## Inspection Output (IOR)

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### **Report Filters**

Assets All, and including items not linked to any asset. Results Unsat, Concern

### Inspection Information

Inspection Name 8423-CNGC

Bellingham Unit Standard

Start Year 2022
System Type GD

Protocol Set ID WA.GD.2021.02

Operator(s) CASCADE NATURAL GAS CORP (2128)

Lead Dennis Ritter

Observer(s) David Cullom, Lex Vinsel, Anthony Dorrough,

Deborah Becker, Derek Norwood, Scott Anderson, Darren Tinnerstet,

Rell Koizumi

Supervisor Scott Rukke
Director Sean Mayo

Plan Submitted 03/31/2022

Plan Approval 03/31/2022 by Scott Rukke

All Activity Start 08/15/2022
All Activity End 08/25/2022

Inspection Submitted -Inspection Approval --

#### **Inspection Summary**

#### **Inspection Scope and Summary**

2022 Bellingham unit inspection of CNGC. The unit is located in Whatcom County, WA. Major population centers in this unit include Bellingham, Ferndale, Lynden, Blaine, Sumas, Nooksack and Everson. This unit has 843.79 miles of distribution main (60 psig MAOP or less) and 55.06 miles of main over 60 psig. There are also 48,673 services lines (distinct work order IDs) in this district. This inspection reviewed code required records for reporting, maintenance and operations, cathodic protection, MAOP and field inspection of operator assets. Field assets visited are noted in Form R in the 8423 inspection database. They are also noted in the Attachments to the IA inspection and include, CP test points, rectifiers, casings, regulator stations, bridge patrols, valves and right-of-way patrols.

#### **Facilities visited and Total AFOD**

The records were reviewed remotely using MS Teams and utilizing a secure SharePoint site. Additional records not amenable to remote review, leak surveys and construction records, were reviewed on site in Bellingham, WA on August 22, 2022. Operator assets and locations visited are recorded on Form R in the Attachments.

Total AFODs with operator: records and field--8 days

Exit Interview conducted on site in Bellingham, August 25, 2022. Wendy McDonough CNGC, Will Lindsey CNGC, Dennis Ritter, WUTC.

#### **Summary of Significant Findings**

(DO NOT Discuss Enforcement options)

No significant findings were noted from the inspection. There was one issue with record storage and were 3 cathodic protection issues (low PSP reads) which need to be mitigated within 90 days per WAC 480-93-110.

#### Primary Operator contacts and/or participants

Colby Lundstrom, Manager, Compliance and Operations Programs

Wendy McDonough, Compliance Audit Specialist

Will Lindsey, Compliance Audit Specialist

#### Operator executive contact and mailing address for any official correspondence

Pat Darras, VP Engineering and Ops Services

400 North 4th Street, Bismarck, North Dakota 58501

701-222-7611

### Scope (Assets)

# Short Name Long Name	Asset Type	Asset IDs	Excluded Topics	Planned R	equired Ins	Total spected	Required % Complete
1. 90883 (1925) Cascade Natural Gas- BELLINGHAM	unit	90883	Storage Fields Bottle/Pipe - Holders Vault Offshore GOM OCS Cast or Ductile Iron Copper Pipe Aluminum/Amphoteric	144	144	144	100.0%

<sup>1.</sup> Percent completion excludes unanswered questions planned as "always observe".

### **Plans**

# PI	lan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent Notes
1. 90	0883 (1925)	WUTC Standard Inspection	PRO, PRR, FR, GDIM, MMLPGIM, MISCTOPICS, GENERIC	P, R, O, S	Detail

### Plan Implementations

										Required
Activity	SMART	Start Date	Focus	Involved		Qst			Total	%
# Name	Act#	End Date	Directives	Groups/Subgroups	Assets	Type(s)	Planned Requ	uired Insp	pected	Complete
1. Records		08/15/2022 08/18/2022		all planned questions	all assets	P, R	88	88	88	100.0%
2. Field		08/22/2022 08/25/2022		all planned questions	all assets	0	56	56	56	100.0%

<sup>1.</sup> Since questions may be implemented in multiple activities, but answered only once, questions may be represented more than once in this table.

#### **Forms**

No.	Entity	Form Name	Status	Date Completed	Activity Name	Asset
1	Attendance List	Records	COMPLETED	08/31/2022	Records	90883 (1925)
2	Attendance List	Field Personnel	COMPLETED	08/31/2022	Field	90883 (1925)

### Results (Unsat, Concern values, 3 results)

### **PRR.OM: Operations And Maintenance**

<sup>2.</sup> Percent completion excludes unanswered questions planned as "always observe".

- 1. Question Result, ID, Concern, MO.GOMAOP.MAOPDETERMINE.R, 192.619(a) (192.619(b), 192.621(a), 192.621(b), References 192.623(a), 192.623(b))
  - Question Text Do records indicate determination of the MAOP of pipeline segments in accordance with 192.619 and limiting of the operating pressure as required?

Assets Covered 90883 (1925)

Result Issue Summary GIS is where records are supposed to be kept for MAOP pressure testing per OPS 505. The records for Central Whatcom 8" segment 14C1344 2018 pressure test was not found in GIS records, but was found internally by CNGC in another location.

Result Notes Bellingham

12" Squalicum HP Line Bellingham 1993--12"X52 0.25" WT, Hydro tested to 600psi for 400 psi MAOP 2/8/93 Ed White, material listing with PO80944

## Central Whatcom 8" segment 14C1344 2018 pressure tested-not shown in GIS--new MAOP is 305psig

WO244748 8"HP MAOP 380 8425' pipe John Bailey hydro test, Min pressure 660.6 8 hr test, Valve V152 to R121 Chart at high point

R22 to R23 7880' 8" MAOP, John Bailey, hydro test, 648.5 certification pressure 400psi 10/13/18 chart at high point 8hr test

R23 to thermal reduction Rd. N2, John Bailey, Steve Ficken, Mistras, Cert pressure 400, 651.8psi, 24 hrs,11/7/18

Thermal Reduction Rd to Imhoff Rd, cert pressure 400, MAOP 380, 648.5 psig min pressure, N2, 24 hr test 7/19/19

