

PURPOSE

This drawing lists maximum set pressures for pipeline overpressure protection devices for backbone and local transmission pipelines, distribution feeder mains (DFMs), and pipe-type high pressure gas underground holders operating at or above 20% of the SMYS, (see note 4). This drawing is intended to assist Gas Transmission personnel in the operations, planning, and pipeline maintenance, repairs, and upgrades of this equipment and facilities.

DEFINITIONS

Maximum Set Pressure is the maximum set point that an overpressure protection device can be set at to ensure the pressure in a pipeline never exceeds: 1) the maximum allowable operating pressure plus 10 percent, or 2) the pressure that produces a hoop stress of 75% of SMYS, *whichever is lower*. [code requirement 49CFR192.2.1(a)]

Maximum Operating Pressure (MOP) is the maximum pressure at which a gas pipeline system may be operated in accordance with the criteria established in DCS/GTS Standard D-S0430/ S4125. (See note 4.)

Maximum Allowable Operating Pressure (MAOP) is the maximum pressure at which a pipeline, pipeline segment, or component is qualified to operate in accordance with the requirements of 49 CFR Part 192. (See note 4.)

GENERAL NOTES

- Types of overpressure protection devices listed in this drawing are relief valves (conventional and quick opening (QO)) and monitor valves. See CGT Standard 4125.2 for specific guidelines on where to set these devices.
- Listed in this drawing are maximum set pressures in the "Maximum Set Pressure" column. If changes need to be made to the set pressures in this drawing a Facility or Pipeline Engineer must approve the changes. (See CGT Standard S4125.1 for the process)
- Some critical regulators on Lines 300, 400, and 401 have been listed as a reference. The maximum set pressure for the regulators is the MOP of the piping downstream of the station.

REVISIONS							PIPELINE DATA SHEET		Bill of Matl.	
0	10/31/78	Issue for Use (PLO)	DDC	DM	JLR	Approved By	Job.#	Overpressure Protection Device Settings <i>Gas Transmission & Distribution</i> Pacific Gas and Electric Company San Francisco, California	Dwg List	
1	8/4/83	Revised (PLO)			GWR	DDC	Supv		Supds	
2	9/17/89	Revised and updated	JSV	RCB	SYC	DM	Dagn		Supsd By	
3	2/12/01	Revised and updated			RCB	JLR	Dwn		Sheet No. A	
4	5/20/03	Revised and updated			RCB		Chkd		Drawing	Rev.
5	4/20/05	Added definition of PLC		DLO	RCB		OK			
6	3/29/06	Revised and updated	PRH	DLO	TCT					
7	9/1/09	Revised and updated			TGW					
8	6/9/10	Revised and Updated			TGW					
No	Date	Description	Dwn	Chkd	Apvd		Date 10-31-78			
								Scales	183018	8
									Microfilm	

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GENERAL NOTES CONTINUED

4. MOP and MAOP values should be in alignment with drawing 086868, the "Pipeline Data Sheet, MAOP of Lines Operating at of Over 20% SMYS" that can be found at the Gas Engineering intranet website. This document can also be used as a reference for the assets to be protected by these overpressure protection devices.
5. 'PLC' stands for *Programmable Logic Controller*.

CHANGES AND CORRECTIONS

Changes and corrections should be addressed to the Supervising Engineer of the Station Engineering Facility Engineers.

RELATED POLICY

CGT Standard S4125.1, "Setpoints, Overpressure Protection Devices"
 CGT Standard 4125.2, "Establishing Setpoints on Overpressure Protection Devices"
 Drawing 086868, "Pipeline Data Sheet, MAOP of Lines Operating at of Over 20% SMYS"

REVISIONS							PIPELINE DATA SHEET		Bill of Mat.	
0	10/31/78	Issue for Use (PLO)	DDC	DM	JLR	Approved By	Job.#	Overpressure Protection Device Settings <i>Gas Transmission & Distribution</i> Pacific Gas and Electric Company <i>San Francisco, California</i>	Dwg List	
1	8/4/83	Revised (PLO)			GWR	DDC	Supv		Supds	
2	9/17/99	Revised and updated	JSV	RCB	SYC	DM	Dsgn		Supsd By	
3	2/12/01	Revised and updated			RCB	JLR	Dwn		Sheet No. B	
4	5/20/03	Revised and updated			RCB		Chkd		Drawing	Rev.
5	4/20/05	Added definition of PLC		DLO	RCB		OK			
6	3/29/06	Revised and updated	PRH	DLO	TCT					
7	9/1/09	Revised and updated			TGW					
8	6/9/10	Revised and Updated			TGW					
No	Date	Description	Dwn	Chkd	Apvd		Date 10-31-78			
								Scales		
								183018	8	
								Microfilm		

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
BURNEY									
Compressor Station	Burney	NGO	Dischg Press Control/Fall Back Press	PLC	N/A	911/884	911/884	911	Burney
Compressor Station	Burney	NGO	High Discharge Press. Shutdown	PLC	N/A	921	911/884	911	Burney
Compressor Station	Burney	NGO	Station Relief Valve	Relief(QO)	J	940	911/884	911	Burney
Compressor Station	Burney	NGO	Station Relief Valve	Relief(QO)	K	940	911/884	911	Burney
Compressor Station	Burney	NGO	Station Relief Valve	Relief(QO)	U	940	911/884	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-400, 36" MLV	Reg Bypass	48.64	881	881	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-400, 20" BPV	Regulator	3	881	881	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-400, 12" BOV	Relief	A	Deactivated - No Longer required			Burney
Pressure Limiting Station	Indian Springs	NGO	L-401, 42" MLV	Reg Bypass	48.65	881	881	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-401, 24" BPV	Regulator	12	881	881	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-401, 42" MLV	Monitor	48.63	Deactivated - No Longer required			Burney
Pressure Limiting Station	Shingletown	NGO	L-400, 36" MLV	Reg Bypass	115.26	865	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-400, 20" BPV	Regulator	3	865	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-400, 12" BOV	Relief	A	Deactivated - No Longer required			Burney
Pressure Limiting Station	Shingletown	NGO	L-401, 12" MLV	Reg Bypass	115.28	865	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-401, 24" BPV	Regulator	10	865	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-401, 42" MLV	Monitor	115.27	875	865	911	Burney
Compressor Station	Tionesta	NGO	Discharge Pressure Control	PLC	N/A	905	905	911	Burney
Compressor Station	Tionesta	NGO	High Discharge Press. Shutdown	PLC	N/A	930	905	911	Burney
Compressor Station	Tionesta	NGO	Station Relief Valve	Relief(QO)	L	938	905	911	Burney
Compressor Station	Tionesta	NGO	Station Relief Valve	Relief(QO)	M	938	905	911	Burney
Compressor Station	Tionesta	NGO	Station Relief Valve	Relief(QO)	S	938	905	911	Burney
WILLOWS									
Pressure Limiting Station	Buckeye Creek	NGO	L-400 12" BOV	Relief	A	980	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-400 20" BPV	Regulator	3	965	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-400 36" MLV	Reg Bypass	233.87	965	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-401 24" BPV	Regulator	10	865	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-401 42" MLV	Reg Bypass	233.89	965	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-401 42" MLV	Monitor	233.88	975	965	975	Willows
Compressor Station	Delevan	NGO	Discharge Pressure Control	PLC	N/A	1040	1040	1040	Willows
Compressor Station	Delevan	NGO	High Discharge Press. Shutdown	PLC	N/A	1068	1040	1040	Willows
Compressor Station	Delevan	NGO	High Suction Pressure ESD	PLC	N/A	945	1040	1040	Willows

