

PACIFIC GAS AND ELECTRIC COMPANY
San Bruno Gas Transmission Line Incident
Data Response

PG&E Data Request No.:	NTSB_033-007		
PG&E File Name:	San Bruno GT Line Incident_DR_NTSB_033-007		
Request Date:	November 2, 2010	Requesting Party:	NTSB
Date Sent:	November 17, 2010	Requestor:	Operations (Shori)

QUESTION 7

Please provide copies of all documents/correspondence, through which set-points on regulating and over-pressure protection equipment controlling pressure on Transmission Lines 101, 109 and 132 (for the period 1990 – to the date of this request) were modified.

The requested documents/correspondence includes those that show:¹

ANSWER 7

- How the modified pressure was determined?

Regulating Equipment: Pressure regulating equipment for Lines 101, 109, and 132 exists at Milpitas Terminal at the origination point of each line. Pressure regulating equipment also exists approximately 35 miles further down the pipeline at Lomita Park Station on Line 101, at Sullivan Avenue Station on Line 109, and at Martin Station on Line 132 where the MOP changes from 375 psig on the upstream side of each station to 145 psig on the downstream side of each station. The regulating equipment at all four stations is remotely operated via SCADA from PG&E's Gas Control Room. Remote set point changes at Milpitas Terminal are made to respond to changing overall system inventory and load conditions. In general, as the overall system inventory increases and is projected to be near its higher limit, the regulation equipment set points at Milpitas Terminal would be raised and as the overall system inventory level decreases, the regulation equipment set points at Milpitas Terminal would be lowered. Remote SCADA pressure determination requires that set point controls not exceed the MOP or MPR (minimum pressure required) of the pipelines. Minimum and maximum pressure requirements are primarily governed by Drawing 086868 (Maximum Operating Pressures of Pipelines and Mains Operating at or over 20% SYMS) and the SCADA Alarm Policy. Both documents provide maximum and minimum operating limits and are attachments to NTSB_033-006.

¹ Question subparts are broken out in the bullet-points that follow.

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Overpressure Protection Equipment: Monitor valve set points are governed by PG&E Drawing 086868 (Maximum Operating Pressures of Pipelines and Mains Operating at or over 20% SYMS). Monitor valve set points are not to exceed 10 psig above the established MOP on pipelines operating at 250 psig or greater; monitor valve set points are not to exceed 5 psig above the established MOP on pipelines operating below 250 psig. Monitor protection for the section of the lines between Milpitas Terminal and Lomita Park, Sullivan, and Martin Stations is set at Milpitas Terminal on Valves 16, 20, 26, 28, 37, 39, and 63 at 385 psig. Monitor protection is set at 150 psig at Lomita Park, Sullivan, and Martin Stations for Valves 33.68 and 24, Valves 2 and 13, and Valves 46.59 and 12, respectively.

- Who made that determination?

Regulating Equipment: Remote set point operation of regulating equipment is performed by the Gas System Operator bargaining unit position at the direction of the Sr. Gas Transmission Coordinator (a management position), who is the Gas Control shift supervisor.

Overpressure Protection Equipment: A determination whether to change a monitor valve set point could be made by either the responsible Pipeline Engineer, Gas Control, or the local Field Supervisor. Set point changes for the monitor valves are made by the Milpitas Terminal field maintenance personnel for all four locations. Monitor valve set point changes are coordinated with Gas Control.

- The reason for the pressure modification:

Regulating Equipment: Remote set point changes at Lomita Park, Sullivan, and Martin Station are primarily driven by a maintenance request during normal calibration checks and/or if an equipment failure were to occur requiring Gas Control to bring the bypass run into service. Remote set point changes at Milpitas Terminal are done frequently, as often as daily, to respond to changing overall system inventory load conditions requiring the need to pack or draft the three SF Peninsula mains.

Overpressure Protection Equipment: A determination to change a monitor valve set point is an infrequent event. A set point change may be required during a maintenance check if the “as found” set point has drifted from the desired set point. Additionally, a set point change could be required as part of a scheduled clearance on the pipeline.

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- The date when the pressure modification was implemented:

Regulating Equipment: Remote set point changes from 1/1/2008 through 11/2/2010 for the valves at Milpitas Terminal, Lomita Park, Sullivan, and Martin Stations have been provided in the attached PowerPoint. Remote set point changes at Milpitas Terminal via Valves 17, 21, and 27 occur as frequently as daily. Remote set point changes at Milpitas Terminal via Valves 29 and 62 occur approximately once per month. Remote changes at Lomita Park, Sullivan, and Martin occur approximately once per month as part of routine maintenance. Set point changes prior to 2008 are not available in our historic gas SCADA data.

Overpressure Protection Equipment: Monitor valve set point changes for the period 1999 to 2010 are provided in the attached field maintenance reports. Monitor valve set point changes are infrequent and typically done to true up the “as found” condition with the desired set point.

- The names of the individuals implementing the pressure modification by changing equipment set-points:

Regulating Equipment: The individual capable of implementing a set point change is the Gas System Operator on shift. There are currently 13 Gas System Operators with remote set point password capability. The names of the individual Gas System Operators are available and can be provided if that level of information is required.

Overpressure Protection Equipment: The individual capable of implementing a monitor valve set point change for all four stations is the field technician at Milpitas. The attached maintenance reports include technician initials or identification.

QUESTION 7A

We request that for each of the responses to the questions above, PG&E please provide the name(s) of the individual(s) preparing the response.

ANSWER 7A

Keith Slibsager

MARTIN STATION

1999 – 2010



GAS FACILITIES STATION MAINTENANCE REPORT

GT&D
Rev. 1/1/2010
TD-4430P-02-F02

Make all entries in black or blue permanent ink.

TYPE OF STATION Pressure Reg LOCATION Martin

DATE 6-17-10

FORM TO BE USED AT STATIONS, LRCVS, LOAD CENTERS, AND TERMINALS. REFER TO TD-4430P-02.

YEAR 2010

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / LAN ID	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leak, etc)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER/PILOT	POSITIONER		CONTROLS TRANSDUCERS / TRANSMITTERS		GAS SAVER CIRCUIT		
(reg, mon, relief, other)			Y/N	Y/N	Y/N					check/cal	serviced	check/cal	serviced	check/cal	serviced	check/cal	serviced	
Mon	12	✓	Y	Y	Y	150	150	150	150	6-17-10 OXM2	✓	✓	✓	✓	N/A	N/A	✓	✓
Mon	46.59	✓	Y	Y	Y	150	150	150	150	6-17-10 OXM2	✓	✓	✓	✓	N/A	N/A	✓	✓
Reg	10	✓	Y	Y	Y	140	140	140	140	6-17-10 OXM2	✓	✓	✓	✓	N/A	N/A	N/A	N/A
Reg	13	✓	Y	Y	Y	135	135	135	135	6-17-10 OXM2	✓	✓	✓	✓	N/A	N/A	✓	✓

MAIN GAS EQUIPMENT			
FILTER / SEPARATOR / OTHER			COMMENTS
Description	Checked	Replaced	
			N/A

GENERAL STATION CONDITION ISSUES (If not OK, indicate condition found.)	
Fencing & Gates	OK [✓]
Yard/Landscaping	OK [✓]
Piping & Valves	OK [] ? Surface Rust
Piping Atm. Corrosion	OK [] ? Need some attention
Building/Cabinet	OK [✓] N/A []
Vaults	OK [✓] N/A []

