

Joint Task Force-Red Hill

Bi-Monthly Quality Validation Working Group Meeting



20 July 2023



BACKGROUND/DESCRIPTION

ENSURING A FREE AND OPEN INDO-PACIFIC

- On January 27, 2023, the Hawai'i Department of Health (DOH) conditionally approves the Independent Third-Party Quality Validation Plan, with the following conditions:
 - ~~Para #1, Provide resumes of those working QV (31 Jan) OUTSTANDING~~
 - ~~Para #2, Provide QV Plan Addendum detailing testing requirements that will follow repairs (28 Feb)~~
 - ~~Para #3a, Provide DoH/EPA our first monthly QV report (23 Feb)~~
 - ~~Para #3b, Provide list of dates of major repair/inspection events that DoH/EPA can attend (23 Feb)~~
 - Para #4, Provide final report (last repair + 30 days)



RFI from DOH

ENSURING A FREE AND OPEN INDO-PACIFIC

Second June Submission

- **Repair 10:** The report states U-bolts were installed except at (b) (3) (A). However, the photos appear to indicate (b) (3) (A) was also an exception. In both locations, welded brackets were used. If correct, the documentation should be revised for accuracy.
- **Repair 11:** The report states U-bolts were installed except at (b) (3) (A). However, the photos appear to indicate (b) (3) (A) was also an exception. In both locations, welded brackets were used. If correct, the documentation should be revised for accuracy. The after photo for the repair at (b) (3) (A) appears to either be missing or mislabeled. Photos for repairs at (b) (3) (A) were not included.
- **Repair 19:** The repair appears to be associated with the F-24 line. However, the comment section of the report refers to the (b) (4) memo, dated November 30, 2022, which references the JP-5 line. Please clarify whether the correct citation is the updated (b) (4) memo, dated June 22, 2023, and that the correct reference to (b) (3) (A) for the F-24 line is on page 5 under Section 1.
- **Repair 241:** Why is the “Rework 2” line indicating a failure of weld (b) (3) (A) after the “rework” 1 line indicates it passed and was inspected?
- **Repairs 241 and 242:** These reports included weld tests associated with O- and U- repairs. What repair numbers are these associated with? Were these welds resolved?

Third June Submission

- **Repair 96:** This repair is for (b) (3) (A). However, the after photo presented is labelled (b) (3) (A). Is the photo mislabeled, or was the incorrect photo included? Please provide an after photo for (b) (3) (A).
- **Repair 128:** Do welds (b) (3) (A) represent actions performed on Repair 128? Data on those welds were not provided. Please clarify.



Quality Validation Report (+ x23)

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Validation Complete	Date	Location
002	<p>Contractor installed pressure indicating transmitters (PITs) at [REDACTED] locations throughout the Red Hill tunnel connecting to Bleed ring fittings at high point vents on the JP-5 and F-24 piping. PITs integrated into facility automated fuel handling equipment (AFHE) and supervisory control and data acquisition (SCADA) systems. The PITs provide operators with real-time pressure readings to ensure conditions are acceptable before and during fuel movement. Equipment is factory calibrated. Subsequent calibration will be performed once the system has been repacked, documented in the Site Survey Report (SSR).</p>	17 JUL 23	TG/HT



Quality Validation Report (+ x23)

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Validation Complete	Date	Location
INC -002	Contractor unbolted non-standard/field-fabricated flange, cleaned the flange face to accept a new (b) (3) (A) gasket. Contractor installed a new (b) (3) (A) blind flange with new hardware.	13 JUL 23	(b) (3) (A)
INC -003	Contractor removed (b) (3) (A) of piping at Pipe Support (b) (3) (A) to address dent on bell joint. Contractor butt welded pipe pup; tie-in welds received 100% radiographic testing. NDE result table, NDE inspection report, weld map included for reference.	19 JUL 23	(b) (3) (A)
INC -004	Contractor installed a new high point vent assembly on the (b) (3) (A) to facilitate line packing. NOE result table, NOE inspection report, weld map/design detail included for reference.	19 JUL 23	(b) (3) (A)
INC -005	Contractor equally torqued tension rod nuts to (b) (3) (A) pounds around the Dresser coupling lugs.	19 JUL 23	(b) (3) (A)
INC -006	Contractor removed and replaced damaged grout from beneath Pipe Support (b) (3) (A)	19 JUL 23	(b) (3) (A)
INC -007	Contractor removed existing threaded plug from the top of the piping. Contractor installed a threaded nipple, (b) (3) (A) ball valve and threaded end cap.	13 JUL 23	(b) (3) (A)



Quality Validation Report (+ x22)

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Validation Complete	Date	Location
INC-008	Contractor installed conduit clips to restrain (b) (3) (A) piping to existing uni-strut bracket for piping connected to the (b) (3) (A)	13 JUL 23	(b) (3) (A)
INC-009	Contractor installed u-bolt brackets and shims for (b) (3) (A) to existing support bracket.	13 JUL 23	(b) (3) (A)
INC-010	Contractor installed u-bolt brackets and shims for (b) (3) (A) to existing bracket.	13 JUL 23	(b) (3) (A)
INC-011	Contractor fabricated hanging supports by anchoring threaded rod into existing overhead structures to support uni-strut brackets. Conduit clips were installed to secure the piping to the uni-strut bracket supports.	13 JUL 23	(b) (3) (A)
INC-012	Contractor added a section angle to connect the (b) (3) (A). Contractor welded a (b) (3) (A) plate to the side of the existing structural beam for reinforcement.	19 JUL 23	(b) (3) (A)
INC-013	Contractor installed a column beam approximately (b) (3) (A) from the wall (to allow clearance for opening existing electrical panel), anchored to the tunnel floor with (b) (3) (A) anchor bolts. Grout installed beneath new column baseplate.	19 JUL 23	(b) (3) (A)



Quality Validation Report (+ x22)