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	O	1078	1040	1040	Willows
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	P	1078	1040	1040	Willows
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	R	1078	1040	1040	Willows
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	S	1078	1040	1040	Willows
Compressor Station	Gerber	NGO	Discharge Pressure Control	PLC	N/A	907	907	911	Willows
Compressor Station	Gerber	NGO	High Discharge Press. Shutdown	PLC	N/A	930	907	911	Willows
Compressor Station	Gerber	NGO	High Discharge Press. ESD	PLC	N/A	940	907	911	Willows
Compressor Station	Gerber	NGO	Station Relief Valve	Relief(QO)	S	Deactivated - No Longer required			Willows
Compressor Station	Gerber	NGO	Station Relief Valve	Relief(QO)	T	Deactivated - No Longer required			Willows
Compressor Station	Gerber	NGO	Station Relief Valve	Relief(QO)	Y	Deactivated - No Longer required			Willows
Compressor Station	Gerber	NGO	L-177 from L-400/L-401	Monitor	21	829	819	819	Willows
Compressor Station	Gerber	NGO	L-177 from L-400/L-401	Monitor	26	829	819	819	Willows
Tap	Redding Calaveras	NGO	L-400	Relief(QO)	H	935	865	911	Willows
Meter & Regulator Station	Johns Manville	NGO	L-209 from L-400	Monitor	3	489	479	720	Willows
Meter & Regulator Station	Johns Manville	NGO	L-209 from L-400	Monitor	6	489	479	720	Willows
MERIDIAN									
Station	Arbuckle	NGO	Intermediate from L-172	Relief	30	810	800	800	Meridian
Station	Arbuckle	NGO	Arbuckle DFM from Intermediate	Relief	F	210	200	200	Meridian
Station	Arbuckle	NGO	Arbuckle DFM from Intermediate	Relief	H	210	200	200	Meridian
Regulator & Odor Station	Fell	NGO	L-169 to L-138	Monitor	21	560	550	550	Meridian
Regulator & Odor Station	Fell	NGO	L-169 to L-138	Monitor	22	560	550	550	Meridian
Junction	Hershey	NGO	L-172 from L-302	Monitor	2	810	800	800	Meridian
Junction	Hershey	NGO	L-172 from L-302	Monitor	3	810	800	800	Meridian
Storage Interconnect	Wild Goose Delevan	NGO	Storage metering run	Monitor	1	1080	1040	1200	Meridian
Storage Interconnect	Wild Goose Gridley	NGO	Storage metering run	Monitor	6	830	800	800	Meridian
RIO VISTA									
Compressor Station	Brannan Island	NGO	Station Relief Valve	Relief (QO)	M	Out of Service	510	510	Rio Vista
Station	Creed	NGO	L-210 E from L400/L401	Monitor	11	810	800	800	Rio Vista
Station	Creed	NGO	L-210 W from L400/L401	Monitor	14	660	650	650	Rio Vista
Station	Creed	NGO	L-210 W from L400/L401	Monitor	16	660	650	650	Rio Vista
Station	Las Vinas	NGO	Jahant DFM from L-108S	Monitor	1	205	200	320	Rio Vista
Station	Las Vinas	NGO	L-108S from L-108N	Relief	R	Out of Service	412	412	Rio Vista
Station	Las Vinas	NGO	L-108S from L-188A/B	Monitor	75	422	412	412	Rio Vista

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DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Station	Las Vinas	NGO	L-108S from L-196A/B	Monitor	76	422	412	412	Rio Vista
Station	Las Vinas	NGO	L-197A/B from L-108S	Monitor	95	310	300	300	Rio Vista
Station	Las Vinas	NGO	L-197A/B from L-108S	Monitor	98	310	300	300	Rio Vista
Station	Serpa Junction	NGO		Monitor	64	Deactivated - No Longer required			Rio Vista
Station	Serpa Junction	NGO		Monitor	69	Deactivated - No Longer required			Rio Vista
Dehyd & Odor Station	Sherman Isl. No. 1	NGO	L-195 from 12" SP-4	Relief	E	Out of Service	99	99	Rio Vista
Meter & Regulator Station	SMUD	NGO	L-400/401 to SMUD	Monitor	9	710	700	700	Rio Vista
Meter & Regulator Station	SMUD	NGO	L-400/401 to SMUD	Monitor	11	710	700	700	Rio Vista
Meter & Regulator Station	SMUD	NGO	L-400/401 to SMUD	Monitor	13	710	700	700	Rio Vista
Storage Interconnect	Lodi Kirby Hills	NGO	Storage metering run	Monitor	1	975	970	975	Rio Vista
LOS MEDANOS									
Terminal	Antioch	CNTL	L-303 from L-400	Monitor	149	730	720	720	Los Medanos
Terminal	Antioch	CNTL	L-303 from L-400	Monitor	151	730	720	720	Los Medanos
Terminal	Antioch	CNTL	CCPP from L-400	Monitor	92	200	195	195	Los Medanos
Terminal	Antioch	CNTL	L-191 from L-400	Monitor	93	610	600	600	Los Medanos
Terminal	Antioch	CNTL	L-191 from L-400	Monitor	95	610	600	600	Los Medanos
Terminal	Antioch	CNTL	L-114S from L-400	Monitor	172	507	497	497	Los Medanos
Terminal	Antioch	CNTL	(Alternate) L-114S from L-400	Monitor	97	507	497	497	Los Medanos
Terminal	Antioch	CNTL	(Alternate) L-114S from L-191	Monitor	172	507	497	497	Los Medanos
Terminal	Antioch	CNTL	Antioch Header from L-400	Monitor	98	448	438	438	Los Medanos
Terminal	Antioch	CNTL	Antioch Header from L-400	Monitor	97	448	438	438	Los Medanos
Terminal	Antioch	CNTL	SP5 from Antioch Header	Monitor	175	348	338	390	Los Medanos
Terminal	Antioch	CNTL	CCPP from Antioch Header	Monitor	155	200	195	195	Los Medanos
Terminal	Antioch	CNTL	CCPP from Antioch Header	Monitor	156	200	195	195	Los Medanos
Terminal	Antioch	CNTL	SP5 from Antioch Header	Monitor	158	348	338	390	Los Medanos
Terminal	Antioch	CNTL	SP4 from Antioch Header	Monitor	85	348	338	390	Los Medanos
Compressor Station	Los Medanos	CNTL	Discharge Pressure Controller	Controller	N/A	1800	1800	1800	Los Medanos
Compressor Station	Los Medanos	CNTL	Station Relief Valve	Relief (QO)	F	1975	1800	1800	Los Medanos
Compressor Station	Los Medanos	CNTL	L-65 from Field	Monitor	506	610	600	720	Los Medanos
Compressor Station	Los Medanos	CNTL	L-65 from Field	Monitor	507	610	600	720	Los Medanos
Pressure Limiting Station	Los Medanos	CNTL	SP3	Monitor	705	415	405	468	Los Medanos
Pressure Limiting Station	Los Medanos	CNTL	SP3	Monitor	706	415	405	468	Los Medanos
Compressor Station	Pleasant Creek	CNTL	Station Relief Valve	Relief (QO)	H	1425	1300	1440	Los Medanos
Compressor Station	Pleasant Creek	CNTL	L-66 to L-206	Monitor	14	985	975	1440	Los Medanos

