

A completed **Standard Inspection Checklist, OQ Field Validation Protocol form and Cover Letter/Field Report** are to be submitted to the Chief Engineer within **30 days** from completion of the inspection.

Inspection Report			
Inspection ID/Docket Number	6214		
Inspector Name & Submit Date	Scott Rukke, Lead 10/23/15 Derek Norwood		
Chief Eng Name & Review/Date	Joe Subsits, 10/28/2015		
Operator Information			
Name of Operator:	Cascade Natural Gas Corporation	OP ID #:	2128
Name of Unit(s):	Kennewick District		
Records Location:	Kennewick District Office		
Date(s) of Last (unit) Inspection:	Oct 14-18, 2013	Inspection Date(s):	Oct 5-22, 2015 (multiple visits)

<p>Inspection Summary:</p> <p>This inspection included a records and field review of the Kennewick district. The inspection was conducted in two separate district visits, one for the records and one for the field inspection. Only one qualified person was observed during the field portion which included district regulator operation, rectifier checks, odorization checks and pressure relief operation.</p>
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HQ Address: Cascade Natural Gas Corporation 8113 W. Grandridge Blvd. Kennewick, WA 99336	System/Unit Name & Address: Kennewick District 200 N Union St. Kennewick WA 99336	
Co. Official: Eric Martuscelli Phone No.: (509) 572-0294 Fax No.: (509) 737-9803 Emergency Phone No.: 1-888-522-1130	Phone No.: (509) 783-7361 Fax No.: (509) 457-8112 Emergency Phone No.: 1-888-522-1130	
Persons Interviewed	Title	Phone No.
Kevin McCallum	Pipeline Safety Specialist	(509) 736-5542
Chris Grissom	Pipeline Safety Specialist	(541) 706-6292
Mike Eutsey	Manager, Standards and Compliance	(509) 734-4576
Mike Clapp	Region Director	(509) 736-5543
Zach Smith	District Operations Manager	(509) 736-5548
Teresa Esparza	District Manager	(509) 736-5547

<p>WUTC staff conducted an abbreviated procedures inspection on 192 O&M and WAC items that changed since the last inspection. This checklist focuses on Records and Field items per a routine standard inspection.</p> <p>(check one below and enter appropriate date)</p>			
<input type="checkbox"/>	Team inspection was performed (Within the past five years.) or,	Date:	10/2012
<input type="checkbox"/>	Other WUTC Inspector reviewed the O & M Manual (Since the last yearly review of the manual by the operator.)	Date:	10/2012
<input type="checkbox"/>	OQ Program Review (PHMSA Form 14)	Date:	11/2014

GAS SYSTEM OPERATIONS			
Gas Supplier		Williams	
Services: <i>Residential 23525 Commercial 3306 Industrial 45 Other 0</i>			
Number of reportable safety related conditions last year		0	Number of deferred leaks in system 14
Number of <u>non-reportable</u> safety related conditions last year		0	Number of third party hits last year 26
Miles of transmission pipeline within unit (total miles and miles in class 3 & 4 areas)		17.55	Miles of main within inspection unit (total miles and miles in class 3 & 4 areas) 686.05
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:	Williams	809	Same as MAOP
Town:	Pasco 23-O-04	150	Same as MAOP
Town:	Pasco 23-O-05	300	Same as MAOP
Town:	Pasco 23-O-09	300	Same as MAOP
Town:	Kennewick 23-O-03	250	Same as MAOP
Town:	Kennewick 23-O-08	240	Same as MAOP
Town:	Finley 23-O-01	200	Same as MAOP
Town:	Finley 23-O-02	250	Same as MAOP
Town:	Patterson/Plymouth 23-O-06	150	Same as MAOP
Town:	Patterson/Plymouth 23-O-07	400	Same as MAOP
Does the operator have any transmission pipelines?		Yes	
Compressor stations? Use Attachment 1.		No	

Pipe Specifications:			
Year Installed (Range)	1954 to Present	Pipe Diameters (Range)	½" to 12"
Material Type	Steel and Plastic	Line Pipe Specification Used	API, 5L, 3408 PE, 2406 MDPE, X42, X46 and X52
Mileage	Transmission: 17.55 Main: 686.05 Service: 282.73	SMYS %	3.30% to 28.67%

Operator Qualification Field Validation
Important: Per OPS, the OQ Field Inspection Protocol Form (Rev 4, May 2007) shall be used by the inspector as part of this standard inspection. When completed, the inspector will upload this information into the PHMSA OQ Database (OQDB) located at http://primis.phmsa.dot.gov/oqdb/home.oq Date Completed/Uploaded 10/23/2015

Integrity Management Field Validation
Important: Per PHMSA, IMP Field Verification Form (Rev 6/18/2012) shall be used by the inspector as part of this standard inspection. When completed, the inspector will upload this information into the PHMSA IM Database (IMDB) located at http://primis.phmsa.dot.gov/gasimp/home.gim Date Completed/Uploaded:

PART 199 Drug and Alcohol Testing Regulations and Procedures					
Subparts A - C	Drug & Alcohol Testing & Misuse Prevention Program – Use PHMSA Form #13, Rev 3/19/2010. Do not ask the company to have a drug and alcohol expert available for this portion of your inspection.	S	U	NA	NC
	Reviewed in Moses Lake Wenatchee unit inspection 6212 and 6213	X			

