

F& Electric Company		OT OPERATOR	QUALIFICA	ATION
QUALIFICATION E	VALUATION		Initial Subsequ	uent
EMPLOYEE FULL NAME (PRINT)		Last	four of SS#	
Em Co (EE)				
b Title Area _	Work Location			
ubtask Name Start / Operate Shutdown Turbine - Local		Subtask #	12-01 00	
UBTASK OBJECTIVE Using one or more of the below "Evaluation Methals ask following these qualification criteria	ods" demonstrated the k	nowledge skill and	ability to perfo	Qualifie
Safety Requirements				
Ability to identify and resolve abnormal operating condition(s)				
Access, understand and apply the following Company Standard - Gas Standard - CGT 4431 & 4432				-
Map Reading Understand CGT pipeline configuration Locate & identify compressor using operating diagram or facility diagram.	rawng			
 Verify operating diagram or facility drawing is accurate 				Ö
Equipment Check Inspect compressor for leakage Inspect associated auxiliary systems for leakage, corrosion and a Monitor the mechanical operation of the compressor and auxiliary	bnormalities r systems			-
5 Turbing Compressor Operation				 "
Unit Start up operations – purge start, load & secure unit Unit Operate operations – load unload & secure unit				
 Unit Shutdown operations – shutdown, unload & secure unit 				0
Operation Procedures Knowledge of compressor troubleshooting procedures Documentation of compressor operation completed, with abnorm				
EVALUTION METHODS (Check all that apply) Observation On-The-Job Performance Observation by On-The-Job Training Written Base Test (alation 🚨	Oral Test DOTHER - Field	d Performanc	e Audit
Comments / Actions				
EVA	LUATOR'S SIGNATURE		DAT	E
EVALUATOR S NAME AND CORP ID EVA	COM ON O CICHATIONE			

623/05 version

OM&C/FSD - Mell completed original Qualification Evaluation (orm(s) to Room B101 @ 3301 Crow Canyon Rd, San Ramon CA

CGT - Mail completed original Qualification Evaluation form(s) to 375 N Wiget Lane Weinut Creek CA

CM&C/FSD/CGT - Send copy to LGOCPC (Local Gas Operator Qualification Plan Coordinator)



Subtask Name	Start / Operate Shutdown Turbine - Local	Subtask#	12-01 00	_

Evaluator must provide the following reference material(s)

- Abnormal Operating Condition (AOC) Job Aid
- Gas Standard

Note

Using reference material(s) listed above, individuals must answer all questions correctly. If individual cannot provide the correct answer(s) or demonstrate performance after two additional attempts, the Evaluator should refer to the Operator Qualification Basic Plan Manual, Section 1 3 3 3 for further instructions

	Knowledge	
ſ		Requirement
ı	1	Review Annual Operator Qualification Job Aid and Abnormal Operating Conditions (AOC)
		with individual(s)
-	2	Provide individual with Start / Operate Shutdown Turbine - Local Test

_	
Performa	nce
3 - 6	nce Individual must perform checks as required on the Qualification Evaluation for each of these
• •	following method(s)
	Map Reading
	Equipment Check
	Turbine Compressor Operation
	Operation Procedures
	• Operation Procedures
	Note
ľ	Skill must be demonstrated through simulation or actual field performance. Individual must
l	Skill must be demonstrated through shindard the same as Stone 3-6)
ļ	verbalize each action step (bulleted items in Steps 3-6)

Room B101 @ 3301 Crow Canyon Rd San Ramon CA @ 375 N Wiget Lane Walnut Creek, CA Plan Coordinator) 6/23/05 version
OM&C/FSD - Mail completed original Qualification Evaluation form(s) to
GGT - Mail completed original Qualification Evaluation form(s) to
OM&C/FSD/CGT - Send copy to LGOQPC (Local Gas Operator Qualification to