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DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Meter Station	SP3-Line 191	CNTL	SP-3 to L-191	Monitor	11	348	338	338	Los Medanos
Meter Station	SP3-Line 191	CNTL	SP-3 to L-191	Monitor	12	348	338	338	Los Medanos
Meter Station	SP3-Line 191	CNTL	SP-3 to L-191	Monitor	20	348	338	338	Los Medanos
MCDONALD ISLAND									
Compressor Station	McDonald Island	CNTL	K-1 Compressor Suction Relief	Relief (QO)	M	1122	1025	1025	McDonald
Compressor Station	McDonald Island	CNTL	K-1 Compressor Discharge Relief	Relief (QO)	L	2371	2160	2160	McDonald
Compressor Station	McDonald Island	CNTL	K-2 Compressor Suction Relief	Relief (QO)	N	1122	1025	1025	McDonald
Compressor Station	McDonald Island	CNTL	K-2 Compressor Discharge Relief	Relief (QO)	P	2371	2160	2160	McDonald
Compressor Station	McDonald Island	CNTL	Station Relief Valve	Relief (QO)	Q	1122	1025	1025	McDonald
Compressor Station	McDonald Island	CNTL	Station Relief Valve	Relief (QO)	R	2371	2160	2160	McDonald
Compressor Station	McDonald Island	CNTL	Station Relief Valve	Relief (QO)	AA	Removed	1025	1025	McDonald
TRACY									
Station	Bayview Road	CNTL	L-331 from L-401	Monitor	12	980	890	890	Tracy
Station	Bayview Road	CNTL	L-331 from L-401	Monitor	16	980	890	890	Tracy
Compressor Station	Bethany	CNTL	Discharge Pressure Control	PLC	N/A	1040	1040	1040	Tracy
Compressor Station	Bethany	CNTL	High Discharge Pressure Shutdown	PLC	N/A	1080	1040	1040	Tracy
Compressor Station	Bethany	CNTL	Station Relief	Relief(QO)	J	1080	1040	1040	Tracy
Pressure Limiting Station	Bixler Road	CNTL	L-401 from L-57B	Monitor	3	985	975	975	Tracy
Pressure Limiting Station	Bixler Road	CNTL	L-401 from L-57B (Reg Leakage)	Relief	B	Removed			Tracy
Dehydrator Station	Brentwood	CNTL	L-318 from Dutch Slough Fld	Monitor	1	448	438	720	Tracy
Terminal	Brentwood	CNTL	L-303N from L-57A	Monitor	72	730	720	720	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57A (Not Used)	Monitor	83 (closed)	730	720	793	Tracy
Terminal	Brentwood	CNTL	L-303N from L-57B	Monitor	113	730	720	720	Tracy
Terminal	Brentwood	CNTL	L-303N from L-57B (Reg Leakage)	Relief (QO)	AC	1051	980	1440	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57B (Reg Leakage)	Relief (QO)	AH	1051	960	960	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57B	Monitor	117	730	720	793	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57B (Reg Leakage)	Relief (QO)	AD	1051	980	1440	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57B (Reg Leakage)	Relief (QO)	AF	1051	960	960	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57B	Monitor	126	730	720	793	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57B (Reg Leakage)	Relief (QO)	AA	1051	980	1440	Tracy
Terminal	Brentwood	CNTL	L-303S from L-57B (Reg Leakage)	Relief (QO)	AB	1051	960	960	Tracy
Terminal	Brentwood	CNTL	L-114S from L-57B	Monitor	128	605	595	595	Tracy
Terminal	Brentwood	CNTL	L-2 from L-57B	Monitor	108	900	890	890	Tracy
Terminal	Brentwood	CNTL	L-114S from L-303N	Monitor	85	510	500	595	Tracy

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DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION	
Terminal	Brentwood	CNTL	L-2 from L-57B (Reg Leakage)	Relief (QO)	AE	1051	980	1440	Tracy	
Station	Crows Landing	CNTL	Dist. Regulator Station				58	58	Tracy	
Station	Crows Landing	CNTL	Dist. Regulator Station				58	58	Tracy	
Station	Dos Palos	CNTL	L-186 from L-2	Monitor	7	510	500	625	Tracy	
Station	Dos Palos	CNTL	L-186 from L-2	Monitor	9	510	500	625	Tracy	
Station	Gustine	CNTL	Gustine from L-2	Monitor	11	155	150	150	Tracy	
Station	Gustine	CNTL	Gustine from L-2	Monitor	14	155	150	150	Tracy	
Station	Los Banos	CNTL	Los Banos from L-2	Monitor	8	160	155	215	Tracy	
Station	Los Banos	CNTL	Los Banos from L-2	Monitor	11	160	155	215	Tracy	
Station	MacArthur Road	CNTL	Tracy from L-2	Monitor	11	375	365	365	Tracy	
Station	MacArthur Road	CNTL	Tracy from L-2	Monitor	14	375	365	365	Tracy	
Station	New Westley Town	CNTL	New Westley from L-2	Monitor	15	140	135	135	Tracy	
Station	New Westley Town	CNTL	New Westley from L-2	Monitor	18	140	135	135	Tracy	
Station	Newman	CNTL	Newman from L-2	Monitor	11	155	150	150	Tracy	
Station	Newman	CNTL	Newman from L-2	Monitor	14	155	150	150	Tracy	
Pressure Limiting Station	Old River	CNTL	L-57A from L-57B	Monitor	4	877	887	887	Tracy	
Pressure Limiting Station	Old River	CNTL	L-57A from L-57B (Reg Leakage)	Relief	B	Removed			Tracy	
Station	Owens-Illinois Glass	CNTL	Owens from L-2	Monitor	7	115	110	125	Tracy	
Station	Owens-Illinois Glass	CNTL	Owens from L-2	Monitor	10	115	110	125	Tracy	
Station	Patterson	CNTL	Patterson from L-2	Monitor	11	260	250	395	Tracy	
Station	Patterson	CNTL	Patterson from L-2	Monitor	14	260	250	395	Tracy	
Station	Tracy	CNTL	L-107 from L-304	Monitor	86	487	477	500	Tracy	
Station	Tracy	CNTL	L-176 from L-162	Relief	AB	375	*365	555	Tracy	
Station	Tracy	CNTL	L-176 from L-162	Relief	AA	375	*365	555	Tracy	
Station	Tracy	CNTL	L-162 from L-2	Monitor	81	375	365	720	Tracy	
Station	Tracy	CNTL	L-107 from L-2	Monitor	95	375	365	720	Tracy	
				*At the request of Stockton Division, NOP is 100 psig						
Meter Station	Vernalis	CNTL	L-108 from L-2	Monitor	5	710	700	1040	Tracy	
Meter Station	Vernalis	CNTL	L-108 from L-2	Monitor	9	710	700	1040	Tracy	
MILPITAS										
Pressure Limiting Station	7A	CNTL	24" BPV	Regulator	3	555	555	558	Milpitas	
Pressure Limiting Station	7A	CNTL	34" MLV	Reg Bypass	490.65A	543	555	558	Milpitas	
Pressure Limiting Station	7A	CNTL	34" MLV	Monitor	490.64A	565	555	558	Milpitas	
Pressure Limiting Station	7B	CNTL	24" BPV	Regulator	8	597	597	600	Milpitas	
Pressure Limiting Station	7B	CNTL	34" MLV	Reg Bypass	490.92B	585	597	600	Milpitas	