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Validation Complete	Date	Location
INC-014	Contractor installed knee brace to tunnel wall. Brace welded to beam and baseplate, baseplate anchored to tunnel wall with (b) (3) (A) anchor bolts. Grout installed beneath baseplate.	19 JUL 23	(b) (3) (A)
INC-015	Contractor welded a (b) (3) (A) plate ((b) (3) (A)) extending (b) (3) (A) to reinforce beam at Pipe Support (b) (3) (A)	19 JUL 23	
INC-016	Contractor welded a (b) (3) (A) plate ((b) (3) (A)) extending (b) (3) (A) to reinforce beam at Pipe Support (b) (3) (A)	19 JUL 23	
INC-017	Contractor welded a (b) (3) (A) plate ((b) (3) (A)) extending (b) (3) (A) to reinforce beam at Pipe Support (b) (3) (A)	19 JUL 23	
INC-018	Contractor welded a (b) (3) (A) plate ((b) (3) (A)) extending (b) (3) (A) to reinforce beam at Pipe Support (b) (3) (A)	19 JUL 23	
INC-019	Contractor welded a (b) (3) (A) plate ((b) (3) (A)) extending (b) (3) (A) to reinforce beam at Pipe Support (b) (3) (A). Visual inspection and MT was performed on the structural welds IAW AWS D1.1 code, 50% random.	19 JUL 23	
INC-020	Contractor welded a (b) (3) (A) place, (b) (3) (A) high on the outside of the vertical support. Visual inspection and PT was performed on the structural welds IAW AWS D1.1 code, 50% random.	19 JUL 23	



Quality Validation Report (+ x22)

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Validation Complete	Date	Location
INC-021	Contractor removed the bottom (b) (3) (A) of the vertical support and replaced in-kind at (b) (3) (A) locations: (b) (3) (A). Structural welds inspection via VT and PT, 50% random.	19 JUL 23	(b) (3) (A)
INC-022	Contractor welded a (b) (3) (A) place, (b) (3) (A) high on the outside of the vertical support. Visual inspection and PT was performed on the structural welds IAW AWS D1.1 code, 50% random.	19 JUL 23	
INC-024	At Pipe Support (b) (3) (A), contractor removed coating from anchor nut to allow tack welding to the anchor bolt in place of full thread engagement.	19 JUL 23	



Rework - Quality Validation Report

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Validation Complete	Date	Location



Relief - Quality Validation Report

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Validation Complete	Date	Location

Seeking Repair Relief: #006, UGPH



Testing & Inspection Dates

ENSURING A FREE AND OPEN INDO-PACIFIC

NO.	Testing & Inspection Dates	Date	Location
1			
2			
3			
4			



Around the Horn

ENSURING A FREE AND OPEN INDO-PACIFIC

AGENCIES:

- NAVAL FACILITIES ENGINEERING SYS COMMAND-HAWAII (NAVFAC-HI)
- JOINT TASK FORCE-RED HILL (JTF-RH)
- ENVIRONMENTAL PROTECTION AGENCY (EPA)
- DEPARTMENT OF HEALTH (DOH)
- FLEET LOGISTIC CENTER-PEARL HARBOR (FLC-PH)
- DEFENSE LOGISTIC AGENCY (DLA)
- COMMANDER, NAVY REGION-HAWAII (CNR-HI)
- ENGINEERING AND EXPEDITIONARY WARFARE CENTER (EXWC)
- NAVY-OTHER

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	002
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	(b) (4).06
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	17 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
(b) (4)	319	(b) (4)	
Repair Description	Install additional pressure indicating Transmitters (b) (4) existing PITs are in the (b) (4) instrumentation.		Source Contract Reference
Description of Contractor QC Method(s) Used	Pre Installation, Pre Operational and Operational Testing completed. Integration with AFHE.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented IAW PWS. Visually inspected completed installation; matched completed construction against design and material submittals. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals). Final acceptance by government. Date: 12 JUL 2023		
Rework Needed		Photo Record Attached	Repair Work Validated as Complete
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No
		See Pages 2 5.	<input checked="" type="radio"/> Yes <input type="radio"/> No

Comments

Contractor installed (b) (4) but (b) (4) d
 vents on the (b) (4) piping. PITs integrated into facility automated fuel handling equipment (AFHE) and supervisory control and data acquisition (SCADA) systems. The PITs provide operators with real time pressure readings to ensure conditions are acceptable before and during fuel movement. Equipment is factory calibrated. Subsequent calibration will be performed once the system has been repacked, documented in the Site Survey Report (SSR).

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 17 JUL 2023	

(b) (3) (A)

(b) (3) (A)

(b) (3) (A)

(b) (3) (A)

(b) (3) (A)

(b) (3) (A)

(b) (3) (A)

(b) (3) (A)

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 002
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	██████027
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	13 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
██████/C / NDA/██████	N/A	(b) (3) (A) ██████████	(b) (3) (A) ██████████
Repair Description	Replace Non ████████ard B ████████lange. ██████████ ██ ██ ██		Source Contr Referen ██████████
Description of Contractor QC Method(s) Used	Methods outlined in QCP.		Contractor QC Records Reviewed QCP and Daily Reports.
Description of QA Validation and Observations	QA methods outlined in QASP. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repair & reviewed contractor QC documentation. Final acceptance by government. Date: 26 MAY 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor unbol ██████████ to a ██████████ (b) (3) (A) ██████████
 ██████████ ed a new (b) (3) (A) ██████████ blind flange with new hardware.

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 13 JUL 2023	

(b) (3) (A)

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 003
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	██████A21.51
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
██████/C ████████	N/A	████████████████████	(b) (3) (A) ██████████
Repair Description	Dent on bell joint ████████ PI as ████████ ment; failed FFS ██████████ ████████████████████ ████████████████████		Source Contract Reference ██████████
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Pipe welds 100% inspection via Radiographic Testing.		Contractor QC Records Reviewed CQCP and Daily Reports.
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor removed (b) (3) (A) ██████████ (b) (3) (A) ██████████ bell joint ██████████
 ██████████ % radiograph ██████████ E result table, NDE inspection report, weld map included for reference.