Imhof to R169 at Lampman Rd, 8771', 647psig min pressure, N2, 24-hr test, 8/5/19

R169 at Lampman to Valve 004 Lake Terrell Rd. 629.7 min pressure, N2, Ian Wald, Infrasource, 24 hr test, 8/22/19

Aldrich Rd to R22 3887' and 160' N2, Steve Ficken, Mistras, 10/19/2018, 667.1psi, 24 hr

R184 and relief shop fabricated WO 279859--pressure tested 760 psi N2, 1 hr leak, 4 hr test John Bailey 4/8/21 pressure chart OK

R184 inlet and outlet main 8" WO 279854 pressure test test pressure 758, N2, Joe Rude Mistras, 10/9/21 4 hr test

R 184 10" outlet 41501 Test pressure 600 psi for 400 MAOP hydro test 24 hrs Ed White

#### FR.FIELDPIPE: Pipeline Inspection (Field)

2. Question Result, ID, Concern, TD.CPMONITOR.CURRENTTEST.O, 192.465(b) References

Question Text Are impressed current sources properly maintained and are they functioning properly?

Assets Covered 90883 (1925)

Result Issue Summary May need to be looked at as the off read at the rectifier is -850mv. Should be much higher.

Result Notes All rectifiers visited were functioning properly except RE12 in Lynden. May need to be looked at as the off read at the rectifier is -850mv. Should be much higher.

- 3. Question Result, ID, Concern, TD.CP.ELECISOLATE.O, 192.467(a) (192.467(b), 192.467(c), 192.467(d), 192.467(e))
  - Question Text Are measures performed to ensure electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?

Assets Covered 90883 (1925)

Result Issue Summary 3273 East Badger Rd shorted casing -932mv -790off -1185 -818 service low below -850

47822-001-MP-0001 AC mitigation SSD solid state decoupler AC passes DC blocked for fault current 2x2 455mv Williams; CNGC -1400 **-780 low below -850** 

Result Notes R81 Lynden -1560 -1263

Lynden R47-1648 -1061mv 1.1vac

Deming Post office meter
R178 Blaine -1477 -1345 0.6vac
R161 -1471 -1063 Ferndale
W Laurel bridge -1194 -879
R148 -1784 -1026
R140 -1685 -973
3273 East Badger Rd shorted casing -932mv -790off -1185 -818 service below -850
47822-001-MP-0001 Bellingham 2 Sumas, AC mitigation SSD solid state decoupler AC passes DC blocked for fault current 2x2 , CNGC -1400 -780 low

Except as required to be disclosed by law, any inspection documentation, including completed protocol forms, summary reports, executive summary reports, and enforcement documentation are for internal use only by federal or state pipeline safety regulators. Some inspection documentation may contain information which the operator considers to be confidential. In addition, supplemental inspection guidance and related documents in the file library are also for internal use only by federal or state pipeline safety regulators (with the exception of documents published in the federal register, such as advisory bulletins). Do not distribute or otherwise disclose such material outside of the state or federal pipeline regulatory organizations. Requests for such information from other government organizations (including, but not limited to, NTSB, GAO, IG, or Congressional Staff) should be referred to PHMSA Headquarters Management.

# Inspection Results (IRR)

Generated on 2022. August. 31 13:19

### • 90883 (1925) (149)

### Inspection Results Report (ALL Non-Empty Results) - Scp\_PK 90883 (1925)

Ro		Resul	(Note		Qs t			
w	Assets	t	<sup>1</sup> )	Sub-Group	#	Question ID	References	Question Text
1.	90883 (19 25)	Sat		PRO.SUBLNORMOP S	7.	MO.GO.ODDOR.P	192.605(a) (192.605(b)( 11))	Does the process require prompt response to the report of a gas odor inside or near a building?
2.	90883 (19 25)	Sat		PRR.REPORT	1.	RPT.RR.IMMEDREPORT.R	191.5(a) (191.7(a), 191.7(d))	Do records indicate immediate notifications of incidents were made in accordance with 191.5?
3.	90883 (19 25)	Sat		PRR.REPORT	2.	RPT.RR.INCIDENTREPORT.R	191.9(a)	Do records indicate reportable incidents were identified and reports were submitted to DOT on Form 7100.1 within the required time frame?
4.	90883 (19 25)	NA		PRR.REPORT	3.	RPT.RR.INCIDENTREPORTSUPP.R	191.9(b)	Do records indicate accurate supplemental incident reports were filed and within the required timeframe?
5.	90883 (19 25)	Sat		PRR.REPORT	4.	RPT.RR.ANNUALREPORT.R	191.11(a)	Have complete and accurate Annual Reports been submitted?
6.	90883 (19 25)	Sat		PRR.REPORT	5.	RPT.RR.UTCANNUALREPORTS.R		Have complete and accurate annual reports been submitted to the commission?
7.	90883 (19 25)	Sat		PRR.REPORT	6.	RPT.RR.MISDATAREPORTS.R		Has the operator submitted a copy of DOT Drug and Alcohol Testing MIS Data Collection Form to the commission when required?
8.	90883 (19 25)	Sat	2	PRR.REPORT	7.	GDIM.RR.MECHANICALFITTINGDATAI MPL.R	192.1009 (191.12)	Have accurate records been maintained documenting mechanical fitting failures that resulted in hazardous leaks?
9.	90883 (19 25)	NA		PRR.REPORT	8.	RPT.RR.SRCR.R	191.23(a) (191.23(b), 191.25(a), 191.25(c))	Do records indicate safety-related condition reports were filed as required?
10.	90883 (19 25)	NA		PRR.REPORT	9.	RPT.RR.MAOPINCREASENOTIFY.R		Do records indicate submittal of a written plan of procedures to the commission at least forty-five days before uprating to a

