

PURPOSE

This drawing lists the actual and maximum set pressures for pipeline overpressure protection devices

DEFINITIONS

Set Pressure is the actual set point that the overpressure protection device is set at

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/S 4125

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

GENERAL NOTES

- 1 Types of overpressure protection devices listed in this drawing are relief valves (conventional and quick opening (QO)) and monitor valves See CGT EG 4125 2 for specific guidelines on where to set these devices
- 2 Listed in this drawing are actual set pressures in the "Set Pressure" column and the 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 S 4125 1 for the process)
- 3 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

RELATED POLICY

CGT Standard S 4125 1, "Setpoints, Overpressure Protection Devices"
 CGT Engineering Guideline EG 4125 2, "Establishing Setpoints on Overpressure Protection Devices"

0	10/31/78	Issue for Use (PLO)				Approved By	Job #	PIPELINE DATA SHEET Overpressure Protection Device Maximum Settings <i>California Gas Transmission</i> <i>Pacific Gas and Electric Company</i> <i>San Francisco, California</i>	Bill of Matl
1	8/4/83	Revised (PLO)				DDC	Supv		Dwg List
2	9/17/99	Revised and updated				DM	Dsgn		Supds
						JLR	Dwn		Supsd By
							Chkd		Sheet No 1 of 18
							OK		Drawing
							Date 10-31-78		Rev
No	Date	Description	Dwn	Chkd	Apvd		Scales		183018
REVISIONS									2

SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
1	COVER		
2,3,4	INDEX	8	MCDONALD ISLAND DISTRICT MCDONALD ISLAND COMPRESSOR STATION
	BURNEY DISTRICT		TRACY DISTRICT
5	TIONESTA COMPRESSOR STATION	9	BETHANY COMPRESSOR STATION
5	INDIAN SPRINGS PRESSURE LIMITING STATION	9	VERNALIS METER STATION
5	BURNEY COMPRESSOR STATION	9	BIXLER ROAD PRESSURE LIMITING STATION
5	SHINGLETOWN PRESSURE LIMITING STATION	9	OLD RIVER PRESSURE LIMITING STATION
	WILLOWS DISTRICT	9	MACARTHUR ROAD STATION
6	GERBER COMPRESSOR STATION	9	OWENS GLASS COMPANY STATION
6	DELEVAN COMPRESSOR STATION	9	TRACY STATION
6	BUCKEYE CREEK PRESSURE LIMITING STATION	9	BAYVIEW ROAD STATION
	MERIDIAN DISTRICT	9	DOS PALOS STATION
6	HERSHEY JUNCTION	10	GUSTINE STATION
7	ARBUCKLE METER & REGULATOR STATION	10	LOS BANOS STATION
	RIO VISTA DISTRICT	10	NEW WESTLEY STATION
7	CREED STATION	10	NEWMAN STATION
7	LAS VINAS STATION	10	PATTERSON STATION
	LOS MEDANOS DISTRICT	10	BRENTWOOD TERMINAL
7	LOS MEDANOS COMPRESSOR STATION		
7	LOS MEDANOS PRESSURE LIMITING STATION		
8	ANTIOCH TERMINAL		
OVERPRESSURE PROTECTION DEVICE MAXIMUM SETTINGS		PG&E CO. - CGI SHEET 2 OF 18	DRAWING NO 183018
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SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
	MILPITAS DISTRICT		L-300 NORTH PIPELINE (CONT)
11	LOMITA PARK METER STATION	14	5B PRESSURE LIMITING STATION
11	7A PRESSURE LIMITING STATION	14	HELM TAP STATION
11	7B PRESSURE LIMITING STATION	14	PANOCHÉ STATION
11	SHERIDAN ROAD PRESSURE LIMITING STA	14	BAKERSFIELD TAP
11	MARTIN REGULATOR STATION		
11	IRVINGTON STATION		
11&12	MILPITAS TERMINAL		
	HOLLISTER	14	HINKLEY
12	DOLAN ROAD METER STATION		HINKLEY COMPRESSOR STATION
12	HOLLISTER METER STATION		
12	6A PRESSURE LIMITING STATION		
13	6B PRESSURE LIMITING STATION		
13	6AX PRESSURE LIMITING STATION		
13	6BX PRESSURE LIMITING STATION		
	KETTLEMAN		L-300 SOUTH PIPELINE (HINKLEY & TOPOCK DISTRICT)
13	KETTLEMAN COMPRESSOR STATION (KCS)	14	DAGGETT INTERCONNECT STATION
	L-300 NORTH PIPELINE (KETTLEMAN DISTRICT)	14	PISGAH INTERTIE STATION
13	KETTLEMAN PRESSURE LIMITING STATION (located inside KCS)	14	TRONA TAP METER STATION
13	SPRECKELS SUGAR METER STATION	15	1A PRESSURE LIMITING STATION
13	4A PRESSURE LIMITING STATION	15	1B PRESSURE LIMITING STATION
13	4B PRESSURE LIMITING STATION	15	2A PRESSURE LIMITING STATION
13	5A PRESSURE LIMITING STATION	15	2B PRESSURE LIMITING STATION
		15	2AX PRESSURE LIMITING STATION
		15	2BX PRESSURE LIMITING STATION
		15	3A PRESSURE LIMITING STATION
		15	3B PRESSURE LIMITING STATION
			TOPOCK
		16	TOPOCK COMPRESSOR STATION
OVERPRESSURE PROTECTION DEVICE MAXIMUM SETTINGS		PG&E CO. - CGT	DRAWING NO
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SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
	LOCAL TRANSMISSION - NORTH		LOCAL TRANSMISSION - SOUTH
16	CONCORD METER STATION	17	GOSFORD ROAD METER STATION
16	VINE HILL METER STATION	17	FRESNO JUNCTION
16	FOSTER-WHEELER REGULATOR STATION	17	HELM JUNCTION METER & REGULATOR STATION
16	PORT COSTA REGULATOR STATION	18	ELKHORN STATION
16	CROCKETT STATION	18	COALINGA TAP
16	FRANKLIN CANYON STATION	18	SAN FRANCISCO GAS LOAD CENTER
16	SAN PABLO STATION	18	TULLY STATION
16	FAIRWAY AVE CROSSOVER STATION	18	DE FRANCISCO REGULATOR STATION
16	MARINA BLVD STATION		
17	SANTA ROSA COMPRESSOR STATION		
17	TOMPKINS HILL METER & REGULATOR STATION		
17	CUMMINGS CREEK PRESSURE LIMITING STATION		
17	JOHNS MANVILLE METER & REGULATOR STATION		
17	REDDING CALAVERAS TAP		
17	VERNALIS FIELD MIXER STATION		
OVERPRESSURE PROTECTION DEVICE MAXIMUM SETTINGS		PG&E CO. - CGT SHEET 4 OF 18	DRAWING NO 183018
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**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
BURNEY										
Compressor Station	Tionesta	NGO	Discharge Pressure Controller	Controller	N/A	904	907	907	911	Burney
Compressor Station	Tionesta	NGO	High Discharge Press Shutdown	Switch	N/A	915	930	907	911	Burney
Compressor Station	Tionesta	NGO	Station Relief Valve	Relief(QO)	L	940	940	907	911	Burney
Compressor Station	Tionesta	NGO	Station Relief Valve	Relief(QO)	M	940	940	907	911	Burney
Compressor Station	Tionesta	NGO	Station Relief Valve	Relief(QO)	S	940	940	907	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-400, 36" MLV	Reg Bypass	48 64	874	877	887	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-400, 20" BPV	Regulator	3	884	887	887	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-400, 12" BOV	Relief	A	Deactivated	N/A	N/A	N/A	Burney
Pressure Limiting Station	Indian Springs	NGO	L-401, 42" MLV	Reg Bypass	48 65	874	877	887	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-401, 24" BPV	Regulator	12	884	887	887	911	Burney
Pressure Limiting Station	Indian Springs	NGO	L-401, 42" MLV	Monitor	48 63	Deactivated	N/A	N/A	N/A	Burney
Compressor Station	Burney	NGO	Dischg Press Controller/Fall Back Pres	Controller	N/A	908	911/884	911/884	911	Burney
Compressor Station	Burney	NGO	High Discharge Press Shutdown	Switch	N/A	921	921	911/884	911	Burney
Compressor Station	Burney	NGO	Station Relief Valve	Relief(QO)	J	940	940	911/884	911	Burney
Compressor Station	Burney	NGO	Station Relief Valve	Relief(QO)	K	940	940	911/884	911	Burney
Compressor Station	Burney	NGO	Station Relief Valve	Relief(QO)	U	940	940	911/884	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-400, 36" MLV	Reg Bypass	115 26	852	855	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-400, 20" BPV	Regulator	3	862	865	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-400, 12" BOV	Relief	A	875	875	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-401, 42" MLV	Reg Bypass	115 28	852	855	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-401, 24" BPV	Regulator	10	862	865	865	911	Burney
Pressure Limiting Station	Shingletown	NGO	L-401, 42" MLV	Monitor	115 27	875	875	865	911	Burney