DOT OPERATOR QUALIFICATION

OPERATOR QUALIFICATION

☐ Initial☐ Subsequent

Subtask Questions

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EMPLO	YEE FULL NAME (PRINT)	THE STATE OF THE S	Date	
Subtask Name	Start / Operate Shutdown Turbine	- Local	Subtask #	12-01
Instructions	Answer the questions below in the answered correctly	space provided. All	questions must	be
1. Prior to sta	rting a unit, which of the following n	ust be checked or ver	ified?	
	A. Master Clearance Board B Operating Log Book C Contact Gas System Operations D. Visually inspect unit E. Inform personnel at the station F. All of the above			
2 Once a loc	al start sequence is initiated, which o	f the following should	occur?	
	A. Prelube starts B. Buffer air system comes on (if ur C. Unit piping purges and pressurize D. Unit cranks, light off, accelerates E. Unit "completed sequence" or "o F. All of the above	uit is equipped with dr es s, compressor breakaw n line"	y gas seals) ay achieved	
3. When ther	re is an active gas detection impairments should be monitored?	ent, can the unit be ope	erated? If yes, v	what, if
	A. Yes, the unit can be operated S checked with a portable gas det B No, it can not be operated unit if C Yes, the unit can be operated S D. No, the unit can not be operated checked with a portable gas determined.	ection system levice is fixed tation must be manned Station must be man	i	

Revised December 1, 2008

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DOT OPERATOR QUALIFICATION

Subtask Name	Start / Operate Shutdown Turbine - Local Subtask # 12-01
Instructions	Answer the questions below in the space provided All questions must be answered correctly.
4 For a non-E	SD stop, approval must be obtained from prior to taking a unit off
	A Gas System Operations via Brentwood 3. Director C Engineer D Tech Specialist
5 Which of th to be left av	e following must occur before leaving the station after a unit stop and the unit is allable?
	A Station remote / local selector switch must be in REMOTE B Post lube C. Visually inspect the unit D. Enter unit information in the station log book E All of the above F None of the above

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	QUALIFICATIO	N EVALUATION	□ Initial □ Subse	quent
	THE WAY (DOWN)	Т	Last four of SS#	
	EMPLOYEE FULL NAME (PRINT)			
		<u></u>		
lab Title	Are	ea Work Location		
Subtask	Name GSO - Start / Operate / Stop Compressor Mo	tor Remote	Subtask #12-02 00	
SUBTAS	SK OBJECTIVE Using one or more of the below "Evaluation wing these qualification criteria	Methods' demonstrated the l	knowledge skill and ability to per	rform this
				Qualified
	fety Requirements Ability to identify and resolve abnormal operating condition(s)		
2 Ac	cess, understand and apply the following Company Stands	ard(s)		<u> </u>
	Gas Standard - CGT 4420			
	ap Reading			+
•	Understand CGT pipeline configuration			· I
1.	Locate & identify compressor using operating diagram or fac-	ality drawing		l l
	Venfy operating diagram or facility drawing is accurate			
4 Pr	e Operating / Equipment Check			
•	Noufy local personnel			1
	Check unit availability			
	Check valving configuration			
	ompressor Motor Operation			
•	Unit Start up operations Unit Operate operations			Į.
:	Unit Stop operations			$+$ $\overline{}$
	peration Procedures			
• + •	Knowledge of compressor troubleshooting procedures			1
	Documentation of compressor operation			
Observ Observ	JTION METHODS (Check all that apply) ration On-The-Job Performance Observation by ration by On-The-Job Training Written Base To		Oral Test OTHER - Field Performan	nce Audit 🚨
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	EVALUATOR'S NAME AND CORP ID	EVALUATOR S SIGNATURE	D/	ATE
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6/23/05 version

OM&C/FSD - Mail completed original Qualification Evaluation form(s) to

CGT - Mail completed original Qualification Evaluation form(s) to

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Subtask Name GSO - Start / Operate / Stop Compressor Motor Remote Subtask# 12-02 00

Evaluator must provide the following reference material(s)

- Abnormal Operating Condition (AOC) Job Aid
- Gas Standard
- GSO Training Manual Job Aids

Note

Using reference material(s) listed above, individuals must answer all questions correctly. If individual cannot provide the correct answer(s) or demonstrate performance after two additional attempts, the Evaluator should refer to the Operator Qualification Basic Plan Manual, Section 1 3 3 3 for further instructions

Knowledg	е
Criteria#	Requirement
1	Review Annual Operator Qualification Job Aid and Abnormal Operating Conditions (AOC)
	th. medical divol(a)
2	Provide individual with GSO - Start / Operate / Stop Compressor Motor Remote Test
Performa	nce I individual must perform checks as required on the Qualification Evaluation for each of these
2 6	Lindwidual must perform checks as required on the Qualification Evaluation for each of the