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DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Pressure Limiting Station	7B	CNTL	34" MLV	Monitor	490.91B	Deactivated - No Longer required			Milpitas
Station	Irvington	CNTL	L- 105N from Mixer	Monitor	5	260	250	250	Milpitas
Station	Irvington	CNTL	Mixer from L- 131S	Monitor	34	430	420	420	Milpitas
Station	Irvington	CNTL	Mixer from L- 131	Monitor	50	430	420	420	Milpitas
Station	Irvington	CNTL	Mixer from L- 107	Monitor	66	430	420	420	Milpitas
Station	Irvington	CNTL	Mixer from L- 303	Monitor	71	430	420	420	Milpitas
Meter Station	Lomita Park	CNTL	L-101	Monitor	33.68	150	145	145	Milpitas
Meter Station	Lomita Park	CNTL	L-101	Monitor	24	150	145	145	Milpitas
Regulator Station	Martin Station	CNTL	L- 132	Monitor	46.59	150	145	145	Milpitas
Regulator Station	Martin Station	CNTL	L- 132	Monitor	12	150	145	145	Milpitas
Terminal	Milpitas	CNTL	L-300A from Mixer	Monitor	3	588	558	558	Milpitas
Terminal	Milpitas	CNTL	L-300A from Mixer	Monitor	4	588	558	558	Milpitas
Terminal	Milpitas	CNTL	L-300B from Mixer	Monitor	5	610	600	600	Milpitas
Terminal	Milpitas	CNTL	L-300B from Mixer	Monitor	6	610	600	600	Milpitas
Terminal	Milpitas	CNTL	Mixer	Monitor	18	385	375	400	Milpitas
Terminal	Milpitas	CNTL	Mixer	Monitor	20	385	375	400	Milpitas
Terminal	Milpitas	CNTL	Mixer	Monitor	26	385	375	400	Milpitas
Terminal	Milpitas	CNTL	Mixer	Monitor	28	385	375	400	Milpitas
Terminal	Milpitas	CNTL	SJ DFM	Monitor	33	205	200	200	Milpitas
Terminal	Milpitas	CNTL	SJ DFM	Monitor	36	205	200	200	Milpitas
Terminal	Milpitas	CNTL	L-109	Monitor	37	385	375	400	Milpitas
Terminal	Milpitas	CNTL	L-109	Monitor	39	385	375	400	Milpitas
Terminal	Milpitas	CNTL	Station bypass	Monitor	63	385	375	400	Milpitas
Terminal	Milpitas	CNTL	L-107	Monitor	66	487	477	720	Milpitas
Terminal	Milpitas	CNTL	L-107	Monitor	67	487	477	720	Milpitas
Terminal	Milpitas	CNTL	L-131	Monitor	70	600	590	595	Milpitas
Terminal	Milpitas	CNTL	L-131	Monitor	71	600	590	595	Milpitas
Pressure Limiting Station	Sheridan Road	CNTL	L-303 24" MLV	Monitor	3	600	590	590	Milpitas
Pressure Limiting Station	Sheridan Road	CNTL	L-303 24" MLV	Monitor	4	600	590	590	Milpitas
Regulator Station	Sullivan Avenue	CNTL	L-109	Monitor	2	150	145	150	Milpitas
Regulator Station	Sullivan Avenue	CNTL	L-109	Monitor	13	150	145	150	Milpitas
HOLLISTER									
Pressure Limiting Station	6A	CNTL	L-300A, 12" DS Blow Off Valve	Relief	A	630	620	631	Hollister
Pressure Limiting Station	6A	CNTL	L-300A, 24" BPV	Regulator	3	620	620	631	Hollister

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Pressure Limiting Station	6A	CNTL	L-300A, 34" MLV	Reg Bypass	463.74A	608	620	631	Hollister
Pressure Limiting Station	6B	CNTL	L-300B, 12" DS Blow Off Valve	Relief	E	630	620	631	Hollister
Pressure Limiting Station	6B	CNTL	L-300B, 24" BPV	Regulator	8	620	620	631	Hollister
Pressure Limiting Station	6B	CNTL	L-300B, 34" MLV	Reg Bypass	463.85B	608	620	631	Hollister
Pressure Limiting Station	6BX	CNTL	Station Relief	Relief (QO)	A	Deactivated - No Longer required			Hollister
Meter Station	Bolsa	CNTL	L-301 A&G to L-103	Monitor	7	380	350	350	Hollister
Meter Station	Bolsa	CNTL	L-301 A&G to L-103	Monitor	8	380	350	350	Hollister
Meter Station	Dolan Road	CNTL	L-301B from L-301G	Monitor	19	418	408	408	Hollister
Meter Station	Dolan Road	CNTL	L-301B from L-301G	Monitor	20	418	408	408	Hollister
Meter Station	Hollister	CNTL	L-301A from L-300A	Monitor	35	406	396	396	Hollister
Meter Station	Hollister	CNTL	L-301G from L-300A	Monitor	28	510	500	500	Hollister
Meter Station	Hollister	CNTL	L-301G from L-300A	Monitor	27	510	500	500	Hollister
Meter Station	Hollister	CNTL	L-301A from L-300A	Monitor	28	406	396	396	Hollister
Meter Station	Hollister	CNTL	L-301A from L-300B	Monitor	35	406	396	396	Hollister
Meter Station	Hollister	CNTL	L-301G from L-300B	Monitor	26	510	500	500	Hollister
Meter Station	Hollister	CNTL	L-301G from L-300B	Monitor	27	510	500	500	Hollister
Meter Station	Hollister	CNTL	L-301A from L-300B	Monitor	28	406	396	396	Hollister
KETTLEMAN									
Compressor Station	Kettleman	SGO	Discharge Pressure Control	PLC	N/A	839	839	840	Kettleman
Compressor Station	Kettleman	SGO	High Discharge Press. Shutdown	PLC	N/A	849	839	840	Kettleman
Compressor Station	Kettleman	SGO	Unit Relief Valves	Relief	W,X,Y	900	839	840	Kettleman
Pressure Limiting Station	4A	SGO	L- 300A, 12" DSBOV	Relief	C	764	754	757	Kettleman
Pressure Limiting Station	4A	SGO	L- 300A, 24" BPV	Regulator	6	754	754	757	Kettleman
Pressure Limiting Station	4A	SGO	L- 300A, 34" MLV	Reg Bypass	258.21A	742	754	757	Kettleman
Pressure Limiting Station	4B	SGO	L- 300B, 12" DSBOV	Relief	A	764	754	757	Kettleman
Pressure Limiting Station	4B	SGO	L- 300B, 24" BPV	Regulator	3	754	754	757	Kettleman
Pressure Limiting Station	4B	SGO	L- 300B, 34" MLV	Reg Bypass	258.64B	742	754	757	Kettleman
Pressure Limiting Station	5A	SGO	L- 300A, 34" MLV	Reg Bypass	299.01A	658	668	669	Kettleman
Pressure Limiting Station	5A	SGO	L- 300A, 24" BPV	Regulator	3	668	668	669	Kettleman
Pressure Limiting Station	5A	SGO	L- 300A, 34" MLV	Monitor	299.00A	678	668	669	Kettleman
Pressure Limiting Station	5B	SGO	L- 300B, 34" MLV	Reg Bypass	299.00B	658	668	669	Kettleman
Pressure Limiting Station	5B	SGO	L- 300B, 24" BPV	Regulator	6	668	668	669	Kettleman
Pressure Limiting Station	5B	SGO	L- 300B, 34" MLV	Monitor	298.99B	678	668	669	Kettleman
Tap	Bakersfield	SGO	L-142 from L-300A&B	Relief	E	485	475	475	Kettleman
Tap	Bakersfield	SGO	L-142 from L-300A&B	Relief	F	485	475	475	Kettleman