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
WILLOWS										
Compressor Station	Gerber	NGO	Discharge Pressure Controller	Controller	N/A	904	907	907	911	Willows
Compressor Station	Gerber	NGO	High Discharge Press Shutdown	Switch	N/A	915	930	907	911	Willows
Compressor Station	Gerber	NGO	Station Relief Valve	Relief(QO)	S	940	940	907	911	Willows
Compressor Station	Gerber	NGO	Station Relief Valve	Relief(QO)	T	940	940	907	911	Willows
Compressor Station	Gerber	NGO	Station Relief Valve	Relief(QO)	Y	940	940	907	911	Willows
Compressor Station	Gerber	NGO	L-177 from L-400/L-401	Monitor	21	829	829	819	819	Willows
Compressor Station	Gerber	NGO	L-177 from L-400/L-401	Monitor	28	829	829	819	819	Willows
Compressor Station	Delevan	NGO	Discharge Pressure Controller	Controller	N/A	1037	1040	1040	1040	Willows
Compressor Station	Delevan	NGO	High Discharge Press Shutdown	Switch	N/A	1055	1068	1040	1040	Willows
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	O	1078	1078	1040	1040	Willows
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	P	1078	1078	1040	1040	Willows
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	R	1078	1078	1040	1040	Willows
Compressor Station	Delevan	NGO	Station Relief Valve	Relief(QO)	S	1078	1078	1040	1040	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-400 12" BOV	Relief	A	975	975	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-400 20" BPV	Regulator	3	962	965	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-400 36" MLV	Reg Bypass	233 87	952	955	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-401 24" BPV	Regulator	10	962	965	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-401 42" MLV	Reg Bypass	233 89	952	955	965	975	Willows
Pressure Limiting Station	Buckeye Creek	NGO	L-401 42" MLV	Monitor	233 88	975	975	965	975	Willows
MERIDIAN										
Junction	Hershey	NGO	L-172 from L-302	Monitor	2	810	810	800	800	Meridian
Junction	Hershey	NGO	L-172 from L-302	Monitor	3	810	810	800	800	Meridian