Ro w	Assets	Resul t	(Note	Sub-Group	t #	Question ID	References	Question Text
				·				MAOP greater than 60 psig?
11.	90883 (19 25)	Sat		PRR.REPORT	10	RPT.RR.THIRTYDAYRPT.R		Has the operator submitted a written report within 30 days following each reportable incident?
12.	90883 (19 25)	Sat		PRR.REPORT	11	MO.GO.CUSTNOTIFY.R	192.16(d) (192.16(a), 192.16(b), 192.16(c))	Do records indicate the customer notification process satisfies the requirements of 192.16?
13.	90883 (19 25)	Sat		PRR.REPORT	12	RPT.RR.DAILYCONSTRUCTIONRPT.R		Do records indicate daily construction and repair activities were emailed to the commission no later than 10 AM each day work is scheduled?
14.	90883 (19 25)	NA		PRR.REPORT	13	RPT.RR.PIPELINEMAPPING.R		Has the operator provided accurate maps (or updates) of all pipelines operating over 250 psig to specifications developed by the commission sufficient to meet the needs of first responders?
15.	90883 (19 25)	Sat		PRR.CORROSION	1.	TQ.QU.CORROSION.R	192.453 (192.807(a), 192.807(b))	Do records indicate qualification of personnel implementing pipeline corrosion control methods?
16.	90883 (19 25)	Sat		PRR.CORROSION	2.	TD.CP.RECORDS.R	192.491(a)	Do records indicate the location of all items listed in 192.491(a)?
17.	90883 (19 25)	Sat		PRR.CORROSION	3.	TD.CPMONITOR.CURRENTTEST.R	192.491(c) (192.465(b))	Do records document details of electrical checks of sources of rectifiers or other impressed current sources?
18.	90883 (19 25)	Sat		PRR.CORROSION	4.	TD.CPEXPOSED.EXPOSEINSPECT.R	192.491(c) (192.459)	Do records adequately document that exposed buried piping was examined for corrosion?
19.	90883 (19 25)	Sat		PRR.CORROSION	5.	TD.CPMONITOR.TEST.R	192.491(c) (192.465(a))	Do records adequately document cathodic protection monitoring tests have occurred as required?
20.	90883 (19 25)	Sat		PRR.CORROSION	6.	TD.CPMONITOR.REVCURRENTTEST.R	192.491(c) (192.465(c))	Do records document details of electrical checks interference bonds, diodes, and reverse current switches?
21.	90883 (19 25)	Sat		PRR.CORROSION	7.	TD.CPMONITOR.DEFICIENCY.R	192.491(c) (192.465(d))	Do records adequately document actions

Ro		Resul	(Note		Qs t			
w	Assets	t	<sup>1</sup> )	Sub-Group	#	Question ID	References	Question Text
								taken to correct any identified deficiencies in corrosion control?
22.	90883 (19 25)	Sat		PRR.CORROSION	8.	TD.CP.UNPROTECT.R	192.491(c) (192.465(e))	Do records adequately document that exposed buried piping was examined for corrosion and deteriorated coating?
23.	90883 (19 25)	NA		PRR.CORROSION	9.	FS.FG.CASINGTESTLEAD.R		Do records indicate that all casings without vents installed after September 5, 1992 had separate test lead wires installed?
24.	90883 (19 25)	Sat		PRR.CORROSION	10	FS.FG.CASINGSEALS.R		Do records indicate that mains and service lines installed in casing or conduit are sealed at the ends as required?
25.	90883 (19 25)	Sat		PRR.CORROSION	11	TD.CP.ELECISOLATE.R	192.491(c) (192.467(a), 192.467(b), 192.467(c), 192.467(d), 192.467(e))	Do records adequately document electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?
26.	90883 (19 25)	Sat		PRR.CORROSION	12	TD.CP.CASINGINSPECT.R		Do records indicate that annual casing inspections have been performed to ensure electrical isolation from the pipeline?
27.	90883 (19 25)	Sat		PRR.CORROSION	13	TD.CPMONITOR.TESTSTATION.R	192.469	Do records identify the location of test stations and show a sufficient number of test stations?
28.	90883 (19 25)	Sat		PRR.CORROSION	14	TD.CPMONITOR.TESTLEAD.R	192.491(c) (192.471(a), 192.471(b), 192.471(c))	Do records document that pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart I?
29.	90883 (19 25)	Sat		PRR.CORROSION	15	TD.CPMONITOR.INTFRCURRENT.R	192.491(c) (192.473(a))	Do records document an effective program is in place to minimize detrimental effects of interference currents and that detrimental effects of interference currents from CP systems on other underground metallic

Ro w	Assets	Resul (I	Note  1) Sub-Group	t #	Question ID	References	Question Text
							structures are minimized?
30.	90883 (19 25)	NA	PRR.CORROSION	16	TD.ICP.CORRGAS.R	192.491(c) (192.475(a))	Do the records demonstrate that the corrosive effect of the gas in the pipeline has been investigated and if determined to be corrosive, steps be taken to minimize internal corrosion?
31.	90883 (19 25)	Sat	PRR.CORROSION	l 17	TD.ICP.EXAMINE.R	192.491(c) (192.475(a), 192.475(b))	Do records document examination of removed pipe for evidence of internal corrosion?
32.	90883 (19 25)	NA	PRR.CORROSION	18	TD.ICP.CORRGASACTION.R	192.491(c) (192.477)	Do records document the actions taken when corrosive gas is being transported by pipeline?
33.	90883 (19 25)	Sat	PRR.CORROSION	l 19	TD.ATM.ATMCORRODEINSP.R	192.491(c) (192.481(a), 192.481(b), 192.481(c))	Do records document inspection of aboveground pipe for atmospheric corrosion?
34.	90883 (19 25)	Sat	PRR.CORROSION	20	TD.COAT.NEWPIPE.R	192.491(c) (192.455(a), 192.461(a), 192.461(b), 192.483(a))	Do records document that each buried or submerged pipeline installed after July 31, 1971 has been externally coated with a suitable coating material?
35.	90883 (19 25)	Sat	PRR.CORROSION	21	TD.ICP.EVALUATE.R	192.491(c) (192.487)	Do records document adequate evaluation of internally corroded pipe?
36.	90883 (19 25)	NA	PRR.CORROSION	22	AR.RCOM.REPAIR.R	192.487 (192.489)	Do records document the repair or replacement of pipe that has been internally corroded to an extent that there is not sufficient remaining strength in the pipe wall?
37.	90883 (19 25)	Sat	PRR.PT	1.	DC.PTLOWPRESS.PRESSTESTLOWSTR ESS.R	192.517(a) (192.507(a), 192.507(b), 192.507(c))	Do records indicate that pressure testing is conducted in accordance with 192.507?
38.	90883 (19 25)	Sat	PRR.PT	2.	DC.PTLOWPRESS.PRESSTEST100PSIG .R	192.517(b) (192.509(a), 192.509(b))	Do records indicate that pressure testing is conducted in accordance with 192.509(a) (except for service lines and plastic pipelines)?
39.	90883 (19 25)	Sat	PRR.PT	3.	DC.PT.SERVICELINE.R	192.517(b) (192.511(a), 192.511(b), 192.511(c))	Do records indicate that pressure testing is conducted in accordance with 192.511?