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Pressure Limiting Station	Estrella River	SGO	L-306	Monitor	4	646	636	650	Kettleman
Pressure Limiting Station	Estrella River	SGO	L-306 to L-306	Monitor	8	646	636	650	Kettleman
Pressure Limiting Station	Kettleman (A side)	SGO	L-300A, Flow North to South	Regulator	353.90A	664	664	669	Kettleman
Pressure Limiting Station	Kettleman (A side)	SGO	L-300A, Flow North to South	Monitor	353.85A	674	664	669	Kettleman
Pressure Limiting Station	Kettleman (B side)	SGO	L-300B, Flow North to South	Regulator	354.02B	664	664	669	Kettleman
Pressure Limiting Station	Kettleman (B side)	SGO	L-300B, Flow North to South	Monitor	354.01B	674	664	669	Kettleman
L-300 NORTH PIPELINE									
Station (Coalinga Prison Tap)	El Dorado Ave	SGO	L-190 to Coalinga Prison DFM	Monitor	3	730	720	720	L300-N
Station	Helm Tap	SGO	L-138B from L-300A	Monitor	17	710	700	700	L300-N
Station	Helm Tap	SGO	L-138A from L-300A	Monitor	18	810	800	862	L300-N
Station	Panoche	SGO	L-300B from Uncol gas field	Monitor	27	849	839	840	L300-N
Station	Panoche	SGO	L-300A / L-300B from L-300/L-2	Monitor	18	849	839	840	L300-N
Station	Panoche	SGO	L-300A / L-300B from L-300/L-2	Monitor	14	849	839	840	L300-N
Station	Panoche	SGO	L-300A / L-300B from Malin mtr sta	Monitor	31	849	839	840	L300-N
Meter Station	Spreckels Sugar	SGO	L-307 from L-2	Monitor	9	510	500	500	L300-N
Meter Station	Spreckels Sugar	SGO	L-307 from L-2	Monitor	13	510	500	500	L300-N
HINKLEY									
Compressor Station	Hinkley	SGO	Discharge Pressure Control	PLC	N/A	860	860	861	Hinkley
Compressor Station	Hinkley	SGO	High Press. Discharge Shutdown	PLC	N/A	870	860	861	Hinkley
Compressor Station	Hinkley	SGO	Unit Relief Valves	Relief	N/A	900	860	861	Hinkley
L-300 SOUTH PIPELINE									
Pressure Limiting Station	1A	SGO	L-300A, 12" DSBOV	Relief	A	789	779	815	L-300-S
Pressure Limiting Station	1A	SGO	L-300A, 24" BPV	Regulator	3	779	779	815	L-300-S
Pressure Limiting Station	1A	SGO	L-300A, 34" MLV	Reg Bypass	40.87A	767	779	815	L-300-S
Pressure Limiting Station	1B	SGO	L-300B, 12" DSBOV	Relief	C	789	779	821	L-300-S
Pressure Limiting Station	1B	SGO	L-300B, 24" BPV	Regulator	6	779	779	821	L-300-S
Pressure Limiting Station	1B	SGO	L-300B, 34" MLV	Reg Bypass	40.49B	767	779	821	L-300-S
Pressure Limiting Station	2A	SGO	L-300A, 12" DSBOV	Relief	A	682	682	688	L-300-S
Pressure Limiting Station	2A	SGO	L-300A, 24" BPV	Regulator	3	682	682	688	L-300-S
Pressure Limiting Station	2A	SGO	L-300A, 34" MLV	Reg Bypass	103.72A	670	682	688	L-300-S
Pressure Limiting Station	2AX	SGO	L-300A, 34" MLV	Reg Bypass	149.65A	573	573	573	L-300-S
Pressure Limiting Station	2AX	SGO	L-300A, 34" MLV	Monitor	149.64A	583	573	573	L-300-S
Pressure Limiting Station	2AX	SGO	L-300A, 18" BPV	Regulator	3	573	573	573	L-300-S
Pressure Limiting Station	2B	SGO	L-300B, 12" DSBOV	Relief	C	682	682	688	L-300-S
Pressure Limiting Station	2B	SGO	L-300B, 24" BPV	Regulator	6	682	682	688	L-300-S

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Pressure Limiting Station	2B	SGO	L- 300B, 34" MLV	Reg Bypass	103.51B	670	682	688	L-300 -S
Pressure Limiting Station	2BX	SGO	L- 300B, 34" MLV	Reg Bypass	148.91B	573	573	573	L-300 -S
Pressure Limiting Station	2BX	SGO	L- 300B, 34" MLV	Monitor	148.90B	583	573	573	L-300 -S
Pressure Limiting Station	2BX	SGO	L- 300B, 18" BPV	Regulator	3	573	573	573	L-300 -S
Pressure Limiting Station	3A	SGO	L- 300A, 34" MLV	Reg Bypass	203.02A	788	803	803	L-300 -S
Pressure Limiting Station	3A	SGO	L- 300A, 24" BPV	Regulator	3	803	803	803	L-300 -S
Pressure Limiting Station	3A	SGO	L- 300A, 34" MLV	Monitor	203.01A	813	803	803	L-300 -S
Pressure Limiting Station	3B	SGO	L- 300B, 24" MLV	Reg Bypass	203.07B	788	803	803	L-300 -S
Pressure Limiting Station	3B	SGO	L- 300B, 20" BPV	Regulator	21	803	803	803	L-300 -S
Pressure Limiting Station	3B	SGO	L- 300B, 34" MLV	Monitor	203.06B	813	803	803	L-300 -S
Interconnect Station	KRGT/PGE Daggett	SGO	L-300B from Kern River Pipeline	Monitor	1	692	682	688	L-300 -S
Interconnect Station	KRGT/PGE Daggett	SGO	L-300B from Kern River Pipeline	Monitor	2	Deactivated - No Longer required			L-300 -S
Intertie Station	Pisgah	SGO	SCG from L-300 A & B	Monitor	4	Station Out of Service, No Maintenance			L-300 -S
Intertie Station	Pisgah	SGO	SCG from L-300 A & B	Relief	A	Station Out of Service, No Maintenance			L-300 -S
Meter Station	Trona Tap	SGO	L-311 from L-300A	Monitor	14	710	700	700	L-300 -S
Meter Station	Trona Tap	SGO	L-311 from L-300A	Monitor	16	710	700	700	L-300 -S
Meter Station	Airbase Road	SGO	L-314 to Victorville "B"	Monitor	9	245	240	250	L300-S
Meter Station	Airbase Road	SGO	L-314 to Victorville "B"	Monitor	11	245	240	250	L300-S
Regulator Station	Amboy	SGO	L-300A to Amboy Sec.	Monitor	11	225	220	220	L300-S
Regulator Station	Amboy	SGO	L-300A to Amboy Sec.	Monitor	12	225	220	220	L300-S
Meter Station	Barstow A Tap	SGO	L-300A to Barstow "A"	Monitor	15	120	115	120	L300-S
Meter Station	Barstow A Tap	SGO	L-300A to Barstow "A"	Monitor	17	120	115	120	L300-S
Meter Station	Barstow B Tap	SGO	L-300A to Barstow "B"	Monitor	15	120	115	120	L300-S
Meter Station	Barstow B Tap	SGO	L-300A to Barstow "B"	Monitor	18	120	115	120	L300-S
Meter Station	Barstow C Tap	SGO	L-300A to Barstow "C"	Monitor	11	45	40	40	L300-S
Meter Station	Barstow C Tap	SGO	L-300A to Barstow "C"	Monitor	12	45	40	40	L300-S
Meter Station	Barstow D Tap	SGO	L-300A to Barstow "D"	Monitor	8	120	115	120	L300-S
Meter Station	Barstow D Tap	SGO	L-300A to Barstow "D"	Monitor	9	120	115	120	L300-S
Meter Station	Daggett	SGO	L-300B to Daggett Town	Monitor	21	120	115	120	L300-S
Meter Station	Daggett	SGO	L-300B to Daggett Town	Monitor	22	120	115	120	L300-S
Regulator Station	Daggett Airport	SGO	L-300B to Daggett Airport	Monitor	11	35	30	43	L300-S
Regulator Station	Daggett Airport	SGO	L-300B to Daggett Airport	Monitor	12	35	30	43	L300-S
Meter Station	Harper Lake	SGO	L-300B to SWG	Monitor	8	580	550	720	L300-S
Meter Station	Harper Lake	SGO	L-300B to SWG	Monitor	12	560	550	720	L300-S
Station	Lucerne Valley	SGO	L-300A to L-313	Monitor	12	583	573	573	L300-S