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Meter & Regulator Station	Arbuckle	NGO	Intermediate from L-172	Relief	30	450	810	800	800	Mendian
Meter & Regulator Station	Arbuckle	NGO	Arbuckle DFM from Intermediate	Relief	F	210	210	200	200	Mendian
Meter & Regulator Station	Arbuckle	NGO	Arbuckle DFM from Intermediate	Relief	H	210	210	200	200	Mendian
RIO VISTA										
Station	Creed	NGO	L-210 E from L400/L401	Monitor	11	810	810	800	800	Rio Vista
Station	Creed	NGO	L-210 W from L400/L401	Monitor	14	660	660	650	650	Rio Vista
Station	Creed	NGO	L-210 W from L400/L401	Monitor	16	660	660	650	650	Rio Vista
Station	Las Vinas	NGO	Jahant DFM from L-108S	Monitor	1	205	205	200	320	Rio Vista
Station	Las Vinas	NGO	L-108S from L-108N	Relief	R	422	422	412	412	Rio Vista
Station	Las Vinas	NGO	L-108S from L-196A/B	Monitor	75	422	422	412	412	Rio Vista
Station	Las Vinas	NGO	L-108S from L-196A/B	Monitor	76	422	422	412	412	Rio Vista
Station	Las Vinas	NGO	L-197A/B from L-108S	Monitor	95	310	310	300	300	Rio Vista
Station	Las Vinas	NGO	L-197A/B from L-108S	Monitor	98	310	310	300	300	Rio Vista
LOS MEDANOS										
Compressor Station	Los Medanos	SGO	Discharge Pressure Controller	Controller	N/A	1797	1800	1800	1800	Los Medanos
Compressor Station	Los Medanos	SGO	Station Relief Valve	Relief (QO)	F	1975	1975	1800	1800	Los Medanos
Compressor Station	Los Medanos	SGO	L-65 from Field	Monitor	506	610	610	600	720	Los Medanos
Compressor Station	Los Medanos	SGO	L-65 from Field	Monitor	507	610	610	600	720	Los Medanos
Pressure Limiting Station	Los Medanos	SGO	SP3	Monitor	705	415	415	405	468	Los Medanos
Pressure Limiting Station	Los Medanos	SGO	SP3	Monitor	706	415	415	405	468	Los Medanos

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Terminal	Antioch	NGO	L-303 from L-400	Monitor	149	730	730	720	720	Los Medanos
Terminal	Antioch	NGO	L-303 from L-400	Monitor	151	730	730	720	720	Los Medanos
Terminal	Antioch	NGO	CCPP from L-400	Monitor	92	200	200	195	195	Los Medanos
Terminal	Antioch	NGO	CCPP from L-400	Relief	AN	204	205	195	195	Los Medanos
Terminal	Antioch	NGO	CCPP from L-400	Relief	AP	204	205	195	195	Los Medanos
Terminal	Antioch	NGO	L-191 from L-400	Monitor	93	610	610	600	600	Los Medanos
Terminal	Antioch	NGO	L-191 from L-400	Monitor	95	610	610	600	600	Los Medanos
Terminal	Antioch	NGO	L-114S from L-400	Monitor	172	507	507	497	497	Los Medanos
Terminal	Antioch	NGO	(Alternate) L-114S from L-400	Monitor	97	507	507	497	497	Los Medanos
Terminal	Antioch	NGO	(Alternate) L-114S from L-191	Monitor	172	507	507	497	497	Los Medanos
Terminal	Antioch	NGO	Antioch Header from L-400	Monitor	96	448	448	438	438	Los Medanos
Terminal	Antioch	NGO	Antioch Header from L-400	Monitor	97	448	448	438	438	Los Medanos
Terminal	Antioch	NGO	Ant. Header from SP4, 114N, 131N	Monitor	88	448	448	438	438	Los Medanos
Terminal	Antioch	NGO	CCPP from Antioch Header	Monitor	155	200	200	195	195	Los Medanos
Terminal	Antioch	NGO	CCPP from Antioch Header	Monitor	156	200	200	195	195	Los Medanos
Terminal	Antioch	NGO	SP5 from Antioch Header	Monitor	158	348	348	338	390	Los Medanos
Terminal	Antioch	NGO	SP5 from the Rio Vista gas fids (SP4)	Monitor	85	348	348	338	390	Los Medanos
MCDONALD ISLAND										
Compressor Station	McDonald Island	NGO	K-1 Compressor Suction Relief	Relief (QO)	M	1122	1122	1025	1025	McDonald
Compressor Station	McDonald Island	NGO	K-1 Compressor Discharge Relief	Relief (QO)	L	2371	2371	2160	2160	McDonald
Compressor Station	McDonald Island	NGO	K-2 Compressor Suction Relief	Relief (QO)	N	1122	1122	1025	1025	McDonald
Compressor Station	McDonald Island	NGO	K-2 Compressor Discharge Relief	Relief (QO)	P	2371	2371	2160	2160	McDonald
Compressor Station	McDonald Island	NGO	Station Relief Valve	Relief (QO)	Q	1122	1122	1025	1025	McDonald
Compressor Station	McDonald Island	NGO	Station Relief Valve	Relief (QO)	R	2371	2371	2160	2160	McDonald
Compressor Station	McDonald Island	NGO	Station Relief Valve (suction)	Relief (QO)	AA	1122	1122	1025	1025	McDonald

