## 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_D	R_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:<sup>1</sup>

## 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.

<sup>&</sup>lt;sup>1</sup> Question subparts are broken out in the bullet-points that follow.

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

<u>Overpressure Protection Equipment</u>: 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?

<u>Regulating Equipment</u>: 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.

<u>Overpressure Protection Equipment</u>: 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:

<u>Regulating Equipment</u>: 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.

<u>Overpressure Protection Equipment</u>: 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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## PACIFIC GAS AND ELECTRIC COMPANY San Bruno Gas Transmission Line Incident Data Response

• The date when the pressure modification was implemented:

<u>Regulating Equipment</u>: 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 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.

<u>Overpressure Protection Equipment</u>: 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:

<u>Regulating Equipment</u>: 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.

<u>Overpressure Protection Equipment</u>: 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**

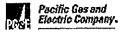
We request that for each of the responses to the questions above, PG&E please provide the name(s) of the individual(s) preparing the response.

## ANSWER 7A

Keith Slibsager

# **MARTIN STATION**

1999 – 2010



## GAS FACILITIES STATION MAINTENANCE REPORT

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GT8D Rov. 1/1/2010 TD-4430P-02-F02

DATE 6-1

#### Make all entries in black or blue permanent ink.

TYPE OF STATION Pressure Reg		LOCATION Martin		
FORM TO BE USED AT STATIONS, LRCVS, LOAD CENTERS, AND TERMINALS	. RE	FER TO TD-4430P-02	· 2.	
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	VA	LVES & CONTROL S	SYSTEMS				DNUC TAIO	AS LEFT	SETPOINT		СН	ecked/c/	ALIBRATE	D OR SEI	rviced (	OF CONTR	OL SYSTE	ems
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Loaks, old.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED		ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE / LAN ID		ROLLER/	POST	IONER	TRANS	TROLS DUCERS MATTERS	GAS S CIRC	SAVER
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Description	Checked	Replaced	
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2	GE	NERAL S	TATION	I CONDITION ISSU	ES (If not OK	, Indicate d	condition four	id.)	
Fencing & G	Sales	OKIN							
Yard/Landsca	aping	OKIN							
Piping & Va	alves	OK[]	2	Quegaace	Rus	<u> </u>			
Piping Atm.Con	rosion	OK[]	?	Need ?	some	atte	ention	•	
Building/Cat	binel	OKIN	N/A [	1					
Vaults		OKIN	N/A [	]	(		000	$\sim $	

NOTES:

1) USE THIS FORM WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELEAR, 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 INITIALLED 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.

Page 1 of 2

## PRESSURE TRANSMITTERS MARTIN STATION

		As Found			As Left		
TRANSDUCERS	0	100	200	0	100	200	
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts		•					
PT-14	1.0007	3.0062	5.0034	1.0007	3.0031	5.0004	6-17-10 0×m1
PT-18	1.0018	3.0046	5.0095	.9992	3,0001	5.0007	6-17-10 0 Km1
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		As Found			As Left		_
TRANSDUCERS	0	150	300	0	150	300	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-11	1.0016	3.0031	5.0055	.9983	2.9985	5,0004	6-17-10 Oxm1
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· · ·		As Found			As Left		
TRANSDUCERS	0	250	500	0	250	500	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-30	. 9995	2.9931	5.0007	,9995	2.9952	5.0007	6-17-10 0×m2
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F4432B TRANSDUCERS



## GAS STATION FACILITIES MAINTENANCE REPORT

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Make all entries in black or blue permanent ink.

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

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TYPE OF STATION Pressure Regulating

\_\_\_\_\_ LOCATION Martin\_

DATE 6-17-10

							:		GAS	SUPP	LIES							
G.S. NUMBER						lst Stg F	REGS / RE	Liefs	RE	Stg GS / IEFS	DATE /	LAN ID	3	Ird Stg F	REGS / REI	lefs	0×m1	GENERAL CONDITION (LEAKS, ETC.) Include any additional
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SCADA EOUIPI	MENT Service &	for Calibration			As Four	be		As L	eft	
RTU	Power Backup	Battery Check	TRANSDUCERS	Oper	aling Press	ure (psig)	Operat	ing Pre	ssure (psig)	DATE / LAN ID
oïl	OK	OK	3-POINT CHECK	0%	50%	100%	0%	50%	- 100%	
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REVIEWED BY:

REMARKS:

LAN ID: DLBK

DATE: 6-21-10

Page 2 of 2



## GAS STATION FACILITIES MAINTENANCE REPORT

Make all entries in black of blue permanent ink.

LOCATION Martin

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GT&D Rov, 1/1/2010 TD-4430P-02-F02

DATE 4-17-18

TYPE OF ST/	ATION Pressure	Regulating		 

									GAS	SUPP	LIES						-	
G.S. NUMBER						1st Stg I	REGS / RE	Liefs	RE RE	I Stg GS / IEFS	DATE /	I LAN ID	3	3rd Stg I	REGS / RE		oxm1 6-17-1	GENERAL CONDITION (LEAKS, ETC.) 0 include any additional
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PCV-25B											20	19					/	
PCV-25C							100	950										
PCV-25D											19	20						
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RTU	Power Backup	Battery Check	TRANSDUCERS	Oper	ating Press	ure (psig)	Operat	ing Pres	sure (psig)	DATE / LAN ID
OK	OK	OK	3-POINT CHECK	0%	50%	100%	0%	50%	100%	
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DATE: 6-21-10

Page 2 of 2

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

CGT 4432 Exhibit 2 Page 1 of 2

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#### TYPE OF STATION \_ Pressure Reg

#### LOCATION Martin

### OATE 6-3-09

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

	V/	ALVES & CONTROL S	SYSTEMS				OUND POINȚ	AS LEFT	SETPOINT		CH	ECKED/C	ALIBRATE	D OR SE	rviced o	F CONTR	OLSYST	ems
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROXED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE / NITIALS		ROLLER / LOT	POST	IONER	CONTROL	. System. Ducers		SAVER CUIT
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Fencing & Gates	OK [,/]
Yard/Landscaping	OK[H
Piping & Valves	OK[1]
Piping Atm.Corrosion	OKI
Building/Cabinet	OK[1] N/A[]
Vaults	OK [ NAI]

#### NOTES:

1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF ANO/OR PRESSURE MONITORING EQUIPMENT.

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YEAR 2009

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

CGT 4432 Exhibit 2 Page 2 of 2

### TYPE OF STATION Pressure Reg

LOCATION Martin

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DATE	1	Ų.	Q	P	

G.S. NUMBER					1	ist Stg I	REGS / REI	lefs	ź	nd Stg I	REGS / RE	LIEFS	3	Ird Stg F	REGS / REI	JEFS			GENERAL CONDITION (LEAKS, ETC.)
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F-18			••••						l								Vel 1	5	
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PCV-20B									1.		20.0	20.0					6/1	UND	· · · · · · · · · · · · · · · · · · ·
PCV-20C					~		100	(00)	; I								64.	W87	<u> </u>
PCV-20D			·						~		20.0	20.0					4/1	1283	
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PSV-21C					~		108	WY									41	WOS)	
PSV-21D									~		24.3	24.7					cli	WF133	
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REMARKS:

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

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CGT 4432 Exhibit 2 Page 2 of 2

									G	AS SUP	PLIES								
G.S. NUMBER		i			1	st Stg F	REGS/RE	LIEFS		2nd Sto R	EGS / RELI	EFS	3rd	I Sig RE	GS / RELII	FS			GENERAL CONDITION (LEAKS, ETC.)
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PSV-26A					V		110	(10										4/13	
PSV-26B									~	•	25	25						(CTXV)	
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PSV-26D									~		25	25					618		
PSL-27							60	60							_		618		

SCADA EOUIPME	NT Service &	or Calibration			,	As Found			As Lef	t	
RTU	Power Backup	Bettery Check		TRANSDUCERS	0 psig	Operating	g Pressure	0 psig		perating ressure	DATE / INITIAL
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			ĺ	See attached calibration she	et :						

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REMARKS:

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REVIEWED BY:

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6-11-09

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## PRESSURE TRANSMITTERS MARTIN STATION

		As Found			As Left		
TRANSDUCERS	0	100	200	0	100	200	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	
Transducer output = 1-5 Volts		;	1				
PT-14	1.01	2.991	5.01	1-0V	2990	5.01	6/2/09.00
PT-18	.994V		5.00	1.00	3.0V	1.0V	6/8/09 mg
		:					
		As Found			A e l e fl		
TRANSDUCERS	0	150	300	0	As Left	000	
3-POINT CHECK	Transducer	Transducer			150	300	DATE /
Transducer output = 1-5 Volts	Hansuace	ศาสกรณณ์เลา	Transducer	Transducer	Transducer	Transducer	INTIAL
PT-11	1.0.0.1	- <u>Coul</u>	<i>,</i>				
	1.000	2-991	5.0V	1.301	2.991	5.01	CIP/09 VCD3
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		As Found			As Left	·	
TRANSDUCERS	0	250	500	0	250	500	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-30	1.00	3.0V	5.0V	1.00	3.0V	5.01	41109 NX63
		·	×				<u> </u>
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F4432B TRANSDUCERS