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<b>w</b> 40.	90883 (19 25)	Sat	PRR.PT	4.	Question ID DC.PT.PRESSTESTPLASTIC.R	References 192.517(b) (192.513(a), 192.513(b), 192.513(c), 192.513(d))	Do records indicate that pressure testing is conducted in accordance with 192.513?
41.	90883 (19 25)	NA	PRR.UPRATE	1.	MO.GOUPRATE.MAOPINCREASE.R	192.553(a) (192.553(b), 192.553(c))	Do records indicate that increases in MAOP of pipeline were determined in accordance with 192.553?
42.	90883 (19 25)	NA	PRR.UPRATE	2.	MO.GOUPRATE.MAOPINCREASELIMIT. R	192.553(b) (192.553(c), 192.553(d), 192.557(a))	Do records indicate that increases in MAOP are limited in accordance with 192.619 and 192.621?
43.	90883 (19 25)	NA	PRR.UPRATE	3.	MO.GOUPRATE.MAOPINCREASEPREP. R	192.553(b) (192.553(c), 192.553(a), 192.557(b), 192.557(c))	Do records indicate that increases in MAOP were preceded by the actions specified in 192.557?
44.	90883 (19 25)	Sat	PRR.OM	1.	MO.GO.OMANNUALREVIEW.R	192.605(a)	Have annual reviews of the written procedures or processes in the manual been conducted as required?
45.	90883 (19 25)	Sat	PRR.OM	2.	MO.GO.OMHISTORY.R	192.605(a) (192.605(b)( 3))	Are construction records, maps and operating history available to appropriate operating personnel?
46.	90883 (19 25)	Sat	PRR.OM	3.	MO.GO.OMEFFECTREVIEW.R	192.605(a) (192.605(b)( 8))	Do records indicate periodic review of the work done by operator personnel to determine the effectiveness, and adequacy of the processes used in normal operations and maintenance and modifying the processes when deficiencies are found?
47.	90883 (19 25)	NA	PRR.OM	5.	MO.GOCLASS.CLASSLOCATESTUDY.R	192.605(b)(1) (192.609(a), 192.609(b), 192.609(c), 192.609(d), 192.609(e), 192.609(f))	Do records indicate performance of the required study whenever the population along a pipeline increased or there was an indication that the pipe hoop stress was not commensurate with the present class location?
48.	90883 (19 25)	Sat	PRR.OM	6.	EP.ERG.POSTEVNTREVIEW.R	192.605(a) (192.615(b)( 1), 192.615(b)(3 ))	Do records indicate review of employee activities to determine whether the procedures were effectively followed in each emergency?

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w	Assets	t	<sup>1</sup> )	Sub-Group	#	Question ID	References	Question Text
49.	90883 (19 25)	Sat		PRR.OM	7.	EP.ERG.TRAINING.R	192.605(a) (192.615(b)( 2))	Has the operator trained the appropriate operating personnel on emergency procedures and verified that the training was effective in accordance with its procedures?
50.	90883 (19 25)	Sat	2	PRR.OM	8.	EP.ERG.LIAISON.R	),	Do records indicate liaisons established and maintained with appropriate fire, police and other public officials and utility owners in accordance with procedures?
51.	90883 (19 25)	Sat	2	PRR.OM	9.	PD.PA.LANGUAGE.R	192.616(g) (API RP 1162 Section 2.3.1)	Were materials and messages developed and delivered in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas?
52.	90883 (19 25)	Sat	2	PRR.OM	10	PD.PA.EVALEFFECTIVENESS.R	192.616(c) (API RP 1162 Section 8.4)	Have effectiveness evaluation(s) of the program been performed for all stakeholder groups in all notification areas along all systems covered by the program?
53.	90883 (19 25)	NA	2	PRR.OM	11	PD.PA.MSTRMETER.R	192.616(j) (192.616(h), API RP 1162 Section 2.7 (Step 12), API RP 1162 Section 8.5)	Do records indicate the public awareness program for a master meter or petroleum gas system operator has met the requirements of Part 192?
54.	90883 (19 25)	Sat		PRR.OM	12	EP.ERG.INCIDENTANALYSIS.R	192.605(a) (192.617)	Do records indicate actions initiated to analyze accidents and failures, including the collection of appropriate samples for laboratory examination to determine the causes of the failure and minimize the possibility of recurrence, in accordance with its procedures?
55.	90883 (19 25)	Sat		PRR.OM	13	PD.DP.PDPROGRAM.R	192.614(c)	Does the damage prevention program meet minimum