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
TRACY										
Compressor Station	Bethany	NGO	Discharge Pressure Controller	Controller	N/A	1037	1040	1040	1040	Tracy
Compressor Station	Bethany	NGO	High Discharge Pressure Shutdown	PS-3	N/A	1055	1080	1040	1040	Tracy
Compressor Station	Bethany	NGO	Station Relief	Relief(QO)	J	1085	1080	1040	1040	Tracy
Meter Station	Vernalis	NGO	L-108 from L-2	Monitor	5	510	510	500	500	Tracy
Meter Station	Vernalis	NGO	L-108 from L-2	Monitor	9	510	510	500	500	Tracy
Pressure Limiting Station	Boxler Road	NGO	L-401 from L-57B	Monitor	3	985	985	975	975	Tracy
Pressure Limiting Station	Boxler Road	NGO	L-401 from L-57B (Reg Leakage)	Relief	B	Removed	N/A	N/A	N/A	Tracy
Pressure Limiting Station	Old River	NGO	L-57A from L-57B	Monitor	4	877	877	867	867	Tracy
Pressure Limiting Station	Old River	NGO	L-57A from L-57B (Reg Leakage)	Relief	B	Removed	N/A	N/A	N/A	Tracy
Station	MacArthur Road	NGO	Tracy from L-2	Monitor	11	305	305	295	295	Tracy
Station	MacArthur Road	NGO	Tracy from L-2	Monitor	14	305	305	295	295	Tracy
Station	Owens-Illinois Glass	NGO	Owens from L-2	Monitor	7	115	115	110	125	Tracy
Station	Owens-Illinois Glass	NGO	Owens from L-2	Monitor	10	115	115	110	125	Tracy
Station	Tracy	NGO	L-107 from L-304	Monitor	88	487	487	477	500	Tracy
Station	Tracy	NGO	L-176 from L-162	Relief	AB	110	375	*365	555	Tracy
Station	Tracy	NGO	L-176 from L-162	Relief	AA	110	375	*365	555	Tracy
Station	Tracy	NGO	L-162 from L-2	Monitor	91	375	375	365	720	Tracy
Station	Tracy	NGO	L-107 from L-2	Monitor	95	487	487	477	500	Tracy
						*At the request of Stockton Division, NOP is 100 psig				
Station	Bayview Road	NGO	L-331 from L-2	Monitor	12	510	510	500	890	Tracy
Station	Bayview Road	NGO	L-331 from L-2	Monitor	14	510	510	500	890	Tracy
Station	Dos Palos	NGO	L-186 from L-2	Monitor	7	510	510	500	625	Tracy
Station	Dos Palos	NGO	L-186 from L-2	Monitor	9	510	510	500	625	Tracy

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Station	Gustine	NGO	Gustine from L-2	Monitor	11	155	155	150	150	Tracy
Station	Gustine	NGO	Gustine from L-2	Monitor	14	155	155	150	150	Tracy
Station	Los Banos	NGO	Los Banos from L-2	Monitor	8	160	160	155	215	Tracy
Station	Los Banos	NGO	Los Banos from L-2	Monitor	11	160	160	155	215	Tracy
Station	New Westley	NGO	New Westley from L-2	Monitor	15	140	140	135	135	Tracy
Station	New Westley	NGO	New Westley from L-2	Monitor	18	140	140	135	135	Tracy
Station	Newman	NGO	Newman from L-2	Monitor	11	155	155	150	150	Tracy
Station	Newman	NGO	Newman from L-2	Monitor	14	155	155	150	150	Tracy
Station	Patterson	NGO	Patterson from L-2	Monitor	11	120	120	115	115	Tracy
Station	Patterson	NGO	Patterson from L-2	Monitor	14	120	120	115	115	Tracy
Terminal	Brentwood	NGO	L-303N from L-57A	Monitor	72	730	730	720	720	Tracy
Terminal	Brentwood	NGO	L-303S from L-57A (Not Used)	Monitor	83 (closed)	730	730	720	793	Tracy
Terminal	Brentwood	NGO	L-303N from L-57B	Monitor	113	730	730	720	720	Tracy
Terminal	Brentwood	NGO	L-303N from L-57B (Reg Leakage)	Relief (QO)	AC	1051	1051	960	1440	Tracy
Terminal	Brentwood	NGO	L-303N from L-57B (Reg Leakage)	Relief (QO)	AH	1051	1051	960	960	Tracy
Terminal	Brentwood	NGO	L-303S from L-57B	Monitor	117	730	730	720	793	Tracy
Terminal	Brentwood	NGO	L-303S from L-57B (Reg Leakage)	Relief (QO)	AD	1051	1051	960	1440	Tracy
Terminal	Brentwood	NGO	L-303S from L-57B(Reg Leakage)	Relief (QO)	AF	1051	1051	960	960	Tracy
Terminal	Brentwood	NGO	L-303S from L-57B	Monitor	126	730	730	720	793	Tracy
Terminal	Brentwood	NGO	L-303S from L-57B (Reg Leakage)	Relief (QO)	AA	1051	1051	960	1440	Tracy
Terminal	Brentwood	NGO	L-303S from L-57B (Reg Leakage)	Relief (QO)	AB	1051	1051	960	960	Tracy
Terminal	Brentwood	NGO	L-114S from L-57B	Monitor	126	605	605	595	595	Tracy
Terminal	Brentwood	NGO	L-2 from L-57B	Monitor	108	900	900	890	890	Tracy
Terminal	Brentwood	NGO	L-114S from L-303N	Monitor	85	510	510	500	595	Tracy
Terminal	Brentwood	NGO	L-2 from L-57B (Reg Leakage)	Relief (QO)	AE	1051	1051	960	1440	Tracy

