED	
23	NORMALLY CLOSED	
24	NORMALLY CLOSED	
25	NORMALLY CLOSED	
26	NORMALLY CLOSED	
27	NORMALLY CLOSED	
28	NORMALLY CLOSED	
29	NORMALLY CLOSED	
30	NORMALLY CLOSED	
31	NORMALLY OPEN	
32	NORMALLY OPEN	
33	NORMALLY CLOSED	
34	NORMALLY CLOSED	
35	NORMALLY OPEN	
36	NORMALLY CLOSED	
37	NORMALLY CLOSED	
38	NORMALLY CLOSED	
39	NORMALLY CLOSED	
40	NORMALLY CLOSED	
41	NORMALLY CLOSED	
42	NORMALLY CLOSED	
43	NORMALLY CLOSED	
	(SPOOLED)	
44	NORMALLY CLOSED	
45	NORMALLY CLOSED	



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

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46	(b) (3) (B)	NORMALLY CLOSED		
47	( ) ( ) ( )	NORMALLY CLOSED		
48		NORMALLY CLOSED		
49		NORMALLY CLOSED		
50		NORMALLY CLOSED		
51		NORMALLY CLOSED		
		(SPOOLED)		
52		NORMALLY CLOSED		
53		NORMALLY CLOSED		
54		NORMALLY CLOSED		
55		NORMALLY CLOSED		
56		NORMALLY CLOSED		
57		NORMALLY CLOSED		
		(SPOOLED)		
58		NORMALLY CLOSED		
59		NORMALLY CLOSED		
60		NORMALLY CLOSED		
61		NORMALLY CLOSED		
(*) – Denotes	Manual Valve		1	

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

All (b) (3) (B) Valves are OPEN for thermal expansion



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005A
Revision No:	1.0
Page No:	6 of 8

//	20. After completion of the Baseline Operations Order (OPORD):
	<ul> <li>CRO and Rover: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)</li> </ul>
	☐ CRO: Ensure Baseline OPORD is provide to SoW for validation at the Watch Team Brief
Validation Baseline	e Inspection Completed by:
	Rover #1 (Print, Sign, Date)
	CRO (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
	perations Order was completed with NO issues and NO changes, file should be at the completed Operations Order box.

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005A
Revision No:	1.0
Page No:	7 of 8

## **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
<b>NOTE:</b> If the order required approved modification, the CRO to sign, date and forward f and archiving.	or final approval

end of the day at the Control Room.	all Operations Orders up at the
CRO	. Date
The CRO to forward this procedure to the Supervisory Distribution Faciliti	es Specialist
Supervisory Distribution Facilities Specialist (SDFS)	Date
The SDFS to forward this order to the Deputy Director of Fuels	
Deputy Director of Fuels	. Date



# Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005A
Revision No:	1.0
Page No:	8 of 8

## **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005B
Revision No:	1.0
Page No:	1 of 8

Reviewed By:(b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

Digitally signed by
(b) (6)
Date: 2022.09.27 22:38:36 -10'00'



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005B
Revision No:	1.0
Page No:	2 of 8

EVOLUTION START DATE:	
CONTROL ROOM INITIALS (MASTER COPY):	
FIELD COPY INITIALS:	

### **EVOLUTION ORDER**

1. DFSP JBPHH conducts F-76 unpacking operations from Red Hill to Pearl Harbor to provide drain down of the F-76 Pipeline from Lower Tank Gallery Area to (b) (3) (b) with a fuel estimation of 250,000 gallons

**NOTE:** This Operations Order will provide the information to safely perform the following Operations Order

#### BASELINE – VALVE ALIGNMENT VERIFICATION

DATE TIME INITIALS	
/	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	YON PIC & YON 2 <sup>nd</sup> PIC (IV) validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

**NOTE:** Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005B
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		YO	N <sup>orone</sup> Valve Thermal Base	line	
Sequential Number	Valves Verified	Location	Baseline Position	Current Position	Time
1	(b) (3	B) (B)	NORMALLY CLOSED		/
2			NORMALLY CLOSED		/
3			NORMALLY OPEN		/
4			NORMALLY CLOSED		/
5	-		NORMALLY CLOSED		/
6			NORMALLY CLOSED		/
7			NORMALLY CLOSED		/
8			NORMALLY CLOSED		/
9			NORMALLY CLOSED		/
10			NORMALLY CLOSED		/
11			NORMALLY OPEN		/
12	-		NORMALLY OPEN		/
13			NORMALLY OPEN		/
14			NORMALLY OPEN		/
15			NORMALLY CLOSED (BLINDED)		/
16			NORMALLY CLOSED		/
17			NORMALLY CLOSED		/
18			NORMALLY OPEN		/
		C C 11			



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005B
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(*) – Denotes Manual Valve				
All six (6) Valves are OPEN for thermal expansion	1			
☐ Verify all <mark>(b</mark> Enclosure (1)) ar				
-	eport to CRO the following (b) (3) (B) tank hatches closure (1)) are CLOSED			

		YON			
Sequential Number	Hatch Verified	Location	Baseline Position	Current Position	Time
1	(h) (s	$2 \setminus \langle D \rangle$		NORMALLY	/
	(D)	B) (B)		CLOSED	
2				NORMALLY	/
				CLOSED	
3				NORMALLY	/
				CLOSED	
4				NORMALLY	/
				CLOSED	
5				NORMALLY	/
				CLOSED	
6				NORMALLY	/
				CLOSED	
7				NORMALLY	/
				CLOSED	
8				NORMALLY	/
				CLOSED	
9				NORMALLY	/
				CLOSED	
10				NORMALLY	/
				CLOSED	
(*) – Denotes	Manual Valve				



Operations Order YON F-76 Pipeline
Drain Down Baseline OPORD
(Date OCT22)

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Enclosure (1)



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

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/	
	☐ YON PIC & YON 2 <sup>nd</sup> PIC (IV) Print, sign and date at the bottom of the OPORD
Validation B	aseline Inspection Completed by:
	YON PIC (Print, Sign, Date)
	YON 2 <sup>ND</sup> PIC (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
NOTE: If	the Operations Order was completed with NO issues and NO changes, file should be

NOTE: If the Operations Order was completed with NO issues and NO changes, file should be placed in the completed Operations Order box.

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U005B
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## **Operations Order Closeout:**

Select the appropriate statement below

CITO IIIIII

**NOTE:** If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

N	OTE: The Supervisory Distribution Facilities Specialist (SDFS) will pick all C end of the day at the Control Room.	perations Orders up at the
_	CRO	Date
•	The CRO to forward this procedure to the Supervisory Distribution Facilities S	Specialist
_		
	Supervisory Distribution Facilities Specialist (SDFS)	Date
•	The SDFS to forward this order to the Deputy Director of Fuels	
	Deputy Director of Fuels	Date

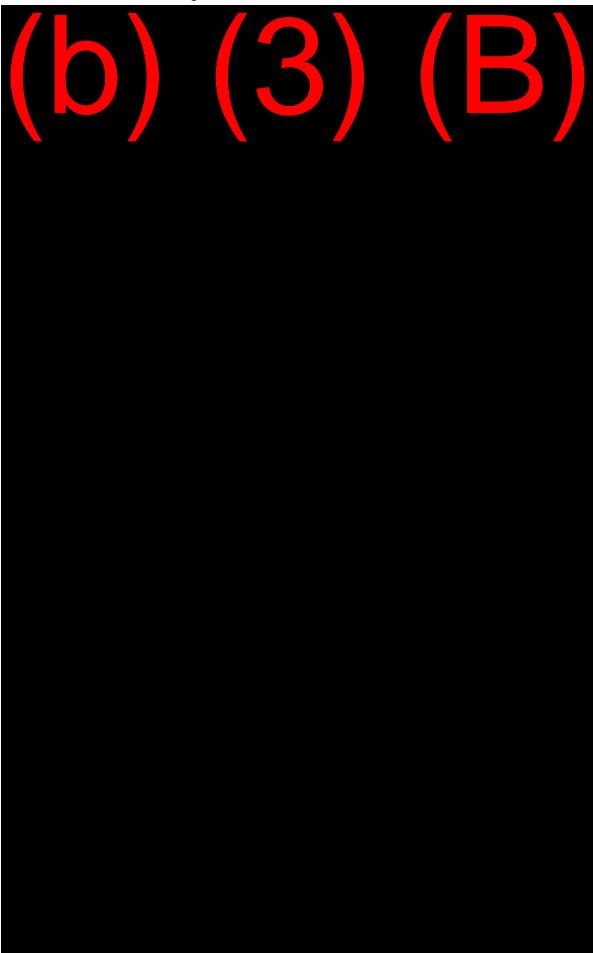


Operations Order YON F-76 Pipeline
Drain Down Baseline OPORD
(Date OCT22)