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

CGT 4432 Exhibit 2 Page 1 of 2

TYPE OF STATION \_\_\_\_ Preasure Rag

LDCATION Martin

Juna DATE 2008 YEAR

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

	VA	LVES & CONTROL S	SYSTEMS				ound Point	AS LEFT	SETPOINT			СН	ECKED/C	ALIBRATE	D DR SE	RVICED D	F CONTR	OL SYST	ems
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICEO	VALVE STROKED	VALVE ACTUATOR INSPECTED		ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE /	INITIALS	CONTR PIL	OLLER/ OT	POST	IONER	CONTRO / TRANS	l system Ducers		Saver Cuit
(reg. mon, relief,other)			YAN	YAN	Y/N 1			[	[			check/cal	sorviced	check/cal	serviced	chock/cal	, serviced	check/cal	beciviced
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Mon	46.59	OK	Ŷ	Y	Y ·	150	148.7	150	148.9	6.26	w	(6)		Cal		N	A	V	
Reg	10	OK	Y	У	Ч	140	140	140	140	6-25	com	Cal		~		N	A	N/V	
Reg	13	op	Y	Ý	Ý	140	140	140	140	6-25	wm	لھک		Cal		N)	n	hr/A	
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	MAIN O/	AS EQUIPMENT	L	
FILTER / SEPA	RATORIOTHE	R	COMMENTS	
Description	Checked	Replaced		
			AИ	
				:
}			· · · · · ·	

GE	NERAL STATION CONDITION ISSUES (if not OK, indicate condition found.)
Fencing & Gates	OKIH
Yard/Landscaping	OKLY
Piping & Veives	OKIN
Piping Atm.Corrosion	OKLI
Building/Cabinet	OK[of 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.

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

Value 13 position bad Rebuilt and Calificat tested in control we

m'idinter 7-26-08

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

CGT 4432 Exhibit 2 Page 2 of 2

TYPE OF STATION Preesure Reg

LOCATION Martin

DATE June 2008

<u>~10-26-08</u>

									G	AS SUP	PLIES								
G.S. NUMBER					1	st Stg F	REGS / REI	Liefs		2nd Stg R	EGS/RELI	EFS	3rd	l Stg RE	GS / RELI	EFS			GENERAL CONDITION (LEAKS, ETC.)
2	DE	HYD	FIL	TER			SETPDI	NT (psig)			SETPOI	NT (psig)			SETPOI	NT (psig)	DATE/I	NITIAL	Include eny edditional 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			
D-2	V	1		1													6-26	um	
F-2A &B			~								1						6-26	um	
PCV-25A				1	1	1	95,6	95			1						6-28	com	
PCV-25B					- <u>-</u>		1		V	19.8	20						6-28	ion	
PCV-25C					~		98,1	100		-1.1							6.28	im	
PCV-25D					<b></b>		····I		V	ZOH	20						6-28	wm	
PSV-26A				1	7		110	110	-								6-28		·
PSV-26B		1					<b></b>		1	25	25						6-26	wm	
PSV-26C				1	1/		108	108	-¥		<u> </u>						6.28		
PSV-26D		<u> </u>						1	$\overline{\nu}$	25	25	·					6-28	lim	
PSV-200 PSL-27	·				V		60 %	both									6.28		]

RTU	Power Backup	Battery Check
$\checkmark$	NIA	V

		As Found			As Lef	l	
TRANSDUCERS	0 psig	Operating	g Pressure	0 psig		erating essure	DATE / INITIAL
3-POINT CHECK	Transoucer	Actual	Transducer	Transducer	Actual	Transducer	
See atteched calibration sh	eet						
See f	arms						
	1				l		

REMARKS:

**REVIEWED BY:** 

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

CGT 4432 Exhibit 2 Page 2 of 2

### TYPE OF STATION Pressure Reg

LOCATION Martin

DATE June

2008

									GAS	SUPF	PLIES								
G.S. NUMBER					1	st Stg F	REGS / RE	LIEFS	2	nd Stg F	REGS / RE	ELIEFS	3	rd Stg F	EGS / RE	Liefs			GENERAL CONDITION (LEAKS, ETC.)
1	ם	HYD	FIL	TER.			SETPO	NT (psig)			SETPO	INT (psig)			SETPOL	NT (psig)	DATE/	INITIAL	Include any edditional 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	]		
D-1	V		1	1													6-28	wom	
F-1A	WK.		1														628	un	
F-1B	Wer.		1														6-28	w	
PCV-20A					V		95.6	95									6-28	im	
PCV-20B									V		19.3	20	<u> </u>				6-28	wm	
PCV-20C		ļ			~		97.8	100					<u> </u>				6-28	wm	
PCV-20D									~		20	20				ļ	6-28	com	
PSV-21A					1		109	109									6:28		
PSV-21B									V		24.8	24.8	L				6-28	ion	
PSV-21C					V		108	108					ļ				6-28		
PSV-21D									V		245	24.5			· · · · · · · · · · · · · · · · · · ·		6-28		
PSL-22					V		60 *	60#	<u> </u>				_	<u> </u>		l	6-28	wm	

RTU	Power Backup	Battery Check	TRANSDUCERS	0 psig	Operating	) Pressure	0 psig		erating ressure	DATE / INITIAL
19Gr		<u> </u>	3-POINT CHECK	Transduc er	Actual	Transducer	Transdu	Actual	Transducer	
······································	`		AQ							
				_			<u> </u>		 	
							l			

REMARKS:

REVIEWED BY: <u>miainte</u>

7-26-08

## PRESSURE TRANSMITTERS MARTIN STATION

		As Found			As Left	······	June
TRANSDUCERS	0	100	200	0	100	200	DATE / Ø
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL 🖙
Transducer output = 1-5 Volts							
PT-14	1,000 UDC	3.002 000	5,001002	1.000 VDC	3,002 004	5,001 VAC	Wm 6.26
PT-18		2 3.024 000		1.001 UDC	3.00% USC		WM 6-26
		As Found			As Left		
TRANSDUCERS	0	150	300	0	150	300	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-11	1.000 UOC	2.998 000	5.003002	1,000 UDC	2.998 VDC	5.003002	wom 626
х.		As Found			L As Left		
TRANSDUCERS	0	250	500	0	250	500	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-30	.999 VDC	2.994 100	4.999	1999VDC	2.994 UD	STOOD VIX	Wom 6.26

F4432B TRANSDUCERS

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

CGT 4432 Exhibit 2 Page 1 of 2

TYPE OF STATION Pressure Reg

\_ LOCATION \_\_Martin\_

YEAR 2007

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

		YSTEMS				onnc Minic	AS LEFT S	SETPOINT			СН	ECKED/C/		O OR SEI	RVICED O	FCONTR	OLSYST	EMS
ALVE MBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE	/INITIALS		Roller <i>t</i> Lot	POSTI	IONER	CONTROL / TRANSI			SAVER
		YAL	YAN	YAL			<u> </u>	1			check/cal	boolyraa	ohookkal	serviced	check/cal	serviced	chock.(cai	booylog
12		У	У	У	150	148.9	150	149	619	win	C.>		Cal		N	H	1	
6.59	V	y I	¥	Y	150	148	150	148	619	lim	Cal		Cal		N	12	d'ann	ļ
10		Ý	Y	У	140	140	140	140	6.19	in	Ce		Cal		NA	IF	<u>Ř</u>	
13	r	¥.	Y.	Ý.	140	140	140	140	6.19	V vi <u>R</u>	Cal		Cal		N,	<u>}</u>	1	
											<b> </b>							
		<b> </b>																<u> </u>
1: 6.	8ER 2 .59 0	BER         (Leaks, etc.)           2	BER         (Leaks, etc.)         SERVICED           2         YM         Y           59         Y         Y           0         Y         Y	BER     [Leaks, etc.]     SERVICED     STROKED       2     YAL     YAL     YAL       2     YAL     YAL     YAL       69     Y     Y     Y       0     Y     Y     Y	BER     (Leaks, etc.)     SERVICED     STROKED     ACTUATOR (NSPECTED)       YM     YM     YM     YM       YM     YM     YM     YM	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} \hline \begin{array}{c} \hline \begin{array}{c} \hline \begin{array}{c} \hline \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} $ \hline \rule \\ \hline \end{array}  \hline \rule  \hline  \hline	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

	MAIN G	<b>AS EQUIPMENT</b>	•
FILTER / SEPA	RATORIOTHE	2	COMMENTS
Description	Checked	Replaced	
NIA			

Fencing & Gates	OKIN
Yard/Landscaping	OKIN
Piping & Valves	OK[4
Piping Atm.Corrosion	OKIH
Building/Cabinet	OKICI NALI
Vaults	OK[4] NA[]

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NOTES:

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DATE

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

CGT 4432 Exhibit 2 Page 2 of 2

1 1

TYPE OF STATION	Pressure Reg
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LOCATION Martin