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
MILPITAS										
Meter Station	Lomita Park	SGO	L-101	Monitor	33 68	150	150	145	145	Milpitas
Meter Station	Lomita Park	SGO	L-101	Monitor	24	150	150	145	145	Milpitas
Pressure Limiting Station	7A	SGO	24" BPV	Regulator	3	552	555	555	558	Milpitas
Pressure Limiting Station	7A	SGO	34" MLV	Reg Bypass	490 65A	540	543	555	558	Milpitas
Pressure Limiting Station	7A	SGO	34" MLV	Monitor	490 64A	565	565	555	558	Milpitas
Pressure Limiting Station	7B	SGO	24" BPV	Regulator	8	594	597	597	600	Milpitas
Pressure Limiting Station	7B	SGO	34" MLV	Reg Bypass	490 92B	582	585	597	600	Milpitas
Pressure Limiting Station	7B	SGO	34" MLV	Monitor	490 91B	Deactivated	N/A	N/A	N/A	Milpitas
Pressure Limiting Station	Shendan Road	SGO	L-303 24" MLV	Monitor	3	600	600	590	590	Milpitas
Pressure Limiting Station	Shendan Road	SGO	L-303 24" MLV	Monitor	4	600	600	590	590	Milpitas
Regulator Station	Marlin	SGO	L- 132	Monitor	46 59	150	150	145	145	Milpitas
Regulator Station	Marlin	SGO	L- 132	Monitor	12	150	150	145	145	Milpitas
Station	Irvington	SGO	L- 105N from Mixer	Monitor	5	260	260	250	250	Milpitas
Station	Irvington	SGO	Mixer from L- 131S	Monitor	34	430	430	420	420	Milpitas
Station	Irvington	SGO	Mixer from L- 131	Monitor	50	430	430	420	420	Milpitas
Station	Irvington	SGO	Mixer from L- 107	Monitor	66	430	430	420	420	Milpitas
Station	Irvington	SGO	Mixer from L- 303	Monitor	71	430	430	420	420	Milpitas
Terminal	Milpitas	SGO	L-300A from Mixer	Monitor	3	568	568	558	558	Milpitas
Terminal	Milpitas	SGO	L-300A from Mixer	Monitor	4	568	568	558	558	Milpitas
Terminal	Milpitas	SGO	L-300B from Mixer	Monitor	5	610	610	600	600	Milpitas
Terminal	Milpitas	SGO	L-300B from Mixer	Monitor	6	610	610	600	600	Milpitas
Terminal	Milpitas	SGO	Mixer	Monitor	16	385	385	375	400	Milpitas
Terminal	Milpitas	SGO	Mixer	Monitor	20	385	385	375	400	Milpitas
Terminal	Milpitas	SGO	Mixer	Monitor	26	385	385	375	400	Milpitas

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Terminal	Milpitas	SGO	Mixer	Monitor	28	385	385	375	400	Milpitas
Terminal	Milpitas	SGO	SJ DFM	Monitor	33	205	205	200	200	Milpitas
Terminal	Milpitas	SGO	SJ DFM	Monitor	36	205	205	200	200	Milpitas
Terminal	Milpitas	SGO	L-109	Monitor	37	385	385	375	400	Milpitas
Terminal	Milpitas	SGO	L-109	Monitor	39	385	385	375	400	Milpitas
Terminal	Milpitas	SGO	Station bypass	Monitor	63	385	385	375	400	Milpitas
Terminal	Milpitas	SGO	L-107	Monitor	66	487	487	477	720	Milpitas
Terminal	Milpitas	SGO	L-107	Monitor	67	487	487	477	720	Milpitas
Terminal	Milpitas	SGO	L-131	Monitor	70	600	600	590	595	Milpitas
Terminal	Milpitas	SGO	L-131	Monitor	71	600	600	590	595	Milpitas
HOLLISTER										
Meter Station	Dolan Road	SGO	L-301B from L-301G	Monitor	19	418	418	408	408	Hollister
Meter Station	Dolan Road	SGO	L-301B from L-301G	Monitor	20	418	418	408	408	Hollister
Meter Station	Hollister	SGO	L-301A from L-300A	Monitor	35	406	406	396	396	Hollister
Meter Station	Hollister	SGO	L-301G from L-300A	Monitor	26	510	510	500	500	Hollister
Meter Station	Hollister	SGO	L-301G from L-300A	Monitor	27	510	510	500	500	Hollister
Meter Station	Hollister	SGO	L-301A from L-300A	Monitor	28	406	406	396	396	Hollister
Meter Station	Hollister	SGO	L-301A from L-300B	Monitor	35	406	406	396	396	Hollister
Meter Station	Hollister	SGO	L-301G from L-300B	Monitor	26	510	510	500	500	Hollister
Meter Station	Hollister	SGO	L-301G from L-300B	Monitor	27	510	510	500	500	Hollister
Meter Station	Hollister	SGO	L-301A from L-300B	Monitor	28	406	406	396	396	Hollister
Pressure Limiting Station	6A	SGO	L-300A, 12" DS Blow Off Valve	Relief	A	630	630	620	631	Hollister
Pressure Limiting Station	6A	SGO	L-300A, 24" BPV	Regulator	3	617	620	620	631	Hollister
Pressure Limiting Station	6A	SGO	L-300A, 34" MLV	Reg Bypass	463 74A	605	608	620	631	Hollister

