

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	DEF 001
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	FLC.FOR.VALVE
Contract No.	FA890315D0007, D.O. FA8903-19-F-0027	Report Date	03 NOV 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
FLC	N/A	RH Tank Gallery	(b) (3) (A)
Repair Description	Install ball-valve (b) (3) (A) to provide isolation, allowing simultaneous operations of recovered groundwater flow to Tank S311 and tank bottom draining to the jumper to the JP-5 line.		Source Contract Reference N/A for in-house labor
Description of Contractor QC Method(s) Used	Methods outlined in QCP. Butt welded piping received 100% radiographic testing. Welded piping hydrostatically tested at (b) (3) (A) psi for 4 hours.		Contractor QC Records Reviewed (b) (4) Hawaii inspection report, 01 Nov 2023
Description of QA Validation and Observations	Two-party integrity verification by FLC personnel. JTF-RH secondary QA and 3rd Party QV completed. JTF-RH QV visually inspected repair & reviewed QC documentation. Final acceptance by government. Date: 02 NOV 2023		
Rework Needed		Photo Record Attached	Repair Work Validated as Complete
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No
		See Pages 2-3	<input checked="" type="radio"/> Yes <input type="radio"/> No

Comments
 FLC Shops removed piping spool installed as part of INC 031 (FOR Line Jumper to JP-5 Line) for modification. At their shop, crew cut piping to allow for installation of a weld neck flange and a Class 150 ball valve (b) (3) (A). This isolation allows simultaneous operations of recovered groundwater flow to Tank S311 and tank bottom draining to the JP-5 line via the jumper connection.
 The new weld received radiographic inspection, and the spool was shop hydrotested for 4 hours at (b) (3) (A) psi. New spiral wound gaskets were installed with the modified pipe spool at all affected flanges.

CERTIFICATION

I hereby certify that repair work validated in this report was personally substantiated and this report is true.	QV ENGINEER SIGNATURE (b) (6)	
	DATE 03 NOV 2023	

QUALITY ASSURANCE VALIDATION REPORT

Red Hill Bulk Fuel Storage Facility Defuel

(b) (3) (A)



Ball valve installed downstream allowing simultaneous tank bottom draining via FOR line and groundwater through the Sump.

QUALITY ASSURANCE VALIDATION REPORT

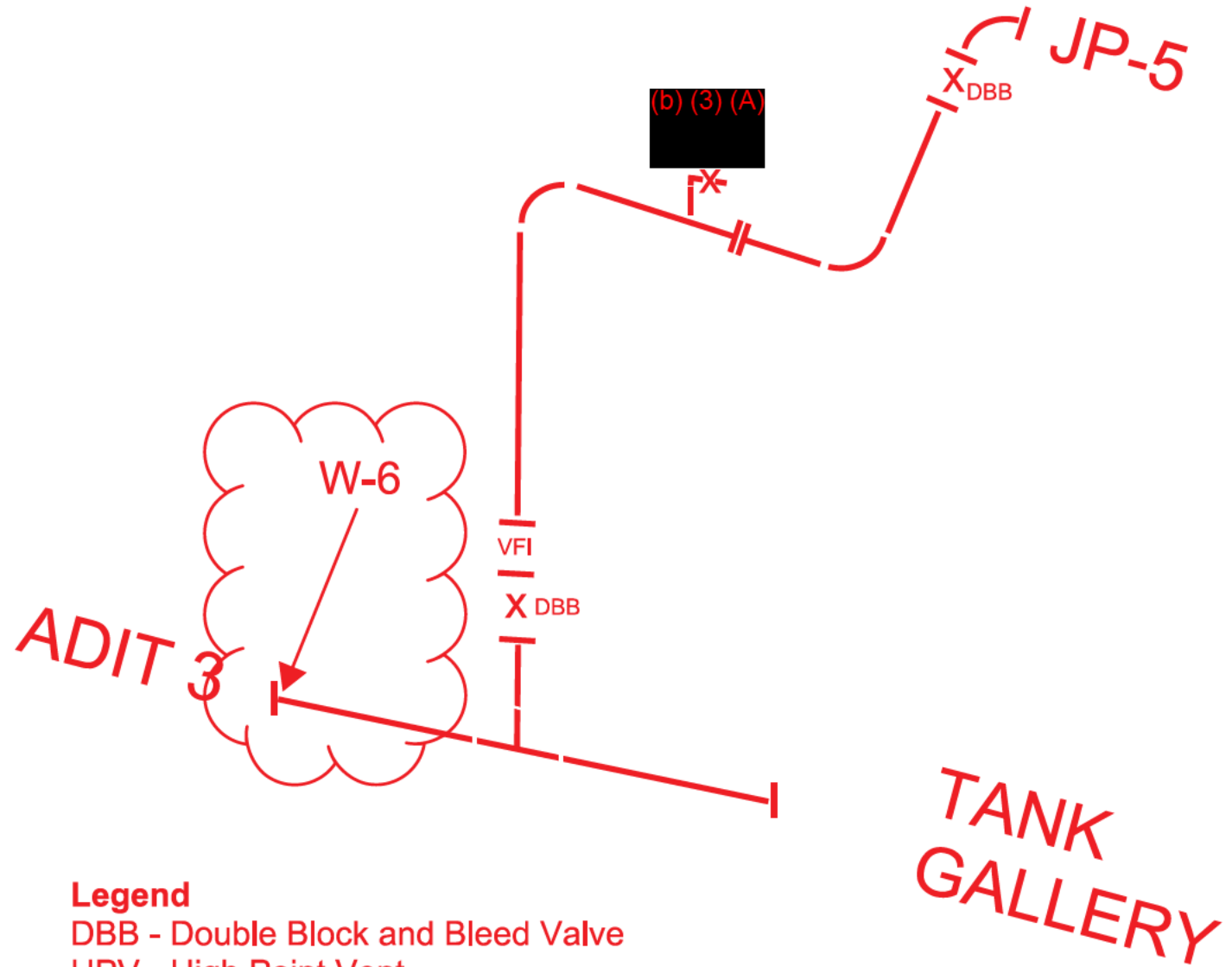
Red Hill Bulk Fuel Storage Facility Defuel