									GAS	SUP	PLIES								
G.S. NUMBER	Ţ				1	st Slg F	REGS / REL	IEFS	2	nd Sig i	REGS / RE	LIEFS	3	rd Stg F	REGS / REI	LIEFS			GENERAL CONDITION (LEAKS, ETC.)
1	DEI	IYD	FIL	TER			SETPOI	NT (psig)			SETPO	NT (psig)			SETPOI	NT (psig)	DATE	INITIAL	Include any additional information below, if appropriate
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	Asleft	Check	Service	As Found	As Leít	1	_	· · · ·
D-1	$\overline{}$																6/18	VX83	
F-1A			~														4/18	VXB3	
F-1B			1														6/13	VX67	
PCV-20A					V		9AD	95									6/18	VC (J)	
PCV-20B						.•			r		20	20					4118	VKD3	
PCV-20C					5		100	100									6/18	VA2>7	
PCV-20D									1		19.2	20					6/18	VADD	
PSV-21A					$\checkmark$		112	108	<u> </u>								6/18	VKOJ	
PSV-21B										ļ	25	25					6113	VXGI	
PSV-21C					1		109	109				ļ.,					618	VX()>	
PSV-21D									/		24	24					418	VXP)	
PSL-22							·										618	VX51	set@coipsi

RTU	Power Backup	Battery Check
	Buenop	onoon
V		

		As Four	d		As L	əfi	
TRANSDUCERS	0 psig	Operating	Pressure	0 psig		erating essure	DATE / INITIAL
3-POINT CHECK	Transduc er	Actual	Transducor	Transdu	Actual	Transducer	
See ATTR	$\tilde{\mathcal{X}}$	よのり	bCa	Ľ	36	ATI	<u>6</u> 2
SHEET	1						

REMARKS:

PERFORM RTU CHECK 6/19/07

REVIEWED BY: <u>Jonianto</u> 7-3-07

		As Found			As Left		
TRANSDUCERS	0	100	200	0	100	200	DATE / <i>0</i> 1
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-14	.90161	3,0	5,00	,999	3,0	5.000	El" UIB
PT-18	1.002	2.001	5.001	1,002	21999	5.070	UTY URB
		As Found			As Left		-
TRANSDUCERS	0	150	300	0	150	300	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-11	1001	2, 448	5,000	1.001	2.998	5.00	619 000
	:						
	·						
		As Found			As Left	3	_
TRANSDUCERS	0	250	500	0	250	500	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
Transducer output = 1-5 Volts							
PT-30	1.003	3,022	5.001	1,021	2:911	5,000	E-19 VEB
	· · · · · · · · · · · · · · · · · · ·						
	L			1	L		

F4432B TRANSDUCERS i j

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

CGT 4432 Exhibit 2 Page 2 of 2

### TYPE OF STATION \_\_Pressure Reg

LOCATION Martin

DATE \_\_\_\_\_\_2007\_\_\_\_\_

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							·····		G	AS SUP	PLIES							
G.S. NUMBER	1				1	st Stg F	REGS / REI	LIEFS		2nd Stg R	EGS / RELI	EFS	Зro	l Stg RE	GS / RELI	EFS		GENERAL CONDITION (LEAKS, ETC.)
2	DEI	HYD	FIL	TER			SETPOI	NT (pslg)			SETPOI	NT (psig)			SETPOI	NT (psig)	DATE/INITIA	L Include any additional information below, if appropriate
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	AsLeft	Check	Service	As Found	Asteft	Check	Service	As Found	Asleft		
D-2	~																w)18 WD	3
F-2			~														6/18 445	2
PCV-25A							95	95									6/18 VAL	>
PCV-25B									~		20	20					6/18 VKA	3
PCV-25C					~		100	100									6 KX VXS	>
PCV-25D									$\checkmark$		20	20					6/18 250	3
PSV-26A					~		110	110									CIN UXO	2
PSV-26B									1		25	25					6/03 1/40	2
PSV-26C					~		108	108									6/18 VXB	
PSV-26D											24	24					6/18 020	
PSL-27																	6/18 478	DI SETASY

SCADA EOUIPN	IENT Service &	or Calibration
RTU	Power Backup	Battery Check

		As Found	1		As Lef			
TRANSDUCERS	0 psig	sig Operating Pres		0 pslg	Operating Pressure		DATE / INITIAL	
3-POINT CHECK	Transducer	Actual	Transducor	Transducer	Actual	Transducer		
See attached calibration sh	eet							

REMARKS:

REVIEWED BY: DM and

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

CGT 4432 Exhibit 2 Page 1 of 2

TYPE OF STATION \_\_\_\_\_ Pressure Reg\_\_\_\_\_

#### LOCATION Martin

DATE \_\_\_\_\_ YEAR \_\_\_\_\_2006 \_\_\_\_

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

	V	ALVES & CONTROL S	YSTEMS				ound Point	AS LEFT :	SETPOINT		СН	ecked/c	ALIORATE	D OR SE	RVICEDO	FCONTR	OL SYSTI	ims
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE / INITIALS		IOLLER / .OT	POST	ONER	CONTRON / TRANS	System Ducers	GAS S CIR	GAVER
(reg, mon, resel, other)			Y/N	Y/N	Y/N						check/cal	bootyros	chock/cal	sorvicod	chock/cal	sonicod	chock/cal	serviced
Mon	12	ÖK	Y	y y	Y	150	150	150	150	6-28.00 hr	CAL		CAL-		NIA	N/A	r	
Mon	46.59	UK	Ý	Y	Y	150	150	150	150	44/06 VXB3	CAL		CAL		NA	1N/A	1	
Reg	10	oK	Y	Ň	Y	140	140	140	140	WALLOW VXB3	CIAK		CIK		Ma	NM		
Reg	13	or	Y	Y	Ý	139	140	135	140	6-28-06 mm	Cal		CHH		Mp	K/n_	7	
								<u> </u>										
	·																	
									<u> </u>			L					l	

	MAIN G/	AS EQUIPMENT	
FILTER / SEPA	RATOR / OTHER	2	COMMENTS
Description	Checked	Replaced	
NIA			

GE	NERAL S	TATION CONDIT	IDN ISSUES (If not OK, Indicate condition found.)
Fencing & Gates	OK[]		
Yard/Landscaping	οκίλ		
Piping & Valves	OK [/]		
Piping Atm.Corrosion	OK [/]		
Building/Cabinet	OKII	N/A [ ~ ]	
Vaults	OK [ /]	N/A[]	
			privainter 7-3-06

NDTES:

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

CGT 4432 Exhibit 2 Page 2 of 2

### TYPE OF STATION \_\_\_\_ Pressure Reg\_\_\_\_

LOCATION Martin

									G	SAS SUP	PLIES							
G.S. NUMBER	1					1st Stg I	REGS / RE	LIEFS		2nd Stg R	EGS/REL	IEFS	31	rd Stg RE	GS/RELI	EFS		GENERAL CONDITION (LEAKS, ETC.)
2	DE	HYD	FIL	TER			SETPOI	NT (psig)			SETPO	INT (psig)			SETPOI	NT (psig)	DATE/INITIAL	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	Asleft	1	
D-2	17																6.7 wm	
F-2			1	1													6-7 um	
PCV-25A	1				V		96	95									6.7 lom	
PCV-25B									V	20,4	20,4	20		_			6-7 com	
PCV-25C					v		99	100									6-7 WM	
PCV-25D									V		20.8	20					6-7 wm	
PSV-26A					2		110	110									6-7 6m	
PSV-26B									1		25	25		_			6-7 con	<u></u>
PSV-26C					V		108	108									6-7 WM	
PSV-26D	-								/		24	24				ļ	6-7 cm	
PSL-27																 	10-7 com	Set 58 "

RTU	Power Backup	Batlery Check

		As Found			As Lef	t	
TRANSDUCERS	0 psig	Operating	g Pressure	0 psig		eraling essure	DATE / INITIAL
3-POINT CHECK	Transducer	Actual	Transducor	Transducer	Actual	Transducor	
See attached calibration she	eet						

REMARKS:

RTL Performance Check 6-12-00 w~

mian REVIEWED BY: 7-3-06

DATE 6-7-06

## 0-20 MA

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

		As Found			As Left		
TRANSDUCERS	0147	100単	20014-	0"	100"	200"	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
141.9 # PT-14	21,0 MA	12.0 MA	20,01 MA	4.0MA	12,0 MA	20.01 MA	wm 6-7-06
137,6 # PT-18	410 MA	12,0 MA	70,0 MA	410 MA	12.0 MH	20 WM	Wan 6-7-06
	······································		· · · · · · · · · · · · · · · · · · ·			-	
		As Found			As Left	1	
TRANSDUCERS	0"	150"	300"	0"	150"	300"	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
14/1, 2 ₩ PT-11	21,0 MA	12:01 MM	20,03 MA	4.0MA	12,0 mp	20,01 MA	white
		As Found			As Left		· · · · · · · · · · · · · · · · · · ·
TRANSDUCERS	0"	250"	500"	0"	250"	500"	DATE /
3-POINT CHECK	Transducer	Transducer	Transducer	Transducer	Transducer	Transducer	INTIAL
363.7 / PT-30	4.0 MA	11.99 MA	20, MA	4,0 MA	11.99 MA	ZOMA	WM 67-06