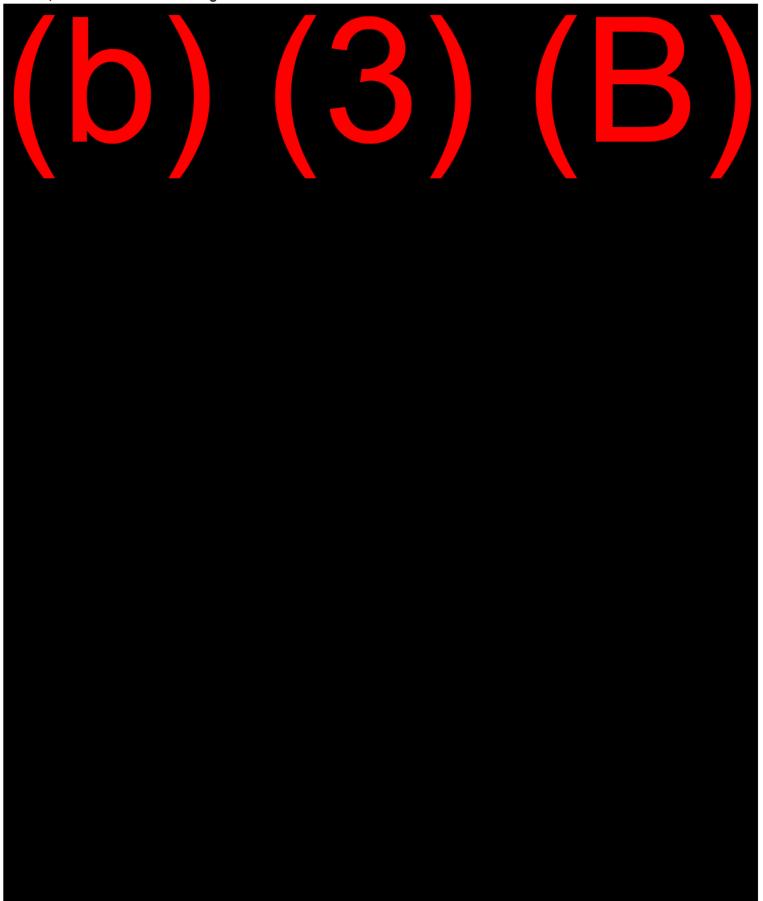
Document No:	U005B
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## **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date







Doc Custodian: Fuels Department

Approved By: LCDR(b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director



Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc	#:	U	006	5
Rev	No	•	1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

EVOLUTION START DATE:	_
CONTROL ROOM INITIALS (MASTER COPY):	
FIELD COPY INITIALS:	

### **EVOLUTION ORDER**

- 1. This Operations Order ONLY details **Phase 3**, **Gravity Drain**, of the 'F-76 Unpacking Process'.
- 2. DFSP JBPHH conducts unpacking operations from the <u>Red Hill F-76 Pipeline</u> to <u>YON</u> to vacate F-76 pipeline of ~372,979 gallons.

Issue Source	Receipt Tank	Volume	Deputy Director of Fuels Initial
RH F-76 Pipeline	YON		

WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

#### REFERENCES

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- MIL STD 3004-1: Department of Defense Standard Practice Quality Assurance for Bulk Fuels, Lubricants and Related Products
- 3. Integrated Contingency Plan (ICP), Date August 2018

#### **ENCLOSURES**

Enclosure (1): Flow Diagram

Enclosure (2): Terminal Pier PIC Checklist

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

#### OPERATIONAL ORDER START

CAUTION: If a deviation or modification is needed in this order, the CRO must obtain proper approval for the change following the <a href="Change Request Form">Change Request Form</a> at the rear of this document.

**NOTE:** A valve baseline must be conducted prior to the execution of this Operations Order.

## **SECTION 1 – MUSTER**

#### DATE TIME INITIALS

Zone Assignment	Personnel Assignments	Name	Call Sign
Control Room	SoW		Ŭ
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (b) (3) (B)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B)		
Zone 10	Rover #10 (0) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (b)(3)(6)		
Zone 13	Rover #13 Hotel Pier		
Zone 14	Rover #14 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (D)(S)(B)	YON PIC		
YON (O)(S)(G)	Assistant YON PIC		
YON (D) (S) (B)	YON Assistant		
RH Skillet TK (b) (3) (B)	RH Independent Validator		
Hotel Pier	PH Independent Validator		

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

This copy was printed on: 9/27/2022, 10:19:31 PM

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc	#:	U000
Rev	N	1

**Unpack Operating Order** 

Effective Date: 09/26/2022

## **SECTION 2 – PRE-BRIEF**

DATE III	<u>IE INITIAL</u>	<u>s</u>					
/			<b>SoW:</b> Confirm the following procedures are complete IOT conduct Phase 3: F-76 Pipeline Drain Down:				
			ase 2: Maintenance Order/Pressure Equalization has been completed and perating conditions are acceptable to proceed.				
		□ Bas	seline Operations Orders is con	pleted and valid	ated accurate (Doc#	<sup>‡</sup> 006A).	
/	/30		<b>WS:</b> Confirm and assign require Order.	ed personnel nee	ded for this Operati	ons	
/	40	. (	CRO: Verify the following productions:	cedures have bee	en completed.		
		□ Val	lve baseline matches current Al	FHE configuration	on		
		□ SD	S and ICP are on-hand and upd	lated			
			age in YON is greater than nsfer amount)	~485,241 gallon	s for transfer (110%	of of	
Receiving Tank	Start Level (	Ft/In)	Start Ullage (Gal)	CRO Initials	Assistant CRO Initials	Time	
	Start Level (	Ft/In)	Start Ullage (Gal)	CRO Initials		Time	
Tank	Start Level (		Start Ullage (Gal)  YON PIC: Prepare/provide the		Initials	Time	
Tank		. 3			Initials	Time	
Tank		. Y	ON PIC: Prepare/provide the	following requir	Initials	Time	
Tank		. Y. □ Op	YON PIC: Prepare/provide the eration Orders	following requir	Initials	Time	
Tank YON  /		. Y □ Op □ C70	YON PIC: Prepare/provide the eration Orders  00 Operations Notification Flow	following requirew	Initials red paperwork:	Time	
Tank YON  /			YON PIC: Prepare/provide the eration Orders 00 Operations Notification Flowage and Ullage Report	following require w Chart	Initials red paperwork:	Time	

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

<u>DATE TIME INITIALS</u>

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006	
Rev No. 1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

# **SECTION 3 – WATCH TEAM BRIEF**

/	/	70.	<b>SoW:</b> Lead the brief in the (6) (8) (6) Control Room to include:
	i		<del></del>
			Operational Procedures/Priorities
			Operational Expectations
			Integrated Contingency Plan
			integrated contingency rain
/	/	80.	<b>SoW:</b> Step through operations order and address any questions.