Ro w	Assets	t	(Note	Sub-Group	t #	Question ID	References	Question Text
								requirements specified in 192.614(c)?
56.	90883 (19 25)	Conce		PRR.OM	14	MO.GOMAOP.MAOPDETERMINE.R	192.619(a) (192.619(b), 192.621(a), 192.621(b), 192.623(a), 192.623(b))	Do records indicate determination of the MAOP of pipeline segments in accordance with 192.619 and limiting of the operating pressure as required?
57.	90883 (19 25)	Sat		PRR.OM	15	MO.GOODOR.ODORIZE.R	192.709(c) (192.625(a), 192.625(b), 192.625(c), 192.625(d), 192.625(e), 192.625(f))	Do records indicate appropriate odorization of its combustible gases in accordance with its processes and conduct of the required testing to verify odorant levels met requirements?
58.	90883 (19 25)	Sat		PRR.OM	18	MO.RW.DISTPATROL.R	192.603(b) (192.721(a), 192.721(b))	Do records indicate distribution patrolling was conducted as required?
59.	90883 (19 25)	Sat		PRR.OM	19	MO.RW.LEAKFOLLOW.R		Do records indicate that a follow-up inspection was performed not more than thirty days following a repair where residual gas remained in the ground?
60.	90883 (19 25)	NA		PRR.OM	20	MO.RW.DOWNGRADELEAKREPAIR.R		Do records indicate that leaks that have been downgraded are repaired within twenty-one months?
61.	90883 (19 25)	Sat		PRR.OM	21	MO.RW.LEAKREPAIRTIME.R		Do records indicate that leaks were repaired and re- evaluated in the timeframes specified in WAC 480-93-18601?
62.	90883 (19 25)	Sat		PRR.OM	22	MO.RW.LEAKRECORDS.R		Have gas leak records been prepared and maintained as required?
63.	90883 (19 25)	Sat		PRR.OM	23	MO.RW.DISTPATROLLEAKAGE.R	192.603(b) (192.723(a), 192.723(b))	Do records indicate distribution leakage surveys were conducted as required?
64.	90883 (19 25)	Sat		PRR.OM	24	MO.RW.CASINGLEAKSURVEY.R		Do records indicate shorted casings were leak surveyed as required?
65.	90883 (19 25)	Sat		PRR.OM	25	MO.RW.MARKERSURVEY.R		Do records indicate that pipeline marker surveys were completed in the timeframe specified by WAC 480-93-124?

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W	Assets	t	1)	Sub-Group	#	Question ID	References	Question Text
66.	90883 (19 25)	Sat	P	RR.OM	26	MO.RW.MARKERREPLACE.R		Do records indicate that damaged or missing markers were replaced within forty- five days of discovery?
67.	90883 (19 25)	Sat	P	RR.OM	27	AR.RMP.TESTREINSTATE.R	192.603(b) (192.725(a), 192.725(b))	From the review of records, did the operator properly test disconnected service lines?
68.	90883 (19 25)	Sat	P	RR.OM	28	MO.GM.ABANDONPIPE.R	192.709(c) (192.727(a), 192.727(b), 192.727(c), 192.727(d), 192.727(e), 192.727(f), 192.727(g))	Do records indicate pipelines and facilities were abandoned or deactivated in accordance with requirements?
69.	90883 (19 25)	Sat	P	RR.OM	29	MO.GMOPP.PRESSREGTEST.R	192.709(c) (192.739(a), 192.739(b))	Do records indicate inspection and testing of pressure limiting, relief devices, and pressure regulating stations?
70.	90883 (19 25)	Sat	P	RR.OM	30	MO.GMOPP.PRESSREGCAP.R	192.709(c) (192.743(a), 192.743(b), 192.743(c))	Do records indicate testing or review of the capacity of each pressure relief device at each pressure limiting station and pressure regulating station as required?
71.	90883 (19 25)	Sat	P	RR.OM	31	DC.METERREGSVC.REGTEST.R		Do records indicate that service regulators have been installed, operated, maintained, tested during initial turn-on and tested when customers experience pressure problems?
72.	90883 (19 25)	Sat	P	RR.OM	32	MO.GM.DISTVALVEINSPECT.R	192.603(b) (192.747(a), 192.747(b))	Do records indicate proper inspection of each distribution system valve that might be required in an emergency at intervals not exceeding 15 months, but at least once each calendar year, and prompt remedial action to correct any valve found inoperable?
73.	90883 (19 25)	Sat	P	RR.OM	34	MO.GM.IGNITION.R	192.709 (192.751(a), 192.751(b), 192.751(c))	Do records indicate personnel followed processes for minimizing the danger of accidental ignition where the presence of gas constituted a hazard of fire or explosion?

Ro w	Assets	Resul t	(Note  1) Sub-Group	Qs t #	Question ID	References	Question Text
	90883 (19 25)	Sat	PRR.OM		DC.DPC.FLANGE.R	192.147(a) (192.147(b), 192.147(c))	Do records indicate flanges and flange accessories meet the requirements of 192.147?
75.	90883 (19 25)	Sat	PRR.OM	37	DC.WELDPROCEDURE.WELD.R	192.225(a) (192.225(b))	Do records indicate weld procedures are being qualified in accordance with 192.225?
76.	90883 (19 25)	Sat	PRR.OM	38	DC.WELDPROCEDURE.ESSENTIAL.R		Do records indicate that essential variables were measured and documented when welders and procedures were qualified?
77.	90883 (19 25)	Sat	PRR.OM	39	TQ.QUOMCONST.WELDER.R	192.227(a) (192.227(b), 192.229(a), 192.229(b), 192.229(c), 192.229(d), 192.328(a), 192.328(b), 192.807(a), 192.807(b))	Do records indicate adequate qualification of welders?
78.	90883 (19 25)	Sat	PRR.OM	40	TQ.QUOMCONST.NDT.R	192.243(b)(2 ) (192.807(a), 192.807(b), 192.328(a), 192.328(b))	Do records indicate the qualification of nondestructive testing personnel?
79.	90883 (19 25)	Sat	PRR.OM	41	DC.CO.PLASTICJOINTPROCEDURE.R	192.273(b) (192.283(a), 192.283(b), 192.283(c), 192.283(d))	Have plastic pipe joining procedures been qualified in accordance with 192.283?
80.	90883 (19 25)	Sat	PRR.OM	42	DC.CO.PLASTICJOINTQUAL.R	192.285(d) (192.285(a), 192.285(b), 192.285(c), 192.807(a), 192.807(b))	Do records indicate persons making joints in plastic pipelines are qualified in accordance with 192.285?
81.	90883 (19 25)	Sat	PRR.OM	43	DC.CO.PLASTICJOINTINSP.R	192.287 (192.807(a), 192.807(b))	Do records indicate persons inspecting the making of plastic pipe joints have been qualified?
82.	90883 (19 25)	Sat	PRR.OM	44	DC.CO.PLASTICPIPESEP.R		Do records indicate minimum separation requirements are met for plastic pipelines?
83.	90883 (19 25)	Sat	PRR.OM	45	MO.GM.EQUIPPLASTICJOINT.R	192.603(b) (192.756)	Do records indicate equipment used in joining plastic pipe was maintained in accordance with the manufacturer's recommended practices or with written procedures that have been proven by