Dr Painte

F4432B TRANSDUCERS

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

CGT 4432 Exhibit 2 Page 2 of 2

G.S. NUMBER 1st Stg REGS / RELIEFS 2nd Stg	REGS / RELIEFS	3rd Stg I	REGS / RELIEFS		GENERAL CONDITION
		`			(LEAKS, ETC.)
1 DEHYD FILTER SETPOINT (psig)	SETPOINT (psig)		SETPOINT (psig	DATE/INITIAL	Include any additional Information below, if appropria
Device Tag Check Reptace Check Reptace Check Service As Found As Left Check Service	As Found As Left	Check Service	As Found As Left		
P-1				6/1/04 VXD3	

F-1B	1									 671060	< <u>4</u> ×	
PCV-20A		V	•	95	95					 6/7/04	(¥ B)	
PCV-20B						5/	Ĺ	19.6	20	 ul7 100 1	rfb3	
PCV-20C				100	100					 6 17/001	×.63	"
PCV-20D						~		19	20	11/001	×07	
PSV-21A		1		110	110					 (, h/w)	×03	
PSV-21B						1		2.9	25	 (1722)	×03	
PSV-21C		~		109	109					 un loc V		
PSV-21D						V		201	24	 cintre 1	1×63	
PSL-22										4/7/24	XB3 SET@60	PSI

SCADA EQUIPM	ENT Service &/	or Calibration				As Fou	nd		As L	eft	
RTU	Power Backup	Battery Check		TRANSDUCERS	0 psig	Operatin	g Pressure	0 psig		erating ressure	DATE / INITIAL
· · · · · · · · · · · · · · · · · · ·				3-POINT CHECK	Transduc er	Actual	Transducer	Transdu	Actual	Transducer	
					_	·····					
	_1		1								

REMARKS:

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micinte REVIEWED BY: 7-3-06

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

CGT 4432 Exhibit 2 Page 1 of 2

TYPE OF STATION Pressure Reg

LOCATION Martin

YEAR

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

	V	ALVES & CONTROL S	YSTEMS				AS FOUND SETPOINT		SETPOINT		СН	ecked/C	ALIBRATE	DORSE	RVICED O	F CONTR	OL SYSTI	ems
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPONT	ACTUAL CONTROL POINT	DATE / NITVALS		ROLLER/ .OT	POST	ONER	CONTROL TRANSI			Saver Cuit
(rog, mon, relic/,othor)		···	YAL	YAN	YAI						checkicai	boolvros	chock/cal	boolyroa	chock/col	beolyzed	check/cal	serviced
Mon	12	V	Y	Y	Y	150	150	150	150	6-22-05m	Cal		Cal		N/I	$\mathbf{r}$	V	
Mon	46,59	~	Ý	Y	Ý	150	150	150	1950	6-23-05 046	4		Cul		NI	4	$\checkmark$	
Reg	10		У	¥	У	139	139	139	139	6-22-05 wm	~		V		NI	<u>ل</u>	N/	n
Reg	13	V	Y	Y	Υ	139	138.4	139	138,4	6-23050sh	(a		V		N/N	7	V	
MON	44.59	CLASS" A"	INSPO	gión	CONTR	XLED,	T ISO	PSI		6/28/05 VXD3								
MON	12	CLASS'A'		101	COUT	-01.1150	AT ISC	PSI		Westor VXD>								
										L								
								l										

	MAIN G	AS EQUIPMENT		
FILTER/SEP/	ARATOR / OTNES	2	COMMENTS	
Description	Checked	Roplaced	i	
NIA				
	1			

GI	ENERAL STATION CONDITION ISSUES (If not OK, Indicate condition found.)
Fencing & Gates	ok (x)
Yard/Landscaping	οκιχί
Piping & Valves	οκιχι
Piping Atm.Corrosion	οκ[χ]
Building/Cabinet	OKI I NALI Reilding Consisten
Vaults	OK[X] N/A[]
Rui	ilding Roof Repair Jurned Ques

NOTES:

1) THIS FORM SHALL BE USED WHEN ANNUAL MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS CONTROLLER-OPERATED PRESSURE REGULATING, PRESSURE RELIEF PRESSURE MONITORING EQUIPMENT. JXL

2) THIS FORM SHALL BE RETAINED FOR RECORDKEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.

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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

CGT 4432 Exhibit 2 Page 2 of 2

DATE 6/21/05

TYPE OF STATION \_\_Pressure Reg\_\_\_

LOCATION \_\_\_\_\_Martin\_ 

									GAS	SUP	PLIES								
G.S. NUMBER					1	ist Slg i	REGS / RE	LIEFS	2	nd Stg	REGS / RE	LIEFS		3rd Slg	REGS / RE	Liefs			GENERAL CONDITION (LEAKS, ETC.)
1	DE	HYD	Fil	TER			SETPO	NT (psig)			SETPO	NT (psig)			SETPOI	NT (psig)	DATE	/INITIAL	Include any additional Information below, if appropriate
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	As Loft	Check	: Service	As Found	As Left			
D-1	/																4/21	VXOS	(
F-1A		1	<b></b>														6/21	V×B3	
F-1B	[																44	VXD7	
PCV-20A	[		ľ				100	95									1/1	VX03	
PCV-20B			1				:		/		2012	20					6/21	14.03	
PCV-20C	[				/		99.2	100									6/21	VX BO	
PCV-20D									$\checkmark$		19.8	20					EA20	UX03	
PSV-21A						1	115	109									10/21	VXDJ	
PSV-21B		1						1	/		25	25					6/21	(XO)	
PSV-21C	1				/		112	108.8		T							0/21	VXISS	
PSV-21D						1			~		27.0	25.0					0/21	VYDI	

וודמ	Power	Battery
RTU	Backup	Check
1		

		As Fou	bn		As L	eft	
TRANSDUCERS	0 psig	Operatin	g Pressure	0 psig		erating essure	DATE / INITIAL
2-POINT CHECK	Transduc	Actual	Transducer	Transdu	Actual	Transducer	
PSL-22	D	60	60	0	60	60	6-21-05
PSL-27	0	(10	40	0	60	60	6-21-05
						ļ	
						l	

REMARKS:

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30 10710-REVIEWED BY: 05 7-13

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

CGT 4432 Exhibit 2 Page 2 of 2

#### TYPE OF STATION \_\_Pressure Reg.

LOCATION \_ Martin DATE JUNE 2005

									GAS	S SUPI	PLIES								
G.S. NUMBER				1st Stg REGS / RELIEFS 2r			nd Stg	REGS / RE	LIEFS	:	Brd Stg I	REGS / REI	LIEFS			GENERAL CONDITION (LEAKS, ETC.)			
2	DE	HYD	FIL	TER			SETPO!	NT (psig)			SETPOI	NT (psig)			SETPOI	NT (psig)	DATE	INITIAL	Include any additionel 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			45
D-2	/																4/21	VXSI	7
F-2			/				:										6/21	VX87	
PCV-25A					\		୨ବ	100									6/21	VX07	
PCV-258									-		19.8	20					6/21	VXIST.	
PCV-25C					\		<u>9</u> 1	95									6/21	10XV	
PCV-25D											20.5	20					421	VXGS	
PSV-26A							114_	109.6									4/21	VXB3	
PSV-26B									-		24.1	24.1					4/21	VXBI	
PSV-26C					/		109	109									chi	VX03	
PSV-26D									1		24.3	24.3					6/21	VX63	
							1										11/21	VX63	

SCADA EQUIPH	viENT Service &	or Celibration			As Four	nd		As L	eft	
RTU	Power Backup	Battery Check	TRANSDUCERS	0 psig	Operatin	g Pressure	0 pslg	) ···	oeraling ressure	DATE / INITIAL
			2-POINT CHECK	Transduc	Actual	Transducer	Transdu	Actual	Transducer	
			PT-11	Ø	139.9	139.3	0	139.9	139.6	6-22-05 U
			PT-14	٨	134.8	139.8	0	139.8	139.8	6-22-07 W
			PT-18	0	137.7	137.3	0	137.61	1381	6-22-0T W
			#(1) PT-30	0	363	307	ð	363	327	6-22-05

unal Colle Di need new Tronsputtin 41.20 MA Renge Oto Souls REMARI Fairchild Open おっ Normally 20 U-R te 2441226. Vez Men # Transmitter Recen  $107t_{0}$ REVIEWE0 BY: , Don iere i on 11 -05 0 X 396 Completed Relay Recevie WR 7-13-05 Scher  $\mathcal{O}$ #2 WRYSS Completed 5-26-06

Form F4432B D6/20D1

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

Page 1 of 2

6-

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DATE

YEAR

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TYPE OF STATION

Morte LOCATION

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

<b></b>	V/	ALVES & CONTROL S	SYSTEMS				onno Tnio:	AS LEFT	SETPOINT		CHECKED/CALIBRATED OR SE					RVICED OF CONTROL SYSTEMS			
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE , SERVICED	-VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPONT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE /INITIALS	CONTRI PILI	oller/ ot	POST	IONER	CONTROL TRANSC		GAS S CIRC		
treg mon refer other)			YAI	YAI	YAI					}	cherivical	\$10.001	theck/cal	serviced	check/cal	renkid	chesiled	serviced	
Rey 13	13	OK	N	Y	У	138	138.3	138	138,2	6-9-04 com	Cal		Cal		N/	7	·		
Mon	46.59	OK	N	Y	Y	150	150	150	150	6-9-04 wm	Cal		Cal		N	4			
MON	12	1	4	Y	Y E	150	150	150	OL I	claloy uxps	CAL		CAL	•	Ľ	1		-	
HEREE	10	<u>``</u>	r L	. ¥	Y	138	138.5	138	138.5	LIGION VXBS	cal		cal		N	Ά		1	
		· · · · · · · · · · · · · · · · · · ·								· · ·									
		······································		······································							· .				-				
																,			
								•											

	MAIN O	AS EQUIPMENT	•
FILTER / SEP/	RATOR / OTHER	2	COMMENTS
Description	Checked	Replaced	
			<u> </u>
			• • • • • • • • • • • • • • • • • • •

GI	ENERAL STATION CONDITION ISSUES (If not OK, indicate condition found.)
Fencing & Gales	ok( )
Yard/Landscaping	ok( )
' Piping & Vaives	ok[]
Piping Aim Corrosion	ok[]
Building/Cabinel	OK[] NA[]
Vaults	OK[] N/A[]

and and

#### 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 6-23-04 PRESSURE MONITORING EQUIPMENT.

2) THIS FORM SHALL BE RETAINED FOR RECORD/KEEPING PURPOSES IN THE DISTRICT'S HISTORY FILE.