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 19 JUL 2023
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(b) (3) (A)

EMERGENT PIPELINE REPAIRS

REPAIR ID	ROOT PASS							COVER PASS										
	FITUP P/F	DATE	WELDER	DATE	VT P/F	INSPECTOR	DATE	WELDER	DATE	VT P/F	DATE	INSPECTOR	MT / PT P/F	DATE	INSPECTOR	RT P/F	DATE	INSPECTOR
(b) (3) (A)	FILLET WELD							(b) (6)	05 / 04 / 2023	P	05 / 04 / 2023	(b) (6)	P	05 / 04 / 2023	(b) (6)			
INITIAL																		
REWORK 1									STRUCTURAL WELD									
REWORK 2																		
(b) (3) (A)	FILLET WELD																	
INITIAL									05 / 04 / 2023	P	05 / 04 / 2023		P	05 / 04 / 2023				
REWORK 1									STRUCTURAL WELD									
REWORK 2																		
(b) (3) (A)	FILLET WELD																	
INITIAL									05 / 04 / 2023	P	05 / 04 / 2023		P	05 / 04 / 2023				
REWORK 1									STRUCTURAL WELD									
REWORK 2																		
(b) (3) (A)	FILLET WELD																	
INITIAL									05 / 04 / 2023	P	05 / 04 / 2023		P	05 / 04 / 2023				
REWORK 1									STRUCTURAL WELD									
REWORK 2																		
(b) (3) (A)	FILLET WELD																	
INITIAL									05 / 04 / 2023	P	05 / 04 / 2023		P	05 / 04 / 2023				
REWORK 1									STRUCTURAL WELD									
REWORK 2																		
(b) (3) (A)	P	05 / 02 / 2023	WL	05 / 02 / 2023	P	AW	05 / 02 / 2023											
INITIAL									05 / 03 / 2023	P	05 / 03 / 2023					P	05 / 04 / 2023	(b) (6)
REWORK 1																		
REWORK 2																		
(b) (3) (A)	P	05 / 02 / 2023	WL	05 / 02 / 2023	P	AW	05 / 02 / 2023											
INITIAL									05 / 03 / 2023	P	05 / 03 / 2023					P	05 / 04 / 2023	(b) (6)
REWORK 1																		
REWORK 2																		

(b) (3) (A), (b) (4)

(b) (3) (A)

(b) (4)

RADIOGRAPHIC INSPECTION REPORT

(b) (4) W. O. No.: 73-034
Report No.: 6550423
Page 3 of 3

WELD #	VIEW #	GEOMETRIC UNSHARPNESS "UG"	DEFECTS										REMARKS		
			ACCEPT	REJECT	Porosity	Slag Inclusions	Cracks	Lack of Fusion	Lack of Penet.	Undercut	Burn Thru	Slack Back		T.I.	Film Artifact
W-07	0-1	.020	X												(b) (3) (A)
(b) (3) (A)	1-2	/	X												
	2-3	/	X												
	3-0	/	X												
W-1	07-14	.020	X											JPS	
(b) (3) (A)	14-28	/	X											ITEM JP5.A21.51	
	28-42	/	X												
	42-0	/	X												
W2	0-14	.020	X											JPS	
	14-28	/	X											ITEM JP5.A21.51	
	28-42	/	X												
	42-0	/	X												

(b) (6)

Film Interpreter

SNT-TC-1A Level II

Date of Inspection 5/4/73

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 004
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	██████C.K.pp
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
██████/C ████████	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Missing HPV ████████ nality ████████ ateral with curre ████████ ██████ ██████ (b) (3) (A) ████████ ██████		Source Contract Reference ████████
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Socket welds 100% inspection via VT and PT or MT.		Contractor QC Records Reviewed CQCP and Daily Reports.
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor instal ████████ (b) (3) (A) ████████ ing ████████
 ████████ port, weld ████████ included for reference.

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	19 JUL 2023

(b) (3) (A)

WELD INFORMATION							INSPECTION INFORMATION				
Weld ID	Number	SIZE	TYPE	JOINT	JOINT	WELDER ID	DATE	NDE TYPE	INITIALS	DATE	RESULTS
(b) (3) (A)	4	(b) (3) (A)	SW	PIPE	90* SW ELBOW	(b) (6)	6/21/2023	CWI VT	(b) (6)		PASSED
								PT		6/29/2023	PASSED
	5		SW	90* SW ELBOW	PIPE		6/21/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	6		SW	PIPE	90* SW ELBOW		6/21/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	7		SW	90* SW ELBOW	PIPE NIPPLE (TOE)		6/21/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	1		BW	(b) (3) (A) Pipe	(b) (3) (A) vessel-o-let		6/30/2023	CWI VT			PASSED
								RT		7/5/2023	PASSED
	2		BW	(b) (3) (A) vessel-o-let	(b) (3) (A) RFSW Flange		6/30/2023	CWI VT			PASSED
								RT		7/5/2023	PASSED
	3		SW	(b) (3) (A) RFSW Flange	PIPE		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	4		SW	PIPE	90* SW ELBOW		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	5		SW	90* SW ELBOW	PIPE		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	6		SW	PIPE	90* SW ELBOW		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	7		SW	90* SW ELBOW	PIPE NIPPLE (TOE)		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	1		BW	(b) (3) (A) Pipe	(b) (3) (A) vessel-o-let		6/15/2023	CWI VT		6/15/2023	PASSED
								RT		6/30/2023	PASSED
	2		BW	(b) (3) (A) vessel-o-let	(b) (3) (A) FWN Flange		6/9/2023	CWI VT			PASSED
								RT		6/12/2023	PASSED
	3		SW	(b) (3) (A) RFSW Flange	PIPE		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	4		SW	PIPE	90* SW ELBOW		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	5		SW	90* SW ELBOW	PIPE		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	6		SW	PIPE	90* SW ELBOW		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED
	7		SW	90* SW ELBOW	PIPE NIPPLE (TOE)		6/22/2023	CWI VT			PASSED
								PT		6/29/2023	PASSED

(b) (3) (A), (b) (4)

(b) (3) (A)

(b) (4)

RADIOGRAPHIC INSPECTION REPORT

(b) (4)