(b) (3) (A)

Work Authorization Form (WAF) completed and reviewed prior to all intrusive activities.



Completed installation of modified spool with new downstream ball valve to isolate; workers installing valve ID tag.



Legend

- DBB - Double Block and Bleed Valve
- HPV - High Point Vent
- VFI - Visi-Flow Indicator

(b) (4)






RADIOGRAPHIC INSPECTION REPORT

(b) (4)

Date: 11/1/23
Page 1 of 1

FORM NDT-006.1

CUSTOMER <u>NAKUP</u>	CUST JOB#	SPECIFICATION <u>ASME V</u>	ACCEPTANCE <u>ASME B31.3</u>
PROJECT <u>(b) (3) (A)</u>	DWG. NO.	PROCEDURE <u>NDT001 REV E</u>	ACC. PROC. <u>B31.3 REV 2015</u>
RT SOURCE <u>IR192</u>	FILM <u>AGFA D5</u>	PB SCREENS	PENS: <u>ASTM</u>
<u>(b) (3) (A)</u>		SHIMS MAT'L/THKNS	MATERIAL <u>(b) (3) (A)</u>
<u>(b) (3) (A)</u>		TECHNIQUE USED <u>3</u>	THICKNE
<u>(b) (3) (A)</u>		EXPOSURE TIME <u>30 SEC</u>	JOINT TY
<u>(b) (3) (A)</u>		PROCESSING <input checked="" type="checkbox"/> MANUAL <input type="checkbox"/> AUTOMATIC	PIPE DIA

- Single Wall

Panoramic
- Single Wall

Offset
- Double Wall

Elliptical
- Double Wall 0/90

Elliptical
- Plate

- Other

WELD #	VIEW #	GEOMETRIC UNSHARPNESS "UG"	GEOMETRIC UNSHARPNESS										REMARKS				
			ACCEPT	REJECT	Porosity	Slag Inclusions	Cracks	Lack of Fusion	Lack of Penet.	Undercut	Burn Thru	Slack Back		F.I.	Film Artifact		
<u>126</u>	<u>0-5</u>	<u>0.20</u>	X														
	<u>5-10</u>		X														
	<u>10-0</u>		X														

(b) (6)

II SNT-TC-1A Level 11/1/23 Date of Inspection _____ Customer



NAVAL SUPPLY SYSTEMS COMMAND

FLEET LOGISTICS CENTER
PEARL HARBOR
Fuel Dept Code 00
1751 Neorbo Ave, HI 96860
"Service with Aloha"

Hydro Test Results

Equipment Tested: RED HILL MAN JUMP FOR TO JPS JUMPER SPOOL Valve Type: N/A

Valve Manufacturer / Model No: N/A

Size: 4" Class: 150# Equipment Serial No: N/A

Test Media: WATER

Shell & Packing Test Pressure / Time: (b) (3) (A) 4/WRS

Seat 1 Test Pressure / Time: N/A

Seat 2 Test Pressure / Time: N/A

Gauge Serial No: 202015001

Gauge Cal Due: MAY 2024

Disposition: Satisfactory / Fail

Notes:

Tested By: (b) (6)

Date: 20231101

Hydrostatic Tests are performed IAW ASME B16.34 and API 598 equal to or better.