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc	#:	U	006	5
Rev	No	•	1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

## **SECTION 4 – PRE-OPERATION CHECK**

DATE	TIME	<u>INI</u>	TIALS	
	/	/	90.	<b>YON PIC:</b> Ensure all procedures are completed prior to executing F-76 Drain Down Operations:
				Report Time of YON Crew
				Thermal Baseline Verified
	/	/	100.	<b>Terminal PIC:</b> Ensure all procedures are completed prior to executing F-76 Drain Down Operations:
				Terminal Pier PIC Checklist
				Verify Fuel Riser Utilized
			П	Verify Amount being Transferred

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

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**Unpack Operating Order** 

Effective Date: 09/26/2022

## **SECTION 5 – VALVE ALIGNMENT**

Zone Assignment Control Room		Call Sign	Report Time
Control Room	Personnel Assignments SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK <mark>(b) (3) (B)</mark>	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (b) (3) (B)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery		
	(b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9(b) (3) (B) <sup>8</sup>		
Zone 10	Rover #10 (b) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (b) (5) (5)		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON	YON PIC		

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc #: U006	
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**Unpack Operating Order** 

Date Appro	ved: 09/2	6/2022	Effective Date: 09/26/2022			
/	/	130.	CRO: Request permission to start the F-76 Drain Down Valve Alignmo			
			□ CRO to SoW			
			☐ SoW to Fuels Director			
			☐ Fuels Director to Command Officer			
/	/	140.	RH PIC: Ensure pressure on compound gauge at HPV is maintained between (b) (3) (B) psi throughout the operation.			
/	/	150.	CRO: Direct RH WL to OPEN (b) (3) (B).			
/	/	160.	<b>CRO:</b> Use the table below to sequentially <b>OPEN</b> and validate the valves using the "point and call" system.			
/	/	170.	<b>Rov/IV:</b> Validate valve alignment in the field and report valve position per <b>CRO</b> point and call request.			

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent Validator
1	(b) (3	(B)				
2		·) ( <b>b</b> )				
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
(*) Denotes	manual valves.					

Authored By: (b) (6)	
Doc Custodian: Fuels Department	

Approved By: LCDR (b) (6) Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc #: U006 Rev No. 1
Unpack Operating Order

Effective Date: 09/26/2022

/ / 180.

YON PIC and IV: Use the table below, align header, issue and meter valves and report to CRO

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent Validator
1	(h) ('	3) (R)				
2	(D)	) (D)				
3						
(*) Denotes	manual valves.		•	•		

//	190.	Operations:
		Vacuum Truck is positioned at Hotel Pier

- ☐ Spill Kits and Fire Extinguisher Available

# Authored By: (b) (6) Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006	
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## **SECTION 5 – DRAINING**

# <u>DATE TIME INITIALS</u>

/	/	200.	<b>CRO:</b> Request permission to start the F-76 Drain Down:
			☐ CRO to SoW
			☐ SoW to Fuels Director
/	/	210.	☐ Fuels Director to Command Officer  CRO: Complete the following procedures prior to pressurizing the hose:
			<ul><li>□ Verify valve alignment</li><li>□ Verify hose connection</li></ul>
/	/	220.	☐ Verify YON header valve is CLOSED  CRO: Slowly OPEN (b) (3) (B) and (b) (3) (B).
	/	230.	Terminal PIC: Slowly OPEN Fuel Riser/Station /
/	/	230. 240.	CRO: Inform Control Tower that YON loading will begin.

Authored By:	(b) (6)

# Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

/ / 250. All Personnel: Monitor zones for leaks, sheen, and abnormal conditions.

Zone Assignment	Personnel Assignments	Call Sign	Report Time
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank	Work Supervisor RH		
Gallery			
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 TK (0)(8)(8)		
Zone 3	Rover #3 Lower Tank Gallery		
Zone 4	Rover #4 Lower Tank Gallery		
	(b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B) <sup>B</sup>		
Zone 10	Rover #10 (b) (3) (B) <sup>6</sup>		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (5)(5)(5)		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (0) (3) (6)	YON PIC		
/ /	260. YON PIC: After zone c	hecks have been comple	eted, slowly OPEN YON

**YON PIC:** After zone checks have been completed, slowly OPEN YON header valve and inform CRO start of transfer.

Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time
Number	OPEN		Initials	CRO Initials		Independent
						Validator
1	(b) (3) (	(B)				

/	/	270.	CRO/RH WL: Monitor pressure on compound gauge at HPV, throttling
			(b) (3) (B) as needed to reduce vacuum.
/	/	280.	RH WL: After (b) (3) (B) gal has drained, OPEN (b) (3) (B)

Authored By:	(b)	(6)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006
Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

/	_/290.	YON PIC	: Report to CRO and record	YON levels half l	ourly.
Hour # (Time)	Tank L	evel	Current Amount(Gals)	CRO Initials	Assistant CRO Initials
.5 ( )					
1( )					
1.5 ( )					
2( )					
2.5 ( )					
3 ( )					
3.5 ( )					
4( )					
4.5 ( )					
5( )					
	_/300.	inform Cl	C: Monitor <b>Flowrate</b> during the RO and prepare to stop operation	on.	
/	_/310.		N PIC: Once F-76 Operation d, YON PIC will CLOSE the		
/	/ 320.	CRO: Inf	form Control Tower that YON	loading has ende	ed.

Authored 1	By: 🜘	(6)

# Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# DFSP Pearl Harbor Recurring

# **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc	#:	U	00	6
Rev	No		1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

	E <u>INITIALS</u>	TO BASELII	NE			
		CRO: Use the tabl			and validate th	e valves
		Rov/IV: Validate v CRO point and cal		t in the field and	report valve pos	sition per
Sequential Number	Valves Verified CLOSE	Location	CRO Initials	Assistant CRO Initials	Time Rover	Time Independent Validator
1	(b) (3	(B)				
2						
1						
2						
3						
4						
5						
6						
7						
8						
9						
	manual valves ctional Valves will	· OPEN 2	(1.) (2.) (2.)	- D 177''	T. 1.C."	1

Authored By: (b) (6)
Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006 Rev No. 1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

YON PIC & IV: Use the table below to ensure YON Valves are CLOSED and OPEN IOT return YON Valve baseline with thermal exception

Sequential	Valves Verified	Location	CRO	Assistant	Time Rover	Time
Number	CLOSED		Initials	CRO Initials		Independent
						Validator
1	(h) ('	3) (R)				
2	(D) (	J) (D)				
3						
(*) Denotes	(*) Denotes manual valves.					

360.	RH PIC/WL: Report the following procedures have been completed and
	report to CRO:
	360.

- □ (b) (3) (B) CLOSE
- □ (b) (3) (B) CLOSE

Authored	By:	(b)	(6)

Approved By: LCDR (b) (6) Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to YON via Gravity

Doc #: U006 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

/ /	370.	All assigned personnel: Report zone condition to CRO.
-----	------	---

Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
Control Room	SoW	_	
Control Room	CRO		
Control Room	Assistant CRO		
Lower Tank Gallery	Work Supervisor RH		
Hotel Pier	Work Supervisor PH		
HPV TK (b) (3) (B)	Work Lead RH		
Zone 1	Rover #1 Lower Tank		
	Gallery		
Zone 2	Rover #2 TK (B)(S)(B)		
Zone 3	Rover #3 Lower Tank		
	Gallery		
Zone 4	Rover #4 Lower Tank		
	Gallery (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (b) (3) (B)		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 (b) (3) (B) b		
Zone 10	Rover #10 (b) (3) (B)		
Zone 11	Rover #11 Pipe Rack		
Zone 12	Rover #12 (6) (3) (5)		
Zone 13	Rover #13 Hotel Pier		
Hotel Pier	Pier PIC		
Hotel Pier	Assistant Pier PIC		
Hotel Pier	Vac Truck Operator		
YON (5) (8)	YON PIC		

//	380.	<b>CRO:</b> Ensure the follow procedures are completed and announce when
		complete:

<sup>☐</sup> F-76 path utilized is back to baseline configuration

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to YON Gravity

Doc #: U006	
Rev No. 1	

**Unpack Operating Order** 

Effective Date: 09/26/2022

### **SECTION 7 – CLOSEOUT**

DATE TIME	ME INITIALS				
/	/390.	YON PIC: Manually gauge secure time of the F-76 open CRO.			
Receiving Tank	Finish Level (F	t/In) Finish Level (Gal)	CRO Initials	Asssitant CRO Initials	Time
(b) (3) (B)					
/	400.	CROs: Shall finalize and the in at the main building, Pear ☐ FLC Fuel Form 703-18, ☐ FLC Fuel Form 703-22, ☐ FLC Fuel Form 703-24,	Harbor: B1757 at a Transfer Record Tank Inventory Co	the end of the day: ontrol Daily Levels	nd turned
/	410.	SoW: verify the following the	0 0		ted:
		All procedures completed IAW	OPORD		
		Documentation is completed			
		All information/signature block	s on operation orde	er are filled in	
/	/420.	SoW: Notify Operational personnel that the operation is complete.			
/	/ 430.	SoW: Notify Fuels Director operation is complete.			