REPORTING RECORDS			S	U	N/A	N/C
1.	49 U.S.C. 60132, Subsection (b)	For Gas Transmission Pipelines and LNG Plants. Submission of Data to the National Pipeline Mapping System Under the Pipeline Safety Improvement Act of 2002 Updates to NMPS: Operators are required to make update submissions every 12 months if any system modifications have occurred. <u>If no modifications have occurred since the last complete submission (including operator contact information), send an email to opsgis@rspa.dot.gov stating that fact.</u> Include operator contact information with all updates. Transmission is not looked at in Standard inspections			X	
2.	RCW 81.88.080	Pipeline Mapping System: Has the operator provided accurate maps (or updates) of pipelines, operating over two hundred fifty pounds per square inch gauge, to specifications developed by the commission sufficient to meet the needs of first responders? Reviewed in Moses Lake Wenatchee.	X			
3.	191.5	Immediate Notice of certain incidents to NRC (800) 424-8802 , or electronically at http://www.nrc.uscg.mil/nrchp.html , and additional report if significant new information becomes available. Operator must have a written procedure for calculating an initial estimate of the amount of product released in an accident. No NRC events.			X	
4.	191.7	Reports (except SRCR and offshore pipeline condition reports) must be submitted electronically to PHMSA at http://portal.phmsa.dot.gov/pipeline at unless an alternative reporting method is authorized IAW with paragraph (d) of this section. No NRC events.			X	
5.	191.15(a)	30-day follow-up written reports to PHMSA (Form F7100.2) Submittal must be electronically to http://pipelineonlinereporting.phmsa.dot.gov No NRC events.			X	
6.	191.15(c)	Supplemental report (to 30-day follow-up) No NRC events.			X	
7.	191.17	Complete and submit DOT Form PHMSA F 7100-2.1 by March 15 of each calendar year for the preceding year. (<i>NOTE: June 15, 2011 for the year 2010.</i>)	X			
8.	191.22	Each operator must obtain an OPID, validate its OPIDs, and notify PHMSA of certain events at http://portal.phmsa.dot.gov/pipeline	X			
9.	191.23	Filing the Safety Related Condition Report (SRCR) No SRCR's in this district.			X	
10.	191.25 49 U.S.C. 60139, Subsection (b)(2)	Filing the SRCR within 5 days of determination, but not later than 10 days after discovery. Note: Operators of gas transmission pipelines that if the pipeline pressure exceeds maximum allowable operating pressure (MAOP) plus the build-up, owner/operator must report the exceedance to PHMSA on or before the fifth day following the date on which the exceedance occurs. The report should be titled "Gas Transmission MAOP Exceedance" and provide the following information: <ul style="list-style-type: none"> The name and principal address of the operator date of the report, name, job title, and business telephone number of the person submitting the report. The name, job title, and business telephone number of the person who determined the condition exists. The date the condition was discovered and the date the condition was first determined to exist. The location of the condition, with reference to the town/city/county and state or offshore site, and as appropriate, nearest street address, offshore platform, survey station number, milepost, landmark, and the name of the commodity transported or stored. The corrective action taken before the report was submitted and the planned follow-up or future corrective action, including the anticipated schedule for starting and concluding such action. No SRCR's.			X	
11.	.605(d)	Instructions to enable operation and maintenance personnel to recognize potential Safety Related Conditions CP 780 appendix 5	X			
12.	191.27	Offshore pipeline condition reports – filed within 60 days after the inspections No offshore pipelines.			X	