W. O. No.: 23-034

Report No.: 6562723

Page 3 of 4

WELD #	VIEW #	GEOMETRIC UNSHARPNESS 'UG'	DEFECTS										REMARKS			
			ACCEPT	REJECT	Porosity	Slag Inclusions	Cracks	Lack of Fusion	Lack of Penet.	Undercut	Burr Thru	Suck Back		T. I.	Film Artifact	
(b) (3) (A)	1-2	.020	✓													(b) (3) (A), (b) (6)
	2-3	/	✓													
	3-4	/	✗													
	4-1	/	✗													
	1-2	.020	✗													
	2-3	/	✗													
	3-4	/	✗													
	4-1	/	✗													
	1-2	.020	✗													
	2-3	/	✗													
	3-4	/	✗													
	4-1	/	✗													
	1-2	.020	✗													
	2-3	/	✗													
	3-4	/	✗													
	4-1	/	✗													

(b) (6)

Film Interpreter

SNT-TC-1A Level

Date of Inspection

IF

6/30/23

(b) (4)

RADIOGRAPHIC INSPECTION REPORT

(b) (4) W. O. No.: 23-034
Report No.: GSG1723
Date: 6/12/23
Page 1 of 1

FORM NDT-005.1

CUSTOMER	(b) (4)	CUST JOB#		SPECIFICATION	ASME V	ACCEPTANCE	ASME B31.3	1. Single Wall	
PROJECT	Hill emergent	DWG. NO.		PROCEDURE	ASME REV C	ACC. PROC.	B31.3 REV 2015	2. Single Wall	
RT SOURCE	DR192	FILM	AGFA D5	PB SCREENS		MATERIAL	CS	3. Double Wall	
SOURCE	(b) (3) (A)	TECHNIQUE USED	G	THICKNESS	(b) (3) (A)	JOINT TYPE		4. Double Wall 0/90	
FOCAL S	(b) (3) (A)	EXPOSURE TIME	1.15	PIPE DIA.		5. Plate		6. Other	
SFD	(b) (3) (A)	PROCESSING	<input checked="" type="checkbox"/> MANUAL <input type="checkbox"/> AUTOMATIC	REMARKS					

WELD #	VIEW #	GEOMETRIC UNSHARPNESS *1/16"	ACCEPT	REJECT	Porosity	Slag Inclusions	Cracks	Lack of Fusion	Lack of Penetr.	Undercut	Burn Thru	Spatter Back	T.I.	Film Artifact	REMARKS
(b) (3) (A)	0	0.020	X												(b) (3) (A)
	60		X												
	120		X												
(b) (3) (A)	0	0.020	X												
	60		X												
	120		X												
	0	0.020	X												
	60		X												
	120		X												

(b) (6)

Radiographer: _____ Date: _____ Film Interpreter: _____ SNT-TC-1A Level: II Date of Inspection: 6/12/23 Customer: _____

(b) (4)

LIQUID PENETRANT EXAMINATION RECORD

Client: (b) (4)	Location: Red Hill	Page 1 of 1
P.O. No.:	Job No.: 23-034	
(b) (4) Procedure: NDT002.2 Rev C	Code: ASME B31.3	
Report No. KM6292023d		

ITEM: VSLT socket welds

MATERIAL		PENETRANT MATERIAL				TECHNIQUE
TYPE: CS FW		BRAND	DESIGNATION	PO#	BATCH #	Preclean Drying Time: 5 MIN
Surface Condition: <input type="checkbox"/> As Welded <input type="checkbox"/> Ground <input type="checkbox"/> Other <u>Weld Prep</u> <input checked="" type="checkbox"/> New weld	Cleaner	Magnaflux	SKC-S	N/A	21002K 002711	Method of Application: Brush
	Penetrant	Magnaflux	SKL-SP1	N/A	19G04K 01755	Dwell Time: 10 Min
	Emulsifier	N/A	N/A	N/A	N/A	Emulsification Time: N/A
	Developer	Magnaflux	SKD-S2	N/A	20L02U	Developing Time: 15 Min
Temperature: <input checked="" type="checkbox"/> 60° F – 125° F		Illumination: <input checked="" type="checkbox"/> White		FC 150		E & I Control #
Other _____						UV Meter <input type="checkbox"/> N/A <input type="checkbox"/>

Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A) socket weld	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No indications noted at time of inspection.
socket weld	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
socket weld	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
socket weld	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
socket weld	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
socket weld	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6) Level III Date: 6/29/2023 Reviewed By: _____ Date: _____

(b) (3) (A)

(b) (3) (A)

(b) (3) (A)

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 008
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.MM.03
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	13 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████/C █████	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Unsupported (b) (3) (A) pipe █████ all shims and U █████ t (b) (3) (A) █████ (b) (3) (A) █████ █████ █████ █████ █████		Source Contract Reference █████
Description of Contractor QC Method(s) Used	Methods outlined in QCP.		Contractor QC Records Reviewed QCP and Daily Reports.
Description of QA Validation and Observations	QA methods outlined in QASP. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repair & reviewed contractor QC documentation. Final acceptance by government. Date: 22 MAY 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor instal █████ (b) (3) (A) █████ : ket █████ (b) (3) (A) █████
 █████ █████

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 13 JUL 2023	

(b) (3) (A)

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 009
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	CAR.MM.04
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	13 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
EXWC	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Unsupported (b) (3) (A) pipe. Install shims and u bolt at existing support for (b) (3) (A) pipe connected to (b) (3) (A) (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in QCP.		Contractor QC Records Reviewed
Description of QA Validation and Observations	QA methods outlined in QASP. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repair & reviewed contractor QC documentation. Final acceptance by government. Date: 22 MAY 2023		
Rework Needed		Photo Record Attached	Repair Work Validated as Complete
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No
		See Page 2.	<input checked="" type="radio"/> Yes <input type="radio"/> No

Comments

Contractor installed u bolt brackets and shims for (b) (3) (A) (b) (3) (A) to existing support bracket.

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	13 JUL 2023

(b) (3) (A)

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 010
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	CAR.MM.07
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	13 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
EXWC	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Unsupported (b) (3) (A) pipe. Install shims and U bolt at existing support for (b) (3) (A) pipe connected to (b) (3) (A) (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in QCP.		Contractor QC Records Reviewed
Description of QA Validation and Observations	QA methods outlined in QASP. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repair & reviewed contractor QC documentation. Final acceptance by government. Date: 22 MAY 2023		
Rework Needed		Photo Record Attached	Repair Work Validated as Complete
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No
		See Page 2.	<input checked="" type="radio"/> Yes <input type="radio"/> No

Comments
 Contractor installed u bolt brackets and shims for (b) (3) (A) to existing bracket.