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to YON via

Gravity

Doc	#:	U00
Rev	Να	1

**Unpack Operating Order** 

Effective Date: 09/26/2022

# **Operations Order Closeout**

Select the appropriate statement below:

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order.	

**NOTE:** If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

<b>NOTE:</b> The Supervisory Distributive Facilities Specialist (SDFS) will pick all Operations Orders up at the end of the day at the Control Room.		
CRO	Date	
The CRO to forward this procedure to the Supervisory Distributive Facilities Speci	ialist.	
Supervisory Distributive Facilities Specialist (SDFS)	Date	
The SDFS to forward this order to the Deputy Director of Fuels.		

**Deputy Director of Fuels** 

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

Date

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

**Operations Order** 

RH F-76 Unpacking to YON Gravity

Doc #: U006 Rev No. 1

**Unpack Operating Order** 

Effective Date: 09/26/2022

### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	1 of 8

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

Digitally signed by
(b) (6)
Date: 2022.09.27 22:39:45 -10'00'



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	2 of 8

	EVOLUTION START DATE:	
	CONTROL ROOM INITIALS (MASTER COPY):	
	FIELD COPY INITIALS:	
EVOLUTION ORDER		

1. DFSP JBPHH conducts F-76 unpacking operations from Red Hill to Pearl Harbor to provide drain down of the F-76 Pipeline from Lower Tank Gallery Area to (b) (3) (B) with a fuel estimation of 372,979 gallons

**NOTE:** This Operations Order will provide the information to safely perform the following Operations Order

#### BASELINE – VALVE ALIGNMENT VERIFICATION

DATE TIME	<u>E</u> <u>I</u>	NITIALS	
/	_/_	10.	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
			CRO validates motor operated valves (MOVs)
			☐ Comparison by AFHE in the baseline position to current positon, by writing in the "current position" of the valve with the time of validation
			Rover validates manual valves
			☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

NOTE: Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	3 of 8

F-76 Valve Baseline from RH to Hotel Pier					
Sequential	Valves	Location	Baseline Position	Current Position	Time
Number 1	Verified  (b) (3	B) (B)	NORMALLY CLOSED		
2			NORMALLY CLOSED		
3			NORMALLY CLOSED		
4			NORMALLY CLOSED		
5			NORMALLY CLOSED		
6			NORMALLY CLOSED		
7			NORMALLY OPEN		
8			NORMALLY OPEN		
9			NORMALLY OPEN		
10			NORMALLY OPEN		
11			NORMALLY OPEN		
12			NORMALLY CLOSED		
13			NORMALLY CLOSED		
14	-		NORMALLY CLOSED		
15			NORMALLY CLOSED		
16			NORMALLY OPEN		
17			NORMALLY CLOSED		
18			NORMALLY OPEN		
19			NORMALLY CLOSED		
20			NORMALLY CLOSED		
21			NORMALLY CLOSED		



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	4 of 8

23	22	NORMALLY CLOSED  NORMALLY CLOSED	
25	23	NORMALLY CLOSED	
NORMALLY CLOSED	24	NORMALLY CLOSED	
27	25	NORMALLY CLOSED	
28  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY OPEN  31  NORMALLY OPEN  33  NORMALLY CLOSED  NORMALLY CLOSED	26	NORMALLY CLOSED	
NORMALLY CLOSED	27	NORMALLY CLOSED	
NORMALLY CLOSED	28	NORMALLY CLOSED	
NORMALLY OPEN	29	NORMALLY CLOSED	
32   NORMALLY OPEN	30	NORMALLY CLOSED	
33	31	NORMALLY OPEN	
34	32	NORMALLY OPEN	
NORMALLY OPEN	33	NORMALLY CLOSED	
NORMALLY CLOSED	34	NORMALLY CLOSED	
37   NORMALLY CLOSED	35	NORMALLY OPEN	
NORMALLY CLOSED	36	NORMALLY CLOSED	
NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  (SPOOLED)  NORMALLY CLOSED	37	NORMALLY CLOSED	
40 NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  (SPOOLED)  NORMALLY CLOSED	38	NORMALLY CLOSED	
NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY CLOSED  (SPOOLED)  NORMALLY CLOSED	39	NORMALLY CLOSED	
NORMALLY CLOSED  NORMALLY CLOSED  (SPOOLED)  NORMALLY CLOSED	40	NORMALLY CLOSED	
NORMALLY CLOSED  (SPOOLED)  NORMALLY CLOSED	41	NORMALLY CLOSED	
(SPOOLED)  NORMALLY CLOSED	42	NORMALLY CLOSED	
NORMALLY CLOSED	43	NORMALLY CLOSED	
		(SPOOLED)	
NORMALLY CLOSED	44	NORMALLY CLOSED	
	45	NORMALLY CLOSED	



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	5 of 8

46	(b) (3) (B) NORMALLY CLOSED NORMALLY CLOSED	
<b>4</b> 7	NORMALLY CLOSED	
48	NORMALLY CLOSED	
49	NORMALLY CLOSED	
50	NORMALLY CLOSED	
51	NORMALLY CLOSED	
	(SPOOLED)	
52	NORMALLY CLOSED	
53	NORMALLY CLOSED	
54	NORMALLY CLOSED	
55	NORMALLY CLOSED	
56	NORMALLY CLOSED	
<b>5</b> 7	NORMALLY CLOSED	
	(SPOOLED)	
58	NORMALLY CLOSED	
59	NORMALLY CLOSED	
60	NORMALLY CLOSED	
61	NORMALLY CLOSED	

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

All (b) (3) (B) Valves are OPEN for thermal expansion



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	6 of 8

/	20. After completion of the Baseline Operations Order (OPORD):
	<ul> <li>CRO and Rover: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)</li> </ul>
	<ul> <li>CRO: Ensure Baseline OPORD is provide to SoW for validation at the Watch Team Brief</li> </ul>
Validation Baselii	ne Inspection Completed by:
	Rover #1 (Print, Sign, Date)
	CRO (Print, Sign, Date)
	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
	perations Order was completed with NO issues and NO changes, file should be in the completed Operations Order box.