Ro		Resul	(Note		Qs t			
w	Assets	t	1)	Sub-Group	#	Question ID	References	Question Text
								test and experience to produce acceptable joints?
84.	90883 (19 25)	NA		PRR.OM	46	MO.GM.RECORDS.R	192.605(b)(1 ) (192.243(f), 192.709(a), 192.709(b), 192.709(c))	Do records indicate that records are maintained of each pipe/"other than pipe" repair, NDT required record, and (as required by subparts L or M) patrol, survey, inspection or test?
85.	90883 (19 25)	NA		PRR.OM	47	MO.GM.MOVEANDLOWER.R		Do records indicate that a study was prepared before moving or lowering a steel gas pipeline as required?
86.	90883 (19 25)	NA		PRR.OM	48	MO.GM.MOVEANDLOWERSURVEY.R		Do records indicate that a leak survey was conducted not more than thirty days after moving and/or lowering a metallic pipeline?
87.	90883 (19 25)	Sat		PRR.OM	49	MO.RW.MARKERSMAPSDRAW.R		Are records sufficient to indicate class location and other areas where pipeline markers are required?
88.	90883 (19 25)	Sat		FR.FIELDPIPE	1.	DC.MA.MARKING.O	192.63(a) (192.63(b), 192.63(c), 192.63(d))	Are pipe, valves, and fittings properly marked for identification in accordance with the requirements of 192.63?
89.	90883 (19 25)	NA		FR.FIELDPIPE	2.	DC.DPC.FLANGE.O	192.141 (192.147(a), 192.147(b), 192.147(c))	Do flanges and flange accessories meet the requirements of 192.147?
90.	90883 (19 25)	NA		FR.FIELDPIPE	3.	DC.DPC.GDVALVEPLACEMENT.O	192.141 (192.181(a), 192.181(b), 192.181(c))	Are distribution line valves being installed as required of 192.181?
91.	90883 (19 25)	Sat		FR.FIELDPIPE	4.	DC.CO.PLASTICPIPEPROC.O		Is plastic pipe handled, stored and installed in accordance with manufacturer's recommendations, including maximum ultraviolet exposure?
92.	90883 (19 25)	NA		FR.FIELDPIPE	5.	DC.CO.PLASTICWEAKLINK.O		Is a weak link installed when pulling plastic pipe by mechanical means?
93.	90883 (19 25)	NA		FR.FIELDPIPE	6.	DC.CO.PLASTICPIPESEP.O		Are plastic pipelines installed with the minimum separation from other utilities as required?

Ro		Resul	(Note		Qs t			
w	Assets	t	1)	Sub-Group	#	Question ID	References	Question Text
94.	90883 (19 25)	NA		FR.FIELDPIPE	7.	DC.CO.PLASTICBACKFILL.O		Is plastic pipe buried in essentially rock-free material or material recommended by the pipe manufacturer?
95.	90883 (19 25)	NA		FR.FIELDPIPE	8.	DC.CO.PLASTICSQUEEZING.O		Verify that the operator has limits in place for squeezing plastic pipe.
96.	90883 (19 25)	NA		FR.FIELDPIPE	9.	DC.METERREGSVC.CUSTMETERREGL OC.O	192.351 (192.353(a), 192.353(b), 192.353(c), 192.353(d))	Are meters and service regulators being located consistent with the requirements of 192.353?
97.	90883 (19 25)	Sat		FR.FIELDPIPE	10	DC.METERREGSVC.CUSTMETERREGP ROT.O	192.351 (192.355(a), 192.355(b), 192.355(c))	Are meters and service regulators being protected from damage consistent with the requirements of 192.355?
98.	90883 (19 25)	NA		FR.FIELDPIPE	11	DC.METERREGSVC.CUSTMETERREGIN STALL.O	192.351 (192.357(a), 192.357(b), 192.357(c), 192.357(d))	Are meters and service regulators being installed consistent with the requirements of 192.357?
99.	90883 (19 25)	NA		FR.FIELDPIPE	12	DC.METERREGSVC.CUSTMETEROPPRE SS.O	192.351 (192.359(a), 192.359(b), 192.359(c))	Are customer meter operating pressures consistent with the requirements of 192.359?
100	90883 (19 25)	NA		FR.FIELDPIPE	13	DC.METERREGSVC.SVCLINEINSTALL. O	192.351 (192.361(a), 192.361(b), 192.361(c), 192.361(d), 192.361(e), 192.361(f), 192.361(g))	Are customer service lines being installed consistent with the requirements of 192.361?
101	90883 (19 25)	NA		FR.FIELDPIPE	14	DC.METERREGSVC.SVCLINEVLVLOCA TEREQT.O	192.351 (192.363(a), 192.363(b), 192.363(c), 192.365(a), 192.365(b), 192.365(c))	Are customer service line valves being installed meeting the valve and locations requirements of 192.363 and 192.365?
102	90883 (19 25)	NA		FR.FIELDPIPE	15	DC.METERREGSVC.SVCLINECONNECT .O	192.351 (192.367(a), 192.367(b), 192.369(a), 192.369(b))	Are customer service lines being installed with connections meeting the requirements of 192.367 and 192.369?
103	90883 (19 25)	NA		FR.FIELDPIPE	16	DC.METERREGSVC.SVCLINEMATERIA L.O	192.351 (192.371, 192.373(a), 192.373(b), 192.373(c), 192.375(a), 192.375(b), 192.377)	Are customer service lines being installed constructed appropriately for the types of materials used?
104	90883 (19 25)	Sat		FR.FIELDPIPE	17	DC.METERREGSVC.NEWSVCLINENOT USED.O	192.351 (192.379, 192.379(a),	Are new customer service lines not in use configured in accordance with the