Performa	nce for each of these
3 - 6	Individual must perform checks as required on the Qualification Evaluation for each of these following method(s) • Map Reading • Pipe Operating / Equipment Check • Compressor Motor Operation • Operation Procedures
	Note Skill must be demonstrated through simulation or actual field performance. Individual must verbalize each action step (bulleted items in Steps 3-6)

6/23/05 version

OM&C/FSD - Mail completed original Qualification Evaluation form(s) to Room B101 @ 3301 Crow Canyon Rd San Ramon CA

CGT - Mail completed original Qualification Evaluation form(s) to @ 375 N Wiget Lane Walnut Creek CA

OM&C/FSD/CGT - Send copy to LGOQPC (Local Gas Operator Qualification Plan Coordinator)



DOT OPERATOR QUALIFICATION

OPERATOR QUALIFICATION

☐ Initial☐ Subsequent

Subtask Questions

ЕМ	PLOYEE FULL NAME (PRINT)		Date	
Subtask Name	GSO - Start / Operate / Stop Compre	essor Motor Remote	Subtask #	12-02
Instructions	Answer the questions below in the correctly.	space provided All que	stions must be ansv	vered
1. Prior to sta	arting the compressor unit, the opera	ator should:		
	A. Check the station valving config	guration		
	B. Check compressor status for av	ailability		
	C. Check upstream and downstream	m pressure conditions		
	D All of the above			
2. In the AD	ACS SCADA system, a running con	mpressor is indicated b	oy.	
П	A. A red symbol			
	B A green symbol			
	C. A black symbol			
	D. None of the above			
In the AD.	ACS SCADA system, an unavailab	le compressor is indica	ated by	
П	A, A red symbol			
	B. A green symbol			
	C A black symbol			
	D. None of the above			
4. Prior to st	arting a compressor unit at a station	, the Gas System Oper	rator should	
П	A Submit a maintenance request			
	B. Send an e-mail to the compress	or engineer		
	C. Page the gas maintenance supe	rvisor		
	D. Call the station to notify station	n personnel who may b	oe on site	
			Continued or	

Revised December 1, 2006

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DOT OPERATOR QUALIFICATION

Subtask Name GSO - Start / Operate / Stop Compressor Motor Remote Subtask # 12-02
Instructions Answer the questions below in the space provided All questions must be answered correctly
5 If an operator receives a HI-HI gas detection alarm from an unmanned compressor station and the compressor(s) at the station shut down, the station block valves close, and the station blow off opens, the correct procedure to restore the station to operation is.
 A Wait for the HI-HI gas detection alarm to clear and attempt to put the station back in service B Immediately attempt a re-start on the compressor in case the gas detection alarm was a false alarm C Call the responsible Gas Maintenance Supervisor to dispatch maintenance
personnel to the station to discover the cause of the HI-HI gas detection alarm and to determine if the station can be returned to service D All of the above
 If natural gas is not sufficiently cooled after being discharged from a compressor there is a risk that.
 □ A The gas could combust inside the pipe □ B The BTU value of the gas would be changed □ C The protective coating on the buried pipe downstream of the station could be damaged by the elevated temperature of the gas □ D. None of the above
7. Compressor unit damage could occur if
A Maximum differential were breached B Minimum differential were breached C All of the above D None of the above
8. What action would you take if the MOP downstream of a running compressor station were exceeded?
A Shutdown the compressor B Add compression at the station upstream C Request an increase in MOP from the pipeline engineer D Call out a crew to reset the station relief valve below the MOP
Revised December I. 2006 2