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	13 JUL 2023

(b) (3) (A)

(b) (3) (A)

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC-012
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	CAR.STR.01
Contract No.	FA890315D0007, D.O. FA8903-19-F-0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
EXWC / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	The lower section of pipe support column and cross bracing is heavily corroded (greater than 50% metal loss). Ground Weld (b) (3) (A) plate, (b) (3) (A) in height, on inside flange of steel beam (side facing camera).		Source Contract Reference [REDACTED]
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Structural welds 50% inspection via VT and MT.		Contractor QC Records Reviewed CQCP and Daily Reports.
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF-RH secondary QA and 3rd Party QV completed. JTF-RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		
Rework Needed		Photo Record Attached	Repair Work Validated as Complete
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No
		See Page 2.	<input checked="" type="radio"/> Yes <input type="radio"/> No

Comments

Contractor added a section angle to connect the cr [REDACTED] g to the base of (b) (3) (A) [REDACTED]. Contractor welded a (b) (3) (A) plate to the side of the existing structural [REDACTED] or reinforcement.

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	19 JUL 2023

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023	(b) (6)	P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4)	Location: Red Hill; JBPHH	Date: 06-30-2023
P.O. No.: NA	Job No. 23-034	
(b) (4) Procedure: NDT 003.2 revD	Code: AWS D1.1	
Report No.: KS06302023		

MATERIAL	MAGNETIZING TECHNIQUE	MAGNETIZING EQUIPMENT
Type: C/S	Prod: <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC Spacing: (b) (3) (A)	Mfg.: Parker Serial #: 23962
Thickness: STD	Amps: fixed Coil Dia. _____	Calibration Date 06/01/2023
Geometry: <input type="checkbox"/> Pipe <input checked="" type="checkbox"/> Plate <input type="checkbox"/> Rod	Longitudinal Turns: n/a Amp Turns: _____	Field Verification By: Pie Gauge
<input type="checkbox"/> Other: _____	Direct: n/a	UV Meter: n/a
Item: Repairs on Pipe Supports	Circular: n/a	MODEL: n/a Serial #: n/a
Stage of Mfg.: New	Central Conductor: n/a	
	Amps: n/a	
Surface Condition: Buffed Clean	Inspection Medium: <input checked="" type="checkbox"/> Dry Powder <input type="checkbox"/> Wet Visible	Color: RED
	Illumination: <input checked="" type="checkbox"/> White <input type="checkbox"/> Ultraviolet	Type Batch No.: 22A006

Item(s)	Accept	Reject	Item(s)	Accept	Reject	Sketch/Notes
Pipe Supports/Braces						<div style="border: 2px dashed red; border-radius: 50%; padding: 10px;"> <p>MT Inspection was requested and performed on Repairs made on Pipe Supports.</p> <p>No relevant indications were found during this inspection.</p> </div>
(b) (3) (A)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Performed By: (b) (6) Date 06/30/2023 Reviewed By: Date: Page 1 of 1

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 013
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	CAR.STR.02
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
EXWC / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Horizontal beam is 100% corroded through at the wall interface. Install a column beneath beam, approximately (b) (3) (A) out from wall, to the beam.		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Structural welds 50% inspection via VT and MT.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		
Rework Needed		Photo Record Attached	Repair Work Validated as Complete
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No
		See Page 2.	<input checked="" type="radio"/> Yes <input type="radio"/> No

Comments

Contractor installed a column beam approximately (b) (3) (A) from the wall (to [redacted] for opening existing [redacted] panel), anchored to the tunnel floor with (b) (3) (A) anchor bolts. Grout installed beneath new column baseplate.

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	19 JUL 2023

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	(b) (6)	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023		P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4) Location: Red Hill; JBPHH Date: 06-30-2023
P.O. No.: NA Job No. 23-034
(b) (4) Procedure: NDT 003.2 revD Code: AWS D1.1
Report No.: KS06302023

Table with 3 main columns: MATERIAL, MAGNETIZING TECHNIQUE, and MAGNETIZING EQUIPMENT. Includes fields for Type, Thickness, Geometry, Item, Stage of Mfg., Surface Condition, Prod, Amperage, Spacing, Mfg., Calibration Date, Field Verification, UV Meter, MODEL, Serial #, Inspection Medium, Dry Powder, Wet Visible, Illumination, White, Ultraviolet, and Type Batch No.

(b) (3) (A)

Table with 6 columns: Item(s), Accept, Reject, Item(s), Accept, Reject, Sketch/Notes. Contains a red cloud-shaped note: 'MT Inspection was requested and performed on Repairs made on Pipe Supports. No relevant indications were found during this inspection.'

Performed By: (b) (6) Date 06/30/2023 Reviewed By: Date: Page 1 of 1

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023	(b) (6)	P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4)	Location: Red Hill; JBPHH	Date: 06-30-2023
P.O. No.: NA	Job No. 23-034	
(b) (4) Procedure: NDT 003.2 revD	Code: AWS D1.1	
Report No.: KS06302023		

MATERIAL	MAGNETIZING TECHNIQUE	MAGNETIZING EQUIPMENT
Type: C/S	Prod: <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC Spacing ^{(b) (3)}	Mfg.: Parker Serial #: 23962
Thickness: STD	Amps <u>fixed</u> Coil Dia. _____	Calibration Date 06/01/2023
Geometry: <input type="checkbox"/> Pipe <input checked="" type="checkbox"/> Plate <input type="checkbox"/> Rod	Longitudinal Turns <u>n/a</u> Amp Turns _____	Field Verification By: Pie Gauge
<input type="checkbox"/> Other: _____	Direct <u>n/a</u>	UV Meter: n/a
Item: Repairs on Pipe Supports	Circular <u>n/a</u>	MODEL: n/a Serial #: n/a
Stage of Mfg.: New	Central Conductor <u>n/a</u>	
	Amps <u>n/a</u>	
Surface Condition: Buffed Clean	Inspection Medium <input checked="" type="checkbox"/> Dry Powder <input type="checkbox"/> Wet Visible	Color: RED Type Batch No.: 22A006
	Illumination <input checked="" type="checkbox"/> White <input type="checkbox"/> Ultraviolet	