Diana [Signature]
6-21-10

NOTES:

- 1) USE THIS FORM WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF, AND/OR PRESSURE MONITORING EQUIPMENT.
- 2) RETAIN THIS FORM FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S/DIVISION'S HISTORY FILE.
- 3) CONTROL VALVES WITH MULTIPLE FUNCTIONS (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL) MUST HAVE A SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
- 4) THE APPROPRIATE COLUMNS MUST BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED MUST BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
- 5) ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS MUST BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

PRESSURE TRANSMITTERS MARTIN STATION

TRANSUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	100	200	0	100	200	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-14	1.0007	3.0062	5.0034	1.0007	3.0031	5.0004	6-17-10 OKM2
PT-18	1.0018	3.0046	5.0095	.9992	3.0001	5.0007	6-17-10 OKM2
TRANSUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	150	300	0	150	300	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-11	1.0016	3.0031	5.0055	.9983	2.9985	5.0004	6-17-10 OKM2
TRANSUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	250	500	0	250	500	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-30	.9995	2.9931	5.0007	.9995	2.9952	5.0007	6-17-10 OKM2

F4432B
TRANSUCERS



GAS STATION FACILITIES MAINTENANCE REPORT

Make all entries in black or blue permanent ink.

GT&D
Rev. 1/1/2010
TD-4430P-02-F02

TYPE OF STATION Pressure Regulating

LOCATION Martin

DATE 6-17-10

GAS SUPPLIES																	
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS		DATE / LAN ID		3rd Stg REGS / RELIEFS				GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate
					Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left	
1	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left	
D-1	X	X															OXM1 6-17-10 DATE / LAN ID 6-17-2010 GSWD X
F-1A				X													
F-1B			X														
PCV-20A							95	100									
PCV-20B											20	20					
PCV-20C																	
PCV-20D											20	19					
PSV-21A							110	110									
PSV-21B											25	25					
PSV-21C							110	110									
PSV-21D											25	25					
PSL-22					X		64.1	60.0									

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
OK	OK	OK

TRANSDUCERS	As Found			As Left			DATE / LAN ID
	Operating Pressure (psig)						
	0%	50%	100%	0%	50%	100%	
3-POINT CHECK							

REMARKS:

REVIEWED BY: *[Signature]*

LAN ID: DLBK

DATE: 6-21-10



GAS STATION FACILITIES MAINTENANCE REPORT

Make all entries in black or blue permanent ink.

GT&D
Rev. 1/1/2010
TD-4430P-02-F02

TYPE OF STATION Pressure Regulating

LOCATION Martin

DATE 6-17-10

GAS SUPPLIES																		
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS		DATE / LAN ID		3rd Stg REGS / RELIEFS				GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
	2	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found		As Left
D-2	X	X																OXM 1 6-17-10 DATE / LAN ID 6/17/2010 rscabel
F-2			X	X														
PCV-25A							95	100				20	19					
PCV-25B							100	95				19	20					
PCV-25C							111	110				24	25					
PCV-25D							110	110				27	25					
PSV-26A																		
PSV-26B																		
PSV-26C																		
PSV-26D																		
PSL-27						✓	59.7	60.0										

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
OK	OK	OK

TRANSDUCERS	As Found			As Left			DATE / LAN ID
	Operating Pressure (psig)						
	0%	50%	100%	0%	50%	100%	
3-POINT CHECK							

REMARKS:

REVIEWED BY:

LAN ID: DLBK

DATE: 6-21-10

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg LOCATION Marlin
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE 6-3-09
YEAR 2009

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE/INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPPOINT	ACTUAL CONTROL POINT	SETPPOINT	ACTUAL CONTROL POINT		CONTROLLER/PILOT		POSTONER		CONTROL SYSTEM/ TRANSDUCERS		GAS SAVER CIRCUIT	
(reg, mon, rtd, other)			Y/N	Y/N	Y/N						check/cal	serv/ood	check/cal	serv/ood	check/cal	serv/ood	check/cal	serv/ood
Mon	12	ok	Y	Y	Y	150	149.3	150	149.3	6-3-09 WJM	Cal		Cal		N/A		✓	
Mon	46.5B	ok	Y	Y	Y	150	150.8	150	150.8	6-3-09 WJM	Cal		Cal		N/A		✓	
Reg	10	OK	Y	Y	Y	140	140.5	140	140.5	6-3-09 URB	Cal		✓		N/A		N/A	
Reg	13	OK	Y	Y	Y	140	141	140	141	6-3-09 URB	Cal		Cal		N/A		✓	

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER			Checked	
Description	Checked	Replaced		
				N/A

GENERAL STATION CONDITION ISSUES (If not OK, Indicate condition found.)	
Fencing & Gates	OK [✓]
Yard/Landscaping	OK [✓]
Piping & Valves	OK [✓]
Piping Atm. Corrosion	OK [✓]
Building/Cabinet	OK [✓] N/A []
Vaults	OK [✓] N/A []

on fountain 6-11-09

NOTES:

- 1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
- 2) THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
- 3) CONTROL VALVES WITH MULTIPLE FUNCTIONS (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE A SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
- 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
- 5) ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

**CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT**

TYPE OF STATION Pressure Reg LOCATION Martin

DATE 2009

GAS SUPPLIES																				
G.S. NUMBER		DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL		GENERAL CONDITION (LEAKS, ETC.)
1		Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left			
D-1		✓																	6/1	UXB
F-1A				✓															6/1	UXB
F-1B				✓															6/1	UXB
PCV-20A						✓		94.3	95.0										6/1	UXB
PCV-20B										✓		20.0	20.0						6/1	UXB
PCV-20C						✓		100	100										6/1	UXB
PCV-20D										✓		20.0	20.0						6/1	UXB
PSV-21A						✓		108.7	108.7										6/1	UXB
PSV-21B										✓		24.5	24.5						6/1	UXB
PSV-21C						✓		108	108										6/1	UXB
PSV-21D										✓		24.3	24.3						6/1	UXB
PSL-22						✓		60	60										6/1	UXB

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
✓	NA	✓

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transduc or	Actual	Transducer	Transdu	Actual	Transducer	
3-POINT CHECK							
NA							

REMARKS: _____

REVIEWED BY: DM Prinder
6-11-09

**CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT**

TYPE OF STATION Pressure Reg LOCATION Martin

DATE 2009

GAS SUPPLIES																			
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
	2	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found			As Left
D-2	✓																	6/8	UXB3
F-2				✓														6/8	UXB3
PCV-25A					✓		96.5	95										6/8	UXB3
PCV-25B									✓		20	20						6/8	UXB3
PCV-25C					✓		99.5	100										6/8	UXB3
PCV-25D									✓		20.3	20						6/8	UXB3
PSV-26A					✓		110	110										6/8	UXB3
PSV-26B									✓		25	25						6/8	UXB3
PSV-26C					✓		108	108										6/8	UXB3
PSV-26D									✓		25	25						6/8	UXB3
PSL-27					✓		60	60										6/8	UXB3

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
NA		

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
3-POINT CHECK							
See attached calibration sheet							

REMARKS: _____

REVIEWED BY: DM Rindler
6-11-09

PRESSURE TRANSMITTERS MARTIN STATION

TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	100	200	0	100	200	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-14	1.0 V	2.99V	5.0V	1.0V	2.99V	5.0V	6/8/09 WCB 3
PT-18	.994V	3.0V	5.0V	1.0V	3.0V	5.0V	6/11/09 WCB 3
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	150	300	0	150	300	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-11	1.00V	2.99V	5.0V	1.00V	2.99V	5.0V	6/8/09 WCB 3
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	250	500	0	250	500	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-30	1.0V	3.0V	5.0V	1.0V	3.0V	5.0V	6/11/09 WCB 3