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		QUALIFICATIO	N EVALUATION		□ Initial □ Subsequen
	EMPLOYEE FULL NAME (PRIN	m) (Las	st four of SS#
Job Title		Area	Work Location	1	
Subtask Name	Start / Operate Shutdown	- Recip / Local		Subtask #	12-03 00
	ECTIVE Using one or more of equalification criteria	the below "Evaluation I	Methods" demonstrated the	knowledge skill an	d ability to perform this
			· · · <u>-</u>		Quali
1 Safety Requ					
2 Access, un	o identify and resolve abnormal derstand and apply the followi		d(e)		
Gas St Map Readir	andard - CGT 4431 & 4432				
	tand CGT pipeline configuration				
	& Identify compressor using ope		ly drawing		
4 Equipment	perating diagram or facility draw	ang is accurate			
Inspect	compressor for leakage				
	t associated auxiliary systems for the mechanical operation of the				
	ing Compressor Operation	compressor and adam	any aysterns		-
	art up operations - purge start				
	perate operations - load, unload nutdown operations - shuldown				İ
6 Operation f	rocedures				
Knowle Docum	edge of compressor troubleshoot entation of compressor operation	ing procedures	mallilas natod. If analyzable	_	1
Observation On-	ETHODS (Check all that app The-Job Performance in-The-Job Training tlons	ply) Observation by Sir Written Base Test		Oral Test O OTHER - Field	d Performance Audil
EVALUATO	OR'S NAME AND CORP ID		'ALUATOR'S SIGNATURE		DATE
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6/23/05 version

OM&C/FSD - Mail completed original Qualification Evaluation form(s) to Room B101 @ 3301 Crow Canyon Rd San Ramon CA

CGT - Mail completed original Qualification Evaluation form(s) to @ 375 N Wiget Lane Walnut Creek CA

OM&C/FSD/CGT - Send copy to LGOQPC (Local Gas Operator Qualification Plan Coordinator)



Subtask Name Start / Operate Shutdown - Recip / Local Subtask# 12-03 00

Evaluator must provide the following reference material(s)

- Abnormal Operating Condition (AOC) Job Aid
- Gas Standard

Note

Using reference material(s) listed above, individuals must answer all questions correctly. If individual cannot provide the correct answer(s) or demonstrate performance after two additional attempts, the Evaluator should refer to the Operator Qualification Basic Plan Manual, Section 1 3 3 3 for further instructions.

Knowled

Triowieug	
Criteria #	Requirement
1	Review Annual Operator Qualification Job Aid and Abnormal Operating Conditions (AOC) with individual(s)
2	Provide individual with Start / Operate Shutdown – Recip / Local Test

Performance

Performa	
3 - 6	Individual must perform checks as required on the Qualification Evaluation for each of these following method(s) • Map Reading • Equipment Check • Reciprocating Compressor Operation • Operation Procedures
	Note Skill must be demonstrated through simulation or actual field performance. Individual must

verbalize each action step (bulleted items in Steps 3-6)

6/23/05 version
OM&C/FSD - Mail completed original Qualification Evaluation form(s) to Room 8101 @ 3301 Crow Canyon Rd San Ramon CA CGT - Mail completed original Qualification Evaluation form(s) to @ 375 N Wiget Lane Walnut Creek CA OM&C/FSD/CGT - Send copy to LGOQPC (Local Gas Operator Qualification Plan Coordinator)



DOT OPERATOR QUALIFICATION

OPERATOR QUALIFICATION

☐ Initial ☐ Subsequent

Task Questions

EMP	LOYEE FULL NAME (PRINT) Date
Fask Name	Start / Operate Shutdown - Recip. / Local Task #. 12-03
Instructions	Answer the questions below in the space provided All questions must be answered correctly.
1. Prior t	to starting a unit, which of the following must be checked or verified?
	A. Verify station/unit valve positions B. Master Clearance Board C. Operating Log Book D. Contact Gas System Operations E. Visually inspect unit F. Inform personnel at the station G. All of the above
2. Once	a local start sequence is initiated, verify the following systems are operating:
	A Prelube B. Cooling water C All cylinders completely loaded D. A and B E. A and C F. A and B and C
	there is an active gas detection impairment, can the unit be operated? If yes, what, systems should be monitored?
	 A. Yes, the unit can be operated. Station must be manned and periodically checked with a portable gas detection system B. No, it can not be operated until device is fixed C. Yes, the unit can be operated. Station must be manned D. No, the unit can not be operated. Station must be manned and periodically checked with a portable gas detection system
	. Continued on next page