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CGT 4432 Exhibit 2

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

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CGT 4432 Exhibit 2 Page 2 of 2

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TYPE OF STATION PRESSURE REGULATING LOCATION MARTIN, STATION,

DATE JUNE 2004

				•					GAS	SUP	PLIES							_	* .
G.S. NUMBER	-				• 1	st Sig F	REGS / REI	lefs	2	nd Stg I	REGS/RE	LIEFS	3	ird Stg I	REGS / REI	lefs.			GENERAL CONDITION (LEAKS, ETC.)
1	DEI	HYD	FIL	TER			SETPOI	NT (pslg)			SETPO	NT (psig)			SETPOI	NT (psig)	DATE	INITIAL	Include any additional information below, if appropriate
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	Asleft	Check	Service	As Found	As Left	1		
PCV-20A				1	~		95	100	1				Ī				6/10	VXO3	CLASS J
PCV - 20C-					V		98	95									610	VXO3	class B
PCV - 20B									-		18	20					6/10	VX02	class B
Per- 200				1					~		70	20					610	VXBI	CLASS B
PSV-22D									1		22	22					610	V×62	
PSV-21A					1		108	108									6/10	VX83	
PSV-21C		[			~		110	110								-	610	VXOY	
PSV-21B									11		23	23	<u> </u>			•	6/10	VX())	~
D-1	~											<u> </u>	<u> </u>				6/24	UX83	
F-IA/F-IB			~									]		İ		<u> </u>	6/24	VXOS	

DA EQUIPM	ENT Service &/	or Calibration			As Fou	nd	ļ	As L	eft	
RTU	Power Backup	Battery Check	TRANSDUC	ERS 0 psig	Operating	g Pressure	0 psig		erating essure	DATE / INITIAL
		•	2-POINT CHE	ECK Transduc	Actual	Transducer	Transd	Actual	Transducer	
			PSL-22	. 0	60	40	0	60	60	6130/04 VNB3
···			PS2 - 27	0	40	60	0	40	60	6/30/04 VXD
						ļ				
<u> </u>	. <u>I </u>	المسيدينين				1				

REMARKS:

REVIEWED BY:

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

CGT 4432 Exhibil 2 Page 2 of 2

TYPE OF STATION

Pressur My

\_ LOCATION Martin

DATE 6-10-04

				•					GAS	SUP	PLIES								÷	
G.S. NUMBER					• 1	st Slg F	REGS / REL	IEFS	2	nd Stg	REGS / RE	LIEFS	1	Brd Stg I	REGS / RE	Liefs	]		GENERAL CONDITION (LEAKS, ETC.)	ĺ
Hiz	DE	HYD	FIL	TER	100	0/95	SETPOI	VT (pslg)	18	120	SETPO	INT (pslg)			SETPO	NT (psig)	DATE	initial	Include any additional information below, if appropriate	
Davice Teg	Check	Replace	Check	Replace		Servica		As Left	Check	Service	As Found	As Left	Check	Service	As Found	AsLeft	·]			
PCV-25A		<u>}</u>				~	94.7	95	1								6-10	wm	Class Binspert	
PCV-25C		<b> </b>	<b> </b>		}	~	100.5	1000	1								6-10	6	Class Binspert	1
PCU-ZSB		<u> </u>							1	~	20	20					6-10		class Bingant	
PCU-25D		1		1					1	-	19:4	19.4					6.10		class Bingert	
P5V.264				1	~		107	107				· -					6-10	10m	/	
PSV-264		1	1	1	-		108	108									6-10	com		
PSV-26B		1							~		23.5	23.5					6.10	ليصبة	,,,,,,, _	ł
PSU-260									-		24	24				·	610	wm	<u>~</u>	
D-2	V	1										1		ļ		ļ		VX02		
F-2		1	~	1					Į		•				<u> </u>		4/24	WEB1		1

RTU	Power Backup	Battery Check
	Cuonap	

		As Foun	ıd		As Li	eft	
TRANSDUCERS	0 psig	Operating	Pressure	0 gslg	•	erəling essure	DATE / INITIAL
2-POINT CHECK	Transduc	Actual	Transducat	Transd	Actual	Transducer	
7-30	.0	359	359	0	<u>357</u>	359	6-18-01 lim
PT-18	0	136	137	U	136	137	6-18-04 un
7-11	0	137	138	0	137	137	6-1804con
PT-14	0	136	136	0	150	136	6-18-04 w

set part to 140th I class A inpaction found month Monitor V- 46.59 Performa class A ingent REMARKS: 1458 st paif to raised Non 1-46 4 insach amad <u>'idianter</u> REVIEWED BY: Y \*---6-23-04 ŗ

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

CGT 4432 Exhibit 2 Page 1 of 2

#### PRESSURE REBULATING MARTIN LOCATION TYPE OF STATION

DATE

YEAR

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

	V	ALVES & CONTROL S	systems				ound Point	AS LEFT S	SETPOINT		CHI	ECKED/C	ALIBRATE	D OR SEI	RVICED 0.	F CONTR	IOL SYSTE	EMS
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKEO	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPORT	ACTUAL CONTROL POINT	DATE / INITIALS	Contr Pil	oller/ ot	POSTI	oner	Control Transi	. System Xucers		SAVER Cuit
(rog. mot, sele( ethcs)			YAN	YAN	YAL						cheek/cal	serviced	chaclVcal	serviced	checl/cal	<u></u>		
REG	V~10	OK	Y	Y	Y	137.9	138.1	137.9	138	WOBA 6-12-03	CM		V		N/A	N/A	NA	N/A
Mon.	1-46.59		Ý	Ý	Ý	148.5	14/8.1	148.5	145.1	Win/6-15-03	Cal		cal		N/A	W/H.	Cal	
REG	V-13	COLLOSINN	Y	V	Y	137.2	137.4	137,2	137.4	ulizlos uxps	CAL		1		NA	NA	1	V
Mon	V-12	OK	Y.	Ý	Y.	148	148	148	148	6-20/03 (DM	Cal		Cal		N/n	N/n		
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				<u>.</u>														
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	MAIN G	AS EQUIPMENT		
FILTER ( SEP,	ARATOR J OTHER	۹ 🗌	COMMENTS	:
Description	Checked	Replaced		
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G	IERAL STATION CON	IDITION ISSUES (If not OK, Indicate condition found.)
Fencing & Gales	ок <u>(</u> х)	
Yard/Landscaping	OK [X]	
Piping & Valves	OK (X)	,
Piping Alm.Corrosion	OK [K]	
Building/Cabinet	OKK NA[]	· · · · · · · · · · · · · · · · · · ·
Vaults	OKIXI NVALI	

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. 6-18-03

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

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CGT 4432 Exhibit 2 Page 2 of 2

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6-18-03

									GAS	SUPF	PLIES								•
G.S. NUMBER					1	st Stg F	EGS / REL	JEFS	2	nd Stg I	REGS/RE	LIEFS	3	rd Slg F	EGS / REL	IEFS	[		GENERAL CONDITION (LEAKS, ETC.)
1	DE	HYD	FIL	TER			SETPOI	VT (pslg)			SETPOI	NT (ps <b>ig</b> )			SETPOIN	√T (pslg)	DATE/	INITIAL	Include any additional
Device Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Left	Check	Service	As Found	Asleft	Check	Servico	As Found	As Leit .			
D -1	~								1								3-13	com	· · · · · · · · · · · · · · · · · · ·
FIA-/FIB			~														613	wm	
PCV-20A					1		95	95									\$ 13	im	
Pav-20C					V		98	100									\$ 13	(2M	
PCV-20B									-		20	20				and the second se	6-13	ion	
Pev-20 D									r		20	20					6-13	ion	
PSU-21A					1		108	JOP								•	6-13	Low.	
PSV-21C					1		011	ງເວ								· · · · · · · · · · · · · · · · · · ·	6-13	ion	<b>``</b>
PSV-21B									~		23	23					6-13	ion	