REPORTING RECORDS			S	U	N/A	N/C
13.	192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports None in district			X	
14.	480-93-200(1)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9144 (Within 2 hours) for events which results in;				
15.	480-93-200(1)(a)	A fatality or personal injury requiring hospitalization; None in district			X	
16.	480-93-200(1)(b)	Damage to property of the operator and others of a combined total exceeding fifty thousand dollars; None in district			X	
17.	480-93-200(1)(c)	The evacuation of a building, or high occupancy structures or areas;	X			
18.	480-93-200(1)(d)	The unintentional ignition of gas; None in district			X	
19.	480-93-200(1)(e)	The unscheduled interruption of service furnished by any operator to twenty five or more distribution customers;	X			
20.	480-93-200(1)(f)	A pipeline pressure exceeding the MAOP plus ten percent or the maximum pressure allowed by proximity considerations outlined in WAC 480-93-020; CP 735 CP 780 3.6	X			
21.	480-93-200(1)(g)	Is significant, in the judgment of the operator, even though it does not meet the criteria of (a) through (f) of this subsection;	X			
22.	480-93-200(2)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for;				
23.	480-93-200(2)(a)	The uncontrolled release of gas for more than two hours;	X			
24.	480-93-200(2)(b)	The taking of a high pressure supply or transmission pipeline or a major distribution supply gas pipeline out of service; None in district taken out of service.			X	
25.	480-93-200(2)(c)	A gas pipeline operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; No low pressure in system.			X	
26.	480-93-200(2)(d)	A gas pipeline pressure exceeding the MAOP	X			
27.	480-93-200(4)	Did written incident reports (within 30 days of telephonic notice) include the following				
28.	480-93-200(4)(a)	Name(s) and address(es) of any person or persons injured or killed, or whose property was damaged;	X			
29.	480-93-200(4)(b)	The extent of injuries and damage;	X			
30.	480-93-200(4)(c)	A description of the incident or hazardous condition including the date, time, and place, and reason why the incident occurred. If more than one reportable condition arises from a single incident, each must be included in the report;	X			
31.	480-93-200(4)(d)	A description of the gas pipeline involved in the incident or hazardous condition, the system operating pressure at that time, and the MAOP of the facilities involved;	X			
32.	480-93-200(4)(e)	The date and time the gas pipeline company was first notified of the incident;	X			
33.	480-93-200(4)(f)	The date and time the ((operators')) gas pipeline company's first responders arrived on-site;	X			
34.	480-93-200(4)(g)	The date and time the gas ((facility)) pipeline was made safe;	X			
35.	480-93-200(4)(h)	The date, time, and type of any temporary or permanent repair that was made;	X			
36.	480-93-200(4)(i)	The cost of the incident to the ((operator)) gas pipeline company;	X			
37.	480-93-200(4)(j)	Line type;	X			
38.	480-93-200(4)(k)	City and county of incident; and	X			
39.	480-93-200(4)(l)	Any other information deemed necessary by the commission.	X			
40.	480-93-200(5)	Supplemental report if required information becomes available after 30 day report submitted No supplementals.			X	
41.	480-93-200(6)	Written report within 5 days of receiving the failure analysis of any incident or hazardous condition due to construction defects or material failure No failures.			X	
42.	480-93-200(7)	Filing Reports of Damage to Gas Pipeline Facilities to the commission. (eff 4/1/2013) (Via the commission's Virtual DIRT system or on-line damage reporting form)				
43.	480-93-200(7)(a)	Does the operator report to the commission the requirements set forth in RCW 19.122.053(3) (a) through (n) CNG CP 835	X			
44.	480-93-200(7)(b)	Does the operator report the name, address, and phone number of the person or entity that the company has reason to believe may have caused damage due to excavations conducted <u>without facility locates</u> first being completed?	X			

REPORTING RECORDS			S	U	N/A	N/C
45.	480-93-200(7)(c)	Does the operator retain all damage and damage claim records it creates related to damage events reported under 93-200(7)(b), including photographs and documentation supporting the conclusion that a facilities locate was not completed? Note: Records maintained for two years and made available to the commission upon request.	X			
46.	480-93-200(8)	Does the operator provide the following information to excavators who damage gas pipeline facilities?				
47.	480-93-200(8)(a)	<ul style="list-style-type: none"> Notification requirements for excavators under RCW 19.122.050(1) Reviewed copies of mailed certified letters.	X			
48.	480-93-200(8)(b)	<ul style="list-style-type: none"> A description of the excavator's responsibilities for reporting damages under RCW 19.122.053; and 	X			
49.	480-93-200(8)(c)	<ul style="list-style-type: none"> Information concerning the safety committee referenced under RCW 19.122.130, including committee contact information, and the process for filing a complaint with the safety committee. 	X			
50.	480-93-200(9)	Reports to the commission only when the operator or its contractor observes or becomes aware of the following activities... <ul style="list-style-type: none"> An excavator digs within thirty-five feet of a transmission pipeline, as defined by RCW 19.122.020(26) without first obtaining a facilities locate; (200(9)(a) A person intentionally damages or removes marks indicating the location or presence of gas pipeline facilities. 200(9)(b) 	X			
51.	480-93-200(10)	Annual Reports filed with the commission no later than March 15 for the proceeding calendar year				
52.	480-93-200(10)(a)	A copy of PHMSA F-7100.1-1 and F-7100.2-1 annual report required by U.S. Department of Transportation, PHMSA/Office of Pipeline Safety	X			
53.	480-93-200(10)(b)	Reports detailing all construction defects and material failures resulting in leakage. Categorizing the different types of construction defects and material failures. The report must include the following: (i) Types and numbers of construction defects; and (ii) Types and numbers of material failures.	X			
54.	480-93-200(11)	Providing updated emergency contact information to the commission and appropriate officials of all municipalities where gas pipeline companies have facilities Reviewed records of contact with phone information.	X			
55.	480-93-200(12)	Providing by email, reports of daily construction and repair activities no later than 10:00 a.m.	X			
56.	480-93-200(13)	Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form when required CNG has 181 covered employees. Supervisors are included in the numbers even though they do not perform covered tasks.	X			

Comments:

CUSTOMER and EXCESS FLOW VALVE INSTALLATION NOTIFICATION			S	U	N/A	N/C
57.	192.16	Customer notification - Customers notified, within 90 days , of their responsibility for those service lines not maintained by the operator Evidence was an email indicating the information was sent.	X			
58.	192.381	Does the excess flow valve meet the performance standards prescribed under §192.381?	X			
59.	192.383	Does the operator have an installation and reporting program for excess flow valves and does the program meet the requirements outlined in §192.383? Are records adequate?	X			

Comments:



CONSTRUCTION RECORDS			S	U	N/A	N/C
60.	480-93-013	OQ records for personnel performing New Construction covered tasks	X			
61.	192.225	Test Results to Qualify Welding Procedures	X			
62.	192.227	Welder Qualification	X			
63.	480-93-080(1)(b)	Appendix C Welders re-qualified 2/Yr (7.5Months) No appendix C welders			X	
64.	480-93-080(2)	Plastic pipe joiners re-qualified 1/Yr (15 Months)	X			
65.	480-93-080(2)(b)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period No fusers went past 12 months			X	
66.	480-93-080(2)(c)	Tracking Production Joints or Re-qualify joiners 1/Yr (12Months) Not tracked per above.			X	
67.	480-93-115(2)	Test leads on casings (without vents) installed after 9/05/1992	X			
68.	480-93-115(3)	Sealing ends of casings or conduits on transmission lines and mains	X			
69.	480-93-115(4)	Sealing ends (nearest building wall) of casings or conduits on services	X			
70.	192.241(a)	Visual Weld Inspector Training/Experience	X			
71.	192.243(b)(2)	Nondestructive Technician Qualification CNG uses Northwest Inspection. Reviewed certs for their employee.	X			
72.	192.243(c)	NDT procedures Uses the contractors testing criteria Per CP 760.	X			
73.	192.243(f)	Total Number of Girth Welds	X			
74.	192.243(f)	Number of Welds Inspected by NDT None	X			
75.	192.243(f)	Number of Welds Rejected None			X	
76.	192.243(f)	Disposition of each Weld Rejected None			X	
77.	.273/.283	Qualified Joining Procedures Including Test Results	X			
78.	192.303	Construction Specifications	X			
79.	192.325 WAC 480-93-178(4)(5)	Underground Clearances	X			
80.	192.327	Amount, location, cover of each size of pipe installed	X			
81.	480-93-160(1)	Report filed 45 days prior to construction or replacement of transmission pipelines ≥ 100 feet in length None over 100'			X	
82.	480-93-160(2)	Did report describe the proposed route and the specifications for the pipeline and must include, but is not limited to the following items: none			X	
83.	480-93-160(2)(a)	Description and purpose of the proposed pipeline; None			X	
84.	480-93-160(2)(b)	Route map showing the type of construction to be used throughout the length of the line, and delineation of class location as defined in 49 CFR Part 192.5, and incorporated boundaries along the route. None			X	
85.	480-93-160(2)(c)	Location and specification of principal valves, regulators, and other auxiliary equipment to be installed as a part of the pipeline system to be constructed None			X	
86.	480-93-160(2)(d)	MAOP for the gas pipeline being constructed; none			X	
87.	480-93-160(2)(e)	Location and construction details of all river crossings or other unusual construction requirements encountered en route. none			X	
88.	480-93-160(2)(f)	Proposed corrosion control program to be followed inc specs for coating and wrapping, and method to ensure the integrity of the coating using holiday detection equipment; none			X	
89.	480-93-160(2)(g)	Welding specifications; and none			X	
90.	480-93-160(2)(h)	Bending procedures to be followed if needed. none			X	
91.	480-93-170(1)	Commission notified 2 days prior to pressure testing pipelines with an MAOP producing a hoop stress ≥ 20% SMYS? No tests done on pipelines with an MAOP over 20%			X	
92.	480-93-170(7)	Pressure tests records at a minimum include required information listed under 480-93-170(a-h)	X			

CONSTRUCTION RECORDS			S	U	N/A	N/C
93.	480-93-170(9)	Individual pressure test records maintained for single installations where multiple pressure tests were performed? No plats with individual tests.			X	
94.	480-93-170(10)	Pressure Testing Equipment checked for accuracy/intervals (Manufacturers Rec or Operators schedule)	X			
95.	480-93-175(2)	Study prepared and approved prior to moving and lowering of metallic pipelines > 60 psig None since last inspection.			X	
96.	480-93-175(4)	Leak survey within 30 days of moving or lowering pipelines ≤ 60 psig None in this district.			X	

Comments:

OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
97.	192.517(a)	Pressure Testing (operates at or above 100 psig) – useful life of pipeline	X			
98.	192.517(b)	Pressure Testing (operates below 100 psig, service lines, plastic lines) – 5 years	X			
99.	192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months) Note: Including review of OQ procedures as <u>suggested</u> by PHMSA - ADB-09-03 dated 2/7/09 Reviewed in Wenatchee and Moses Lake.				X
100.	192.605(b)(3)	Availability of construction records, maps, operating history to operating personnel Reviewed in Wen ML. They use laptops.				X
101.	480-93-018(3)	Records, including maps and drawings updated within 6 months of completion of construction activity?	X			
102.	192.605(b)(8)	Periodic review of personnel work – effectiveness of normal O&M procedures	X			
103.	192.605(c)(4)	Periodic review of personnel work – effectiveness of abnormal operation procedures Reviewed CNG 640 form Construction Review Checklist	X			
104.	192.609	Class Location Study (If applicable) Nothing over 40%			X	
105.	192.611	Confirmation or revision of MAOP See above.			X	
106.	192.614	Damage Prevention (Operator Internal Performance Measures)				
107.		Does the operator have a quality assurance program in place for monitoring the locating and marking of facilities? Do operators conduct regular field audits of the performance of locators/contractors and take action when necessary? (CGA Best Practices v. 6.0, Best Practice 4-18. Recommended only, not required) Checked in Wenatchee Moses Lake				X
108.		Does operator including performance measures in facility locating services contracts with corresponding and meaningful incentives and penalties? Checked in Wenatchee Moses Lake				X
109.		Do locate contractors address performance problems for persons performing locating services through mechanisms such as re-training, process change, or changes in staffing levels? Checked in Wenatchee Moses Lake				X
110.		Does the operator periodically review the Operator Qualification plan criteria and methods used to qualify personnel to perform locates? Checked in Wenatchee Moses Lake				X
111.		Review operator locating and excavation <u>procedures</u> for compliance with state law and regulations. Checked in Wenatchee Moses Lake				X
112.		Are locates are being made within the timeframes required by state law and regulations? Examine record sample. Reviewed a sampling of one call requests.	X			

OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
113.		Are locating and excavating personnel properly <u>qualified</u> in accordance with the operator's Operator Qualification plan and with federal and state requirements?	X			
114.		Follow-up inspection performed on the pipeline where there is reason to believe the pipeline could be damaged .614(c) (6) 1. Is the inspection the done as frequently as necessary during and after the activities to verify the integrity of the pipeline? 2. In the case of blasting, does the inspection include leakage surveys? None of these scenarios existed since the last inspection.			X	

Comments:

115.		Emergency Response Plans	S	U	N/A	N/C																										
116.	192.603(b)	Prompt and effective response to each type of emergency .615(a)(3) Note: Review operator records of previous accidents and failures including third-party damage and leak response	X																													
117.	192.615(b)(1)	Location Specific Emergency Plan	X																													
118.	192.615(b)(2)	Emergency Procedure training, verify effectiveness of training	X																													
119.	192.615(b)(3)	Employee Emergency activity review, determine if procedures were followed. They use CNG 234 form. Each notifiable incident includes this form.	X																													
120.	192.615(c)	Liaison Program with Public Officials	X																													
121.	192.616	Public Awareness Program																														
122.	192.616(e&f)	Documentation properly and adequately reflects implementation of operator's Public Awareness Program requirements - Stakeholder Audience identification, message type and content, delivery method and frequency, supplemental enhancements, program evaluations, etc. (i.e. contact or mailing rosters, postage receipts, return receipts, audience contact documentation, etc. for emergency responder, public officials, school superintendents, program evaluations, etc.). See table below: Reviewed in Wenatchee and Moses lake	X																													
123.		Operators in existence on June 20, 2005, must have completed their written programs no later than June 20, 2006. See 192.616(a) and (j) for exceptions.																														
124.		API RP 1162 Baseline* Recommended Message Deliveries																														
125.		<table border="1"> <thead> <tr> <th>Stakeholder Audience (LDC's)</th> <th>Baseline Message Frequency (starting from effective date of Plan)</th> </tr> </thead> <tbody> <tr> <td>Residence Along Local Distribution System</td> <td>Annual</td> </tr> <tr> <td>LDC Customers</td> <td>Twice annually</td> </tr> <tr> <td>One-Call Centers</td> <td>As required of One-Call Center</td> </tr> <tr> <td>Emergency Officials</td> <td>Annual</td> </tr> <tr> <td>Public Officials</td> <td>3 years</td> </tr> <tr> <td>Excavator and Contractors</td> <td>Annual</td> </tr> <tr> <th>Stakeholder Audience (Transmission line operators)</th> <th>Baseline Message Frequency (starting from effective date of Plan)</th> </tr> <tr> <td>Residence Along Local Distribution System</td> <td>2 years</td> </tr> <tr> <td>One-Call Centers</td> <td>As required of One-Call Center</td> </tr> <tr> <td>Emergency Officials</td> <td>Annual</td> </tr> <tr> <td>Public Officials</td> <td>3 years</td> </tr> <tr> <td>Excavator and Contractors</td> <td>Annual</td> </tr> </tbody> </table>	Stakeholder Audience (LDC's)	Baseline Message Frequency (starting from effective date of Plan)	Residence Along Local Distribution System	Annual	LDC Customers	Twice annually	One-Call Centers	As required of One-Call Center	Emergency Officials	Annual	Public Officials	3 years	Excavator and Contractors	Annual	Stakeholder Audience (Transmission line operators)	Baseline Message Frequency (starting from effective date of Plan)	Residence Along Local Distribution System	2 years	One-Call Centers	As required of One-Call Center	Emergency Officials	Annual	Public Officials	3 years	Excavator and Contractors	Annual				
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126.		* Refer to API RP 1162 for additional requirements, including general program recommendations, supplemental requirements, recordkeeping, program evaluation, etc.				
127.	192.616(g)	The program conducted in English and any other languages commonly understood by a significant number of the population in the operator's area. Reviewed in Wenatchee and Moses lake				X
128.	.616(h)	IAW API RP 1162, the operator's program should be reviewed for effectiveness within four years of the date the operator's program was first completed. <u>For operators in existence on June 20, 2005</u> , who must have completed their written programs no later than June 20, 2006, the first evaluation is due no later than June 20, 2010 . .616(h) Reviewed in Wenatchee and Moses lake				X
129.	192.616(j)	Operators of a Master Meter or petroleum gas system – public awareness messages 2 times annually: (1) A description of the purpose and reliability of the pipeline; (2) An overview of the hazards of the pipeline and prevention measures used; (3) Information about damage prevention; (4) How to recognize and respond to a leak; and (5) How to get additional information. Reviewed in Wenatchee and Moses lake				X
130.	192.617	Review operator records of accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617 Note: Including excavation damage and leak response records (PHMSA area of emphasis) (NTSB B.10) No accidents in this district			X	

