	LPG MAINTENANCE PROCEDURE	Procedure No: GF-MP-006
	INSPECTING AND REPLACING PRESSURE SAFETY RELIEF VALVES	Published Date: 01/18/2022
		Superseded Date: 02/01/2022
		Approved By: T. Kennedy

I. OBJECTIVE

To ensure the safety of personnel and equipment by maintaining the safety relief valves as intended. This guideline applies to all Operating, Maintenance, and Contractor personnel.

II. CODE REFERENCES

- A. All liquefied petroleum gas plants in Massachusetts shall be constructed, operated, and maintained according to the requirements of National Fire Protection Association 59 Utility LP-Gas Plant Code (2004) (NAPA 59), and,
- B. Applicable provisions of 220 CMR 101.00: Massachusetts Natural Gas Pipeline Safety Code, and,
- C. Applicable provisions of 49 CFR Parts 40, 192, and 199.

III. FREQUENCY

Every 5 years.

IV. SPECIAL TOOLS OR EQUIPMENT

PRV Socket.

V. PPE


Hard hat, safety glasses, safety shoes, FR clothing and gloves. Hearing protection is required for rooms with running equipment.

VI. LPG DOCUMENTATION

Replacement Log.

VII. INSTRUMENT TAG DETAIL

<u>INSTRUMENT TAG #</u>	<u>DRAWING</u>	<u>ID #</u>	<u>FUNCTIONAL DESCRIPTION</u>	<u>MFG. NAME</u>	<u>MODEL / CATALOG #</u>
PA-VAP-101	9517-PID-102	11	Vaporizer Relief Stack Cap	Anthes Weather Cap	WC 5
PA-VAP-102	9517-PID-102	12	Vaporizer Relief Valve Pipe Away Adapter	Rego	3135-10
PRV-T1-1	9517-PID-101	72	Tank 1 Primary Relief Valve 1		
PRV-T1-2	9517-PID-101	73	Tank 1 Primary Relief Valve 2		
PRV-T1-3	9517-PID-101	74	Tank 1 Primary Relief Valve 3		
PRV-T1-4	9517-PID-101	75	Tank 1 Primary Relief Valve 4		
PRV-T2-1	9517-PID-101	76	Tank 2 Primary Relief Valve 1		
PRV-T2-2	9517-PID-101	77	Tank 2 Primary Relief Valve 2		
PRV-T2-3	9517-PID-101	78	Tank 2 Primary Relief Valve 3		
PRV-T2-4	9517-PID-101	79	Tank 2 Primary Relief Valve 4		


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<u>INSTRUMENT TAG #</u>	<u>DRAWING</u>	<u>ID #</u>	<u>FUNCTIONAL DESCRIPTION</u>	<u>MFG. NAME</u>	<u>MODEL / CATALOG #</u>
PSV-TA-101	9517-PID-101	71	Natural Gas Hydrostatic Relief Valve # 1	Rego	3129U w/ 3129-10
PSV-TA-102	9517-PID-101	70	Natural Gas Hydrostatic Relief Valve # 2	Rego	3129U w/ 3129-10
PSV-TA-103	9517-PID-101	27	Propane Vapor Line Hydrostatic Relief Valve # 1	Rego	3129U w/ 3129-10
PSV-TA-104	9517-PID-101	55	Propane Vapor Line Hydrostatic Relief Valve # 2	Rego	3129U w/ 3129-10
PSV-TA-105	9517-PID-101	54	Propane Liquid Line Hydrostatic Relief Valve # 1	Rego	3129U w/ 3129-10
PSV-TA-106	9517-PID-101	53	Propane Liquid Line Hydrostatic Relief Valve # 2	Rego	3129U w/ 3129-10
PSV-VAP-101	9517-PID-101	22	Propane Vapor to Blender Hydrostatic Relief Valve	Rego	3129U w/ 3129-10
PSV-AIR-101	9517-PID-102	2	Process Air Tank Relief Valve	Kunkle	6283FEV01
PSV-FTS-101	9517-PID-103	4	Hydrostatic Relief Valve (FTS Liquid Line)	Rego	3125L
PSV-FTS-103	9517-PID-103	13	Hydrostatic Relief Valve (FTS Vapor Line)	Rego	3125L
PSV-MIX-101	9517-PID-105	70	QT Inlet Relief Valve	Fisher	H120-60