Ro w	Assets	Resul t	(Note	Sub-Group	t #	Question ID	References	Question Text
VV	Assets		, 	3ub-Group		Question 1D	192.379(b).	requirements of
							192.379(c))	192.379?
105	90883 (19 25)	NA		FR.FIELDPIPE	18	DC.METERREGSVC.EXCSFLOWVLVLO CATE.O	192.351 (192.381(c), 192.381(d), 192.381(e))	Are service line excess flow valves located and identified in accordance with the requirements of 192.381?
106	90883 (19 25)	NA		FR.FIELDPIPE	19	DC.METERREGSVC.REGTEST.O		Are service regulators operated, maintained, installed and tested during the initial turnon in accordance with manufacturer's recommendations and WAC requirements?
107	90883 (19 25)	NA		FR.FIELDPIPE	20	DC.WELDPROCEDURE.ONSITE.O		Are qualified written welding procedures located onsite where welding is being performed?
108	90883 (19 25)	NA		FR.FIELDPIPE	21	DC.WELDPROCEDURE.ESSENTIAL.O		Does the operator document essential variables when qualifying welders and weld procedures?
109	90883 (19 25)	NA		FR.FIELDPIPE		TD.COAT.NEWPIPEINSTALL.O	192.461(d)	Is external protective coating being protected from damage that could result from adverse ditch conditions or supporting blocks?
110	90883 (19 25)	Sat		FR.FIELDPIPE	23	TD.CPMONITOR.MONITORCRITERIA.O	192.465(a) (192.463(b), 192.463(c), 192.463(a))	Are methods used for taking CP monitoring readings that allow for the application of appropriate CP monitoring criteria?
111	90883 (19 25)	Conce rn		FR.FIELDPIPE	24	TD.CPMONITOR.CURRENTTEST.O	192.465(b)	Are impressed current sources properly maintained and are they functioning properly?
112	90883 (19 25)	Conce		FR.FIELDPIPE	25	TD.CP.ELECISOLATE.O	192.467(a) (192.467(b), 192.467(c), 192.467(d), 192.467(e))	Are measures performed to ensure electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?
113	90883 (19 25)	Sat		FR.FIELDPIPE	26	TD.CP.CASINGINSPECT.O		Are casings electrically isolated from the pipeline?
114	90883 (19 25)	Sat		FR.FIELDPIPE	27	TD.CPMONITOR.TESTSTATION.O	192.469	Do cathodically protected pipelines have a sufficient

Ro w	Assets	Resul t	(Note  1) Sub-Group	t #	Question ID	References	Question Text
							number of test stations?
115	90883 (19 25)	Sat	FR.FIELDPIPE	28	TD.CPMONITOR.TESTLEAD.O	192.471(a)	Do pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart 1?
116	90883 (19 25)	Sat	FR.FIELDPIPE	29	TD.CPMONITOR.INTFRCURRENT.O	192.473(a)	Are areas of potential stray current identified and if found, the detrimental effects of stray currents minimized?
117	90883 (19 25)	Sat	FR.FIELDPIPE	30	TD.CP.ADJACENTMETAL.O	192.473(b)	Are impressed current type cathodic protection systems and galvanic anode systems installed so as to minimize any adverse effect on existing adjacent underground metallic structures?
118	90883 (19 25)	NA	FR.FIELDPIPE	31	TD.ICP.CORRGASPRVNT.O	192.475(a)	If the transportation of corrosive gas is not allowed, is the transportation of corrosive gas prevented?
119	90883 (19 25)	NA	FR.FIELDPIPE	32	TD.ICP.CORRGASACTION.O	192.477	Are adequate actions taken when corrosive gas is being transported by pipeline?
120	90883 (19 25)	Sat	FR.FIELDPIPE	34	TD.ATM.ATMCORRODEINSP.O	192.481(b) (192.481(c), 192.479(a), 192.479(b), 192.479(c))	Is pipe that is exposed to atmospheric corrosion protected?
121	90883 (19 25)	NA	FR.FIELDPIPE	37	PD.DP.ONECALL.O	192.614(c)(3	Observe operator process a "One Call" ticket.
122	90883 (19 25)	Sat	FR.FIELDPIPE	38	MO.GOODOR.ODORIZE.O	192.625(a) (192.625(c), 192.625(d), 192.625(e), 192.625(f))	Is sampling of combustible gases adequate using an instrument capable of determining the percentage of gas in air at which it becomes readily detectable?
123	90883 (19 25)	NA	FR.FIELDPIPE	39	MO.GO.PURGE.O	192.629(a) (192.629(b))	Are lines being purged in accordance with 192.629?
124	90883 (19 25)	Sat	FR.FIELDPIPE	40	MO.RW.ROWMARKER.O	192.707(a) (192.707(b), 192.707(d), CGA Best Practices, v4.0, Practice 2-5, CGA Best	Are line markers placed and maintained as required?

Ro		Resul	(Note		Qs t			
w	Assets	t	`1)	Sub-Group	#	Question ID	References	Question Text
							Practices, v4.0, Practice 4-20)	
125	90883 (19 25)	Sat		FR.FIELDPIPE	41	MO.RW.ROWMARKERABOVE.O	192.707(c) (CGA Best Practices, v4.0, Practice 2-5, CGA Best Practices, v4.0, Practice 4-20)	Are line markers placed and maintained as required for above ground pipelines?
126	90883 (19 25)	Sat		FR.FIELDPIPE	42	MO.GMOPP.PRESSREGTEST.O	192.739(a) (192.739(b))	Are field or bench tests or inspections of regulating stations, pressure limiting stations or relief devices adequate?
127	90883 (19 25)	NA		FR.FIELDPIPE	43	MO.GMOPP.PRESSREGMETER.O	192.741(a) (192.741(b), 192.741(c))	Are telemetering or recording gauges properly utilized as required for distribution systems?
128	90883 (19 25)	NA		FR.FIELDPIPE	44	MO.GMOPP.MULTIPRESSREG.O		Are regulator stations installed in a manner to provide protection between regulator stages?
129	90883 (19 25)	Sat		FR.FIELDPIPE	45	MO.GM.DISTVALVEINSPECT.O	192.747(a) (192.747(b))	Is proper inspection being performed for each distribution system valve that might be required in an emergency, and prompt remedial action to correct any valves found inoperable?
130	90883 (19 25)	Sat		FR.FIELDPIPE	46	FS.FG.CASING.O		Are all casings bare steel and do they have test leads installed on new casings without vents?
131	90883 (19 25)	NA		FR.FIELDPIPE	47	FS.FG.CASESEAL.O		Does the operator seal both ends of casings/conduits for mains and transmission lines and seal the end nearest the building for service lines?
	90883 (19 25)	NA		FR.FIELDPIPE	49	AR.RMP.IGNITION.O	192.751(a) (192.751(b), 192.751(c))	Perform observations of selected locations to verify that adequate steps have been taken by the operator to minimize the potential for accidental ignition.
133	90883 (19 25)	NA		FR.FIELDPIPE	52	MO.GM.EQUIPPLASTICJOINT.O	192.756	Is proper maintenance being performed on equipment used in joining plastic pipe in accordance with the manufacturer's

