



Asset/Field/Location & Work Order or Permit Number:	Applies to the following Central Facilities: All EF Facilities	Pre-Approved Energy Control Procedure Use Only			
		Pre-Approval Date:	7/1/2022	Operations Signature:	Jeremy Mascorro, Jose Perez III, Mathew Kobbe, David Morrow, Dustin Morrow, Howard Powell,
Equipment ID / Description:	VRU#	Revision Date:	3/1/2024	HES Signature:	Jon Vargas, Jorge Valdez,
Job Description:	VRU - Repair/Maintenance				
Isolating Authorized Employee:					

LOTO utilizing Double Block and Bleed or an Engineered Mechanical Plug for Hot Work or Hazardous Confined space Entry requires a completed Authorization for Higher Risk Isolation Form.

Authorized Employee notify all Affected Employees of LOTO Yes No

Blinds must be rated/certified to withstand the maximum allowable operating pressure of the pipe, line or duct with no leakage beyond the plate when isolating for other than vapor control

Document isolation steps below, VERIFY, and perform LOCKOUT, TAGOUT, & TRYOUT

LOTO STEP #	LOTO Date	Lock/Tag #	LOTO Step	Normal Operating Position	LOTO Position	LOTO Installed By	Tryout Yes/No	LOTO Time(s) (if using multiple times)				LOTO Removal Date	LOTO Removed by, Comments, Additional Times
								Installed	Removed	Installed	Removed		
1			Turn off and LOTO power to VRU	On	Off			1	1	3	3		
								2	2	4	4		
2			Close and LOTO Suction Valve #1	Open	Closed			1	1	3	3		
								2	2	4	4		
3			Close and LOTO Suction Valve #2 (If Present)	Open	Closed			1	1	3	3		
								2	2	4	4		
4			Close and LOTO Discharge valve	Open	Closed			1	1	3	3		
								2	2	4	4		
5			Close and LOTO PSV line to flare Note: <u>WHEN RETRUNING TO SERVICE REFER TO STEP 11</u>	Open	Closed			1	1	3	3		
								2	2	4	4		
6			Drain VRU before proceeding					1	1	3	3		
								2	2	4	4		



LOTO STEP #	LOTO Date	Lock/Tag #	LOTO Step	Normal Operating Position	LOTO Position	LOTO Installed By	Tryout Yes/No	LOTO Time(s) (if using multiple times)				LOTO Removal Date	LOTO Removed by, Comments, Additional Times
								Installed	Removed	Installed	Removed		
7			Close and LOTO Inlet Scrubber Liquids Pump Discharge Valve	Open	Closed			1	1	3	3		
								2	2	4	4		
8			Close and LOTO Inlet Scrubber Liquids Pump Discharge Bypass	Closed	Closed			1	1	3	3		
								2	2	4	4		
9			Close and LOTO Fluid Drain Valve on Discharge Scrubber	Closed	Closed			1	1	3	3		
								2	2	4	4		
10			LOTO bleed down on suction and discharge scrubber (if needed)					1	1	3	3		
								2	2	4	4		
11			<u>PREFORM THIS STEP WHEN RETURNING EQUIPMENT TO SERVICE</u> Car Seal PSV Open Record car seal serial number:					1	1	3	3		
								2	2	4	4		

Printed name and signature required once the LOTO has been visually verified by each Authorized Employee in the work party!

PRINT Authorized Employee Name	Company	SIGN FORM AFTER VERIFICATION	PRINT Authorized Employee Name	Company	SIGN FORM AFTER VERIFICATION
1			11		
2			12		
3			13		
4			14		
5			15		
6			16		
7			17		
8			18		
9			19		
10			20		