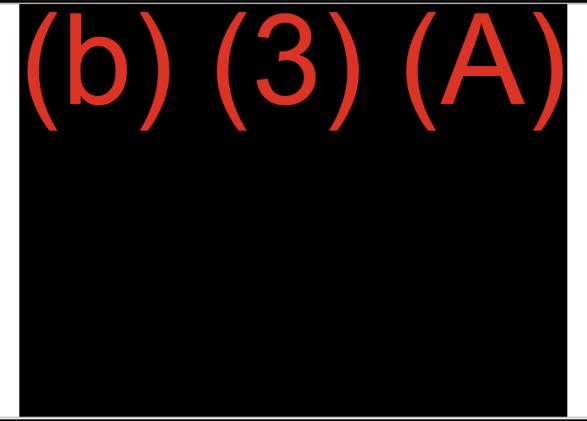
QUALITY VALIDATION (QV) REPORT											
Red Hill Bulk Fuel Storage Facility Defuel											
Vali	dation Firm	HDR Environmental, Operations and Construction, Inc.						Repair No.	Surge Air	Gap	
Address		9781 S. Meridian Blvd., Suite 400, Englewood, CO 80112						Repair ID	N/A		
Contract No.		FA89031	5D0007, D	O. FA890	3-19-F-0027			Report Date	06 NOV 2024		
QV Engineer		(b) (6)			Phone (b) (6)		Email	(b) (6)			
VALIDATION											
Source		PDF Page No.			Facility Geographic Area		Location Reference				
RMMR		N/A			Underground Pumph	nouse	Surge Tu	nel/Surge Tanks 1-4			
Repair Description		Remove DBB valves from product line, pressure safety loop piping, FOR piping and sample disposal line. Remove pipe segments from relief lines. Install blind flanges.					Source Contract Reference		47QSHA18D000Y W912DY21F0025 Service Order 712		
Description of Contractor QC Method(s) Used							Contractor QC Records Reviewed		QCP and Daily Reports.		
Description of QA Validation and Observations		QA methods outlined in QASP. NCTF-RH secondary QA and 3rd Party QV completed. NCTF-RH QV observed piping demolition/removal, blind flange installation, bolt/nut torque.									
		Final acceptance by government. Date: 06 NOV 2024									
Rework		Needed		Photo Record Attached			epair Work Validated		mplete		
0	Yes	•	No		See Page 2-5.		•	Yes	\circ	No	
Contractor followed approved CONOPS to demolish connecting piping from between the Surge Tunnel of the Underground Pumphouse and the Surge Tanks. Contractor removed valves from product line, removed FOR line piping from tank valve to manifold connection, removed sample disposal funnel and line to manifold connection, and removed pressure safety loop piping across DBB valve at Surge Tanks 1, 3, and 4. Contractor removed piping segments from product relief lines at threshold of Surge Tunnel to UGPH. Contractors installed Class 150 blind flanges with new gaskets and bolts/nuts.											
CERTIFICATION											
I hereby certify that repair work validated in this report was personally substantiated and this				QV ENG	GINEER SIGNATURE (b)		6)				
report was p	*	osianilaleu an	นแทร		DATE 06 NOV 2024						

Red Hill Bulk Fuel Storage Facility Defuel



Before and After conditions at Surge Tank 1 product line, pressure safety loop, sample funnel and FOR line air gap.



Surge Tank 1 Air Gap terminations for sample and FOR line leading to UGPH.

Red Hill Bulk Fuel Storage Facility Defuel



Before and After conditions at Surge Tank 2 product line, sample funnel and FOR line air gap.



Before and After conditions at Surge Tank 3 product line, pressure safety loop, sample funnel and FOR line air gap.

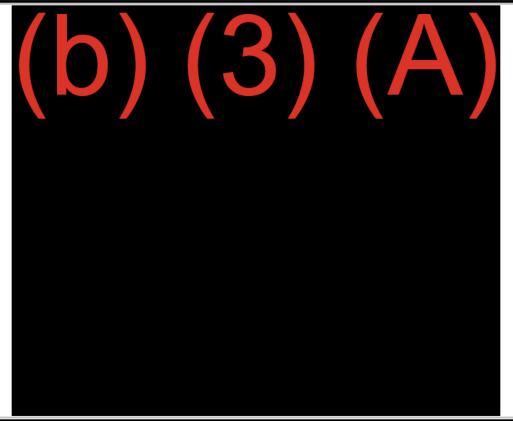
3

Enclosure (1)

Red Hill Bulk Fuel Storage Facility Defuel

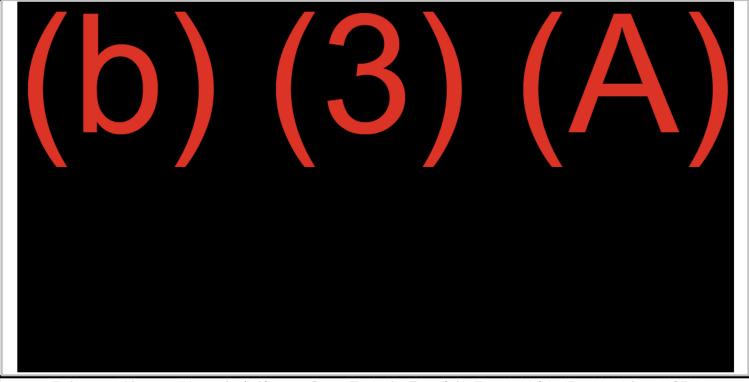


Before and After conditions at Surge Tank 4 product line, pressure safety loop, sample funnel and FOR line air gap.

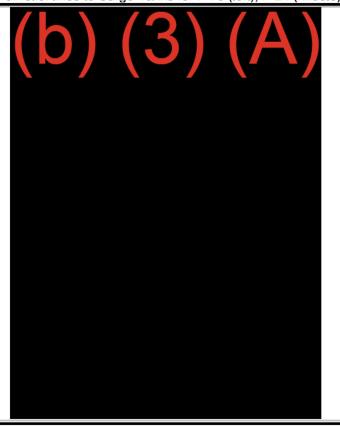


Surge Tank 4 Air Gap terminations for sample and FOR line leading to UGPH.

Red Hill Bulk Fuel Storage Facility Defuel



Before and After conditions of relief lines to Surge Tanks for F-76 (left), F-24 (middle), JP-5 (right) from UGPH.



Surge Tank Relief lines Air Gap terminations leading to UGPH.

(b) (3) (A)