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Station	Lucerne Valley	SGO	L-300A to L-313	Monitor	14	583	573	573	L300-S
Meter & Regulator Station	Mitsubishi /Big Bear	SGO	L-313 to SWG Big Bear "B"	Monitor	18	343	333	333	L300-S
Meter & Regulator Station	Mitsubishi /Big Bear	SGO	L-313 to SWG Big Bear "B"	Monitor	22	343	333	333	L300-S
Regulator Station	Old Woman Springs	SGO	L-313 to SWG Big Bear "A"	Monitor	8	335	325	395	L300-S
Regulator Station	Old Woman Springs	SGO	L-313 to SWG Big Bear "A"	Monitor	10	335	325	395	L300-S
Regulator Station	Oro Grande	SGO	L-314 to Oro Grande	Monitor	14	125	120	125	L300-S
Regulator Station	Oro Grande	SGO	L-314 to Oro Grande	Monitor	16	125	120	125	L300-S
Meter Station	Rabbit Springs	SGO	L-313 to SWG Vistorville "E"	Monitor	10	45	40	43	L300-S
Meter Station	Rabbit Springs	SGO	L-313 to SWG Vistorville "E"	Monitor	12	45	40	43	L300-S
Pressure Limiting Station	Riverside	SGO	L-314 to L-314	Monitor	8	560	550	550	L300-S
Pressure Limiting Station	Riverside	SGO	L-314 to L-314	Monitor	10	560	550	550	L300-S
Meter Station	Victorville C	SGO	L-314 to SWG Vistorville "C"	Monitor	5	260	250	250	L300-S
Meter Station	Victorville C	SGO	L-314 to SWG Vistorville "C"	Monitor	9	260	250	250	L300-S
Meter Station	Victorville G	SGO	L-314 to SWG Vistorville "G"	Relief	A	185	180	180	L300-S
Meter Station	Victorville G	SGO	L-314 to SWG Vistorville "G"	Relief	B	185	180	180	L300-S
Meter Station	Victorville G	SGO	L-314 to SWG Vistorville "G"	Relief	C	45	40	43	L300-S
Meter Station	Victorville G	SGO	L-314 to SWG Vistorville "G"	Relief	D	45	40	43	L300-S
TOPOCK									
Compressor Station	Topock	SGO	Discharge Pressure Control	PLC	N/A	865	865	867	Topock
Compressor Station	Topock	SGO	High Press. Discharge Shutdown	PLC	N/A	875	865	867	Topock
Compressor Station	Topock	SGO	Unit Relief Valves	Relief	N/A	900	865	867	Topock
Meter & Regulator Station	Needles Tap	SGO	Topock CS to SWG Needles	Monitor	13	205	200	250	Topock
Meter & Regulator Station	Needles Tap	SGO	Topock CS to SWG Needles	Monitor	14	205	200	250	Topock
LOCAL TRANSMISSION - NORTH									
Meter Station	Concord	NGO	Concord from SP3	Monitor	8	175	170	170	Diablo/Con.
Meter Station	Concord	NGO	Concord from SP3	Monitor	9	175	170	170	Diablo/Con.
Meter & Regulator Station	Foster-Wheeler	NGO	FW Cogen from L-2	Monitor	5	348	338	338	Diablo/Con.
Meter & Regulator Station	Foster-Wheeler	NGO	FW Cogen from L-2	Monitor	6	348	338	338	Diablo/Con.
Regulator Station	Reliez Station Road	NGO	16" L-191 to 12" L-191	Monitor	28	175	170	170	Diablo/Con.
Regulator Station	Reliez Station Road	NGO	16" L-191 to 12" L-192	Monitor	29	175	170	170	Diablo/Con.
Regulator Station	Reliez Station Road	NGO	16" L-191 to Moraga DFM	Monitor	32	175	170	170	Diablo/Con.
Regulator Station	Reliez Station Road	NGO	16" L-191 to Moraga DFM	Monitor	33	175	170	170	Diablo/Con.
Regulator Station	Reliez Station Road	NGO	16" L-191 to Moraga DFM	Monitor	33	175	170	170	Diablo/Con.
Meter Station	Vine Hill	NGO	Concord/PH from SP3	Monitor	10	175	170	170	Diablo/Con.
Meter Station	Vine Hill	NGO	Concord/PH from SP3	Monitor	11	175	170	170	Diablo/Con.
Station	Crockett	NGO	C&H Sugar Tap From L-105B/21H	Monitor	3	260	250	250	East Bay-N