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Pressure Limiting Station	6B	SGO	L-300B, 12" DS Blow Off Valve	Relief	E	630	630	620	631	Hollister
Pressure Limiting Station	6B	SGO	L-300B, 24" BPV	Regulator	8	617	620	620	631	Hollister
Pressure Limiting Station	6B	SGO	L-300B, 34" MLV	Reg Bypass	463 85B	605	608	620	631	Hollister
Pressure Limiting Station	6AX	SGO	Station Relief	Relief (QO)	A	683	683	631	631	Hollister
Pressure Limiting Station	6BX	SGO	Station Relief	Relief (QO)	A	683	683	631	631	Hollister
KETTLEMAN										
Compressor Station	Kettleman	SGO	Discharge Pressure, Manual Control	Manual	N/A	836	839	839	840	Kettleman
Compressor Station	Kettleman	SGO	High Discharge Press. Shutdown	Switch	N/A	849	849	839	840	Kettleman
Compressor Station	Kettleman	SGO	Unit Relief Valves	Relief	N/A	900	900	839	840	Kettleman
L-300 NORTH PIPELINE										
Pressure Limiting Station	Kettleman	SGO	L-300B, Flow North to South	Monitor	354 01B	674	674	664	669	Kettleman
Meter Station	Spreckels Sugar	SGO	L-307 from L-2	Monitor	9	510	510	500	500	Kettleman
Meter Station	Spreckels Sugar	SGO	L-307 from L-2	Monitor	13	510	510	500	500	Kettleman
Pressure Limiting Station	4A	SGO	L-300A, 12" DSBOV	Relief	C	764	764	754	757	Kettleman
Pressure Limiting Station	4A	SGO	L-300A, 24" BPV	Regulator	6	751	754	754	757	Kettleman
Pressure Limiting Station	4A	SGO	L-300A, 34" MLV	Reg Bypass	256 21A	739	742	754	757	Kettleman
Pressure Limiting Station	4B	SGO	L-300B, 12" DSBOV	Relief	A	764	764	754	757	Kettleman
Pressure Limiting Station	4B	SGO	L-300B, 24" BPV	Regulator	3	751	754	754	757	Kettleman
Pressure Limiting Station	4B	SGO	L-300B, 34" MLV	Reg Bypass	256 64B	739	742	754	757	Kettleman
Pressure Limiting Station	5A	SGO	L-300A, 34" MLV	Reg Bypass	299 01A	653	656	668	669	Kettleman
Pressure Limiting Station	5A	SGO	L-300A, 24" BPV	Regulator	3	665	668	668	669	Kettleman
Pressure Limiting Station	5A	SGO	L-300A, 34" MLV	Monitor	299 00A	678	678	668	669	Kettleman

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Pressure Limiting Station	5B	SGO	L- 300B, 34" MLV	Reg Bypass	299 00B	653	658	658	669	Kettleman
Pressure Limiting Station	5B	SGO	L- 300B, 24" BPV	Regulator	6	665	669	658	669	Kettleman
Pressure Limiting Station	5B	SGO	L- 300B, 34" MLV	Monitor	298 99B	678	678	668	669	Kettleman
Station	Helm Tap	SGO	L-138B from L-300A	Monitor	17	710	710	700	700	Kettleman
Station	Helm Tap	SGO	L-138A from L-300A	Monitor	18	810	810	800	862	Kettleman
Station	Panoche	SGO	L-300B from Unocal gas field	Monitor	27	849	849	839	840	Kettleman
Station	Panoche	SGO	L-300A / L-300B from L-300/L-2	Monitor	18	849	849	839	840	Kettleman
Station	Panoche	SGO	L-300A / L-300B from L-300/L-2	Monitor	14	849	849	839	840	Kettleman
Station	Panoche	SGO	L-300A / L-300B from Malin mtr sta	Monitor	31	849	849	839	840	Kettleman
Tap	Bakersfield	SGO	L-142 from L-300A&B	Relief	E	485	485	475	475	Kettleman
Tap	Bakersfield	SGO	L-142 from L-300A&B	Relief	F	485	485	475	475	Kettleman
HINKLEY										
Compressor Station	Hinkley	SGO	Discharge Pressure, Manual Control	Manual	N/A	857	860	860	861	Hinkley
Compressor Station	Hinkley	SGO	High Press Discharge Shutdown	Switch	N/A	870	870	860	861	Hinkley
Compressor Station	Hinkley	SGO	Unit Relief Valves	Relief	N/A	900	900	860	861	Hinkley
L-300 SOUTH PIPELINE										
Interconnect Station	Daggett	SGO	L-300B from Kern River Station	Monitor	1	583	583	573	573	Hinkley
Interconnect Station	Daggett	SGO	L-300B from Kern River Station	Monitor	2	Deactivated	N/A	N/A	N/A	Hinkley
Intertie Station	Pisgah	SGO	SCG from L-300 A & B	Monitor	4	698	698	688	688	Hinkley
Intertie Station	Pisgah	SGO	SCG from L-300 A & B	Relief	A	698	698	688	688	Hinkley
Meter Station	Trona Tap	SGO	L-311 from L-300A	Monitor	14	710	710	700	700	Hinkley
Meter Station	Trona Tap	SGO	L-311 from L-300A	Monitor	16	710	710	700	700	Hinkley