Revised April 1, 2009

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Task Name Start / Operate Shutdown - Recip. / Local		Task #	12-03		
Instructions Answer the questions below in the space provanswered correctly.		Answer the questions below in the space provanswered correctly.	rided All questions must be		
5		ormally high process gas discharge temperatures are A High LO temperature B Leaking compressor valves C High differential pressure D. Over torque non-ESD stop, approval must be obtained from	·		
		A. Gas System Operations via Brentwood B Director C Engineer D Tech Specialist			

Revised April 1, 2009



		DOT OPERATO	RQUALIFICATION
QUALIFICATIO	N EVALUATION	_	initial Subsequent
EMPLOYEE FULL NAME (PRINT)		Last	four of SS#
Job TitleAre:	Work Location		
Subtask Name Inspect and Maintain Odorant Equipment	· · · · · · · · · · · · · · · · · · ·	Subtask #	19-01 00
SUBTASK OBJECTIVE Using one or more of the below 'Evaluation task following these qualification criteria	Methods' demonstrated the k	nowledge skill and	ability to perform this
1 Safety Requirements			Qualified
Ability to identify and resolve abnormal operating condition(s)			<u> </u>
2 Access, understand and apply the following Company Standar	d(s)		
UO Standard S4350 Odorization of Natural Gas			
Map Reading Locate and identify sampling locations using operating diagram	a se facility days		0
4 Odor Intensity Meter Inspection	n or facility drawing		
Check meter for correct operation	· · · · · · · · · · · · · · · · · · ·		
Check meter for cleanliness to prevent accumulation of any re Operation Procedure	sidual odors		
Operation Procedure Demonstrate how to Startup Operate and Shutdown Odonzer			0
Check and adjust system pressures Check for general alarms			
6 Inspection and Maintenance Procedures and Documentation			0
Calculate odonzation rate Purge and perform maintenance			
Troubleshoot for common problems			
 Adjust rate of odonzation for proper odor intensity 			
Document inspection and Maintenance	 		
EVALUTION METHODS (Check all that apply) Observation On-The-Job Performance Observation by Sin Observation by On-The-Job Training Written Base Test Comments / Actions		Oral Test D OTHER - Field	Performance Audit 🛛
EVALUATOR S NAME AND CORP ID EVA	ALUATOR'S SIGNATURE		DATE
6/23/05 version OM&C/FSD - Mail completed original Qualification Evaluation form(s) to CGT - Mail completed original Qualification Evaluation form(s) to OM&C/FSD/CGT - Send copy to LGOQPC (Local Gas Operator Qualifica	@ 375 N Wiget Lane V	01 Crow Canyon Re Valnut Creek, CA	d San Ramon CA 1

GTR0009869 Material Redacted



Subtask Name Inspect and Maintain Odorant Equipment Subtask# 19-01 00

Evaluator must provide the following reference material(s)

- Abnormal Operating Condition (AOC) Job Aid
- Gas Standard

Note

Using reference material(s) listed above, individuals must answer all questions correctly. If individual cannot provide the correct answer(s) or demonstrate performance after two additional attempts, the Evaluator should refer to the Operator Qualification Basic Plan Manual, Section 1 3 3 3 for further instructions.

Knowledge

Criteria #	Requirement
1	Review Annual Operator Qualification Job Aid and Abnormal Operating Conditions (AOC) with individual(s)
2	Provide individual with Inspect and Maintain Odorant Equipment Test

Performance

Репогта			
3 - 6	Individual must perform checks as required on the Qualification Evaluation for each of these		
	following method(s)		
	Map Reading		
1	Odor Intensity Meter Inspection		
	Operation Procedure		
	Inspection and Maintenance Procedures and Documentation		
	Note		
	Skill must be demonstrated through simulation or actual field performance. Individual must		
	verbalize each action step (bulleted item in Step 3-6)		

6/23/05 version

OM8C/FSD - Mail completed original Qualification Evaluation form(s) to Room B101 @ 3301 Crow Canyon Rd, San Ramon CA

CGT - Mail completed original Qualification Evaluation form(s) to @ 375 N Wiget Lane Walnut Creek CA

OM8C/FSD/CGT - Send copy to LGOQPC (Local Ges Operator Qualification Plan Coordinator)