VIII. PRE-WORK PROCEDURE

- A. Start a job brief and discuss potential concerns.
- B. Walk down valves to be removed, and document on job brief hazards to prepare for.
- C. Notify gas control that relief valve replacement is ready to begin.
- D. Record valve replacement and date below.
- E. Begin at the first valve listed, replacing individual valves in sequence. Ensure slide valve is on relief valve 1 blow down chamber between slide valve and relief valve.
- F. Once pressure is at 0, replace relief valve.
- G. Replace only one valve at a time.
- H. Record valve replacement and date below.

<u>INSTRUMENT TAG #</u>	<u>DRAWING</u>	<u>ID #</u>	<u>LOCATION / FUNCTIONAL DESCRIPTION</u>	<u>REPLACED</u>	<u>DATE</u>
PA-VAP-101	9517-PID-102	11	Vaporizer Relief Stack Cap	Y <input type="checkbox"/> N <input type="checkbox"/>	
PA-VAP-102	9517-PID-102	12	Vaporizer Relief Valve Pipe Away Adapter	Y <input type="checkbox"/> N <input type="checkbox"/>	

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INSTRUMENT TAG #	DRAWING	ID #	LOCATION / FUNCTIONAL DESCRIPTION	REPLACED	DATE
PRV-T1-1	9517-PID-101	72	Tank #1 - 1	Y <input type="checkbox"/> N <input type="checkbox"/>	
PRV-T1-2	9517-PID-101	73	Tank #1 - 2	Y <input type="checkbox"/> N <input type="checkbox"/>	
PRV-T1-3	9517-PID-101	74	Tank #1 - 3	Y <input type="checkbox"/> N <input type="checkbox"/>	
PRV-T1-4	9517-PID-101	75	Tank #1 - 4	Y <input type="checkbox"/> N <input type="checkbox"/>	
PRV-T2-1	9517-PID-101	76	Tank #2 - 1	Y <input type="checkbox"/> N <input type="checkbox"/>	
PRV-T2-2	9517-PID-101	77	Tank #2 - 2	Y <input type="checkbox"/> N <input type="checkbox"/>	
PRV-T2-3	9517-PID-101	78	Tank #2 - 3	Y <input type="checkbox"/> N <input type="checkbox"/>	
PRV-T2-4	9517-PID-101	79	Tank #2 - 4	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-TA-101	9517-PID-101	71	Natural Gas Hydrostatic Relief Valve # 1	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-TA-102	9517-PID-101	70	Natural Gas Hydrostatic Relief Valve # 2	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-TA-103	9517-PID-101	27	Propane Vapor Line Hydrostatic Relief Valve # 1	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-TA-104	9517-PID-101	55	Propane Vapor Line Hydrostatic Relief Valve # 2	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-TA-105	9517-PID-101	54	Propane Liquid Line Hydrostatic Relief Valve # 1	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-TA-106	9517-PID-101	53	Propane Liquid Line Hydrostatic Relief Valve # 2	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-VAP-101	9517-PID-101	22	Propane Vapor to Blender Hydrostatic Relief Valve	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-AIR-101	9517-PID-102	2	Process Air Tank Relief Valve	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-FTS-101	9517-PID-103	4	Hydrostatic Relief Valve (FTS Liquid Line)	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-FTS-103	9517-PID-103	13	Hydrostatic Relief Valve (FTS Vapor Line)	Y <input type="checkbox"/> N <input type="checkbox"/>	
PSV-MIX-101	9517-PID-105	70	QT Inlet Relief Valve	Y <input type="checkbox"/> N <input type="checkbox"/>	

Corrective action notes: _____

Check Performed By: _____ Date: _____

Reviewed By: _____ Date: _____