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Pressure Limiting Station	1A	SGO	L-300A, 12" DSBOV	Relief	A	789	789	779	815	Topock
Pressure Limiting Station	1A	SGO	L-300A, 24" BPV	Regulator	3	776	779	779	815	Topock
Pressure Limiting Station	1A	SGO	L-300A, 34" MLV	Reg Bypass	40 87A	764	767	779	815	Topock
Pressure Limiting Station	1B	SGO	L-300B, 12" DSBOV	Relief	C	789	789	779	821	Topock
Pressure Limiting Station	1B	SGO	L-300B, 24" BPV	Regulator	6	776	779	779	821	Topock
Pressure Limiting Station	1B	SGO	L-300B, 34" MLV	Reg Bypass	40 49B	764	767	779	821	Topock
Pressure Limiting Station	2A	SGO	L-300A, 12" DSBOV	Relief	A	692	692	682	688	Hinkley
Pressure Limiting Station	2A	SGO	L-300A, 24" BPV	Regulator	3	679	682	682	688	Hinkley
Pressure Limiting Station	2A	SGO	L-300A, 34" MLV	Reg Bypass	103 72A	667	670	682	688	Hinkley
Pressure Limiting Station	2B	SGO	L-300B, 12" DSBOV	Relief	C	692	692	682	688	Hinkley
Pressure Limiting Station	2B	SGO	L-300B, 24" BPV	Regulator	6	679	682	682	688	Hinkley
Pressure Limiting Station	2B	SGO	L-300B, 34" MLV	Reg Bypass	103 51B	667	670	682	688	Hinkley
Pressure Limiting Station	2AX	SGO	L-300A, 34" MLV	Regulator	130 38A	570	573	573	573	Hinkley
Pressure Limiting Station	2AX	SGO	L-300A, 34" MLV	Monitor	130 37A	583	583	573	573	Hinkley
Pressure Limiting Station	2BX	SGO	L-300B, 34" MLV	Regulator	130 39B	570	573	573	573	Hinkley
Pressure Limiting Station	2BX	SGO	L-300B, 34" MLV	Monitor	130 40B	583	583	573	573	Hinkley
Pressure Limiting Station	3A	SGO	L-300A, 34" MLV	Reg Bypass	203 02A	751	754	766	803	Hinkley
Pressure Limiting Station	3A	SGO	L-300A, 24" BPV	Regulator	3	763	766	766	803	Hinkley
Pressure Limiting Station	3A	SGO	L-300A, 34" MLV	Monitor	203 01A	776	776	766	803	Hinkley
Pressure Limiting Station	3B	SGO	L-300B, 24" MLV	Reg Bypass	203 07B	751	754	766	803	Hinkley
Pressure Limiting Station	3B	SGO	L-300B, 20" BLV	Regulator	21	763	766	766	803	Hinkley
Pressure Limiting Station	3B	SGO	L-300B, 34" MLV	Monitor	203 08B	776	776	766	803	Hinkley

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Compressor Station	Topock	SGO	Discharge Pressure, Manual Control	Manually	N/A	862	865	865	867	Topock
Compressor Station	Topock	SGO	High Press Discharge Shutdown	Switch	N/A	875	875	865	867	Topock
Compressor Station	Topock	SGO	Unit Relief Valves	Relief	N/A	900	900	865	867	Topock
LOCAL TRANS - NORTH										
Meter Station	Concord	NGO	Concord from SP3	Monitor	8	175	175	170	170	Diablo/Con
Meter Station	Concord	NGO	Concord from SP3	Monitor	9	175	175	170	170	Diablo/Con
Meter Station	Vine Hill	NGO	Concord/PH from SP3	Monitor	10	175	175	170	170	Diablo/Con
Meter Station	Vine Hill	NGO	Concord/PH from SP3	Monitor	11	175	175	170	170	Diablo/Con
Regulator Station	Foster-Wheeler	NGO	FW Cogen from L-2	Monitor	5	348	348	338	338	Diablo/Con
Regulator Station	Foster-Wheeler	NGO	FW Cogen from L-2	Monitor	6	348	348	338	338	Diablo/Con
Regulator Station	Port Costa	NGO	Port Costa Mtr Sta from SP3	Monitor	5	325	325	315	338	East Bay-N
Regulator Station	Port Costa	NGO	Port Costa Mtr Sta from SP3	Monitor	6	325	325	315	338	East Bay-N
Station	Crockett	NGO	C&H Sugar Tap From L-105B/21H	Monitor	3	260	260	250	250	East Bay-N
Station	Crockett	NGO	C&H Sugar Tap From L-105B/21H	Monitor	4	260	260	250	250	East Bay-N
Station	Crockett	NGO	Crocket town tap from L-105B/21H	Monitor	11	260	260	250	250	East Bay-N
Station	Crockett	NGO	Crocket town tap from L-105B/21H	Monitor	12	260	260	250	250	East Bay-N
Station	Franklin Canyon	NGO	SP3	Monitor	8	260	260	250	250	East Bay-N
Station	Franklin Canyon	NGO	SP3	Monitor	9	260	260	250	250	East Bay-N
Station	Franklin Canyon	NGO	SP3	Monitor	10	260	260	250	250	East Bay-N
Station	San Pablo	NGO	L-105A from L-105B	Monitor	14	155	155	150	198	East Bay-N
Station	San Pablo	NGO	SP- from L-105B	Monitor	1	155	155	150	150	East Bay-N
Station	Fairway Ave Crossove	NGO	L-105N from L-153	Monitor	2	155	155	150	198	Mission
Station	Manna Blvd	NGO	L-153 Oakland from L-153 Irvington	Monitor	V18 00	251	251	246	246	Mission