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DOT OPERATOR QUALIFICATION

OPERATOR QUALIFICATION

□ Initial
□ Subsequent

Subtask Questions

		国人	
Subtask Name	Inspect and Maintain Odorant Equ	ipment	Subtask#. 19-
Instructions	Answer the questions below in the correctly.	ne space provided. All questic	ns must be answere
1. How much	odorant must be added to our nat	tural gas?	
	A. At least 0 5 lb/MMscf		
	B. Between 0.25 and 1.0 lb/MMs	ocf	
	C. Such that it is readily detectab	le at 0.1% to 0.6% gas in a	ir
Ш	D. Such that it is readily detectab	le at 5% to 15% gas in air	
2. PG&E cur	rently uses all of the following od	orizers, <u>EXCEPT</u>	
	A. Farm tap odorizer		
	B. NJEX injection-type odorizer		
	B. NJEX injection-type odorizer C. MP odorizer		
	D OdorEyes Pulse bypass		
3. Which con	pany Gas Standard covers "Odor	ızation of Natural Gas"	
	A. S-4350		
	B. S-4333		
	C. S-4432		
	D. 49 CFR 192 625		
4. The NJEX	expansion tank pressure should b	e set to:	
	A. 75 psig		
	B. 50 psig		
	C. 25 psig		
Ц	D. atmospheric pressure		
			Continued on next

Revised December 1, 2006

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DOT OPERATOR QUALIFICATION

Subtask Name	Inspect and Maintain Odorant Equipment	Subtask #	19-01
Instructions	Answer the questions below in the space provided A correctly.	li questions must be a	nswered
5. The proper	actuation pressure for a pipeline operating at 700 ps	ng is	
	A 35 psig		
	B. 45 psig		
H	B. 45 psig C 50 psig D 75 psig		
	the following maintenance items should be performed	on a weekly beere?	
		ton a weekly basis?	
H	A Change filters		
H	C. Check oil level		
	B. Rebuild pump C Check oil level D Replace solenoids		
7. To vent the	NJEX system for maintenance, the first valve one si	hould open is?	
	A V-7		
	B V-5 C V-1		
H	C V-1 D V-3		
8 The 7000 se	cries pump has a maximum stroke volume of.		
	A 01 cc		
	B 1.0 cc		
	B 1.0 cc C. 5.0 cc D All of the above		
□ .	D All of the above		
9 The function	n of the Verometer is		
	A. Odorant storage		
	B Filtering of odorant		
	C Controls the operation of the odorizer D Calibrated vessel for precise measurement of odo	rant insected	
	Sample 10000 101 provide measurement of 000	ian injector	
		Continued or	next pag



DOT OPERATOR QUALIFICATION

Instructions	Answer the questions below in the space provided All questions must be answered correctly.
10. The first st	ep in a Forward Purge Maintenance Procedure 18
	A Open all valves B. Start pump C Place system in standby
11. Which are	considered abnormal operating conditions?
	A. Expansion tank pressure = 50 psig B. No odorant in drip gage during injection C. Verometer alarm D. All of the above
12. The odorize	er is injecting 0.5 lb/MM into the gas stream. The downstream sniff test indicate i-air What action should be taken?
	A. No action. 0.5 lb/MM is an acceptable injection rate B. Increase the odorization rate and repeat the sniff test C. Decrease the odorization rate and repeat the sniff test

Revised December 1, 2006



	QUALIFICATI	ON EVALUATION	_	Initial Subsequent
	EMPLOYEE FULL NAME (PRINT)		Last	four of SS#
				
ob Title	Ar	ea Work Location		
ubtask Name	Conduct Sampling of Odorant		Subtask #	19-02 00
				
	ECTIVE Using one or more of the below Evaluation e qualification criteria	n Methods' demonstrated the kr	nowledge skill and	ability to perform this
Safety Rem				Qualified
Ouroty made	ulrements to identify and resolve abnormal operating condition(s	<u> </u>		
	derstand and apply the following Company Standa			
Map Readir				
	ng and identify sampling locations using operating diagri	am or facility drawing		
Odor Intent	sity Meter inspection			0
	meter for correct operation meter for cleanliness to prevent accumulation of any i	residual odors		
Operation F	rocedure			
	Odor Intensity Meter ampte pressure			
• Flowing	gas sample			
	the sample line I making the sniff test procedures			ľ
Test Proce	dure and Documentation			0
	or positioning old level			
	detectable level			
• % gas				
	orrective action if % gas in air indicates a problem stand testing frequency			
	ent test results			
bservation On-	ETHODS (Check all that apply) The-Job Performance		Oral Test O OTHER - Field	Performance Audit 🚨
			<u>. </u>	
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LVALUATO	THE THE GOTT IS	WILD THO STORY TO THE		