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

NOTE: If the Operations Order was completed WITH issues or WITH changes, ensure the

modified copy in the Operations Order modified box

appropriate process was followed and signed off on for the change or issue. File this



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	7 of 8

### **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
<b>NOTE:</b> If the order required approved modification, the CRO to sign, date and forward and archiving.	d for final approval
<b>NOTE:</b> The Supervisory Distribution Facilities Specialist (SDFS) will pick all Operation end of the day at the Control Room.	ions Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distribution Facilities Specia	list
Supervisory Distribution Facilities Specialist (SDFS)	Date

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

The SDFS to forward this order to the Deputy Director of Fuels

**Deputy Director of Fuels** 

Date



### Operations Order F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006A
Revision No:	1.0
Page No:	8 of 8

### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006B
Revision No:	1.0
Page No:	1 of 8

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

Digitally signed by (b) (6)
Date: 2022.09.27 22:40:21
-10'00'



**EVOLUTION ORDER** 

#### **JBPHH Fleet Logistics Center**

# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006B
Revision No:	1.0
Page No:	2 of 8

	EVOLUTION START DATE:	
CON	NTROL ROOM INITIALS (MASTER COPY):	
	FIELD COPY INITIALS:	

1. DFSP JBPHH conducts F-76 unpacking operations from Red Hill to Pearl Harbor to provide drain down of the F-76 Pipeline from Lower Tank Gallery Area to (b) (3) (B) with a fuel estimation of 372,979 gallons

**NOTE:** This Operations Order will provide the information to safely perform the following Operations Order

#### BASELINE – VALVE ALIGNMENT VERIFICATION

DATE TIME INITIALS	
/	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	YON PIC & YON 2 <sup>nd</sup> PIC (IV) validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

NOTE: Validation of valves will be verified by comparing baseline position to current position, while conducting valve validation inspection, if a valve is **NOT** in the **BASELINE** position, inform **CRO** immediately and bring to attention of **SoW** in morning briefing



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006B
Revision No:	1.0
Page No:	3 of 8

YON Valve Thermal Baseline					
Sequential Number	Valves Verified	Location	Baseline Position	Current Position	Time
1	(b) (3	B) (B)	NORMALLY CLOSED		/
2			NORMALLY CLOSED		/
3			NORMALLY OPEN		/
4	-		NORMALLY CLOSED		/
5			NORMALLY CLOSED		/
6			NORMALLY CLOSED		/
7			NORMALLY CLOSED		/
8			NORMALLY CLOSED		/
9			NORMALLY CLOSED		/
10			NORMALLY CLOSED		/
11			NORMALLY OPEN		/
12			NORMALLY OPEN		/
13			NORMALLY OPEN		/
14			NORMALLY OPEN		/
15			NORMALLY CLOSED (BLINDED)		/
16			NORMALLY CLOSED		/
17			NORMALLY CLOSED		/
18			NORMALLY OPEN		/



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006B
Revision No:	1.0
Page No:	4 of 8

(*) – Denotes Manual Valve				
All six (6) Valves are OPEN for thermal expansion				
	□ Verify all (b) (3) (B) void/rake hatches (depicted on Enclosure (1)) are CLOSED			
	☐ Verify and report to CRO the following (b) (3) (B) tank hatches (depicted on Enclosure (1)) are CLOSED			

YON Valve Thermal Baseline					
Sequential Number	Hatch Verified	Location	Baseline Position	Current Position	Time
1	(h) (s	$2 \setminus (D)$		NORMALLY	/
	(b) (3	(D)		CLOSED	
2				NORMALLY	/
				CLOSED	
3				NORMALLY	/
				CLOSED	
4				NORMALLY	/
				CLOSED	
5				NORMALLY	/
				CLOSED	
6				NORMALLY	/
				CLOSED	
7				NORMALLY	/
				CLOSED	
8				NORMALLY	/
				CLOSED	
9				NORMALLY	/
				CLOSED	
10				NORMALLY	/
				CLOSED	
(*) – Denotes	Manual Valve			<u> </u>	



Operations Order YON F-76 Pipeline
Drain Down Baseline OPORD
(Date OCT22)

Document No:	U006B
Revision No:	1.0
Page No:	5 of 8





### Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006B
Revision No:	1.0
Page No:	6 of 8

//	20. After completion of the Baseline Operations Order (OPORD):
	☐ YON PIC & YON 2 <sup>nd</sup> PIC (IV) Print, sign and date at the bottom of the OPORD
Validation Baselin	e Inspection Completed by:
	YON PIC (Print, Sign, Date)
	YON 2 <sup>ND</sup> PIC (Print, Sign, Date)
	30. <b>SoW:</b> Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation
	SoW (Print, Sign, Date)
NOTE: If the Op	perations Order was completed with NO issues and NO changes, file should be

placed in the completed Operations Order box.

NOTE: If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



# Operations Order YON F-76 Pipeline Drain Down Baseline OPORD (Date OCT22)

Document No:	U006B
Revision No:	1.0
Page No:	7 of 8

### **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
<b>NOTE:</b> If the order required approved modification, the CRO to sign, date and forward archiving.	ard for final approval
<b>NOTE:</b> The Supervisory Distribution Facilities Specialist (SDFS) will pick all Opera end of the day at the Control Room.	ations Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distribution Facilities Special	cialist
Supervisory Distribution Facilities Specialist (SDFS)	Date

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

The SDFS to forward this order to the Deputy Director of Fuels

Deputy Director of Fuels

Date

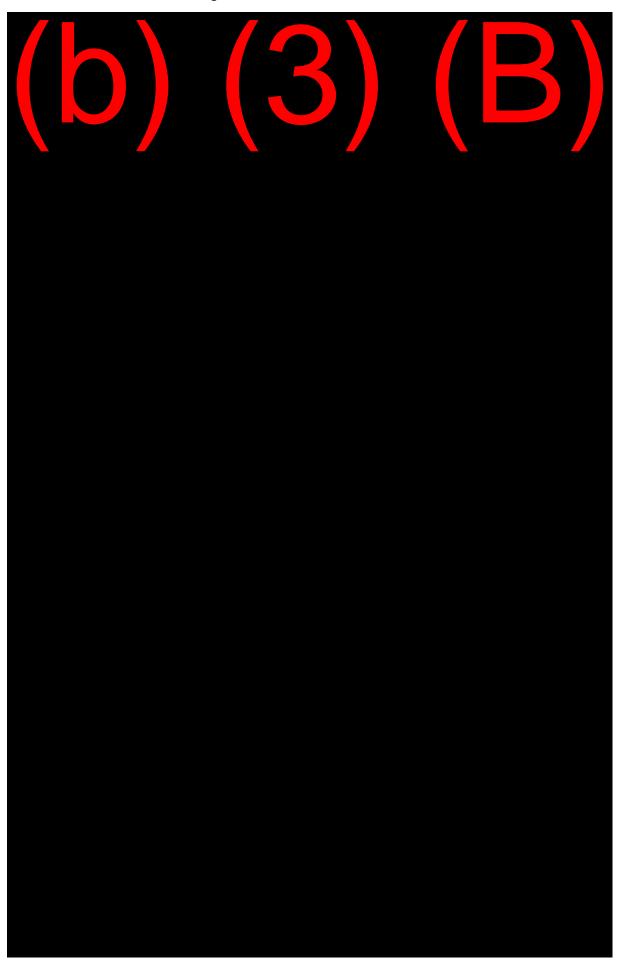


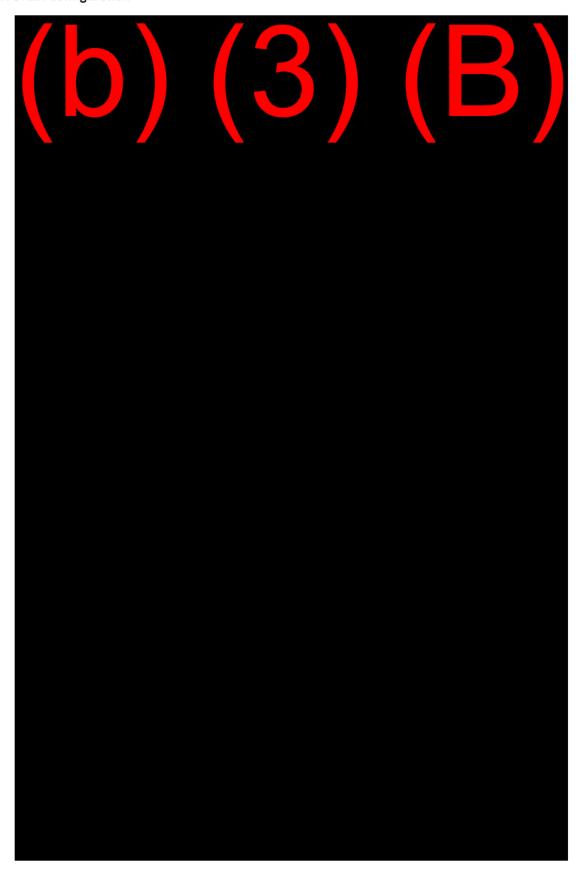
Operations Order YON F-76 Pipeline
Drain Down Baseline OPORD
(Date OCT22)