F4432B
TRANSDUCERS

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg LOCATION Martin
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE June
YEAR 2008

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE <small>(reg, mon, relief, other)</small>	VALVE NUMBER	GENERAL CONDITION <small>(Leaks, etc.)</small>	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER / PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT	
			Y/N	Y/N	Y/N						check/cal	serviced	check/cal	serviced	check/cal	serviced	check/cal	serviced
Mon	12	OK	Y	Y	Y	150	149.5	150	149.5	6-25 Wm	Cal		Cal		N/A			✓
Mon	48.69	OK	Y	Y	Y	150	148.9	150	148.9	6-26 Wm	Cal		Cal		N/A			✓
Reg	10	OK	Y	Y	Y	140	140	140	140	6-25 Wm	Cal		✓		N/A			N/A
Reg	13	OK	Y	Y	Y	140	140	140	140	6-25 Wm	Cal		Cal		N/A			N/A

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER			Checked	
Description	Checked	Replaced		
				N/A

GENERAL STATION CONDITION ISSUES (if not OK, indicate condition found.)	
Fencing & Gates	OK [✓]
Yard/Landscaping	OK [✓]
Piping & Valves	OK [✓]
Piping Atm. Corrosion	OK [✓]
Building/Cabinet	OK [✓] N/A []
Vaults	OK [] N/A []

- NOTES:
- 1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
 - 2) THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
 - 3) CONTROL VALVES WITH MULTIPLE FUNCTIONS (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE A SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
 - 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
 - 5) ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

Valve 13 positioner had Rebuilt and calibrated tested in control Wm

*Wm Painter
7-26-08*

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg LOCATION Martin

DATE June 2008

GAS SUPPLIES																		GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL		
2	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left			
D-2	✓																	6-26	Wm
F-2A+B			✓															6-28	Wm
PCV-25A					✓		95.6	95										6-28	Wm
PCV-25B									✓	19.8	20							6-28	Wm
PCV-25C					✓		98.1	100										6-28	Wm
PCV-25D									✓	20.4	20							6-28	Wm
PSV-26A					✓		110	110										6-28	Wm
PSV-26B									✓	25	25							6-28	Wm
PSV-26C					✓		108	108										6-28	Wm
PSV-26D									✓	25	25							6-28	Wm
PSL-27					✓		60#	60#										6-28	Wm

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
✓	N/A	✓

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
3-POINT CHECK							
See attached calibration sheet							
See forms							

REMARKS: _____

REVIEWED BY: M. Maister
7-26-08

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg

LOCATION Marlin

DATE June
2008

GAS SUPPLIES

G.S. NUMBER 1	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
	Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found			As Left
		Setpoint (psig)	Setpoint (psig)	Setpoint (psig)	Setpoint (psig)	Setpoint (psig)	Setpoint (psig)	Setpoint (psig)	Setpoint (psig)										
D-1	✓																	6-28 WJM	
F-1A	WJM		✓															6-28 WJM	
F-1B	WJM		✓															6-28 WJM	
PCV-20A					✓		95.6	95										6-28 WJM	
PCV-20B									✓		19.3	20						6-28 WJM	
PCV-20C					✓		97.8	100										6-28 WJM	
PCV-20D									✓		20	20						6-28 WJM	
PSV-21A					✓		109	109										6-28 WJM	
PSV-21B									✓		24.8	24.8						6-28 WJM	
PSV-21C					✓		108	108										6-28 WJM	
PSV-21D									✓		24.5	24.5						6-28 WJM	
PSL-22					✓		60 #	60 #										6-28 WJM	

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
NA		

TRANSDUCERS 3-POINT CHECK	As Found		As Left		DATE / INITIAL
	0 psig	Operating Pressure	0 psig	Operating Pressure	
	Transducer	Actual	Transducer	Actual	
NA					

REMARKS:

REVIEWED BY:

DM Painter
7-26-08

PRESSURE TRANSMITTERS MARTIN STATION

TRANSDUCERS 3-POINT CHECK	As Found			As Left			June DATE / 08 INITIAL Wm
	0	100	200	0	100	200	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-14	1.000 VDC	3.002 VDC	5.001 VDC	1.000 VDC	3.002 VDC	5.001 VDC	Wm 6-26
PT-18	1.012 VDC	3.024 VDC	5.037 VDC	1.001 VDC	3.008 VDC	5.002 VDC	Wm 6-26
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	150	300	0	150	300	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-11	1.000 VDC	2.998 VDC	5.003 VDC	1.000 VDC	2.998 VDC	5.003 VDC	Wm 6-26
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	250	500	0	250	500	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-30	.999 VDC	2.994 VDC	4.999	.999 VDC	2.994 VDC	5.000 VDC	Wm 6-26

F4432B
TRANSDUCERS

**CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT**

TYPE OF STATION Pressure Reg LOCATION Martin
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE _____
YEAR 2007

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / INITIALS		CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE <small>(reg, mon, rate/other)</small>	VALVE NUMBER	GENERAL CONDITION <small>(Leaks, etc.)</small>	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE / INITIALS	CONTROLLER / PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT		
			Y/N	Y/N	Y/N						check/cal	serviced	check/cal	serviced	check/cal	serviced	check/cal	serviced	
Mon	12	✓	Y	Y	Y	150	149.9	150	149	6/19 mm	Cal		Cal		N/A		✓		
Mon	46.59	✓	Y	Y	Y	150	148	150	148	6/19 mm	Cal		Cal		N/A		✓		
Reg	10	✓	Y	Y	Y	140	140	140	140	6/19 mm	Cal		Cal		N/A		R/A		
Reg	13	✓	Y	Y	Y	140	140	140	140	6/19 V.018	Cal		Cal		N/A		✓		

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER			Checked	
Description	Checked	Replaced		
N/A				

GENERAL STATION CONDITION ISSUES (if not OK, indicate condition found.)	
Fencing & Gates	OK [✓]
Yard/Landscaping	OK [✓]
Piping & Valves	OK [✓]
Piping Atm. Corrosion	OK [✓]
Building/Cabinet	OK [✓] N/A []
Vaults	OK [✓] N/A []

DM Martin 7-3-07

- NOTES:
- 1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
 - 2) THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
 - 3) CONTROL VALVES WITH MULTIPLE FUNCTIONS (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE A SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
 - 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
 - 5) ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg

LOCATION Marlin

DATE 2007

GAS SUPPLIES																				
G.S. NUMBER		DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL		GENERAL CONDITION (LEAKS, ETC.)
1		Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left			
D-1		✓																6/18	VXB3	
F-1A				✓														6/18	VXB3	
F-1B				✓														6/18	VXB3	
PCV-20A						✓		94.3	95									6/18	VXB3	
PCV-20B										✓		20	20					6/18	VXB3	
PCV-20C						✓		100	100									6/18	VXB3	
PCV-20D										✓		19.2	20					6/18	VXB3	
PSV-21A						✓		112	108									6/18	VXB3	
PSV-21B										✓		25	25					6/18	VXB3	
PSV-21C						✓		109	109									6/18	VXB3	
PSV-21D										✓		24	24					6/18	VXB3	
PSL-22																		6/18	VXB3	SET @ 60 psig

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
✓		

TRANSDUCERS	As Found				As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure			
	Transducer	Actual	Transducer	Transducer	Actual	Transducer		
3-POINT CHECK								
SEE ATTACHED CALIBRATION SHEET								

REMARKS: PERFORM RTU CHECK 6/19/07

REVIEWED BY: DMaintor
7-3-07

PRESSURE TRANSMITTERS MARTIN STATION

2007

TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	100	200	0	100	200	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-14	1.999	3.0	5.000	1.999	3.0	5.000	6/19 URB
PT-18	1.002	2.001	5.001	1.002	2.999	5.000	6/19 URB
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	150	300	0	150	300	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-11	1.001	2.998	5.000	1.001	2.998	5.000	6/19 URB
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0	250	500	0	250	500	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts							
PT-30	1.003	3.002	5.001	1.001	2.991	5.000	6/19 URB

F4432B
TRANSDUCERS

**CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT**

TYPE OF STATION Pressure Reg

LOCATION Martin

DATE 2007

GAS SUPPLIES																			
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
	2	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found			As Left
D-2	✓																	6/18	VXB
F-2				✓														6/18	VXB
PCV-25A					✓		95	95										6/18	VXB
PCV-25B										✓		20	20					6/18	VXB
PCV-25C					✓		100	100										6/18	VXB
PCV-25D										✓		20	20					6/18	VXB
PSV-26A					✓		110	110										6/18	VXB
PSV-26B										✓		25	25					6/18	VXB
PSV-26C					✓		108	108										6/18	VXB
PSV-26D										✓		24	24					6/18	VXB
PSL-27																		6/18	VXB

SET @ 58

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
3-POINT CHECK							
See attached calibration sheet							

REMARKS:

REVIEWED BY:

[Signature]
7-3-07

**CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT**

TYPE OF STATION Pressure Reg LOCATION Martin

DATE _____

FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

YEAR 2006

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER / PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT	
(reg, mon, relief, other)			Y/N	Y/N	Y/N						check/cal	serv/ood	check/cal	serv/ood	check/cal	serv/ood	check/cal	serv/ood
Mon	12	OK	Y	Y	Y	150	150	150	150	6-28-06 <i>lmm</i>	CAL		CAL		N/A	N/A	✓	
Mon	46.59	OK	Y	Y	Y	150	150	150	150	6/6/06 <i>VXB</i>	CAL		CAL		N/A	N/A	✓	
Reg	10	OK	Y	Y	Y	140	140	140	140	6/7/06 <i>VXB</i>	CHK		CHK		N/A	N/A		
Reg	13	OK	Y	Y	Y	139	140	139	140	6-28-06 <i>lmm</i>	CAL		CHK		N/A	N/A	✓	

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER			Checked	
Description	Checked	Replaced		
N/A				

GENERAL STATION CONDITION ISSUES (If not OK, indicate condition found.)	
Fencing & Gates	OK [✓]
Yard/Landscaping	OK [✓]
Piping & Valves	OK [✓]
Piping Atm. Corrosion	OK [✓]
Building/Cabinet	OK [] N/A [✓]
Vaults	OK [✓] N/A []

M. J. Jander 7-3-06

- NOTES:
- THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
 - THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
 - CONTROL VALVES WITH MULTIPLE FUNCTIONS (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE A SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
 - THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
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CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg

LOCATION Martin

DATE 6-7-06

GAS SUPPLIES																			
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
	2	Check	Replace	Check	Replace	Check	Service	SETPOINT (psig)		Check	Service	SETPOINT (psig)		Check	Service	SETPOINT (psig)			
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left			
D-2	✓																	6-7	wm
F-2			✓															6-7	wm
PCV-25A					✓		96	95										6-7	wm
PCV-25B									✓	20.4	20.4	20						6-7	wm
PCV-25C					✓		99	100										6-7	wm
PCV-25D									✓		20.8	20						6-7	wm
PSV-26A					✓		110	110										6-7	wm
PSV-26B									✓		25	25						6-7	wm
PSV-26C					✓		108	108										6-7	wm
PSV-26D									✓		24	24						6-7	wm
PSL-27																		6-7	wm Set 58#

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
✓		

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
3-POINT CHECK							
See attached calibration sheet							

REMARKS: RTU Performance Check 6-12-06 wm

REVIEWED BY: DM [Signature]
7-3-06

0-20 MA

4-20 MA - Span 16 MA PRESSURE TRANSMITTERS MARTIN STATION

TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0#	100#	200#	0"	100"	200"	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
141.9 # PT-14	4.0 MA	12.0 MA	20.01 MA	4.0 MA	12.0 MA	20.01 MA	WM 6-7-06
137.6 # PT-18	4.0 MA	12.0 MA	20.0 MA	4.0 MA	12.0 MA	20.0 MA	WM 6-7-06
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0"	150"	300"	0"	150"	300"	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
1291.2 # PT-11	4.0 MA	12.01 MA	20.03 MA	4.0 MA	12.0 MA	20.01 MA	WM 6-7-06
TRANSDUCERS 3-POINT CHECK	As Found			As Left			DATE / INITIAL
	0"	250"	500"	0"	250"	500"	
	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
363.7 # PT-30	4.0 MA	11.99 MA	20. MA	4.0 MA	11.99 MA	20 MA	WM 6-7-06

DM Painter

F4432B
TRANSDUCERS

**CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT**

TYPE OF STATION Pressure Reg

LOCATION Martin

DATE JUNE 06

GAS SUPPLIES																			GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL		
1							SETPOINT (psig)				SETPOINT (psig)				SETPOINT (psig)				
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left			
D-1	✓																	6/7/06 VXB	
F-1A			✓															6/7/06 VXB	
F-1B			✓															6/7/06 VXB	
PCV-20A					✓		95	95										6/7/06 VXB	
PCV-20B									✓		19.6	20						6/7/06 VXB	
PCV-20C					✓		100	100										6/7/06 VXB	
PCV-20D									✓		19	20						6/7/06 VXB	
PSV-21A					✓		110	110										6/7/06 VXB	
PSV-21B									✓		23	25						6/7/06 VXB	
PSV-21C					✓		109	109										6/7/06 VXB	
PSV-21D									✓		29	28						6/7/06 VXB	
PSL-22																		6/7/06 VXB	

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
3-POINT CHECK							

REMARKS:

REVIEWED BY:

DM Poirier
7-3-06

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg LOCATION Martin
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE 6-22-
YEAR 2005

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER / PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT	
(reg, mon, relief, other)			Y/N	Y/N	Y/N						checked	serviced	checked	serviced	checked	serviced	checked	serviced
Mon	12	✓	Y	Y	Y	150	150	150	150	6-22-05 Wm	Cal		Cal		N/A		✓	
Mon	46.59	✓	Y	Y	Y	150	150	150	150	6-23-05 VXB	Cal		Cal		N/A		✓	
Reg	10	✓	Y	Y	Y	139	139	139	139	6-22-05 Wm	✓		✓		N/A		N/A	
Reg	13	✓	Y	Y	Y	139	138.4	139	138.4	6-23-05 VXB	Cal		✓		N/A		✓	
MON	46.59	CLASS "A"	INSPECTION		CONTROLLED AT 150 PSI				6/28/05 VXB									
MON	12	CLASS "A"	INSPECTION		CONTROLLED AT 150 PSI				6/28/05 VXB									

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER				
Description	Checked	Replaced		
N/A				

GENERAL STATION CONDITION ISSUES (If not OK, indicate condition found.)	
Fencing & Gates	OK [X]
Yard/Landscaping	OK [X]
Piping & Valves	OK [X]
Piping Atm. Corrosion	OK [X]
Building/Cabinet	OK [] N/A [] Building Corrosion
Vaults	OK [X] N/A []

NOTES:

- THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
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- THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALIZED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
- ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

Building Roof Repair Turned Over To Building Services For Est. DM rwinter 7-13-05

**CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT**

TYPE OF STATION Pressure Reg LOCATION Martin

DATE 6/21/05

GAS SUPPLIES																			
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
	1	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found			As Left
D-1	✓																	6/21	VXB
F-1A			✓															6/21	VXB
F-1B			✓															6/21	VXB
PCV-20A					✓			100	95									6/21	VXB
PCV-20B										✓		20.0	20					6/21	VXB
PCV-20C					✓			99.2	100									6/21	VXB
PCV-20D										✓		19.8	20					6/21	VXB
PSV-21A					✓			115	109									6/21	VXB
PSV-21B										✓		25	25					6/21	VXB
PSV-21C					✓			112	108.8									6/21	VXB
PSV-21D										✓		27.0	25.0					6/21	VXB

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
✓		

TRANSDUCERS 2-POINT CHECK	As Found		As Left			DATE / INITIAL	
	0 psig	Operating Pressure	0 psig	Operating Pressure			
	Transducer	Actual	Transducer	Actual	Transducer		
PSL-22	0	60	60	0	60	60	6-21-05
PSL-27	0	60	60	0	60	60	6-21-05

REMARKS: check RTU 6-15-05 wcm

REVIEWED BY: Dmizinda
7-13-05

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg

LOCATION Marlin

DATE JUNE 2005

GAS SUPPLIES																			
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL		GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate
	2	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found			
D-2	/																	6/21	VXS
F-2			/															6/21	VXS
PCV-25A					/			99	100									6/21	VXS
PCV-25B										/		19.8	20					6/21	VXS
PCV-25C					/			97	95									6/21	VXS
PCV-25D										/		20.5	20					6/21	VXS
PSV-26A					/			114	109.6									6/21	VXS
PSV-26B										/		24.1	24.1					6/21	VXS
PSV-26C					/			109	109									6/21	VXS
PSV-26D										/		24.3	24.3					6/21	VXS

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
2-POINT CHECK							
PT-11	0	139.9	139.3	0	139.9	139.6	6-22-05 Wm
PT-14	0	139.8	139.8	0	139.8	139.8	6-22-05 Wm
PT-18	0	137.7	137.3	0	137.9	138.1	6-22-05 Wm
#1 PT-30	0	363	307	0	363	327	6-22-05 Wm

REMARKS: #1 PT-30 unable to calibrate need new transmitter Range 4-20 MA - 0 to 500 lbs
#2 Need New Snapping Relay for U-13 Normally Open (Fairchild .5 to 30) 2441321

#1 Transmitter Received - Scheduled 11-05 REVIEWED BY: DM Painter
#2 Relay Received Scheduled WR 91396 Completed 7-13-05
11-05
WR 95518 Completed 5-26-06

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Regulation LOCATION Martin
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE 6-9
YEAR 2004

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS								
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER/PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT		
(reg. man. refer other)			Y/N	Y/N	Y/N						checked	serviced	checked	serviced	checked	serviced	checked	serviced	
Reg 13	13	OK	N	Y	Y	138	138.3	138	138.2	6-9-04 Com	Cal		Cal		N/A				
Man	46.59	OK	N	Y	Y	150	150	150	150	6-9-04 Com	Cal		Cal		N/A				
REG	12	✓	Y	Y	Y	150	150	150	150	6/9/04 vxd	Cal		Cal		N/A				
REG	10	✓	Y	Y	Y	138	138.5	138	138.5	6/9/04 vxd	Cal		Cal		N/A				

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER				
Description	Checked	Replaced		

GENERAL STATION CONDITION ISSUES (if not OK, indicate condition found.)	
Fencing & Gates	OK []
Yard/Landscaping	OK []
Piping & Valves	OK []
Piping Atm. Corrosion	OK []
Building/Cabinet	OK [] N/A []
Vaults	OK [] N/A []

- NOTES:
- 1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
 - 2) THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
 - 3) CONTROL VALVES WITH MULTIPLE FUNCTIONS (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE A SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
 - 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
 - 5) ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

dm Painter
6-23-04

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION PRESSURE REGULATING LOCATION MARTIN STATION

DATE JUNE 2004

GAS SUPPLIES																				
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL		GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
	Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found				As Left
PCV-20A					✓		95	100										6/10	VXB3	CLASS B
PCV-20C					✓		98	95										6/10	VXB3	CLASS B
PCV-20B									✓		18	20						6/10	VXB3	CLASS B
PCV-20D									✓		20	20						6/10	VXB3	CLASS B
PSV-21D									✓		22	22						6/10	VXB3	
PSV-21A					✓		108	108										6/10	VXB3	
PSV-21C					✓		110	110										6/10	VXB3	
PSV-21B									✓		23	23						6/10	VXB3	
D-1	✓																	6/24	VXB3	
F-1A/F-1B			✓															6/24	VXB3	

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transd	Actual	Transducer	
PSL-22	0	60	60	0	60	60	6/30/04 VXB3
PSL-27	0	60	60	0	60	60	6/30/04 VXB3

REMARKS:

REVIEWED BY:

DM Painter
6-23-04

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg LOCATION Martin

DATE 6-10-04

GAS SUPPLIES																				
G.S. NUMBER # <u>2</u>	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate		
					100/95		SETPOINT (psig)		1 st /20		SETPOINT (psig)				SETPOINT (psig)					
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left				
PCV-25A						✓	94.7	95										6-10	Wm	Class B inspection
PCV-25C						✓	100.5	100										6-10	Wm	Class B inspection
PCV-25B									✓		20	20						6-10	Wm	Class B inspection
PCV-25D									✓		19.4	19.4						6-10	Wm	Class B inspection
PSV-26C					✓		107	107										6-10	Wm	
PSV-26A					✓		108	108										6-10	Wm	
PSV-26B									✓		23.5	23.5						6-10	Wm	
PSV-26D									✓		24	24						6-10	Wm	
D-2	✓																	6/24	Wm	
F-2			✓															6/24	Wm	

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS 2-POINT CHECK	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
PT-30	0	354	359	0	357	359	6-18-04 Wm
PT-18	0	136	137	0	136	137	6-18-04 Wm
PT-11	0	137	138	0	137	137	6-18-04 Wm
PT-14	0	136	136	0	136	136	6-18-04 Wm

REMARKS: Monitor V-46.59 Performed class A inspection lowered mount set point to 140th raised reg set point to 145th. Returned set points back to normal Wm 10/08
Monitor V-12 Performed class A inspection same as V-46.59. Returned station to normal

REVIEWED BY: Wm Painter
6-23-04

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION PRESSURE REGULATING LOCATION MARTIN
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE 6/12/03
YEAR _____

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER/PILOT	POSITIONER		CONTROL SYSTEM TRANSDUCERS		GAS SAVER CIRCUIT		
(reg, mod, relief, other)			Y/N	Y/N	Y/N						check/cal	serviced	check/cal	serviced	check/cal	serviced	check/cal	serviced
REG	V-10	OK	Y	Y	Y	137.9	138.1	137.9	138	WDBA/6-12-03	CM		✓		N/A	N/A	N/A	N/A
Mon	V-46.59	OK	Y	Y	Y	148.5	148.1	148.5	148.1	WDBA/6-12-03	Cal		Cal	N/A	N/A	Cal		
REL	V-13	corrosion	Y	Y	Y	137.2	137.4	137.2	137.4	6/12/03 UXD3	CAL		✓	N/A	N/A	✓	✓	
Mon	V-12	OK	Y	Y	Y	148	148	148	148	6-20/03 LDM	Cal		Cal	N/A	N/A	✓		

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER				
Description	Checked	Replaced		

GENERAL STATION CONDITION ISSUES (If not OK, indicate condition found.)	
Fencing & Gates	OK [X]
Yard/Landscaping	OK [X]
Piping & Valves	OK [X]
Piping Atm. Corrosion	OK [X]
Building/Cabinet	OK [X] N/A []
Vaults	OK [X] N/A []

NOTES:

- 1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
- 2) THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
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- 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
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WDBA
6-18-03

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION PRESSURE REGULATING

LOCATION MARTIN STATION

DATE 6-13-03

GAS SUPPLIES

G.S. NUMBER 1 ¹	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
					SETPOINT (psig)		SETPOINT (psig)		SETPOINT (psig)										
	Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found			As Left
D-1	✓																	6-13 LDM	
FIA/EIB			✓															6-13 LDM	
PCV-20A					✓		95	95										6-13 LDM	
PCV-20C					✓		98	100										6-13 LDM	
PCV-20B									✓		20	20						6-13 LDM	
PCV-20D									✓		20	20						6-13 LDM	
PSV-21A					✓		108	108										6-13 LDM	
PSV-21C					✓		110	110										6-13 LDM	
PSV-21B									✓		23	23						6-13 LDM	
PSV-21D									✓		22	22						6-13 LDM	

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS 2-POINT CHECK	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
PSL-22	0	60	60	0	60	60	
PT-14	0	135.7	135.5	0	135.7	135.5	6/12/03 VXB3
PT-30	0	362.3	362.8	0	362.7	362.8	6/12/03 VXB3

REMARKS:

REVIEWED BY:

DM Painter
6-18-03

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION PRESSURE REGULATING LOCATION MARTIN STATION DATE 6/11/03

GAS SUPPLIES																		GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	
	Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found		
2 ¹ D-2	✓																	
F2A/F2B				✓														6/11/03 VXB3
PCV-25A					✓		96	95										6/11/03 VXB3
PCV-25C					✓		100	100										6/11/03 VXB3
PCV-25D										✓		20	20					6/11/03 VXB3
PCV-25B										✓		20	20					6/11/03 VXB3
PSV-26A					✓		108	108										6/11/03 VXB3
PSV-26C					✓		110	110										6/11/03 VXB3
PSV-26B										✓		23	23					6/11/03 VXB3
PSV-26D										✓		25	25					6/11/03 VXB3

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS 2-POINT CHECK	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transd	Actual	Transducer	
PSL-27	0	60	60	0	60	60	6/11/03 VXB3
PT-11	0	138.6	138.2	0	138.6	138.2	6/12/03 VXB3
PT-18	0	138.4	138.3	0	138.4	138.3	6/12/03 VXB3

REMARKS: _____

REVIEWED BY: DM [Signature]
6-18-03

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION REGULATING

LOCATION MARTIN STATION

DATE 6/5/02

GAS SUPPLIES																			
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
					90#		SETPOINT (psig)		20#		SETPOINT (psig)				SETPOINT (psig)				
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left			
D-2	✓																	6/5/02	UXB3
F-2			✓															6/5/02	UXB3
PCV-25A					✓		95	95										6/5/02	UXB3
PCV-25C					✓		100	100										6/5/02	UXB3
PCV-25D									✓		20	20						6/5/02	UXB3
PCV-25B									✓		20	20						6/5/02	UXB3
PSV-26A					✓		108	108										6/5/02	UXB3
PSV-26C					✓		110	110										6/5/02	UXB3
PSV-26B									✓		22	22						6/5/02	UXB3
PSV-26D									✓		24.8	24.8						6/5/02	UXB3

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS 2-POINT CHECK	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
PSL-27	0	60	60	0	60	65	6/5/02 UXB3

REMARKS:

REVIEWED BY: M. West / 6-10-02

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION REGULATING LOCATION MARTIN STATION DATE 6/5/02

GAS SUPPLIES																	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate				
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS					DATE/INITIAL			
#1	Check	Replace	Check	Replace	90#	SETPOINT (psig)		20#	SETPOINT (psig)		Check	Service	As Found	As Left	Check	Service			As Found	As Left	
PCV-20D									✓		20	20								6/5/02	VKB3
PSV-21A					✓	108	108													6/5/02	VKB3
PSV-21C					✓	110	110													6/5/02	VKB3
PSV-21B									✓	✓	27	23								6/5/02	VKB3
PSV-21D									✓		22	22								6/5/02	VKB3
PCV-20C					✓	102	100													6/7/02	VKB3
PCV-20A					✓	98	95													6/7/02	VKB3
PCV-20B									✓		18	20								6/7/02	VKB3
D-1	✓																			6/7/02	VKB3
FIYF-1B			✓																	6/7/02	VKB3

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS 2-POINT CHECK	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	
PSL-22	0	60	60	0	60	60	6/5/02 VKB3

REMARKS: _____

REVIEWED BY: M. W. A. / 6/10/02

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Regulator LOCATION Martin
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE June
YEAR 2002

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE/INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER / PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT	
			Y/N	Y/N	Y/N					check/cal	serviced	check/cal	serviced	check/cal	serviced	check/cal	serviced	
(reg. man. relief/cohen)																		
Mon	12	✓	Y	Y	Y	150	150	150	150	Wm 6-7-02	Cal		Cal		N/A	✓		
Reg	13	✓	Y	Y	Y	138	138	138	138	Wm 6-7-02	Cal		Cal		N/A	✓		
Reg	10	✓	Y	Y	Y	138	138	138	138	Wm 6-7-02	Cal		Cal		N/A	N/A		
Mch	46.59	✓	Y	Y	Y	150	150	150	150	Wm 6-7-02	Cal		Cal		N/A	✓		

MAIN GAS EQUIPMENT			
FILTER / SEPARATOR / OTHER			COMMENTS
Description	Checked	Replaced	

GENERAL STATION CONDITION (ISSUES (If not OK, Indicate condition found.))	
Fencing & Gates	OK [] Needs Repaired
Yard/Landscaping	OK [✓]
Piping & Valves	OK [✓]
Piping Atm. Corrosion	OK [✓]
Building/Cabinet	OK [✓] N/A []
Vaults	OK [✓] N/A []

NOTES:

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- ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Regulating LOCATION Martin St. S.F. DATE 6-19-01

GAS SUPPLIES																		
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate
	Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found		
<u>2</u>																		
<u>D-2</u>	✓																	6-19 <u>Wm</u>
<u>F-2 ADB</u>				✓														6-19 <u>Wm</u>
<u>25-A 95</u>					✓			<u>93.6[#]</u>	<u>95[#]</u>									6-19 <u>Wm</u>
<u>25-C 100</u>					✓			<u>99.2</u>	<u>100[#]</u>									6-19 <u>Wm</u>
<u>26A 110</u>					✓			<u>110[#]</u>	<u>110[#]</u>									6-19 <u>Wm</u>
<u>26-C 110</u>					✓			<u>110[#]</u>	<u>110[#]</u>									6-19 <u>Wm</u>
<u>25-B 20</u>										✓		<u>19.8[#]</u>	<u>20[#]</u>					6-19 <u>Wm</u>
<u>25-D 20</u>										✓		<u>19.4[#]</u>	<u>20[#]</u>					6-19 <u>Wm</u>
<u>26-B 30</u>										✓		<u>30[#]</u>	<u>30[#]</u>					6-19 <u>Wm</u>
<u>26-D 20</u>										✓		<u>30[#]</u>	<u>30[#]</u>					6-19 <u>Wm</u>

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check

TRANSDUCERS	Channel	As Found				As Left		DATE / INITIAL
		Operating Pressure		Operating Pressure				
		0 psig	Transducer	0 psig	Transducer			
2-POINT CHECK	RTU	Transducer	Actual	Transducer	Transd	Actual	Transducer	
<u>PT-18</u>	<u>CH-3</u>	<u>0</u>	<u>135.2</u>	<u>135.2</u>	<u>0</u>	<u>135.2</u>	<u>135.2</u>	6-19 <u>Wm</u>
<u>PT-30</u>	<u>CH-0</u>	<u>0</u>	<u>360.8</u>	<u>360.0</u>	<u>0</u>	<u>360.8</u>	<u>360.0</u>	6-19 <u>Wm</u>
<u>PT-21</u>	<u>CH-1</u>	<u>0</u>	<u>135.0</u>	<u>135</u>	<u>0</u>	<u>135</u>	<u>135</u>	6-19 <u>Wm</u>
<u>PT-14</u>	<u>CH-2</u>	<u>0</u>	<u>135</u>	<u>135</u>	<u>0</u>	<u>135</u>	<u>135</u>	6-19 <u>Wm</u>

*Nothing in data Base
CH-3
? Where does this go
L-132 up stream
L-132 Down stream
? " CH-2
? Nothing in data Base*

REMARKS: GAS Dash #2 small corrosion pits and surface rust
PLS-2 checked set a 60[#] Found at 52[#] adjusted to 61[#]

REVIEWED BY M. W. West 6/20/01

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Regulating LOCATION Martin St. S.F. DATE 6-19-01

GAS SUPPLIES																			
G.S. NUMBER	DEHYD		FILTER		1st Stg REGS / RELIEFS				2nd Stg REGS / RELIEFS				3rd Stg REGS / RELIEFS				DATE/INITIAL	GENERAL CONDITION (LEAKS, ETC.) Include any additional information below, if appropriate	
					Relief 110 95	Relief 110 95	Relief 110 95	Relief 110 95	Relief 20 20	Relief 20 20	Relief 20 20	Relief 20 20	Relief N/A	Relief N/A	Relief N/A	Relief N/A			
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Left	Check	Service	As Found	As Left			
D-1	✓																	6-19	WMM
F-1 A&B	WMM		✓															6-19	WMM
20-C					✓		101.4	100										6-19	WMM
20-A					✓		96.2	95										6-19	WMM
21-C					✓		110	110										6-19	WMM
21-A					✓		110	110										6-19	WMM
20-B									✓		20	20						6-19	WMM
20-D									✓		20	20						6-19	WMM
21-B									✓		30	30						6-19	WMM
21-D									✓		30	30						6-19	WMM

SCADA EQUIPMENT Service &/or Calibration		
RTU	Power Backup	Battery Check
OK	N/A	

TRANSDUCERS	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transd	Actual	Transducer	
2-POINT CHECK							

REMARKS: GAS-Rack #1 Has some small corrosion pits and surface rust.
PKS-1 Checked out at 60" unable to trip at 60" need to order new switch corrosion
Replaced PKS-1 switch and set 60"

REVIEWED BY M. Wunt 8/2/01

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Limiting LOCATION Martin St
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE 6-21
YEAR 2001

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE/INITIALS	CHECKED/CALIBRATED OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER/PILOT		POSITIONER		CONTROL SYSTEM/TRANSDUCERS		GAS SAVER CIRCUIT	
(reg. atm. relief. other)			Y/N	Y/N	Y/N					check/cal	service	check/cal	service	check/cal	service	check/cal	service	
Reg	13	✓	Y	Y	Y	138	138	138	138	6-21 Wm	✓		✓		N/A	✓		
Manita	12	✓	Y	Y	Y	148	150	150	150	6-21 Wm	✓		✓		N/A	✓		
Reg	10	✓	Y	Y	Y	138	138	138	138	6-22 Wm	✓		✓		N/A	N/A		
Manita	46.59	✓	Y	Y	Y	150	150	150	150	6-22 Wm	✓		✓		N/A	✓		

MAIN GAS EQUIPMENT				COMMENTS
FILTER / SEPARATOR / OTHER				
Description	Checked	Replaced		

GENERAL STATION CONDITION ISSUES (If not OK, Indicate condition found.)	
Fencing & Gates	OK [X]
Yard/Landscaping	OK [X]
Piping & Valves	OK [X] <i>Some Pitting and surface corrosion</i>
Piping Atm. Corrosion	OK [] <i>Rust and Pitting on pipes</i>
Building/Cabinet	OK [X] N/A []
Vaults	OK [X] N/A []

NOTES:

- 1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
- 2) THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
- 3) CONTROL VALVES WITH MULTIPLE FUNCTIONS (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE A SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
- 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
- 5) ANY CLARIFICATION OF MAINTENANCE PERFORMED OR COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION PLS LOCATION MARTIN ST

DATE 7-00

GAS SUPPLIES														
G.S. NUMBER #	DEHYDRATOR		FILTER		REGULATORS / RELIEFS				100/45 psig SUPPLY		70/11 psig SUPPLY		DATE INITIALS	GENERAL CONDITION (LEAKS, ETC.) Include information on additional stages, if appropriate
	Checked	Replaced	Checked	Replaced	1st stage		2nd stage		1st stage		2nd stage			
					Checked	Serviced	Checked	Serviced	As Found	As Left	As Found	As Left		
2					Regs				104.7	100.3			7-28-00	
D-2	✓				Relief				120	130			7-28 com	
F-2	✗		✓		Regs				94.5	95.2			7-28 com	
					Relief				120	120			7-28 com	
					Regs		✓				19.3	20.3	7-28 com	Replaced adjusting screws
					Relief		✓				30	30	7-28 com	
					Regs		✓				19.9	19	7-28 com	
					Relief		✓				32	32	7-28 com	

SCADA EQUIPMENT Service &/or Calibration			
RTU	Power Backup	Battery Check	
7-28-00	N/A	✓	

TRANSDUCERS	As Found				As Left			DATE / INITIAL
	0 psig		Operating Pressure		0 psig		Operating Pressure	
	Transducer	Actual	Transducer	Actual	Transducer	Actual	Transducer	
2-POINT CHECK								7-28-00
PT-18	0	135.5	136	0	135.5	136		com
PT-11	0	137.0	136	0	137	136		com
PT-14	0	137	136	0	136	136		com
PT-30	0	359	357	0	359	358		com

REMARKS: #4) 3/4 Models 55971-6MT-100 Relief Valve inventory
#4) 1/2 55971-6M-20 "

REVIEWED BY: M. West 8/21/00

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Reg. LOCATION Martinez

DATE 6-00

G.S. NUMBER	GAS SUPPLIES												DATE INITIALS	GENERAL CONDITION (LEAKS, ETC.) Include information on additional stages, if appropriate
	DEHYDRATOR		FILTER		REGULATORS / RELIEFS				400 psig SUPPLY		70 psig SUPPLY			
					1st stage		2nd stage		1st stage		2nd stage			
	Checked	Replaced	Checked	Replaced	Checked	Serviced	Checked	Serviced	As Found	As Left	As Found	As Left		
G5-1	✓		✓		Regs 1 ✓	✓	✗		98.9	100	✗	✗	6-30 Wm	
					Reliefs ✓	✓			110	110			6-30 Wm	
					Regs 1 ✓	✓			92	95			6-30 Wm	
					Reliefs ✓	✓			110	110			6-30 Wm	
					Regs 1 ✗		✓	✓			20	20	6-30 Wm	
					Reliefs		✓	✓			35	35	6-30 Wm	
					Regs 1		✓	✓			20	20	6-30 Wm	
					Reliefs		✓	✓			30	30	6-30 Wm	

SCADA EQUIPMENT Service &/or Calibration			
RTU	Power Backup	Battery Check	

TRANSDUCERS 2-POINT CHECK	As Found			As Left			DATE / INITIAL
	0 psig	Operating Pressure		0 psig	Operating Pressure		
	Transducer	Actual	Transducer	Transducer	Actual	Transducer	

REMARKS: _____

REVIEWED BY: M. West / 8/21/00

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION Pressure Limiting LOCATION Martin Station
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE June
YEAR 2000

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE/INITIALS	CHECKED AND/OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER / PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT	
(reg, 7000, relief, other)			Y/N	Y/N	Y/N						checked	serviced	checked	serviced	checked	serviced	checked	serviced
Mon	659	✓	✓	✓	✓	150	150	150	150	Wm/6-29-00	✓	✓	✓	✓	N/A	✓		
Reg	10	✓	✓	✓	✓	Varies Remote	Det	Varies Remote	Det	Wm/6-30-00	✓	✓	✓	✓	N/A	N/A	N/A	
Rel	13	✓	✓	✓	✓	Varies Remote	Det	Varies Remote	Det	Wm 6-30-00	✓	✓	✓	✓	N/A	W/A	W/A	
MR	12	✓	✓	✓	✓	150	150	150	150	Wm 6-30-00	✓	✓	✓	✓	N/A	✓		

MAIN GAS EQUIPMENT			
FILTER / SEPARATOR / OTHER			COMMENTS
Description	Checked	Replaced	

GENERAL STATION CONDITION	
Fencing & Gates	OK
Yard/Landscaping	OK
Piping & Valves	OK (Metric Valve GS-2 Replaced per memo)
Vaults	OK (also P.S. on GS-2 Replaced)
Building	OK

NOTES:

- 1) THIS FORM WILL BE USED WHENEVER MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
- 2) THIS FORM WILL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
- 3) CONTROL VALVES WITH MULTIPLE FUNCTION (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
- 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
- 5) ANY CLARIFICATION OF MAINTENANCE PERFORMED OR REQUIRED COMMENTS SHALL BE ENTERED IN THE REMARKS SECTION ON PAGE 2 PRECEDED BY AN APPROPRIATE CROSS-REFERENCE.

TYPE OF STATION _____ LOCATION _____

DATE 8/21/00

CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION PRESSURE LIMITING LOCATION MARTIN STATION
FORM TO BE USED AT REGULATOR STATION, PRESSURE LIMITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.

DATE OCTOBER-11
YEAR 1999

VALVES & CONTROL SYSTEMS						AS FOUND SETPOINT		AS LEFT SETPOINT		DATE / INITIALS	CHECKED AND/OR SERVICED OF CONTROL SYSTEMS							
TYPE OF VALVE <small>(reg, mon, relief, other)</small>	VALVE NUMBER	GENERAL CONDITION <small>(Leaks, etc.)</small>	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT		CONTROLLER / PILOT		POSITIONER		CONTROL SYSTEM / TRANSDUCERS		GAS SAVER CIRCUIT	
			Y/N	Y/N	Y/N					checked	serviced	checked	serviced	checked	serviced	checked	serviced	
MON.	4659	O.K.	Y	Y	Y	147	149	147	150	10-11-99/RLL	✓	✓	✓	✓	✓			
REG.	10	O.K.	N	Y	Y	VARIES-REMOVED		SET		10-11-99/RLL	✓	✓	✓	✓	✓			
MON.	12	O.K.	Y	Y	Y	147	149	148	150	10-11-99/RLL	✓	✓	✓	✓	✓			
REG.	13	O.K.	Y	Y	Y	VARIES-REMOVED		SET		10-11-99/RLL	✓	✓	✓	✓	✓			

MAIN GAS EQUIPMENT				COMMENTS
FILTER/SEPARATOR		OTHER		
Description	Checked	Replaced		
GS-1	✓			FOUND DRY
GS-2	✓			FOUND DRY

GENERAL STATION CONDITION	
Fencing & Gates	O.K.
Yard/Landscaping	O.K.
Piping & Valves	FOUND EXTERNAL CORROSION ON METRIC VALVE, GS-2. MADE MEMO.
Vaults	O.K.
Building	O.K.

NOTES:

- 1) THIS FORM WILL BE USED WHENEVER MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EQUIPMENT.
- 2) THIS FORM WILL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.
- 3) CONTROL VALVES WITH MULTIPLE FUNCTION (I.E., PRESSURE CONTROL WITH FLOW OR BACK-PRESSURE CONTROL, ETC.) SHOULD HAVE SEPARATE ENTRY FOR EACH CONTROL FUNCTION.
- 4) THE APPROPRIATE COLUMNS SHALL BE DATED BY THE INDIVIDUAL PERFORMING THE MAINTENANCE WORK AND A LOG OF THE WORK PERFORMED SHALL BE ENTERED AND INITIALED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.
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CGT STATION MAINTENANCE REPORT
GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

TYPE OF STATION PRESSURE LIMITING

LOCATION MARTIN STATION

DATE 10/11/99

GAS SUPPLIES														
G.S. NUMBER	DEHYDRATOR		FILTER		REGULATORS / RELIEFS				_____ psig SUPPLY		_____ psig SUPPLY		DATE INITIALS	GENERAL CONDITION (LEAKS, ETC.) Include information on additional stages, if appropriate
					1st stage		2nd stage		1st stage		2nd stage			
	Checked	Replaced	Checked	Replaced	Checked	Serviced	Checked	Serviced	As Found	As Left	As Found	As Left		
G5-1	✓		✓		Regs ✓		✓		109/95	109/95	21/19	21/20	10/11/99-RLLO	
					Reliefs									
G5-2	✓		✓		Regs ✓		✓		99/85	99/85	20/19	21/20	10/11/99RLLO	
					Reliefs									

SCADA EQUIPMENT Service &/or Calibration			
RTU	Power Backup	Battery Check	

TRANSDUCERS	TWO POINT CHECK				DATE / INITIAL
	As Found		As Left		
	low	high	low	high	

REMARKS: FOUND METRIC VALVE FOR PRESS. SWITCH ISOLATION ON G5-2 CORRODED. WILL MAKE OUT WORK REQUEST. ALSO PS ON G5-2 IS BAD, WILL NOT MAKE. — RLLO

REVIEWED BY: M. West