Item(s)	Accept	Reject	Item(s)	Accept	Reject	Sketch/Notes
Pipe Supports/Braces						<div style="border: 2px dashed red; border-radius: 50%; padding: 10px;"> <p>MT Inspection was requested and performed on Repairs made on Pipe Supports.</p> <p>No relevant indications were found during this inspection.</p> </div>
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Performed By: (b) (6)	Date 06/30/2023	Reviewed By:	Date:	Page 1 of 1
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QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 015
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.STR.04
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████/C / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Significant corrosion observed on top flange of (b) (3) (A) (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Structural welds 50% inspection via VT and MT.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor welds (b) (3) (A) info (b) (3)

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 19 JUL 2023
--	---	----------------------------

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023	(b) (6)	P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4)	Location: Redhill	Date: 06/26/2023
P.O. No.	Job No.: 23-034	
(b) (4) Procedure: NDT-003.2 REV E	Code: AWS D1.1	
Report No.: GS06/26/23		

MATERIAL	MAGNETIZING TECHNIQUE	MAGNETIZING EQUIPMENT
Type: Plate	Prod: <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC Spacing (b) (3) (A)	Mfg.: Parker Serial #: 340
Thickness: Various	Amps _____ Coil Dia. _____	Calibration Due Date: 12/20/23
Geometry <input type="checkbox"/> Pipe <input checked="" type="checkbox"/> Plate <input type="checkbox"/> Rod	Longitudinal Turns _____ Amp Turns _____	Field Verification By: Pie Gauge
<input type="checkbox"/> Other: _____	Direct _____	UV Meter:
Item: Steel Plate	Circular _____	MODEL: Serial #:
Stage of Mfg.:	Central Conductor _____	
	Amps _____	
Surface Condition: Clean	<u>Inspection Medium</u> <input checked="" type="checkbox"/> Dry Powder Color: Gray	
	<input type="checkbox"/> Wet Fluorescent	Type Batch No.: 14B108
	<u>Illumination</u> <input checked="" type="checkbox"/> White <input type="checkbox"/> Ultraviolet	

Item(s)	Accept	Reject	Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	No indications noted at time of inspection.
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6)	Level: II	Date: 06/26/2023	Reviewed By:	Date:	Page 1 of 1
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QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 016
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.STR.05
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████/C / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Significant corrosion observed on top flange of (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Structural welds 50% inspection via VT and MT.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor welds (b) (3) (A) info (b) (3)

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	19 JUL 2023

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023	(b) (6)	P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4)	Location: Redhill	Date: 06/26/2023
P.O. No.	Job No.: 23-034	
(b) (4) Procedure: NDT-003.2 REV E	Code: AWS D1.1	
Report No.: GS06/26/23		

MATERIAL	MAGNETIZING TECHNIQUE	MAGNETIZING EQUIPMENT
Type: Plate	Prod: <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC Spacing (b) (3) (A)	Mfg.: Parker Serial #: 340
Thickness: Various	Amps _____ Coil Dia. _____	Calibration Due Date: 12/20/23
Geometry <input type="checkbox"/> Pipe <input checked="" type="checkbox"/> Plate <input type="checkbox"/> Rod	Longitudinal Turns _____ Amp Turns _____	Field Verification By: Pie Gauge
<input type="checkbox"/> Other: _____	Direct _____	UV Meter:
Item: Steel Plate	Circular _____	MODEL: Serial #:
Stage of Mfg.:	Central Conductor _____	
	Amps _____	
Surface Condition: Clean	<u>Inspection Medium</u> <input checked="" type="checkbox"/> Dry Powder Color: Gray	
	<input type="checkbox"/> Wet Fluorescent Type Batch No.: 14B108	
	<u>Illumination</u> <input checked="" type="checkbox"/> White <input type="checkbox"/> Ultraviolet	

Item(s)	Accept	Reject	Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	No indications noted at time of inspection.
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6)	Level: II	Date: 06/26/2023	Reviewed By:	Date:	Page 1 of 1
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QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 017
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.STR.06
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████/C / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Significant corrosion observed on top flange of (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Structural welds 50% inspection via VT and MT.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor welds (b) (3) (A) info (b) (3)

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 19 JUL 2023
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(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023	(b) (6)	P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4)	Location: Redhill	Date: 06/26/2023
P.O. No.	Job No.: 23-034	
(b) (4) Procedure: NDT-003.2 REV E	Code: AWS D1.1	
Report No.: GS06/26/23		

MATERIAL	MAGNETIZING TECHNIQUE	MAGNETIZING EQUIPMENT
Type: Plate	Prod: <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC Spacing (b) (3) (A)	Mfg.: Parker Serial #: 340
Thickness: Various	Amps _____ Coil Dia. _____	Calibration Due Date: 12/20/23
Geometry <input type="checkbox"/> Pipe <input checked="" type="checkbox"/> Plate <input type="checkbox"/> Rod	Longitudinal Turns _____ Amp Turns _____	Field Verification By: Pie Gauge
<input type="checkbox"/> Other: _____	Direct _____	UV Meter:
Item: Steel Plate	Circular _____	MODEL: _____ Serial #: _____
Stage of Mfg.:	Central Conductor _____	
	Amps _____	
Surface Condition: Clean	<u>Inspection Medium</u> <input checked="" type="checkbox"/> Dry Powder Color: Gray	
	<input type="checkbox"/> Wet Fluorescent Type Batch No.: 14B108	
	<u>Illumination</u> <input checked="" type="checkbox"/> White <input type="checkbox"/> Ultraviolet	

Item(s)	Accept	Reject	Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	No indications noted at time of inspection.
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6) Level: II Date: 06/26/2023 Reviewed By: Date: Page 1 of 1

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 018
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.STR.07
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████/C/ 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Significant corrosion observed on top flange of (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Structural welds 50% inspection via VT and MT.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed		Photo Record Attached		Repair Work Validated as Complete					
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor welds (b) (3) (A) info (b) (3) (A)