Comments:

131.	192.619/621/623	Maximum Allowable Operating Pressure (MAOP) Note: New PA-11 design criteria is incorporated into 192.121 & .123 (Final Rule Pub. 12/24/08) CNG has not incorporated this criteria.			X	
132.	480-93-015(1)	Odorization of Gas – Concentrations adequate	X			
133.	480-93-015(2)	Monthly Odorant Sniff Testing	X			
134.	480-93-015(3)	Prompt action taken to investigate and remediate odorant concentrations not meeting the minimum requirements	X			
135.	480-93-015(4)	Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation)	X			
136.	480-93-124(3)	Pipeline markers attached to bridges or other spans inspected? 1/yr(15 months)	X			
137.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days?	X			
138.	480-93-140(2)	Service regulators and associated safety devices tested during initial turn-on	X			
139.	480-93-155(1)	Up-rating of system MAOP to >60 psig? Procedures and specifications submitted 45 days prior? No uprates since last inspection.			X	
140.	480-93-185(1)	Reported gas leaks promptly investigated? Graded in accordance with 480-93-186? Records retained? Reviewed all 2014 and 2015 leak records.	X			
141.	480-93-185(3)(a)	Leaks originating from a foreign source. Take appropriate action to protect life and property regarding the pipeline company's own facilities, and; NONE			X	
142.	480-93-185(3)(b)	Leaks originating from a foreign source reported promptly/notification by mail. Records retained? NONE			X	
143.	480-93-186(3)	Leak evaluations: Are follow-up inspections performed within 30 days of a leak repair?	X			
144.	480-93-186(4)	Leak evaluations: Grade 1 and 2 leaks (if any), downgraded once to a grade 3 without physical repair?	X			
145.	480-93-187	Gas leak records: at a minimum include required information listed under 480-93-187(1-13)	X			
146.	480-93-188(1)	Gas leak surveys	X			

147.	480-93-188(2)	Gas detection instruments tested for accuracy/intervals (Mfct recommended or monthly not to exceed 45 days)	X															
148.	480-93-188(3)	Leak survey frequency (Refer to Table Below)	X															
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149.	480-93-188(4)(a)	Special leak surveys - Prior to paving or resurfacing, following street alterations or repairs	X															
150.	480-93-188(4)(b)	Special leak surveys - areas where substructure construction occurs adjacent to underground gas facilities, and damage could have occurred	X															
151.	480-93-188(4)(c)	Special leak surveys - Unstable soil areas where active gas lines could be affected	X															
152.	480-93-188(4)(d)	Special leak surveys - areas and at times of unusual activity, such as earthquake, floods, and explosions NONE			X													
153.	480-93-188(4)(e)	Special leak surveys - After third-party excavation damage to services, operators must perform a gas leak survey to eliminate the possibility of multiple leaks and underground migration into nearby buildings.	X															
154.	480-93-188(5)	Gas Survey Records (Min 5 yrs) and at a minimum include required information listed under 480-93-188 (5) (a-f)	X															
155.	480-93-188(6)	Leak program - Self Audits	X															
156.	192.709	Patrolling (Transmission Lines) (Refer to Table Below) .705 Transmission not part of a standard inspection.				X												
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157.	192.709	Leak Surveys (Transmission Lines) (Refer to Table Below) .706 Transmission not part of standard inspections.				X												
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158.	192.603(b)	Patrolling Business District (4 per yr/4½ months) .721(b)(1)	X															
159.	192.603(b)	Patrolling Outside Business District (2 per yr/7½ months) 192.721(b)(2) Done quarterly also.	X															
160.	192.603(b)	Leakage Survey - Outside Business District (5 years) 192.723(b)(1)	X															
161.	192.603(b)	Leakage Survey 192.723(b)(2) <ul style="list-style-type: none"> • Outside Business District (5 years) • Cathodically unprotected distribution lines (3 years) 	X															
162.	192.603(b)	Tests for Reinstating Service Lines 192.725 Reviewed during leak records review.	X															
163.	192.603(b)/.727(g)	Abandoned Pipelines; Underwater Facility Reports 192.727 None in district			X													
164.	192.709	Pressure Limiting and Regulating Stations (1 per yr/15 months) .739 Reviewed field records for R71 through R80 and date spreadsheet for the remaining regulator stations.	X															
165.	192.709	Pressure Limiting and Regulator Stations – Capacity (1 per yr/15 months) .743	X															
166.	192.709	Valve Maintenance – Transmission (1 per yr/15 months) .745 Not part of a standard inspection.				X												
167.	192.709	Valve Maintenance – Distribution (1 per yr/15 months) .747 Reviewed actual field records for service valve V-100 to V-110 There was a note where an unqualified employee operated valves in July 2015. CNG found this issue and operated the valves in August. A spreadsheet with dates for all other valves was reviewed for the other valves.	X															