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Station	Crockett	NGO	C&H Sugar Tap From L-105B/21H	Monitor	4	260	250	250	East Bay-N
Station	Crockett	NGO	Crockett town tap from L-105B/21H	Monitor	11	260	250	250	East Bay-N
Station	Crockett	NGO	Crockett town tap from L-105B/21H	Monitor	12	260	250	250	East Bay-N
Station	Franklin Canyon	NGO	SP3	Monitor	8	260	250	250	East Bay-N
Station	Franklin Canyon	NGO	SP3	Monitor	9	260	250	250	East Bay-N
Station	Franklin Canyon	NGO	SP3	Monitor	10	260	250	250	East Bay-N
Regulator Station	Port Costa	NGO	Port Costa Mtr Sta from SP3	Monitor	5	325	315	338	East Bay-N
Regulator Station	Port Costa	NGO	Port Costa Mtr Sta from SP3	Monitor	6	325	315	338	East Bay-N
Station	San Pablo	NGO	L-105A from L-105B	Monitor	14	155	150	198	East Bay-N
Station	San Pablo	NGO	SP From L-105B	Monitor	1	155	150	150	East Bay-N
Pressure Limiting Station	Oakland	NGO	L-153 to L-105 N	Monitor	22	155	150	198	East Bay-S
Station	Fairway Ave. Crossover	NGO	L-105N from L-153	Monitor	2	155	150	198	Mission
Station	Marina Blvd	NGO	L-153 Oakland from L-153 Irvington	Monitor	V18.00	251	248	248	Mission
Meter & Regulator Station	Santa Rita Road	NGO	L-131 to Pleasanton DFM	Monitor	3	185	160	160	Mission
Meter & Regulator Station	Santa Rita Road	NGO	L-131 to Pleasanton DFM	Monitor	4	185	160	160	Mission
Station	Herrmann	NGO	L-210 to 24" L-21	Monitor	32.11	415	405	675	North Bay
Station	Herrmann	NGO	L-210 to 16" L-21	Monitor	2	260	250	375	North Bay
Meter Station	Napa **	NGO	L-210 to L-21	Monitor	25.98	480	450	450	North Bay
Meter Station	Napa **	NGO	L-210 to L-21	Monitor	5	480	450	450	North Bay
Meter Station	Napa **	NGO	L-210 to L-21	Monitor	9	260	250	275	North Bay
Meter Station	Napa **	NGO	L-210 to L-21	Monitor	71	155	150	150	North Bay
Meter Station	Napa **	NGO	L-210 to Napa DFM	Monitor	79	155	150	150	North Bay
Holder	San Rafael	NGO	L-21 to DFM 12-0401-01	Monitor	50	180	175	175	North Bay
Holder	San Rafael	NGO	L-21 to DFM 12-0402-01	Monitor	52	180	175	175	North Bay
Station	Vallejo	NGO	L-21 to Benicia DFM	Monitor	33	185	175	175	North Bay
Station	Vallejo	NGO	L-21 to Benicia DFM	Monitor	34	185	175	175	North Bay
Station	Arcata	NGO	Dist. Regulator Station	Monitor	22		40	40	North Coast
Station	Arcata	NGO	Dist. Regulator Station	Monitor	24		40	40	North Coast
Regulator Station	Arcata	NGO	L-137B to L-137C	Monitor	20	172	167	167	North Coast
Regulator Station	Arcata	NGO	L-137B to L-137D	Monitor	27	260	250	250	North Coast
Regulator Station	Arcata	NGO	L-137B to L-137D	Monitor	30	260	250	250	North Coast
Pressure Limiting Station	Cummings Creek	NGO	L-177(Ryan Slough) from L-177 (Gerber)	Monitor	7	440	430	430	North Coast
Pressure Limiting Station	Cummings Creek	NGO	L-177(Ryan Slough) from L-177 (Gerber)	Monitor	8	440	430	430	North Coast
Regulator Station	Elk River Road	NGO	L-177 to L-126C	Monitor	14	172	167	167	North Coast
Regulator Station	Elk River Road	NGO	L-177 to L-126C	Monitor	15	172	167	167	North Coast

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Regulator Station	Ryan Slough	NGO	L-177 to L-137A & L-137C	Monitor	13	172	167	167	North Coast
Regulator Station	Ryan Slough	NGO	L-177 to L-137A & L-137C	Monitor	15	172	167	167	North Coast
Compressor Station	Santa Rosa	NGO	L-21 to Crockett from L-21 Willits	Monitor	6	Removed			North Coast
Compressor Station	Santa Rosa	NGO	Discharge Pressure Control (K-1)	PLC	N/A	710	720	720	North Coast
Compressor Station	Santa Rosa	NGO	Discharge Pressure Control (K-2)	PLC	N/A	710	720	720	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	7(Ryan Slough) from L-177 (Cummings)	Monitor	7	360	350	425	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	7(Ryan Slough) from L-177 (Cummings)	Monitor	8	360	350	425	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	Distribution Lines from Mixed Gas	Monitor	61	175	170	170	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	Distribution Lines from Mixed Gas	Monitor	62	175	170	170	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	L-177 from 4" & 6" L-125	Monitor	70	360	350	425	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	L-177 from 4" & 6" L-125	Monitor	71	360	350	425	North Coast
Station	Union Street (Eureka)	NGO	Dist. Regulator Station	Monitor	25		50	50	North Coast
Station	Union Street (Eureka)	NGO	Lines 126 to Line 126	Monitor	24	172	167	167	North Coast
Regulator Station	U.S. 101 & Old Rdwd Hwy	NGO	L-21 to Cotati DFM	Monitor	19	155	150	150	North Coast
Regulator Station	U.S. 101 & Old Rdwd Hwy	NGO	L-21 to Cotati DFM	Monitor	20	155	150	150	North Coast
Regulator Station	Monroe	7	L-21C to DFM (1304-01, 1305-01)	Monitor	20	200	200	200	North Coast
Regulator Station	Monroe	7	L-21C to DFM (1304-01, 1305-01)	Monitor	21	200	200	200	North Coast
Regulator Station	Grape Way	NGO	Line 177 to Line 177	Monitor	4	479	469	469	North Valley
Regulator Station	Grape Way	NGO	L-177 to L-177	Monitor	9	479	469	469	North Valley
Station	Gridley Junction	NGO	L-167 to L-50	Monitor	13	260	250	250	North Valley
Station	Gridley Junction	NGO	L-167 to L-51	Monitor	17	260	250	250	North Valley
Regulator Station	Jacinto	NGO	L-128 to Artois DFM	Monitor	25	205	200	200	North Valley
Regulator Station	Jacinto	NGO	L-128 to Artois DFM	Monitor	29	205	200	200	North Valley
Tap	Redding Calaveras	NGO	Calaveras Cement from L-400/401	Monitor	8	610	600	600	North Valley
Tap	Redding Calaveras	NGO	Calaveras Cement from L-400/401	Monitor	10	610	600	600	North Valley
Meter Station	Richvale "Y"	NGO	L-50 (S) from L-50 (N)	Monitor	38	260	250	250	North Valley
Meter Station	Richvale "Y"	NGO	Oroville DFM from L-50 (S)	Monitor	24	240	235	235	North Valley
Meter Station	Richvale "Y"	NGO	Oroville DFM from L-50 (N)	Monitor	28	240	235	235	North Valley
Regulator Station	Pleasant Creek Line 159	NGO	L-159 to L-159	Monitor	5	730	720	750	Sacramento
Regulator Station	Pleasant Creek Line 159	NGO	L-159 to L-160	Monitor	9	730	720	750	Sacramento
Meter Station	Antelope	NGO	L-123 to Roseville DFM	Monitor	25	185	180	180	Sacramento
Meter Station	Antelope	NGO	L-123 to Roseville DFM	Monitor	27	185	180	180	Sacramento
Meter & Regulator Station	Davis	NGO	L-150 to L-116	Monitor	105	510	500	500	Sacramento
Meter & Regulator Station	Davis	NGO	L-116 to Davis DFM	Monitor	89	180	175	175	Sacramento
Meter & Regulator Station	Davis	NGO	L-116 to Davis DFM	Monitor	90	180	175	175	Sacramento