Ro		Resul	(Note		Qs t			
w	Assets	t	<sup>1</sup> )	Sub-Group	#	Question ID	References	Question Text
								recommended practices or with written procedures that have been proven by test and experience to produce acceptable joints?
134	90883 (19 25)	Sat		FR.FIELDPIPE	53	MO.GM.ONSITEPROCS.O		Are procedures applicable to the work being done located onsite where the work is being done?
135	90883 (19 25)	Sat		FR.FIELDPIPE	54	AR.PTI.EQUIPCALIB.O		Is pressure testing equipment calibrated according to calibration schedules and procedures?
136	90883 (19 25)	NA		FR.FIELDPIPE	55	AR.PTI.PLASTICPRESSURETEST.O		Is plastic pipe installed and backfilled prior to pressure testing?
137	90883 (19 25)	Sat	2	GDIM.IMPL	34	GDIM.RR.MECHANICALFITTINGDATAI MPL.R	192.1009 (191.12)	Have accurate records been maintained documenting mechanical fitting failures that resulted in hazardous leaks?
138	90883 (19 25)	NA		GDIM.IMPL	35	GDIM.RR.MECHANICALFITTINGRPTIM PL.R	192.1009 (191.12)	Did the operator report all mechanical fitting failures that resulted in a hazardous leak for the previous calendar year to PHMSA and State authorities, as appropriate, by March 15th of the next calendar year, and did the reports contain the information required by Department of Transportation Form PHMSA F-7100.1-2?
139	90883 (19 25)	NA		MISCTOPICS.PROT 9	1.	TQ.PROT9.CORRECTION.O	192.801(a) (192.809(a))	Have potential issues identified by the OQ plan inspection process been corrected at the operational level?
140	90883 (19 25)	Sat		MISCTOPICS.PROT 9	2.	TQ.PROT9.QUALIFICATIONSTATUS.O	192.801(a) (192.809(a))	Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks.
	25)	Sat		MISCTOPICS.PROT 9	3.	TQ.PROT9.TASKPERFORMANCE.O	192.801(a) (192.809(a))	Verify the qualified individuals performed the observed covered tasks in accordance with the operator's procedures or operator approved contractor procedures.
142	90883 (19 25)	Sat		MISCTOPICS.PROT 9	4.	TQ.PROT9.AOCRECOG.O	192.801(a) (192.809(a))	Verify the individuals performing covered tasks are cognizant of

Ro w	Assets	Resul t	(Note	Sub-Group	t #	Question ID	References	Question Text
								the AOCs that are applicable to the tasks observed.
143	90883 (19 25)	NA		MISCTOPICS.PROT 9	5.	TQ.PROT9.VERIFYQUAL.O	192.801(a) (192.809(a))	Observe in the field (job site, local office, etc.) that the foreman/supervisor/m anager has verified the qualification of the individual performing the task, that the qualification records are current, and ensure the personal identification of all individuals performing covered tasks are checked, prior to task performance.
144	90883 (19 25)	Sat		MISCTOPICS.OPTR QUAL	9.	TQ.OQ.OQPLAN.O	192.805(h)	Do individuals performing covered tasks demonstrate adequate skills, knowledge, and ability?
145	90883 (19 25)	Sat		MISCTOPICS.OPTR QUAL	20	TQ.OQ.ABNORMAL.O	192.803	Do individuals performing covered tasks have adequate knowledge to recognize and react to abnormal operating conditions?
146	90883 (19 25)	Sat	2	MISCTOPICS.PUBA WARE	11	EP.ERG.LIAISON.R	),	Do records indicate liaisons established and maintained with appropriate fire, police and other public officials and utility owners in accordance with procedures?
147	90883 (19 25)	Sat	2	MISCTOPICS.PUBA WARE	13	PD.PA.LANGUAGE.R	192.616(g) (API RP 1162 Section 2.3.1)	Were materials and messages developed and delivered in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas?
	25)	Sat	2	MISCTOPICS.PUBA WARE		PD.PA.EVALEFFECTIVENESS.R	192.616(c) (API RP 1162 Section 8.4)	Have effectiveness evaluation(s) of the program been performed for all stakeholder groups in all notification areas along all systems covered by the program?
149	90883 (19 25)	NA	2	MISCTOPICS.PUBA WARE	25	PD.PA.MSTRMETER.R	192.616(j) (192.616(h), API RP 1162 Section 2.7	Do records indicate the public awareness program for a master meter or petroleum

Ro w	Assets	Resul t	(Note	Sub-Group	t #	Question ID	References	Question Text
							API RP 1162	gas system operator has met the requirements of Part 192?

1. Result is repeated (N) times in this report due to re-presentation of the question in multiple sub-groups.

Report Parameters: All non-empty Results

Except as required to be disclosed by law, any inspection documentation, including completed protocol forms, summary reports, executive summary reports, and enforcement documentation are for internal use only by federal or state pipeline safety regulators. Some inspection documentation may contain information which the operator considers to be confidential. In addition, supplemental inspection guidance and related documents in the file library are also for internal use only by federal or state pipeline safety regulators (with the exception of documents published in the federal register, such as advisory bulletins). Do not distribute or otherwise disclose such material outside of the state or federal pipeline regulatory organizations. Requests for such information from other government organizations (including, but not limited to, NTSB, GAO, IG, or Congressional Staff) should be referred to PHMSA Headquarters Management.