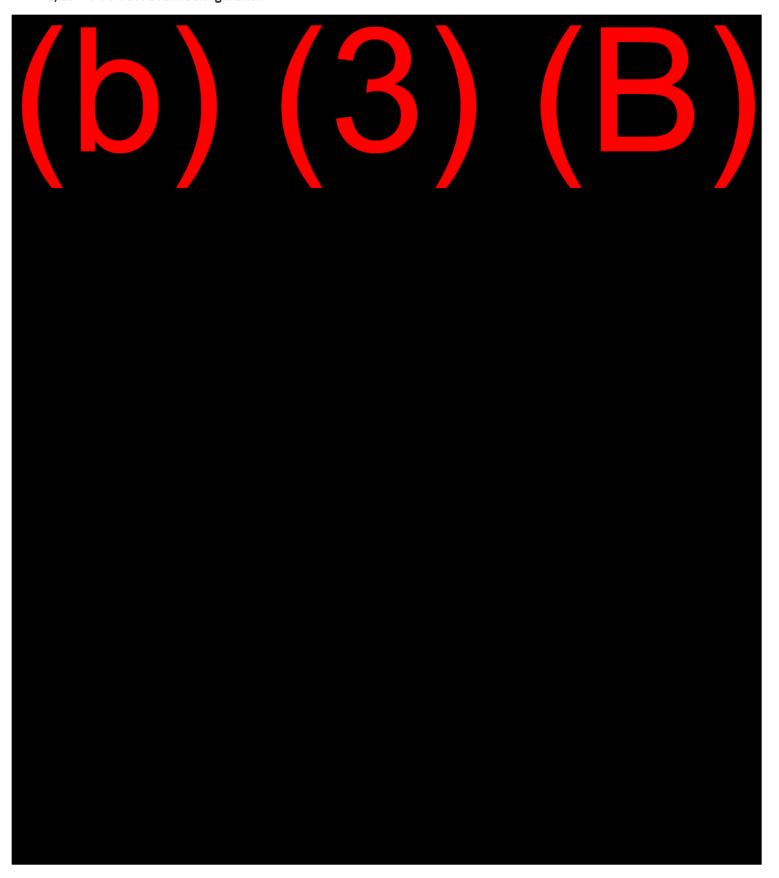
Document No:	U006B
Revision No:	1.0
Page No:	8 of 8

### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date







Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Print 1 00/05/2000

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

### **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc #: U007 Rev No. 1

> **Pump Unpacking Operations Order**

Effective Date: 09/26/2022

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) — Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

Digitally signed by
(b) (6)
Date: 2022.09.27 22:41:40
-10'00'

Authored By: (b) (6)

Doc Custodian: Fuels

Approved By: LCDR (b) (6)
Date Approved: 09/26/2022

Department

DFSP Pearl Harbor Recurring

### **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc #: U007
Rev No. 1

Pump Unpacking
Operations Order

Effective Date: 09/26/2022

FIELD COPY INITIALS:

EVOLUTION START DATE:	
CONTROL ROOM INITIALS (MASTER COPY):	

### **EVOLUTION ORDER**

- This Operations Order ONLY details procedures for Phase 4, Suction Unpack, of the 'F-76 Unpacking Process.'
- 2. DFSP JBPHH conducts batch vacuuming operations from the <u>Red Hill F-76 Pipeline</u> to <u>Tank</u> to vacate F-76 pipeline of ~68,149 gallons remaining to empty pipeline to (b) (3) (B).

Issue Source	Receipt	Volume/Quantity	Deputy Director of Fuels
	Tank	(Gals)	Initial
RH F-76 Pipeline	(D)(S)(E)		

WARNING: In the case of an emergency, take the following steps:

- 1. Take immediate action to shut the nearest valve to prevent the movement of fuel;
- 2. Notify the CRO;
- 3. Reference the ICP plan for further instruction.

### REFERENCES

- 1. Operations, Maintenance, Environmental, and Safety Plan (OMES), Dated August 2018
- 2. MIL STD 3004-1: Department of Defense Standard Practice Quality Assurance for Bulk Fuels, Lubricants and Related Products
- 3. Integrated Contingency Plan (ICP), Date August 2018

#### **ENCLOSURES**

Enclosure (1): Flow Diagram

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc #: U007 Rev No. 1

> **Pump Unpacking Operations Order**

Effective Date: 09/26/2022

### **OPERATIONS ORDER START**

CAUTION: If a deviation or modification is needed in this order, the CRO must obtain proper approval for the change following the <a href="Change Request Form">Change Request Form</a> at the rear of this document.

**NOTE:** A valve baseline must be conducted prior to the execution of this Operations Order.

### **SECTION 1 – MUSTER**

### **DATE TIME INITIALS**

/	/	10.	SoW: Conduct a Muster to ensure all assigned personnel are in attendance
			for the upcoming brief.

Zone Assignment	Personnel Assignments	Name(s)	Call Sign
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
(b) (3) (B) and (b) (3) (B)	Work Supervisor (b) (3) (B) WS)		
RH(b)(3)(B)	Work Lead RH (RH WL)		
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Work Lead PH (PH WL)		
(b) (3) (B) and (b) (3) (B)	Pump Operator (PO)		
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Assistant Pump Operator		
Zone 1	Rover #1 Lower Tank Gallery		
Zone 2	Rover #2 RH (b) (3) (B)		
Zone 3	Rover #3 (b) (3) (B)		
Zone 4	Rover #4 (b) (3) (B)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 (6) (3) (6)		
Zone 7	Rover #7 (b) (3) (B) <sup>6</sup>		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 TK		
RH (b) (3) (B)	Independent Validator RH		
(b) (3) (B)	Independent Validator PH		
(b) (3) (B) <sup>5</sup>	Independent Validator PH		

Authored By:	(b) (6)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to via AODD Pump

Doc	#:	U	00	7
Rev	No	٥.	1	

**Pump Unpacking Operations Order** 

Effective Date: 09/26/2022

### **SECTION 2 – PRE-BRIEF**

DATE TIM	E INITIALS						
/		<b>SoW:</b> Confirm Phase 3, Drain Down Operations Order has been completed and operating conditions are acceptable to proceed.					
/		<b>WS/WL:</b> Confirm Order.	and assign requi	red personnel needed fo	or this Operations		
/	40.	CRO: Verify follo	owing AFHE read	ings:			
	□ Va	lve baseline match	nes current AFHE	configuration			
		S and ICP all on-l	nand and updated				
		lage in receiving to transfer amount)	ank greater	than ~7 <b>4,964 gallons</b> f	for transfer. (110%		
Asset Location	Start Level (Ft/In)	Start Ullage (Gal)	CRO Initials	Assistant CRO Initials	Time		
(b) (3) (B)							
HCK Tank  High Op Limit Level (Ft/In)  High Op Limit Level (Gal)  TK  (b) (3) (B)							
	there is a discrepar Operations Supervis			nual gauge that is +/- 3	3/16", inform Fuel		
/	 □ O <sub>I</sub>	VS-1C WS: Have peration Order		juired paperwork on hai	nd:		
-							

Authored By:	(b) (6)
	( / ( - /

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

<u>DATE TIME INITIALS</u>

# **DFSP Pearl Harbor Recurring**

### **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc	#:	U	00	7
Rev	No	٥.	1	

**Pump Unpacking Operations Order** 

Effective Date: 09/26/2022

### **SECTION 3 – WATCH TEAM BRIEF**

_/	_/	_60.	<b>SoW:</b> Lead the brief in the 1757 Meeting Room to include:
			Operational Expectations
			Operational Priorities
			Integrated Contingency Plan (ICP), Date August 2018
/	/	70.	<b>SoW:</b> Step through operations order and address any questions.

Authored By:	(b) (6)	ı
		ı

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc #: U007 Rev No. 1

> **Pump Unpacking Operations Order**

Effective Date: 09/26/2022

co	mmunications check with CRO.	r designated zones and co
Zone Assignment	Personnel Assignments	Report Time
Control Room	SoW	
Control Room	CRO	
Control Room	Assistant CRO	
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Work Supervisor (b) (3) (B) <sup>8</sup>	
RH(b)(3)(B)	Work Lead RH	
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Work Lead PH	
(b) (3) (B) and (b) (3) (B)	Pump Operator	
(b) (3) (B) and (b) (3) (B) <sup>5</sup>	Assistant Pump Operator	
Zone 1	Rover #1 Lower Tank Gallery	
Zone 2	Rover #2 RH (b) (3) (B)	
Zone 3	Rover #3 (b) (3) (B)	
Zone 4	Rover #4 (b) (3) (B)	
Zone 5	Rover #5 (b) (3) (B)	
Zone 6	Rover #6 (b) (3) (B)	
Zone 7	Rover #7 (b) (3) (B)	
Zone 8	Rover #8 (b) (3) (B) <sup>3</sup>	
Zone 9	Rover #9 TK	
RH HPV (b) (3) (B)	Independent Validator RH	
(b) (3) (B)	Independent Validator PH	
(b) (3) (B) <sup>B</sup>		
	Independent Validator PH  (8) (6) WS: Complete the following pro	

ATTENTION: Once printed for field use, the document becomes a NON-CONTROL COPY. The user of this document must ensure the current approved version of the document is being used and all field copies returned to the CRO at the end of the order.

☐ Confirm that compressor and pump are ready for operation

Authored	By:	(b)	(6)	

Doc Custodian: Fuels

# Department

# Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to via AODD Pump

Doc #: U007 Rev No. 1

> **Pump Unpacking Operations Order**

Effective Date: 09/26/2022

/	/	100.	<b>RH WL:</b> Ensure pressure at the HPV is maintained between and psi on the compound gauge throughout the operation.
/	/	110.	CRO: Request RH WL to OPEN (b) (3) (B).
/	/	120.	CRO: Request RH WL to OPEN (b) (3) (B).
/	/	130.	<b>CRO:</b> Use the table below to sequentially <b>OPEN</b> and validate the valves using the "point and call" system.
/	/	140.	<b>Rov/IV:</b> Validate valve alignment in the field and report valve position per <b>CRO</b> point and call request.

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time
1		\	muais	CRO Initials	/
2	(b) (3	1/181			,
	(D)(O)				/
3	<b>\</b> / \	/ /			/
4					/
5					/
6					/
7					/
8					/
9					/
10					/
11					/
(*) Denotes	manual valves				

/	/	150.	<b>CRO:</b> Use the table below to sequentially <b>OPEN</b> and validate the valves using the "point and call" system.
/	_/	160.	<b>Rov/IV:</b> shall sequentially <b>OPEN</b> and validate valve alignment in the field and report valve position to CRO.

Sequential Number	Valves Verified OPEN	Location	CRO Initials	Assistant CRO Initials	Time
1	(h) (9)	$\backslash \backslash D \backslash$			/
2	(D)(5)				/
3	(10)	/ ( — /			/
4					/
5					
(*) Denotes	manual valves		_		

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

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### SECTION 5 – TRANSFER PUMP SUCTION CYCLE

//	_170.	(b) (3) (B) WS: Complete the following procedures and report to the CRO:
		Connect/Confirm suction hose to (b)(8)(8) manifold and verify is properly secured
		Connect/Confirm drain hose to (b)(3)(B) manifold and verify is properly secured
//	_180.	<b>CRO:</b> Request permission to start the F-76 Pump Unpacking operation:
		CRO to SoW
		SoW to Fuels Director
		Fuels Director to Commanding Officer
//	_190.	CRO: Begin the "Receiving" Evolution on AFHE System to TK
///	_200.	PO((B)(3)(B)*WS: Start the pump
		$OPEN^{(b)(3)(B)}, (b)(3)(B)$
		OPEN (b) (3) (B) Manifold Valve
		$OPEN^{(b)(3)(B)}$ , (b) (3) (B)
		Start the Compressor
		Slowly open air line valve – pump should begin to cycle – wait for pump to prime (discharge hose will begin to move)
		Continue opening air line valve until fully open and pump is at full speed
//	_210.	PO((8)(8) (8) WS: Monitor pump for excessive vibration or loss of prime
//	_220.	CRO: Monitor tank level for expected drain amount
//	_230.	PO((3)(8)*WS: Stopping the pump
		Once tank level has reached desired transfer amount or only air is being pumped, stop the pump.
		Slowly close the air line valve
		Turn off the Compressor
		CLOSE (b) (3) (B), (b) (3) (B)
		CLOSE (b) (3) (b), Manifold Valve
		CLOSE ((b) (3) (B), (b) (3) (B)

Authored By: (b) (6)
Doc Custodian: Fuels Department

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### SECTION 6 – RETURN TO BASELINE

DATE TIME INITIALS	
/	<b>CRO:</b> Use the table below to sequentially <b>CLOSE</b> and validate the valves using the "point and call" system.
/	<b>Rov/IV:</b> Sequentially <b>CLOSE</b> and validate valve alignment in the field and report valve position to CRO.

Sequential Number	Valves Verified CLOSE	Location	CRO Initials	Assistant CRO Initials	Time
6	(b) (3)	) (R)			
7	(D) (O				/
8					/
9					/
10					/
11					/
12					/
13					/
14					/
15					/
(*) Denotes	manual valves				

Authored By: (b) (6)
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# Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

# **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc #: U007 Rev No. 1

> **Pump Unpacking Operations Order**

Effective Date: 09/26/2022

<u> </u>	260. All assigned personnel	: Report condition of zo	ne to CRO.
Zone Assignment	Personnel Assignments	Report Time	Status (Notes)
Control Room	SoW		
Control Room	CRO		
Control Room	Assistant CRO		
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Work Supervisor (b) (3) (B)		
RH (b) (3) (B)	Work Lead RH		
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Work Lead PH		
(b) (3) (B) and (b) (3) (B) <sup>3</sup>	Pump Operator		
(b) (3) (B) and (b) (3) (B)	Assistant Pump Operator		
Zone 1	Rover #1 Lower Tank		
	Gallery		
Zone 2	Rover #2 RH (b) (3) (B)		
Zone 3	Rover #3 (b) (3) (B)		
Zone 4	Rover #4 (b) (3) (5)		
Zone 5	Rover #5 (b) (3) (B)		
Zone 6	Rover #6 <sup>(b) (3) (B)</sup>		
Zone 7	Rover #7 (b) (3) (B)		
Zone 8	Rover #8 (b) (3) (B)		
Zone 9	Rover #9 TK <sup>b(8)(E)</sup>		
RH(b)(3)(B)	Independent Validator RH		
(b) (3) (B)	Independent Validator PH		
(b) (3) (B) <sup>8</sup>	Independent Validator PH		
//	270. RH WL: Report the follocro:	lowing procedures have	been completed and report
	□ (b) (3) (B) CLOSE		
	280. <b>CRO:</b> Ensure the follow complete:	ving procedures are com	pleted and announce when
	☐ F-76 path utilized is back t	to baseline configuration	ı
	☐ "Receiving" Evolution ha	s ended on AFHE System	m

Doc Custodian: Fuels Department

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc #:	U007
Rev No	o. 1

Pump Unpacking Operations Order

Effective Date: 09/26/2022

### **SECTION 7 – CLOSEOUT**

DATE TIME	ME INITIALS				
/	/300.	(b) (3) (B) WS: Complete the following	owing procedures	and report to the C	RO:
	☐ All equipment is stowed away				
	□ P	ump is secured			
/	310.	<b>Rov:</b> Manually gauge receiving time of the F-76 operation and			ecure
Receiving Tank	Finish Level (Ft/Ir	) Finish Level (Gal)	CRO Initials	Assistant CRO Initials	Time
TK (0)(8)(8)					
/		CRO: Finalize the following domain building B1757 at the end	l of the day:	npleted and turned i	n at the
		☐ FLC Fuel Form 703-18, Ti			
,		☐ FLC Fuel Form 703-22, Ta	•	•	
/	/330.	<b>SoW:</b> verify the following the	-	s nave been comple	tea:
		ll procedures completed IAW O	PORD		
		ocumentation is completed			
	$\Box$ A	ll information/signature blocks	on operation orde	r are filled in	
/	/340.	SoW: Notify operational person	nnel the operation	n is complete.	
/	/350.	SoW: Notify the Fuels Director	r the operation is	complete.	

Authored By:	(b) (6)
	( <i>)</i> ( - <i>)</i>

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

**DFSP Pearl Harbor Recurring** 

### **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc #: U	00
Rev No.	1

**Pump Unpacking Operations Order** 

Effective Date: 09/26/2022

### OPERATIONS ORDER CLOSEOUT

Select the appropriate statement below:

Statement or Order	CRO Initial
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order.	

**NOTE:** If the order required approved modification, the CRO to sign, date and forward for final approval and archiving.

<b>NOTE:</b> The Supervisory Distributive Facilities Specialist (SDFS) will pick all C end of the day at the Control Room.	Operations Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distributive Facilities	Specialist.
Supervisory Distributive Facilities Specialist (SDFS)	Date
The SDFS to forward this order to the Deputy Director of Fuels.	
Deputy Director of Fuels	Date

Authored By: (b	(6)

Approved By: LCDR (b) (6)

Date Approved: 09/26/2022

# **DFSP Pearl Harbor Recurring**

## **Operations Order**

RH F-76 Unpacking to Pump via AODD

Doc	#:	U007
Rev	No	o 1

Pump Unpacking Operations Order

Effective Date: 09/26/2022

### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date



### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U007A
Revision No:	1.0
Page No:	1 of 8

Reviewed By: (b) (6) –(b) (4) Engineer

Reviewed By: (b) (6) — Operations Supervisor

Reviewed By: (b) (6) - Fuels Operations Director

Approved By: LCDR (b) (6) – Deputy Fuels Director

Digitally signed by (b) (6)
Date: 2022.09.27 22:41:03 -10'00'



### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U007A
Revision No:	1.0
Page No:	2 of 8

	EVOLUTION START DATE:
	CONTROL ROOM INITIALS (MASTER COPY):
	FIELD COPY INITIALS:
EVOLUTION ORDER	
	F-76 unpacking operations from Red Hill to Pearl Harbor to provide Pipeline from (b) (3) (B) Area to (b) (3) (B) with a fuel estimation of 68,149
NOTE: This Operations Operations Orde	Order will provide the information to safely perform the following
BASELINE – VALVE	ALIGNMENT VERIFICATION
	A terminal valve verification must be conducted prior to execution of any operation by following the procedures
	CRO validates motor operated valves (MOVs)
	☐ Comparison by AFHE in the baseline position to current positon, by writing in the "current position" of the valve with the time of validation
	Rover validates manual valves
	☐ Comparison by in the field verification of the baseline position to current position, by writing in the "current position" of the valve with the time of validation

NOTE: Validation of valves will be verified by comparing baseline postion to current position, while conducting valve validation inspection, if a valve is NOT in the BASELINE position, inform CRO immediately and bring to attention of SoW in morning briefing



### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U007A
Revision No:	1.0
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F-76 Valve Baseline via AODD Pump RH to TK					
Sequential	Valves	Location	Baseline Position	Current Position	Time
Number	Verified		NODWALLYCLOSED		
1	(b) (3	3) (B)	NORMALLY CLOSED		
2			NORMALLY CLOSED		
3			NORMALLY CLOSED		
4			NORMALLY CLOSED		
5			NORMALLY CLOSED		
6			NORMALLY CLOSED		
7			NORMALLY OPEN		
8			NORMALLY OPEN		
9			NORMALLY OPEN		
10			NORMALLY OPEN		
11			NORMALLY OPEN		
12			NORMALLY CLOSED		
13			NORMALLY CLOSED		
14			NORMALLY CLOSED		
15			NORMALLY CLOSED		
16			NORMALLY OPEN		
17			NORMALLY CLOSED		
18			NORMALLY OPEN		
19			NORMALLY CLOSED		
20			NORMALLY CLOSED		
21			NORMALLY CLOSED		
ATTENITION	· Once printed	for field use	the document becomes a	NON CONTROL CO	DV. The user of



### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U007A
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Page No:	4 of 8

22	(b) (3) (B) NORMALLY CLOSED
23	NORMALLY CLOSED
24	NORMALLY CLOSED
25	NORMALLY CLOSED
26	NORMALLY CLOSED
27	NORMALLY CLOSED
28	NORMALLY CLOSED
29	NORMALLY CLOSED
30	NORMALLY CLOSED
31	NORMALLY CLOSED
32	NORMALLY OPEN
33	NORMALLY CLOSED
34	NORMALLY CLOSED
35	NORMALLY CLOSED
36	NORMALLY CLOSED
37	NORMALLY OPEN
38	NORMALLY CLOSED
39	NORMALLY CLOSED
40	NORMALLY CLOSED
41	NORMALLY CLOSED
42	NORMALLY CLOSED
43	NORMALLY CLOSED
44	NORMALLY OPEN
45	NORMALLY CLOSED



### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

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### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

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/20. After completion of the Baseline Operations Order (OPORD):					
	<ul> <li>CRO and Rover: Print, sign and date at the bottom of the OPORD validates motor operated valves (MOVs)</li> </ul>				
	☐ CRO: Ensure Baseline OPORD is provide to SoW for validation at the Watch Team Brief				
Validation Baseline	Inspection Completed by:				
	Rover #1 (Print, Sign, Date)				
	CRO (Print, Sign, Date)				
/	30. SoW: Validate Baseline configuration OPORD and verify terminal is ready to conduct fueling operation				
SoW (Print, Sign, Date)					
	rations Order was completed with NO issues and NO changes, file should be the completed Operations Order box.				

**NOTE:** If the Operations Order was completed WITH issues or WITH changes, ensure the appropriate process was followed and signed off on for the change or issue. File this modified copy in the Operations Order modified box



### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U007A
Revision No:	1.0
Page No:	7 of 8

Date

Date

### **Operations Order Closeout:**

Select the appropriate statement below

Statement or Order	CRO Inital
This order was executed as written without any changes.	
This order was executed with changes as marked and approved on the order	
<b>YOTE:</b> If the order required approved modification, the CRO to sign, date and forward archiving.	ward for final approval
NOTE: The Supervisory Distributive Facilities Specialist (SDFS) will pick all Opeend of the day at the Control Room.	rations Orders up at the
CRO	Date
The CRO to forward this procedure to the Supervisory Distributive Facilities Spe	ecialst
, , , , , , , , , , , , , , , , , , , ,	

Supervisory Distribution Facilities Specialist (SDFS)

**Deputy Director of Fuels** 

The SDFS to forward this order to the Deputy Director of Fuels



### Operations Order F-76 Pipeline Suction Drain Down Baseline OPORD (Date OCT22)

Document No:	U007A
Revision No:	1.0
Page No:	8 of 8

### **REVISION HISTORY**

Revision Number	Description of Change	Technical Basis	Requested By	Approved By	Revision Date	Effective Date