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 19 JUL 2023
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(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023	(b) (6)	P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4)	Location: Redhill	Date: 06/26/2023
P.O. No.	Job No.: 23-034	
(b) (4) Procedure: NDT-003.2 REV E	Code: AWS D1.1	
Report No.: GS06/26/23		

MATERIAL	MAGNETIZING TECHNIQUE	MAGNETIZING EQUIPMENT
Type: Plate	Prod: <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC Spacing: (b) (3) (A)	Mfg.: Parker Serial #: 340
Thickness: Various	Amps _____ Coil Dia. _____	Calibration Due Date: 12/20/23
Geometry <input type="checkbox"/> Pipe <input checked="" type="checkbox"/> Plate <input type="checkbox"/> Rod	Longitudinal Turns _____ Amp Turns _____	Field Verification By: Pie Gauge
<input type="checkbox"/> Other: _____	Direct _____	UV Meter:
Item: Steel Plate	Circular _____	MODEL: _____ Serial #: _____
Stage of Mfg.:	Central Conductor _____	
	Amps _____	
Surface Condition: Clean	<u>Inspection Medium</u> <input checked="" type="checkbox"/> Dry Powder Color: Gray	
	<input type="checkbox"/> Wet Fluorescent	Type Batch No.: 14B108
	<u>Illumination</u> <input checked="" type="checkbox"/> White <input type="checkbox"/> Ultraviolet	

Item(s)	Accept	Reject	Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	No indications noted at time of inspection.
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6) Level: II Date: 06/26/2023 Reviewed By: Date: Page 1 of 1

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 019
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.STR.08
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████ C / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Significant corrosion observed on top flange and (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Visual inspection and Magnetic Particle Inspection (MT) was performed on the structural welds IAW AWS D1.1 code, 50% random.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor welds (b) (3) (A) info (b) (3) (A) performed welds IAW AWS D1.1 code, 50% random.

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 19 JUL 2023
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(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	06 / 06 / 2023	(b) (6)	P	06 / 27 / 2023	(b) (4)
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	04 / 07 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	04 / 14 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 22 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 28 / 2023		P	04 / 27 / 2023	
	P	03 / 29 / 2023		P	04 / 27 / 2023	
	P	03 / 30 / 2023		P	04 / 27 / 2023	
	P	03 / 23 / 2023		P	04 / 27 / 2023	
	P	03 / 24 / 2023		P	04 / 27 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	03 / 20 / 2023		P	04 / 27 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	

(b) (4)

MAGNETIC PARTICLE EXAMINATION RECORD

Client: (b) (4)	Location: Red Hill; JBP HH	Date: 06-30-2023
P.O. No.: NA	Job No. 23-034	
(b) (4) Procedure: NDT 003.2 revD	Code: AWS D1.1	
Report No.: KS06302023		

MATERIAL	MAGNETIZING TECHNIQUE	MAGNETIZING EQUIPMENT
Type: C/S	Prod: <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC Spacing: (b) (3) (4)	Mfg.: Parker Serial #: 23962
Thickness: STD	Amps: fixed Coil Dia. _____	Calibration Date 06/01/2023
Geometry: <input type="checkbox"/> Pipe <input checked="" type="checkbox"/> Plate <input type="checkbox"/> Rod <input type="checkbox"/> Other: _____	Longitudinal Turns: n/a Amp Turns: _____ Direct: n/a Circular: n/a	Field Verification By: Pie Gauge
Item: Repairs on Pipe Supports	Central Conductor: n/a Amps: n/a	UV Meter: n/a MODEL: n/a Serial #: n/a
Stage of Mfg.: New	Inspection Medium: <input checked="" type="checkbox"/> Dry Powder <input type="checkbox"/> Wet Visible	Color: RED Type Batch No.: 22A006
Surface Condition: Buffed Clean	Illumination: <input checked="" type="checkbox"/> White <input type="checkbox"/> Ultraviolet	

Item(s)	Accept	Reject	Item(s)	Accept	Reject	Sketch/Notes
Pipe Supports/Braces						<p>MT Inspection was requested and performed on Repairs made on Pipe Supports.</p> <p>No relevant indications were found during this inspection.</p>
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Performed By: (b) (6) Date 06/30/2023 Reviewed By: Date: Page 1 of 1

QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 020
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.STR.09
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████/C / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Base of the vertical support structure heavily corroded (b) (3) (A) (b) (3) (A) (b) (3) (A) high on the outside of (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Visual inspection and Dye Penetrant Testing (PT) was performed on the structural welds IAW AWS D1.1 code, 50% random.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor welded (b) (3) (A) the (b) (3) (A) performed (b) (3) (A) welds IAW AWS D1.1 code, 50% random.

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 19 JUL 2023
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(b) (3) (A)

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	02 / 28 / 2023	(b) (6)	P	03 / 07 / 2023	(b) (4)
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 15 / 2022		N/A		
	P	06 / 15 / 2022		N/A		
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				

(b) (4)

LIQUID PENETRANT EXAMINATION RECORD

Client: (b) (4) Location: Red Hill Page 1 of 1
P.O. No.: Job No.: 23-034
(b) (4) Procedure: NDT002.2 Rev C Code: AWS D1.1
Report No. GS070723

ITEM: Emergent Pipeline repair

MATERIAL		PENETRANT MATERIAL				TECHNIQUE
TYPE: CS FW		BRAND	DESIGNATION	PO#	BATCH #	Preclean Drying Time: 5 MIN
Surface Condition: <input type="checkbox"/> As Welded <input type="checkbox"/> Ground <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> New weld	Cleaner	Magnaflux	SKC-S	N/A	21002K 002711	Method of Application: Brush
	Penetrant	Magnaflux	SKL-SP1	N/A	19G04K 01755	Dwell Time: 10 Min
	Emulsifier	N/A	N/A	N/A	N/A	Emulsification Time: N/A
	Developer	Magnaflux	SKD-S2	N/A	20L02U	Developing Time: 15 Min
Temperature: <input checked="" type="checkbox"/> 60° F – 125° F Other _____		Illumination: <input checked="" type="checkbox"/> White		FC 150	(b) (4) Control # UV Meter <input type="checkbox"/> N/A <input type="checkbox"/>	

Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No indications noted at time of inspection.
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6) Level II Date: 7/07/2023 Reviewed By: Date:

(b) (3) (A)

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	02 / 28 / 2023	(b) (6)	P	03 / 07 / 2023	(b) (4)
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 15 / 2022		N/A		
	P	06 / 15 / 2022		N/A		
	P	06 / 15 / 2022		N/A		
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				

(b) (4)

LIQUID PENETRANT EXAMINATION RECORD

Client: (b) (4)	Location: Red Hill	Page 1 of 1
P.O. No.:	Job No.: 23-034	
(b) (4) Procedure: NDT002.2 Rev C	Code: AWS D1.1	
Report No. GS070723		

ITEM: Emergent Pipeline repair

MATERIAL		PENETRANT MATERIAL				TECHNIQUE
TYPE: CS FW		BRAND	DESIGNATION	PO#	BATCH #	Preclean Drying Time: 5 MIN
Surface Condition: <input type="checkbox"/> As Welded <input type="checkbox"/> Ground <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> New weld	Cleaner	Magnaflux	SKC-S	N/A	21002K 002711	Method of Application: Brush
	Penetrant	Magnaflux	SKL-SP1	N/A	19G04K 01755	Dwell Time: 10 Min
	Emulsifier	N/A	N/A	N/A	N/A	Emulsification Time: N/A
	Developer	Magnaflux	SKD-S2	N/A	20L02U	Developing Time: 15 Min
Temperature: <input checked="" type="checkbox"/> 60° F – 125° F Other _____	Illumination: <input checked="" type="checkbox"/> White		FC 150		(b) (4) Control #	UV Meter <input type="checkbox"/> N/A <input type="checkbox"/>

Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<div style="border: 2px dashed red; border-radius: 50%; padding: 10px; text-align: center;"> No indications noted at time of inspection. </div>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6) Level II Date: 7/07/2023	Reviewed By: _____ Date: _____
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QUALITY VALIDATION (QV) REPORT

Red Hill Bulk Fuel Storage Facility Defuel

Validation Firm	HDR Environmental, Operations and Construction, Inc.	Repair No.	INC 022
Address	9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112	Repair ID	████.STR.11
Contract No.	FA890315D0007, D.O. FA8903 19 F 0027	Report Date	19 JUL 2023
QV Engineer	(b) (6)		

VALIDATION

Source	PDF Page No.	Facility Geographic Area	Location Reference
████/C / 2022 (b) (4)	N/A	(b) (3) (A)	(b) (3) (A)
Repair Description	Vertical support █████ damaged. Weld a (b) (3) (A) (b) (3) (A)		Source Contract Reference
Description of Contractor QC Method(s) Used	Methods outlined in detail in CQCP. Visual inspection and Dye Penetrant Testing (PT) was performed on the structural welds IAW AWS D1.1 code, 50% random.		Contractor QC Records Reviewed
Description of QA Validation and Observations	Government Quality Assurance is documented by the QSR's in the daily CQC reports using NAVFAC Form 4296/2. Visually inspected completed installation; matched completed construction against design and material submittals. Reviewed NDE reports. JTF RH secondary QA and 3rd Party QV completed. JTF RH QV visually inspected repairs and reviewed contractor QC documentation (Work Plan, submittals, daily reports). Final acceptance by government. Date: 14 JUN 2023		

Rework Needed				Photo Record Attached		Repair Work Validated as Complete			
<input type="radio"/>	Yes	<input checked="" type="radio"/>	No	See Page 2.		<input checked="" type="radio"/>	Yes	<input type="radio"/>	No

Comments
 Contractor welded (b) (3) (A) the (b) (3) (A) performed (b) (3) (A) welds IAW AWS D1.1 code, 50% random.

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 19 JUL 2023
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(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	02 / 28 / 2023	(b) (6)	P	03 / 07 / 2023	(b) (4)
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 15 / 2022		N/A		
	P	06 / 15 / 2022		N/A		
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				

(b) (4)

LIQUID PENETRANT EXAMINATION RECORD

Client: Oceanic	Location: Red Hill	Page 1 of 1
P.O. No.:	Job No.: 23-034	
(b) (4) Procedure: NDT002.2 Rev C	Code: AWS D1.1	
Report No. GS070723		

ITEM: Emergent Pipeline repair

MATERIAL		PENETRANT MATERIAL				TECHNIQUE
TYPE: CS FW		BRAND	DESIGNATION	PO#	BATCH #	Preclean Drying Time: 5 MIN
Surface Condition: <input type="checkbox"/> As Welded <input type="checkbox"/> Ground <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> New weld	Cleaner	Magnaflux	SKC-S	N/A	21002K 002711	Method of Application: Brush
	Penetrant	Magnaflux	SKL-SP1	N/A	19G04K 01755	Dwell Time: 10 Min
	Emulsifier	N/A	N/A	N/A	N/A	Emulsification Time: N/A
	Developer	Magnaflux	SKD-S2	N/A	20L02U	Developing Time: 15 Min
Temperature: <u>X</u> 60° F – 125° F Other _____		Illumination: <input checked="" type="checkbox"/> White		FC 150	(b) (4) Control #	UV Meter <input type="checkbox"/> N/A <input type="checkbox"/>

Item(s)	Accept	Reject	Sketch/Notes
(b) (3) (A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<div style="border: 2px dashed red; border-radius: 50%; padding: 20px; text-align: center;"> No indications noted at time of inspection. </div>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Performed By: (b) (6) Level II Date: 7/07/2023 Reviewed By: _____ Date: _____

(b) (3) (A)

**EMERGENT PIPELINE REPAIRS
STRUCTURAL WELD LOG**

LOCATION / REPAIR ID	VT P/F	FINAL ACCEPTANCE DATE	INSPECTOR	MT / PT / UT P/F	DATE	INSPECTOR
(b) (3) (A)	P	02 / 28 / 2023	(b) (6)	P	03 / 07 / 2023	(b) (4)
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	02 / 28 / 2023		P	03 / 07 / 2023	
	P	06 / 06 / 2023		P	06 / 30 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		N/A		
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 06 / 2023		P	06 / 26 / 2023	
	P	06 / 15 / 2022		N/A		
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				
P	06 / 15 / 2022	N/A				