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Ch		
	Backup	
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· · · · · · · · · · · · · · · · · · ·		As Four	ıd		As L	eft	
TRANSDUCERS	0 pstg	Operating	J Pressure	0 psig		eraling essure	DATE / INITIAL
2-POINT CHECK	Transduc	Actual	Transducer	Transd	Actual	Transducor	
PSL-22	0	40	40	υ	60	60	
PT-14	0	135.7	135.5	0	135.7	135.5	clistos vxos
PT-30	0	362.3	362,8	0	34.7	3624	cliplos VKB3
:							

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REMARKS:

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REVIEWED BY: DM \am

6-13 12M

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

CGT 4432 Exhibit 2 Page 2 of 2

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TYPE OF STATION PRESSURE REGULATING LOCATION

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MARTIN STATION

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DATE 6/11/03

								· · · ·	GAS	S SUPI	PLIES							•
G.S. NUMBER		(m)			1	lst Stg I	REGS / REI	.IEFS	2	2nd Stg I	REGS / RE	LIEFS	:	Brd Stg I	REGS / RE	Liefs		GENERAL CONDITION (LEAKS, ETC.)
2	DEI	HYD	FIL	TER			SETPOI	NT (psig)			SETPO	NT (psig)			SETPOI	NT (pslg)	DATE/INITIAL	include any additional information below, if appropriate
Davice Tag	Check	Replace	Check	Replace	Check	Service	As Found	As Lefi	Check	Service	As Found	As Left	Check	Service	As Found	AsLeit		
D-2	~																chilos VXB3	
F2A/F2B			~					 					<u> </u>				dulos vxp3	
PCV-25A				<b></b>	~		96	95	<u> </u>								6/11/03 VXB3	
PCU-25C			[		V		100	100	ļ			<u> </u>					6/11/03 11X05	
PCU-25D		 			L			······································	V		20	20				{	6/11/03 1003	·
PCV-25B				L					V		20	20		[			c/11/03 VXBD	
PSV-26A			 		~		108	1012	<u> </u>		·						6/11/03 VKO3-	
PSV-26C	[		l		~		110	110	ļ				<u> </u>			•	6/1/03 VX03	· · ·
PSV-26B								· · · · · · · · · · · · · · · · · · ·	~		23	23	<u> </u>			,	11/03 VXB3	
PSV-26 D											25	25				<u> </u>	6/11/03 JXB3	

RTU	Power	Battery
RIU	Backup	Check
		•
		·····

		As Foun	d		As L	eft	
TRANSDUCERS	0 pslg	Operating	Pressure	0 psig		erating essure	DATE / INITIAL
2-POINT CHECK	Transduc	Actual	Trensducer	Tsansd	Actual	Transducer	
PSL - 27	υ	60	60	0	60	<u>ہ</u>	6/11/03 VX03
PT-11	0	138.6	138,2	0	1326	138.2	c/12/03 UX35
Рт-18	0	138.4	1383	0	1384	138,3	6/12/03 VX03
							•

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REMARKS:

39 REVIEWED BY: 6-18-03



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

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( CGT 4432 Exhibit 2 Page 2 of 2

TYPE OF STATION REGULATING

LOCATION MARTIN STATION

DATE 415/02

									GAS	S SUPI	PLIES								
G.S. NUMBER					1	st Stg I	REGS/RE	LIEFS	2	2nd Stg	REGS / RE	LIEFS		3rd Stg	REGS / RE	LIEFS	1		GENERAL CONDITION (LEAKS, ETC.)
2	DE	HYD	FIL	TER	90	H	SETPOI	NT (psig)	20	中	SETPO	INT (psig)			SETPO	NT (pslg)	DATE/INI	ITIAL	include any additional Information below, if appropriate
Device Teg	Check	Replace	Check	Replace	Check	Service	As Found	As Loft	Check	Service	As Found	As Left	Check	Service	As Found	As Left	1		
D-2	-																4/5/02 10	<b>A</b> B 3	
F-n			~														uson v		
PCV-25A					~		95	95									15/02 VA		
Pev-25c					~		001	100									65/22 VI	-บีว	· · · · · · · · · · · · · · · · · · ·
PCV-250											20	20					VITAL V		
PCV-25B									~		20	20	ł				chilor un		
PSV-26A					2		100	108			•						ulslor vx		
150-26C					1		110	110									15loz VX		
PSV-26B									V		22	22				· · · · · · · · · · · · · · · · · · ·	cb/or vx		······································
PSU-260									~		24.8	24.8					4/5/02 W		

SCADA EQUIPA	IENT Service &	/or Calibration
RTU	Power Backup	Ballery Check
		•
۱ 		

	As Foun	ď		As L	eft	
0 pslg	Operating	Pressure	0 psig		-	DATE / INITIAL
Transduc er	Actual	Tranzducer	Transdu	Actual	Transducer	1
0	40	60	9	ට	65	4/5/02 UXBS
╉──┤						
	Transduc Cf	0 pslg Operating Transduc sr Actual	Transduc Actual Transducer	0 pslg Operating Pressure 0 psig Transduc er Actual Transducer Transdu	0 pslg Operating Pressure 0 psig Operating Pressure 0 psig Pr Transduc cr Actual Transducer Transdu Actual	Opsig         Operating Pressure         Opsig         Operating Pressure           Transduc         Actual         Transducer         Transducer         Transducer           er         C         C         C         C         C

REMARKS:

REVIEWED BY:

M. Wa 6-10-02



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

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í CGT 4432 Exhibit 2 Page 2 of 2

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TYPE OF STATION REGULATING DATE 4/5/02

									GAS	S SUPI	LIES							······································
G.S. NUMBER					1	1st Sig	REGS / RE	LIEFS	2	2nd Sig	REGS / RE	LIEFS	3	rd Stg I	REGS / RE	Liefs		GENERAL CONDITION (LEAKS, ETC.)
#1	DE	HYD	FIL	TER	90	D任	SETPOI	NT (pslg)	20	H	SETPOI	NT (pslg)			SETPO	NT (psig)	DATE/INITIAL	include any additionai Information below, if appropriate
Device Tag	Check	Replace	Check	Replace	Check	Servico	As Found	Astelt	Check	Service	As Found	Aston	Check	Service	As Found	Astell	1	
PCV-200							:		~		20	20					usloz was	
P5V-21A					v		108	108									4562 W33	
PSV-210					~		110	110									6/5/22 VX83	
150-210				~					~	~	27	23			,		-15/02 UK 03	•
PSV-21D									~		22	22					415/52 UKOJ	
POV-200					~		102	100			:						6/1/02 VX63	
POV-20A					~		98	95			•						6/1/02 VXD3	
PCV-20B									~		18	20					6/1/02 4×63	
D-1	1																4/7/02 VX633	
FINFLID			~														6/7/02/07/03	

Power	Battery
Backup	Check
	·
	Power Backup

		As Fou	nđ		As L	.eft	
TRANSDUCERS	0 psfg	Operatin	g Pressure	0 pslg	1 1	perating ressure	DATE / INITIAL
2-POINT CHECK	Transduc	Actual	Transducer	Transdu	Actual	Transducer	]
f52-22	0	60	60	Q	60	60	45/02 VX03
· · · · · · · · · · · · · · · · · · ·							
		-	1				

REMARKS:

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REVIEWED BY: N

6/10/02 M. Wn

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

CGT 4432 Exhibil 2 Page 1 of 2

2003

DATE

YEAR

TYPE OF STATION

LOCATION

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

Reg

	v	LVES & CONTROL S	YSTEMS				ound Point	AS LEFT	SETPOINT		Сні	ecked/c	AUBRATED	OR SEF	IVICED OI	F CONTR	ol syste	ems
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Loaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE / DITTALS	CONTR Pil	oller <i>i</i> Ot	POSTIO.	NER	Control Transe		GAS S CIRI	
(reg. mon, relief.other)			YAL	Y/N	¥#4						check/col	serviced	check/cat	FORVICES	check/csl	renviced	check/cul	serverd
Mon	12		Y	Y.	y .	150	150	150	150	WM 6-7.02	Cal		Cal		N	MA	here	
Reg	13	V	Y	Ý	X	138	138	138	138	certan 6-7-02	Cal.		GI		AF	R.		
Rit	10		V	Y .	Y	138	138	138	138	War 6.742	Cal		Gal		N	In	W/	14
	46.59		Ý	Ŷ	<u>Y</u>	150	150	150	180	um 6-2-02	كما		Sal		M	m		
		<u>.</u>								· · · · · · · · · · · · · · · · · · ·			-				:	
								<b>[</b>										
	<u> </u>																	
······						<u></u>	<u> </u>	· · · ·					┟───┼╴					<b></b>

	MAIN G	AS EQUIPMENT	•
FILTER / SEP/	RATORIOTHE	2	COMMENTS
Description	Chacked	Replaced	
<u>,</u>			
	ł	!	

G	NERAL STATION CONDITION ISSUES (If not OK, Indicate condition found.)
Fencing & Galos	OKI 1 Needs Repaired
Yard/Landscaping	ok [L}
Píping & Valvos	OK[4
Piping Alm.Corrosion	OK fut
Building/Cabinel	OK[4 N/A]]
Vaults	OK MA()

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 RECORDICEPING 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 INITIALLED 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.