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Cross tie	Line 172/220	NGO	L-172 to L-220	Monitor	5	510	500	500	Sacramento
Cross tie	Line 172/220	NGO	L-172 to L-221	Monitor	6	510	500	500	Sacramento
Regulator Station	Roseville Road	NGO	12" L-119 to Folsom DFM	Monitor	22	284	274	274	Sacramento
Regulator Station	Roseville Road	NGO	12" L-119 to Sacto DFM	Monitor	68	155	150	150	Sacramento
Regulator Station	Roseville Road	NGO	18" L-119 to Folsom DFM	Monitor	70	284	274	274	Sacramento
Gas Load Center	Sacramento	NGO	Dist. Regulator Station	Monitor	31				Sacramento
Gas Load Center	Sacramento	NGO	Dist. Regulator Station	Monitor	35				Sacramento
Gas Load Center	Sacramento	NGO	L-116 to North Sac. DFM	Monitor	18	270	260	260	Sacramento
Gas Load Center	Sacramento	NGO	L-116 to North Sac. DFM	Monitor	20	270	260	260	Sacramento
Gas Load Center	Sacramento	NGO	L-172 to L-108	Monitor	3	422	412	412	Sacramento
Gas Load Center	Sacramento	NGO	L-172 to L-108	Monitor	5	422	412	412	Sacramento
Gas Load Center	Sacramento	NGO	L-172 to L-108	Monitor	7	422	412	412	Sacramento
Meter & Regulator Station	Swingle Junction	NGO	L-172 to L-116/119	Monitor	21	730	720	720	Sacramento
Meter & Regulator Station	Swingle Junction	NGO	L-122 to L-116/119	Monitor	29	730	720	720	Sacramento
Meter & Regulator Station	Swingle Junction	NGO	L-172 to L-116/172	Monitor	52	510	500	500	Sacramento
Meter & Regulator Station	Swingle Junction	NGO	L-172 to L-116/172	Monitor	53	510	500	500	Sacramento
Meter Station	Camp Far West	NGO	L-124 to L-124	Monitor	7	95	90	400	Sierra
Meter Station	Camp Far West	NGO	L-124 to L-124	Monitor	11	95	90	400	Sierra
Regulator Station	Lincoln Junction	NGO	L-124 to L-123	Monitor	16	510	500	500	Sierra
Regulator Station	Lincoln Junction	NGO	L-124 to Lincoln DFM	Monitor	21	105	100	100	Sierra
Regulator Station	Lincoln Junction	NGO	L-124 to Lincoln DFM	Monitor	22	105	100	100	Sierra
Underground Holder	North Sacramento	NGO	Sacto Load Center to Sacto DFM	Monitor	93	185	180	180	Sierra
Underground Holder	North Sacramento	NGO	Sacto Load Center to Sacto DFM	Monitor	137	185	180	180	Sierra
Underground Holder	North Sacramento	NGO	Sacto Load Center to Sacto DFM	Monitor	167	185	180	180	Sierra
Underground Holder	Yuba City	NGO	To Yuba City DFM & L-50	Monitor	6	260	250	250	Sierra
Underground Holder	Yuba City	NGO	Holder to L-50S	Monitor	25	410	400	400	Sierra
Underground Holder	Yuba City	NGO	L-121 to L-50S	Monitor	52	410	400	400	Sierra
Underground Holder	Yuba City	NGO	L-167 to L-124	Monitor	53	610	600	600	Sierra
Underground Holder	Yuba City	NGO	Holder relief	Relief	D	535	525	525	Sierra
Underground Holder	Yuba City	NGO	Holder Relief	Relief	E	535	525	525	Sierra
Underground Holder	Yuba City	NGO	L-121 to L-50S	Relief	P	410	400	400	Sierra
Pressure Limiting Station	Brandt Road	NGO	L-197A to L-197A	Regulator	6	Deactivated - No Longer required	300	720	Stockton
Pressure Limiting Station	Brandt Road	NGO	L-197A to L-197A	Monitor	5	Deactivated - No Longer required	300	720	Stockton
LOCAL TRANSMISSION - SOUTH									

GT OVERPRESSURE PROTECTION DEVICE SETTINGS - DRAWING 183018

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT / DIVISION
Meter Station	Gosford Road	SGO	L-142S from L-300B	Monitor	5	610	600	600	Bakersfield
Meter Station	Gosford Road	SGO	L-142S from L-300B	Monitor	9	610	600	600	Bakersfield
Station	Anzar	SGO	Dist. Regulator Station				30	30	Central Coast
Station	Anzar	SGO	Dist. Regulator Station				30	30	Central Coast
Regulator Station	California St.	SGO	L-103 to L-103	Monitor	2	323	313	313	Central Coast
Primary Regulator Station	Harkins Rd.	SGO	L-301C to L-187	Monitor	7	323	313	313	Central Coast
Regulator Station	Harkins Rd.	SGO	L-301C to L-187	Monitor	6	323	313	313	Central Coast
Primary Regulator Station	King City	SGO	L-187 to King City DFM	Monitor	3	135	130	130	Central Coast
Regulator Station	Metz Road	SGO	L-310 to KC DFM (1st stage)	Monitor	10	330	320	320	Central Coast
Regulator Station	Metz Road	SGO	L-310 to KC DFM (1st stage)	Monitor	11	330	320	320	Central Coast
Regulator Station	Metz Road	SGO	L-310 to KC DFM (2nd stage)	Monitor	21	135	130	130	Central Coast
Primary Regulator Station	Moss Landing PP	SGO	Power Plant	Monitor	1	140	135	275	Central Coast
Primary Regulator Station	Moss Landing PP	SGO	Power Plant	Monitor	2	140	135	275	Central Coast
Primary Regulator Station	Moss Landing PP	SGO	Power Plant	Monitor	4	140	135	275	Central Coast
Primary Regulator Station	Moss Landing PP	SGO	Power Plant	Monitor	5	140	135	275	Central Coast
Primary Regulator Station	Moss Landing PP	SGO	Power Plant	Monitor	M	143	135	275	Central Coast
Pressure Limiting Station	Rob Roy Junction	SGO	DFM -2 to DFM -1	Monitor	14	313	303	303	Central Coast
Pressure Limiting Station	Rob Roy Junction	SGO	DMF -2 to DFM -1	Monitor	15	313	303	303	Central Coast
Regulator Station	San Juan Rd.	SGO	L-181A to L-181A	Monitor	12	313	303	303	Central Coast
Regulator Station	San Juan Rd.	SGO	L-181A to L-181A	Monitor	7	313	303	303	Central Coast
Underground Holder	Santa Cruz	SGO	Holder Relief	Relief	B	375	618	618	Central Coast
Underground Holder	Santa Cruz	SGO	Holder Relief	Relief	C	674	618	618	Central Coast
Station	Adams and Elm	SGO	L-138 to SCG DFM	Relief	E	284	254	254	Fresno
Station	Adams and Elm	SGO	Dist. Regulator Station	Relief	F		53	53	Fresno
Regulator Station	Chestnut & Clay	SGO	L-138 to Belt Main	Monitor	10	168	163	163	Fresno
Tap	Coalinga	SGO	L-164 from L-300A	Monitor	14	508	498	498	Fresno
Tap	Coalinga	SGO	L-164 from L-300A	Monitor	16	508	498	498	Fresno
Station	Elkhorn	SGO	L- 138	Monitor	3	660	650	650	Fresno
Station	Elkhorn	SGO	L- 138	Monitor	4	660	650	650	Fresno
Gas Load Center	Fresno	SGO	L-138 to L-118 & L-111	Monitor	107	410	400	400	Fresno
Gas Load Center	Fresno	SGO	Header to Belt Main	Monitor	19	168	163	163	Fresno
Junction	Fresno	SGO	L- 118 from L-111S	Monitor	4	410	400	400	Fresno
Meter & Regulator Station	Helm Junction	SGO	L-111 N from L-138A	Monitor	9	660	650	650	Fresno
Meter & Regulator Station	Helm Junction	SGO	L-111 N from L-138A	Monitor	10	660	650	650	Fresno
Station	Hemdon Junction	SGO	L-134 to L-118	Monitor	1	410	400	400	Fresno