168.	480-93-100(3)	Service valve maintenance (1 per yr/15 months) Reviewed actual field records for service valve SV-50 to SV-60 There was a note where an unqualified employee operated valves in July 2015. CNG found this issue and operated the valves in August. A spreadsheet with dates for all other valves was reviewed for the other valves.	X			
169.	192.709	Vault maintenance (≥200 cubic feet)(1 per yr/15 months) .749 No vaults over 200			X	
170.	192. 603(b)	Prevention of Accidental Ignition (hot work permits) .751 None reviewed.			X	
171.	192. 603(b)	Welding – Procedure 192.225(b)	X			
172.	192. 603(b)	Welding – Welder Qualification 192.227/.229	X			
173.	192. 603(b)	NDT – NDT Personnel Qualification .243(b)(2)	X			
174.	192.709	NDT Records (pipeline life) .243(f)	X			
175.	192.709	Repair: pipe (pipeline life); Other than pipe (5 years)	X			
176.	192.905(c)	Periodically examining their transmission line routes for the appearance of newly identified area's (HCA's) Not part of a standard inspection.			X	

Comments:

CORROSION CONTROL RECORDS			S	U	N/A	N/C
177.	192.455(a)(1)	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71)	X			
178.	192.455(a)(2)	CP system installed on and operating within 1 yr of completion of pipeline construction (after 7/31/71)	X			
179.	192.465(a)	Annual Pipe-to-soil Monitoring (1 per yr/15 months) for short sections (10% per year; all in 10 years) Not done on a 10% basis. Short sections are checked bi-monthly and recorded on the rectifier form.	X			
180.	192.491	Test Lead Maintenance .471	X			
181.	192.491	Maps or Records .491(a)	X			
182.	192.491	Examination of Buried Pipe when exposed .459 Form 625 Reviewed a sampling of exposed pipe reports. CNG form CP-625	X			
183.	480-93-110(8)	CP test reading on all exposed facilities where coating has been removed	X			
184.	192.491	Annual Pipe-to-soil monitoring (1 per yr/15 months) .465(a) <u>All annual test sites went past 15 months between 2014 and 2015. This includes approximately 256 test sites.</u> <u>Violation written under 49 CFR §192.465(a) External corrosion control: Monitoring.</u>		X		
185.	192.491	Rectifier Monitoring (6 per yr/2½ months) .465(b)	X			
186.	192.491	Interference Bond Monitoring – Critical (6 per yr/2½ months) .465(c) None in district			X	
187.	192.491	Interference Bond Monitoring – Non-critical (1 per yr/15 months) .465(c) None in district			X	
188.	480-93-110(2)	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) .465(d)	X			
189.	480-93-110(3)	CP equipment/ instrumentation maintained, tested for accuracy, calibrated, and operated in accordance with manufactures recommendations, or at appropriate schedule determined by gas company if no recommendation.	X			
190.	192.491	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) .465(e) None			X	
191.	192.491	Electrical Isolation (Including Casings) .467	X			

CORROSION CONTROL RECORDS			S	U	N/A	N/C
192.	480-93-110(5)	Casings inspected/tested annually not to exceed fifteen months	X			
193.	480-93-110(5)(a)	Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods	X			
194.	480-93-110(5)(b)	Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days Casing surveys were reviewed back to 2011. At that time two casings were noted. Starting in 2014 there were 13 shorted casings.	X			
195.	480-93-110(5)(c)	Casing shorts cleared when practical Some casings were removed. CNG evaluates casings and determines if they are safe to remove or clear.	X			
196.	480-93-110(5)(d)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months	X			
197.	192.491	Interference Currents .473 None			X	
198.	192.491	Internal Corrosion; Corrosive Gas Investigation .475(a) None			X	
199.	192.491	Internal Corrosion; Internal Surface Inspection; Pipe Replacement .475(b) Reviewed the Attalia 8” HP line #1 bypass job. CNG form 265 records the internal surface of any removed piping. Noted as internal surface good and dry conditions.	X			
200.	192.491	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months) .477 No coupons used.			X	
201.	192.491	Atmospheric Corrosion Control Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore) .481	X			
202.	192.491	Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions .483/.485 Records indicate that Odorizers 01 and 02 needed remedial action (sandblasting and paint) since 2011 and that Work Orders were created but the work was never completed. Work order 5428637066 for Odorizer O-1. Odorizer O-2 did not have a work order generated specifically for the paint issue but it was noted on the inspection form that it was needed since 2011. Violation written under WAC 480-93-180(1) Plans and procedures.		X		

Comments:

PIPELINE INSPECTION (Field)			S	U	N/A	N/C
203.	192.161	Supports and anchors	X			
204.	480-93-080(1)(d)	Welding procedures located on site where welding is performed?	X			
205.	480-93-080(1)(b)	Use of testing equipment to record and document essential variables	X			
206.	480-93-080(2)(a)	Plastic procedures located on site where welding is performed?	X			
207.	480-93-080(3)	Identification and qualification cards/certificates w/name of welder/joiner, their qualifications, date of qualification and operator whose qualification procedures were followed.	X			
208.	480-93-013	Personnel performing “New Construction” covered tasks OQ qualified?	X			
209.	480-93-015(1)	Odorization	X			
210.	480-93-018(3)	Updated records, inc maps and drawings made available to appropriate operations personnel?	X			
211.	192.179	Valve Protection from Tampering or Damage	X			
212.	192.455	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71) No coatings available for inspection at the time of this audit.				X
213.	192.463	Levels of cathodic protection	X			
214.	192.465	Rectifiers	X			
215.	192.467	CP - Electrical Isolation	X			

PIPELINE INSPECTION (Field)			S	U	N/A	N/C
216.	192.476	Systems designed to reduce internal corrosion No large pipeline jobs where this is critical.			X	
217.	192.479	Pipeline Components exposed to the atmosphere	X			
218.	192.481	Atmospheric Corrosion: monitoring	X			
219.	192.491	Test Stations – Sufficient Number .469	X			
220.	480-93-115(2)	Casings – Test Leads (casings w/o vents installed after 9/05/1992)	X			
221.	480-93-115(2)	Mains or transmission lines installed in casings/conduit. Are casing ends sealed?	X			
222.	480-93-115(4)	Service lines installed in casings/conduit. Are casing ends nearest to building walls sealed?	X			
223.	192.605(a)	Appropriate parts of manuals kept at locations where O&M activities are conducted	X			
224.	192.605	Knowledge of Operating Personnel	X			
225.	480-93-124	Pipeline markers	X			
226.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days?	X			
227.	192.719	Pre-pressure Tested Pipe (Markings and Inventory) No pre tested pipe on site.			X	
228.	192.195	Overpressure protection designed and installed where required?	X			
229.	192.739/743	Pressure Limiting and Regulating Devices (Mechanical/Capacities)	X			
230.	192.741	Telemetry, Recording Gauges None inspected.			X	
231.	192.751	Warning Signs None inspected.			X	
232.	192.355	Customer meters and regulators. Protection from damage	X			
233.	192.355(c)	Pits and vaults: Able to support vehicular traffic where anticipated.	X			
234.	480-93-140	Service regulators installed, operated and maintained per state/fed regs and manufacturers recommended practices?	X			
235.	480-93-178(2)	Plastic Pipe Storage facilities – Maximum Exposure to Ultraviolet Light (2yrs)	X			
236.	480-93-178(4)	Minimum Clearances from other utilities. For parallel lines a minimum of twelve inches. Where a minimum twelve inches of separation is not possible, must take adequate precautions, such as inserting the plastic pipeline in conduit, to minimize any potential hazards.	X			
237.	480-93-178(5)	Minimum Clearances from other utilities. For perpendicular lines a minimum of six inches of separation from the other utilities. Where a minimum six inches of separation is not possible, must take adequate precautions, such as inserting the plastic pipeline in conduit, to minimize any potential hazards	X			
238.	480-93-178(6)	Are there Temporary above ground PE pipe installations currently? Yes No X				
239.	480-93-178(6)(a)	If yes, is facility monitored and protected from potential damage?			X	
240.	480-93-178(6)(b)	If installation exceeded 30 days, was commission staff notified prior to exceeding the deadline?			X	
241.	192.745	Valve Maintenance (Transmission) Not part of a standard inspection.			X	
242.	192.747	Valve Maintenance (Distribution)	X			

Facility Sites Visited:

Facility Type	Facility ID Number	Location
Regulator	R36	Plymouth
Regulator	R56	Kennewick
Regulator	R23	Kennewick
Rectifier	Columbia Way	Kennewick

Comments:

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Recent Gas Pipeline Safety Advisory Bulletins: (Last 2 years)

<u>Number</u>	<u>Date</u>	<u>Subject</u>
ADB-2013-07	July 12, 13	Potential for Damage to Pipeline Facilities Caused by Flooding
ADB-2012-10	Dec 5, 12	Using Meaningful Metrics in Conducting Integrity Management Program Evaluations
ADB-2012-09	Oct 11, 12	Communication During Emergency Situations
ADB-2012-08	Jul 31, 12	Inspection and Protection of Pipeline Facilities After Railway Accidents
ADB-12-07	Jun 11, 12	Mechanical Fitting Failure Reports
ADB-12-06	May 7, 12	Verification of Records establishing MAOP and MOP
ADB-12-05	Mar 23, 12	Cast Iron Pipe (Supplementary Advisory Bulletin)
ADB -12-04	Mar 21, 12	Implementation of the National Registry of Pipeline and Liquefied Natural Gas Operators
ADB-12-03	Mar 6, 12	Notice to Operators of Driscopipe 8000 High Density Polyethylene Pipe of the Potential for Material Degradation
ADB-11-05	Sep 1, 11	Potential for Damage to Pipeline Facilities Caused by the Passage of Hurricanes

For more PHMSA Advisory Bulletins, go to <http://phmsa.dot.gov/pipeline/regs/advisory-bulletin>