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
Compressor Station	Santa Rosa	NGO	L-21 to Crockett from L-21 Willits	Monitor	6	460	460	450	450	North Coast
Compressor Station	Santa Rosa	NGO	L-21 to Willits from L-21 Crockett	Relief (QO)	C	787	787	720	720	North Coast
Compressor Station	Santa Rosa	NGO	L-21 to Willits from L-21 Crockett	Relief (QO)	D	787	787	720	720	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	L-177 (Ryan Slough) from L-177 (Cummings Ck)	Monitor	7	360	360	350	425	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	L-177 (Ryan Slough) from L-177 (Cummings Ck)	Monitor	8	360	360	350	425	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	Distribution Lines from Mixed Gas	Monitor	61	175	175	170	170	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	Distribution Lines from Mixed Gas	Monitor	62	175	175	170	170	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	L-177 from 4" & 6" L-125	Monitor	70	360	360	350	425	North Coast
Meter & Regulator Station	Tompkins Hill	NGO	L-177 from 4" & 6" L-125	Monitor	71	360	360	350	425	North Coast
Pressure Limiting Station	Cummings Creek	NGO	L-177 (Ryan Slough) from L-177 (Gerber)	Monitor	7	440	440	430	430	North Coast
Pressure Limiting Station	Cummings Creek	NGO	L-177 (Ryan Slough) from L-177 (Gerber)	Monitor	8	440	440	430	430	North Coast
Meter & Regulator Station	Johns Manville	NGO	L-209 from L-400	Monitor	3	489	489	479	720	North Valley
Meter & Regulator Station	Johns Manville	NGO	L-209 from L-400	Monitor	6	489	489	479	720	North Valley
Tap	Redding Calaveras	NGO	Calaveras Cement from L-400/401	Monitor	8	610	610	600	600	North Valley
Tap	Redding Calaveras	NGO	Calaveras Cement from L-400/401	Monitor	10	610	610	600	600	North Valley
Mixer Station	Vernalis Field	NGO	24" L-108 from 16" L-108	Relief	H	418	418	408	408	Stockton
Mixer Station	Vernalis Field	NGO	24" L-108 from 16" L-108	Relief	I	418	418	408	408	Stockton
LOCAL TRANS - SOUTH										
Meter Station	Gosford Road	SGO	L-142S from L-300B	Monitor	5	610	610	600	600	Bakersfield
Meter Station	Gosford Road	SGO	L-142S from L-300B	Monitor	9	610	610	600	600	Bakersfield
Junction	Fresno	SGO	L- 118 from L-111S	Monitor	4	410	410	400	400	Fresno
Meter & Regulator Station	Heim Junction	SGO	L-111 N from L-138A	Monitor	9	660	660	650	650	Fresno
Meter & Regulator Station	Heim Junction	SGO	L-111 N from L-138A	Monitor	10	660	660	650	650	Fresno

**CGT OVERPRESSURE PROTECTION DEVICE
MAXIMUM SETTINGS**

DISTRICT / LOCAL TRANSMISSION FACILITY TYPE	LOCATION	AREA	SYSTEM DESCRIPTION	TYPE OF DEVICE	VALVE	SET PRESSURE	MAXIMUM SET PRESSURE	MOP	MAOP	DISTRICT/ DIVISION
LOCAL TRANS - (S) cont										
Station	Elkhorn	SGO	L- 138	Monitor	3	660	660	650	650	Fresno
Station	Elkhorn	SGO	L- 138	Monitor	4	660	660	650	650	Fresno
Tap	Coalinga	SGO	L-164 from L-300A	Monitor	14	508	508	498	498	Fresno
Tap	Coalinga	SGO	L-164 from L-300A	Monitor	16	508	508	498	498	Fresno
Gas Load Center	San Francisco	SGO	L-109&L-132 from L-101	Monitor	101	150	150	145	150	San Francisco
Gas Load Center	San Francisco	SGO	L-109&L-132 from L-101	Monitor	105	150	150	145	150	San Francisco
Station	Tully	SGO	Tully DFM from L-100	Monitor	4	205	205	200	200	San Jose
Station	Tully	SGO	Tully DFM from L-100	Monitor	5	205	205	200	200	San Jose
Station	Tully	SGO	Tully DFM from L-300B	Monitor	10	205	205	200	200	San Jose
Regulator Station	De Francisco	SGO	De Francisco from L-2	Monitor	3	630	630	620	620	Yosemite