Subtask Name Conduct Sampling of Odorant Subtask# 19-02 00

Evaluator must provide the following reference material(s)

- Abnormal Operating Condition (AOC) Job Aid
- Gas Standard

Note

Using reference material(s) listed above, individuals must answer all questions correctly. If individual cannot provide the correct answer(s) or demonstrate performance after two additional attempts, the Evaluator should refer to the Operator Qualification Basic Plan Manual, Section 1 3 3 3 for further instructions

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1110	MICUG	·
Crite	епа#	Requirement
	1	Review Annual Operator Qualification Job Aid and Abnormal Operating Conditions (AOC) with individual(s)
	2	Provide individual with Conduct Sampling of OdorantTest

Performance

- 3 6 Individual must perform checks as required on the Qualification Evaluation for each of these following method(s)
 - Map Reading
 - Odor Intensity Meter Inspection
 - Operation Procedure
 - Test Procedure and Documentation

Note

Skill must be demonstrated through simulation or actual field performance Individual must verbalize each action step (bulleted items in Step 3-6)

6/23/05 version

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CGT - Mail completed original Qualification Evaluation form(s) to 375 N Wiget Lane Walnut Creek, CA
OM&C/FSD/CGT - Send copy to LGOQPC (Local Gas Operator Qualification Plan Coordinator)



DOT OPERATOR QUALIFICATION

OPERATOR QUALIFICATION

□ Initial □ Subsequent

Subtask Questions

ЕМІ	PLOYEE FULL NAME (PRINT)	Date	
Subtask Name	Conduct Sampling of Odorant	Subtask #· _ 1	<u>9-02</u>
Instructions	Answer the questions below in the space provided All questions must be ans- correctly		
Natural ga	s must be odorized such that:		
	A. It contains no less than 0.5 lbs/n B. It can be detected by a sulfur at C. It is readily detectable by a pers D. It can be detected by electronic	alyzer on with a normal sense of smell	
2 Sniff tests	should be conducted		
	A. At random locations and times B. At the ends of systems or wher C. Where the gas enters our system D. On all transmission lines	e odor intensity has been a problem n	
3 Which of	the following does NOT affect one	s ability to smell odorized natural gas?	
	A Colds or allergies B Previous exposure to odorant C Gas pressure D Smoking		
4 Acceptabl	e sniff test results should range bet	ween	
	A. 5 and 15% gas in air B 1 and 6% gas in air C 0 1 and 0 6% gas in air D Any level, as long as you can a	smell the gas	
5. Which of	the following is NOT an approved	odor intensity meter?	
	A. Heath Odorator B YZ DTEX C Bacharach Odorometer D. Medor Sulfur Analyzer		
		Continued on	next po

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DOT OPERATOR QUALIFICATION

Subtask Name	Conduct Sampling of Odorant	Subtask#	19-02
Instructions	Answer the questions below in the space provided All quests correctly	ons must be ar	nswered
6 PG&E uses	an odorant blend composed of the following		
	A. 50% THT and 50% TBM B. 80% TBM and 20% DMS C. 50% TBM and 50% DMS D. 80% THT and 20% TBM		
7. Sniff testing taken?	indicates an odor intensity of 0 8% gas-in-air. What imm	nediate action	should be
	A. Retest until an acceptable reading is obtained 3. Send the instrument to TES for calibration C. Notify your supervisor D. Take no action, report 0.8% on the form		
8 When conne	ecting the odor intensity meter to a gas supply tap, it is im	portant to.	
	A. Use full pipeline pressure for maximum flow B. Crack open the supply valve to provide a small flow C. Ensure the gas supply is regulated to below the maximum range	um instrumen	t pressure
9 Which of th	e following is considered an abnormal operating condition	n?	
	A Gas-in-air reading of greater than 0.6% B. Gas-in-air reading of less than 0.1% C. Odor that does not smell like natural gas D. All of the above		

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