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

CGT 4432 Exhibit 2 Page 2 of 2

TYPE OF STATION Pressure Regulation LOCATION Martin Sta 5.5 DATE 6-19-01 GAS SUPPLIES G.S. NUMBER GENERAL CONDITION 1st Stg REGS / RELIEFS 2nd Stg REGS / RELIEFS 3rd Sig REGS / RELIEPS Reliet 1104 SETPOINT (psig) (LEAKS, ETC.) Relief 30 SETPOINT (psig) 100 2000 لملاسر DEHYD FILTER SETPOINT (pslg) Include any additional 2 DATE/INITIAL information below, If appropriate Device Tag Check Replace Check Replace Check Service As Found As Left Check Service As Found Check Service Asteft As Found As Lefi D-z ~ 6-19 com F-2 AdB. 6-19 wim 95 93.6 954 1 25-A 6-12 cm 25-0 1000 99.2 100 H ~ 6-19 War 26A 110 1104 110# Ð 6-19 wm 110 # 26-6 110 110#  $\sim$ 6.19 low 20 19.84 25-0 200 1 48% 6-19 cm 20 19.4" 25-0 ZON ~ 6-19 cm 3~ 26-B 30 # 30 "  $\boldsymbol{\nu}$ 6-19 wm 30 30 3 26-0 11 30 🕊 6-19 wm

RTU	Power	Batter
NIU	Backup	Check

		As Four	ъđ		As L	eft .	
TRANSDUCERS	0 psíg	Operating	Pressure	0 psig	1 1	erating ressure	DATE / INITIAL
2-POINT CHECK	Transduc er	Actual	Transducer	Transd	Actual	Transducer	
PT-18 CH3	10	135.2	135.2	0	1352	135.2	6-19 um
PT- 30 CH-0	0	360.3	360.0	Ø	3608	360.0	6-19 com
PT-11/04.1	0	135.0	135	0_	135	135	-6-19 am
PT- ,4 CH-2	0	135	135	0	135	135	6-19-Wm

Nothing in data Nothing in data Base

PLS-2 Checked set a 60 th Formal at 52 th adjusted to 61 th REMARKS: M. W.t Blzloi REVIEWED BY:

7

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

CGT 4432 Exhibit 2 Page 2 of 2

1 . . .

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

						-			GAS	SUP	PLIES								
G.S. NUMBER					Degs	ist Stg	REGS / REI		2000	nd Stg	REGS/RE	LIEFS		3rd Stg I	FGE RE	LIEFS			GENERAL CONDITION (LEAKS, ETC.)
1	DEI	HYD	FIL	TER	100	5	SETPOI	NT (psig)	20	20		NT (psig)			SETPOI	NT (pslg)	DATE	INITIAL	Include any additional Information below, if appropriate
Davice Tag	Check	Reptace	Check	Replace	Check	Service	As Found	As Left	Check	Sarvice	As Found	As Left	Check	Service	As Found	As Left	1		
D-1	~					ļ											6-19	low	
F-1 A&B	own	 	1														6.19	1	
20-C			<u> </u>		~		101.4	100									6-19		
20 - A					r		96.Z	25									6-14	ł	
21-C 21-A					~		110	110									6.19		
21-A	ļ				~		110	110					<u> </u>					win	
20 - B				ļ				·	-		20	20					1	wan	
20 - D						*******			~		20	20	<u> </u>				6-19		
21-B					]				-		30	30					1	WLA	
21-0									~		30	30					6-18		

RTU	Power	Battery Check
	Backup	Cneck
<u>ok</u>	N/A	

		As Fou	nđ		As L	eft	
TRANSDUCERS	0 psig	Operating	g Pressure	0 psig	-	peraling ressure	DATE / INITIAL
2-POINT CHECK	Transduc et	Actual	Transducar	Transd	Actual	Transducer	

REMARKS: GAS-Rack # 1 Has some small consiste pits and surface rent. PLS-1 Checked set at 60 th unable to trip at 60 th need to order news a Replaced PLS-1 switch and not 60 th REMARKS: new sintely Course M. Wint 8/2/01 REVIEWED BY

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

CGT 4432 Exhibit 2 Page 1 of 2

escuse fim TYPE OF STATION

LOCATION Martin

DATE 6-21 YEAR 2001

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

		V/	LVES & CONTROL S	YSTEMS				ound Point	ASLEFT	SETPOINT			СН	ECKED/C	ALIBRATE	D OR SEI	RVICED O	FCONTR	OLSYSTE	ems
	TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED	SETPOINT	ACTUAL CONTROL POINT	SETPOUIT	ACTUAL CONTROL POINT	DAT	TE / INITIAL S		OLLER / .OT	POST	ONER	CONTROL		GAS S CIRC	SAVER Cuit
Ċ,	(reg mon, redef,other)		······	YAL	YM	YAI							check/col	senises	checi/cst	serviced	check/cal	parked	check/cal	serviced
$\square$	Res	13	~	Y	Y	Y	138	138	138	138	6-21	pm	1		V		N)	A	×1	7
	Monito	12	~	Y	<u>Y</u>	<u> </u>	148	150	150	158	6.21	com			~		Ň	n	~	
	Reg	10	~	Y	Y	Y_	138	138	138	138	6-2	2 com	V		1		N	'n	N	17
	Month	46.59		Y	<u>    Y     </u>	Y	150	152	150	150	62	2000	V		-1		_N/A	<b>)</b>	V	
												,		-						
			······································															··		
					<b></b>															
											·					•••••••				

	MAIN G	AS EQUIPMENT	
 FILTER / SEP	ARATORIOTHE	2	COMMENTS
 Description	Checked	Replaced	

GI	ENERAL STATION CONDITION (SSUES (If not OK, Indicate condition found.)
Fencing & Gales	OK [¥]
Yard/Landscaping	OK [X]
Piping & Valves	OKIXI Some Nithing and surface Consider
Piping Atm. Corrosion	
Buliding/Cabinet	OK [X] N/A []
Vaults	OK [X] N/A [ ]

NOTES:

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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 RECORD KEEPING 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 INITIALLED AS REQUIRED IN THE REMARKS SECTION ON PAGE 2.

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

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

CGT 4432 Exhibit 2 Page 2 of 2

DATE

7-00

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TYPE OF STATION

1 :

PLS

LOCATION MARTIN 51

							GAS S	SUPPLIES	,					
G.S. NUMBER	DEHYD	RATOR	Fil	TER	RI	EGULATO	RS / RELIEI	FS	100/06.ps	ig SUPPLY	7.0/18p	ig SUPPLY	DATE INITIALS	GENERAL CONDITION (LEAKS, ETC.)
#					1st s	tago	2nd	stage	1st s	stage	2nd	slage	7-28-0	Include information on additional stages, if
6-	Checked	Roplaced	Checked	Replaced	Checked	Serviced	Checked	Serviced	As Found	As Left	As Found	Asich	7-20	appropriate
D-2-	~				Rogs I				104.7	100.3			7-28 wm	
F-2	Box		Arr		Reletsj 🗸				130	130			7-28 un	
					Rogs				94.5	95.2			7-25 com	······································
					Refets				120	120			7-24	
					Reas 1 ph					·	19.3	20.3	7-28-m	Replaced adjusty Acree
					Refets		5			•	30	30	7-28 Lan	
					Rops 1	. •	_/				19.9	19	7-28 com	
					Reliefs		8/			· ·	32	32:	7-28 Way	<u></u>
										•				

SCADA EQU	IPMENT So	rvice &/or (	Calibration
RTU	Power Backup	Battery Check	
7-28-00	N/A	6	
,	(		1

		As Found			As Left		
TRANSDUCERS	0 psig	Operating	g Pressure	0 pslg	Operating		DATE / INITIAL
2-POINT CHECK	Transcucer	Actual	Transducer	Transducor	Actual	Transducer	7-28-00
PT-18	0	135,5	136	0	135.5	136	wow
PT-11	0	137,0	136	0	137	136	win
PT-M	0	137	136	0	130	36	com
PT-30	3	359	357	0	359	358	ion

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Models Relief Value incus -6MT-100 REMARK 55 71-6m -20 -1 559

REVIEWED BY:

8/21/00 M. West

Form F4432B 02/2000

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

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CGT 4432 Exhibit 2 Page 2 of 2

G.S. NUMBER	DEHYI	RATOR	FIL	TER	R	EGULATO	GAS RS / RELIE	SUPPLIES		sig SUPPL	Y 7 6 P	sig SUPPL	DATE	GENERAL CONDITION (LEAKS, ETC.)
				¥	1st s	tage	2nd	stage	1	stage	1	stage	INITIALS	Include information on additional stages,
	Checked	Replaced	Checked	Replaced	Checked	Serviced	Checked	Serviced	As Found	As Left	As Found	As Loft		appropriate
GS-1	$\checkmark$				Regs J	<u> </u>	<u>pr</u>		98.9	100	and the	92	6-30 Wm	
					Refofs  V	1	<b> </b>	<u> </u>	110	110	I		6-30 wm	
					Rogs 1	_ <u>/</u>		· · · · · ·	92_	95			6-30 cm	
					Relatsi V	<u> </u>			110	<u>IID</u>			6-30 wm	
					Reps   MA		V				20	20	6-30 wm	
			·	• -	Refers)		<u> </u>				35	35	6-30 cm	
					Rogs   Refefs	· ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~			20	20	6:30 wm	· •
				• •	I'reist?	· · ·				<u> </u>	30	30	6-30cm	
						·								
202004 501110		VICO 6/OF C	alloration					As Found			As Loft			
SCADA EQUIP RTU	Power Backup	Battery Check			TRANSD	JCERS	0 psig	Operating	Pressure	0 psig	Operating	Pressure	DATE / INITIAL	
RTI	Power				TRANSDU 2-POINT C	ļ	0 psig Transducer	Operating Actual	Pressure Transducer	0 pslg Transducer			DATE / INITIAL	
RTI	Power					ļ					Operating Actual	Prossuro Transducer	DATE / INITIAL	
RTI	Power					ļ							DATE / INITIAL	
RTI	Power					ļ							DATE / INITIAL	
RTI	Power			-		ļ								
RTU	Power					ļ							DATE / INITIAL	
RTU	Power					ļ								
RTI	Power					ļ							DATE / INITIAL	
RTU	Power					ļ								
RTU	Power					ļ								

	CGT STATION MAINTENANCE REPORT	
	GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT	

CGTS 4432 Exhibit 2 Page 1 of 2

TYPE OF STATION	Pressure	Limiting	LOCATION Martin Station	DATE June
FORM TO BE USED AT	REGULATOR STATIC	ON, PRESSURE LIM	AITING STATION, AND TERMINALS. REFER TO CGT STANDARD S 4432.	YEAR 2000

/ }	VA	LVES & CONTROL S	SYSTEMS				ound Point		left Point			CHE	CKED A	NO/OR	SERVIC	ED OF (	CONTRO	DL SYST	EMS
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, elc.)	VALVE SERVICEO	VALVE STROKED	VALVE ACTUATOR INSPECTED		CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DAI	EINITIALS		iolle <b>r</b> /	POST	IONER	CONTRO I TRANS		GAS S CIR	SAVER CUIT
(reg, mon, relief,other)			Y/N	YIII	YIN							checked	sorvicod	checked	serviced	checked	serviced	chocked	soniced
	46.59	~	~	V	$\checkmark$	150	150	150	150	arm	16-29-00	~	/	V	/	N	A		
Reg	10	~	V	V	1	Var	ies h	amile	Ret	wom	16-30.00	~	~		V	NI	14	N	R
Ret	13	4	· ~	V	-	Vor	in 12	mit			6.30 00	4	V	4	2	BY	IA	WO	M
MR	12	V	~	1			150	150.	150	usar	- 6:3000	LL	V	V	V	N	1A	1	
												<u> </u>	<u> </u>						
								·				ļ							
·									h		·····								
,_,,,,																			
					<u> </u>		L		I	L		L							

	MAIN GAS	EQUIPMENT			GENERAL STATION COND	ITION
FILTER / SEP	RATOR / OTHER		COMMENTS	Foncing & Gates	OK	
Description	Checked	Reptaced		Yard/Landscaping	OK,	
				Piping & Valves	OK Matrie Value GS	2 Replaced ser memo
				Vaults	OK also P.S. on 65	1.2 Repland
				Building	0K	

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 RECORD/EEPING PURPOSED 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.
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- 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 \_

Form F4432B

5/99

LOCATION\_

DATE 8/21/00

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Form F4432B

5/99

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GAS SYSTEM MAINTENANCE AND TECHNICAL SUPPORT

CGT S 4432 Exhibit 2 Page 1 of 2

YEAR

# TYPE OF STATION PRESSURE LIMITING LOCATION MARTIN STATION

	VA	ALVES & CONTROL S	YSTEMS		~		ound Point	AS LEFT	SETPOINT		СНЕ	CKED /	ND/OR	SERVIC	EDOF	CONTRO	XL SYST	EMS
TYPE OF VALVE	VALVE NUMBER	GENERAL CONDITION (Leaks, etc.)	VALVE SERVICED	VALVE STROKED	VALVE ACTUATOR INSPECTED		ACTUAL CONTROL POINT	SETPOINT	ACTUAL CONTROL POINT	DATE / INITIALS		ROLLER / LOT	POST	IONER		L SYSTEM DUCERS	GAS S CiRC	SAVER CUIT
eg, mon, relief,other)			YAN	Y/N	YAN						thecked	serviced	chocked	serviced	checked	serviced	chocked	serviced
MON.	46.59	OK.	Y	Y	Y	14 N	199	MAN .	150	10-11-99/RUL&	$\checkmark$	~		/				
REG.	10	O.K.	N	Y	X	VARIE	S-REM	YLIJTC		10-11-99/RULS	/	/	/	~	1			
MON.	12	O.K.	Y	Y	Y	147	43	48		10/11/99/RUD	~	/	1	~	1			
REG.	13	0.K.	<u> </u>	Y	Y	VARIES	-Remo	ELY SE		loriv99/RLLø	~	/		$\checkmark$	V			
									<u>_</u>									
<u>j</u>																		

	MAIN G/	AS EQUIP	MENT
<b>EILTER/SEPA</b>	RATOR) OTHE	R	COMMENTS
Description	Checked	Replaced	
GS-1			Faind Day
62-5	/		FOUND DRY

	GENERAL STATION CONDITION	
Fencing & Gates	0, K.	
Yard/Landscaping	0,K.	
Piping & Valves	FOUND EXTERNAL CORRESION ON METRIC VALVE, G3-2. MADE I	ISMO
Vaults	O.K.	
Building	OK.	1

NOTES:

- 1) THIS FORM WILL BE USED WHENEVER MAINTENANCE IS PERFORMED AT A FACILITY WHICH HAS PRESSURE REGULATING, PRESSURE RELIEF AND/OR PRESSURE MONITORING EOUIPMENT.
- 2) THIS FORM WILL BE RETAINED FOR RECORDKEEPING PURPOSED 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 INITIALLED 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.

DATE OCTORER-11

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Form F4432B 5/99

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

CGT S 4432 Exhibit 2 Page 2 of 2

## TYPE OF STATION PRESSURE LIMITING

LOCATION MARTIN STATION

DATE 10/11/99

						GAS S	UPPLIES	5					
DEHYD	RATOR	FIL	TER	RI	EGULATO	RS / RELIE	FS	ps	ig SUPPLY	ps	ig SUPPLY	DATE INITIALS	GENERAL CONDITION (LEAKS, ETC.)
				1st s	lago	2nd	stagø	1st	stago	2nđ	stage		Include information on additional stages, if appropriate
Checked	Replaced	Checked	Replaced	Checked	Serviced	Checked	Serviced	As Found	AsLeft	As Found	Asleft	1	. Freedomen
~		/		Rogs		>		109/95	109/95	51/19	21/20	1911/95- RULD	
-		_		Reliefsj									
~		~		Reps 1		~		99/85	99/85	20/19	21/20	10/11/99 8419	
				Releist									
													······································
		DEHYDRATOR Checked Replaced	Checked Replaced Checked	Checked Replaced Checked Replaced	1st s       Checked     Replaced       Checked     Replaced       Checked     Replaced       Regs 1     Refefs       Regs 1     Regs 1	Ist stago       Checked     Replaced       Checked     Replaced       Checked     Replaced       Checked     Replaced       Regs 1     Replaced	DEHYDRATOR FILTER REGULATORS / RELIE 1st stago 2nd Checked Replaced Checked Sorviced Checked Regs 1 / / Reselfs Regs 1 / / Reselfs	DEHYDRATOR     FILTER     REGULATORS / RELIEFS       1st stago       Checked     Roplaced     Checked       Sorviced     Checked     Sorviced       Checked     Roplaced     Checked       Sorviced     Checked     Sorviced       Regs 1     Regs 1     Image: Checked	Ist stago     2nd stago     1st       Checked     Roplaced     Checked     Sorviced     Checked     Serviced     As Found       //     //     Regs 1     //     //     109/35       //     Regs 1     //     99/85	DEHYDRATOR     FILTER     REGULATORS / RELIEFS	DEHYDRATOR     FILTER     REGULATORS / RELIEFS     psig SUPPLY     psig SUPPLY       1st stago     2nd stago     1st stago     2nd       Checked     Replaced     Checked     Serviced     As Found     As Left     As Found       /     /     Regis 1     /     /     109/35     109/35     21/19       /     Reselfs     /     Regis 1     /     99/85     39/85     29/19	DEHYDRATOR     FILTER     REGULATORS / RELIEFS	DEHYDRATOR       FILTER       REGULATORS / RELIEFS

SCADA EQ	UIPMENT SO	ervice &/or (	Calibration
RTU	Power Backup	Battery Check	

			TWO POI	NT CHECK	
TRANSDUCERS	As F	ound	As	Left	DATE / INITIAL
	low	high	low	hìgh	

REMARKS: FOUND METRIC VALVE FOR PRESS, SWITCH ISCLATION ON GS-2 CORRODED, WILL MAKE OUT

WORK REQUEST, ALSO PS ON GS-2 IS BAD, WILL NOT MAKE, - RILD

M. West REVIEWED BY: