

**Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Distribution Systems
Records Review and Field Inspection**

S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked
If an item is marked U, N/A, or N/C, an explanation must be included in this report.

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	6182		
Inspector Name & Submit Date	Dennis Ritter, April 13, 2015		
Chief Eng Name & Review/Date	Joe Subsits, May 21, 2015		
Operator Information			
Name of Operator:	NW Natural	OP ID #:	13840
Name of Unit(s):	Clark County		
Records Location:	Portland, OPS		
Date(s) of Last (unit) Inspection:	September 17-28, 2012	Inspection Date(s):	March 30-April 10, 2015

Inspection Summary:

The 2015 Standard Inspection for NW Natural (NWN) Clark County Unit was conducted in Portland, OR (records) and Clark County, WA. An exit interview was held at NWN’s Portland Headquarters on April 3, 2015 for records and at the NWN Vancouver Resource Center on April 9, 2015 for field issues and a recap of record issues. These issues are summarized below.

Field inspections locations are as noted in the Form R Field inspection form. Records were reviewed at NWN Headquarters in Portland, OR and at WUTC’s office prior to start of inspection. Field and OQ assessments were conducted as follows: CP pipe to soil, isolation, casings, rectifiers; bridge patrols; pressure regulators and relief; valve operation; odorizer station check, odorant concentration testing; industrial meters:

- 3-Gate/District Regulator stations and associated valves
- 2-Industrial meter sets and associated regulators, reliefs and valves
- 1-Odorant concentration (Sniff) testing
- 2-Odorant station
- 7-Rectifiers
- 4-casings
- 1-isolation test point
- 8-bridge patrols
- 9 construction projects were reviewed: steel main, PE main and services, regulator station work

The following issues were noted during the inspection:

1) *§192.161 Supports and anchors.*
(c) *Each support or anchor on an exposed pipeline must be made of durable, noncombustible material and must be designed and installed as follows:*
(1) *Free expansion and contraction of the pipeline between supports or anchors may not be restricted.*
(2) *Provision must be made for the service conditions involved.*
(3) *Movement of the pipeline may not cause disengagement of the support equipment.*

Findings: Field verification noted the Jemtegaard Middle School meter set was supported with wood 2x6 material, which is combustible. **NOPV as this is a violation of the code.**

2) *WAC 480-93-124 Pipeline markers.*
(5) *Each gas pipeline company must replace markers that are reported damaged or missing within forty-five days.*

Findings: NWN has recently updated their process to collect actual data for replacing missing/damaged markers. Old system, crews replaced as they found them without paperwork. The new system requires they populate a form to capture the data. **AOC as NWN has already found and remediated the issue.**

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Inspection Summary:

3) WAC 480-93-110 Corrosion control.

(8) On all cathodically protected pipelines, the gas pipeline company must take a cathodic protection test reading each time an employee or representative of the gas pipeline company exposes the facility and the protective coating is removed.

Findings: A review of NWN’s Completed Pipe Inspection Reports (exposed pipe condition reports) showed many instances where steel pipeline was unearthed and a cathodic protection (CP) reading was not taken. However, there is no documentation as to why a cathodic protection reading was not taken. NWN’s procedures allow for this if the coating is not removed, however in these instances, it could not be substantiated with the information in the record. In early 2014, NWN changed their data collection form to require this field be filled in—either the coating was removed and a CP read taken or it was not. The form cannot be completed until it’s entered. **AOC as NWN has already found and remediated the issue.**

4) WAC 480-93-110 Corrosion control.

(2) Each gas pipeline company must complete remedial action within ninety days to correct any cathodic protection deficiencies known and indicated by any test, survey, or inspection. An additional thirty days may be allowed for remedial action if due to circumstances beyond the gas pipeline company's control the company cannot complete remedial action within ninety days. Each gas pipeline company must be able to provide documentation to the commission indicating that remedial action was started in a timely manner and that all efforts were made to complete remedial action within ninety days. (Examples of circumstances allowing each gas pipeline company to exceed the ninety-day time frame include right of way permitting issues, availability of repair materials, or unusually long investigation or repair requirements.)

Findings: A review of NWN’s Completed Pipe Inspection Report (exposed pipe condition report) from 11/30/12 had a CP read of -0.56 VDC which is below NWN’s protective criteria established at -0.85 VDC. NWN could not document remedial action was taken within 90 days as required by code. **NOPV as cannot find the record showing remediation was completed within 90 days.**

5) §192.481 Atmospheric corrosion control: Monitoring.

(b) During inspections the operator must give particular attention to pipe at soil-to-air interfaces, under thermal insulation, under disbonded coatings, at pipe supports, in splash zones, at deck penetrations, and in spans over water.

(c) If atmospheric corrosion is found during an inspection, the operator must provide protection against the corrosion as required by Sec. 192.479.

Findings: During the field verification of a bridge crossing (1-002-026-B-01-B-A) located in the Felida area of Vancouver over Salmon Creek, corrosion was observed under a plastic collar used to protect pipe from the hanger on most southern hanger. Scaling and pits were visible. Also, it was noted that there was no tape or “powercrete” on north end at soil to air interface. This line was installed in 1988. NWN states these conditions were already found by NWN in previous annual inspections resulting in a project scheduled for this summer (2015) to replace all hangers, repair as necessary and coat the pipe. **AOC as NWN has already found the problem and is remediating summer 2015. Should be followed up on during next inspection cycle.**

HQ Address: 220 NW 2nd Ave Portland, OR 97209		System/Unit Name & Address: Clark County, WA	
Co. Official:	Grant Yoshihara	Phone No.:	
Phone No.:	503-226-4211 x2374	Fax No.:	
Fax No.:	503-273-4822	Emergency Phone No.:	503-887-4947

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Emergency Phone No.: 503-887-4947		
Persons Interviewed	Title	Phone No.
Kerry Champine	Manager, Code Compliance	503-226-4211 x4340
Dakota Duncan	Compliance Specialist	x4389
Samantha Burt	Compliance Specialist	x4366
Margaret Locke	Compliance Engineer	x4306
Zane White	HR Consultant	x4534
Robert Anderson	Field Supervisor	x2060
Sheri Clark	Engineer	x2045
Roy Rogers	Corrosion Supervisor	x4362
Clifton Coulter	Supervisor, Specialty Construction	
Mark Clemens	Supervisor, Pressure Control	
Richard Ahrendt	Specialty Construction Tech	
Mike Burtch	Specialty Construction Tech	
Gary McAward	Pressure Control Tech	
Jack Ledgerwood	Pressure Control Tech (odorant)	
Kenneth Reed	Pressure Control Tech	
Brett Corey	CFS Tech	
David Maynard	CP Tech	

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.			
(check one below and enter appropriate date)			
<input checked="" type="checkbox"/>	Team inspection was performed (Within the past five years.) or,	Date:	4/23-26/12
<input type="checkbox"/>	Other WUTC Inspector reviewed the O & M Manual (Since the last yearly review of the manual by the operator.)	Date:	
<input checked="" type="checkbox"/>	OQ Program Review (PHMSA Form 14)	Date:	11/4/14

GAS SYSTEM OPERATIONS			
Gas Supplier	Williams		
Services: 70,777 – all of WA from 2014 DOT Annual Report – we do not track areas separately			
<i>Residential</i>	<i>Commercial</i>	<i>Industrial</i>	<i>Other</i>
Number of reportable safety related conditions last year	0	Number of deferred leaks in system	46-3 are Class B
Number of <u>non-reportable</u> safety related conditions last year	0	Number of third party hits last year	84 – WA per 2014 Annual Report
Miles of transmission pipeline within unit (total miles and miles in class 3 & 4 areas)	3.4 for all of WA	Miles of main within inspection unit (total miles and miles in class 3 & 4 areas)	1741.3 for WA per Distribution Annual Report – Only classify transmission by class location
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:	N Vancouver Gate (Williams provides pressure regulation)	Inlet 960 outlet 255	Did not visit this site
	5207 NW McCann	Inlet 809 outlet 250	610/218
	W. Vancouver Gate	Inlet 809 outlet 250	607/510; 607/490; 510/227

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GAS SYSTEM OPERATIONS			
	Camas Gate	Inlet 400 outlet 60	Did not visit this site
	Washougal Gate	Inlet 250 outlet 40	Did not visit this site
	NE Union Rd @ 179 th St	Inlet 960 outlet 250	Did not visit this site
	Battleground Gate	Inlet 250 outlet 60	Did not visit this site
	Ridgefield Gate	Inlet 809 outlet 250	Did not visit this site
	NW Pacific Hwy & 995 E. Wellman Rd	Inlet 960 outlet 60	Did not visit this site
Town:	See field notes for regulator stations visited		
Other:			
Does the operator have any transmission pipelines?	Yes, not part of this inspection		
Compressor stations? Use Attachment 1.	No		

Pipe Specifications:			
Year Installed (Range)	1950 to present	Pipe Diameters (Range)	1" to under 12"
Material Type	Steel, Plastic PE, Plastic ABS	Line Pipe Specification Used	API 5L, ASTM D2513-99
Mileage	1719 miles of main – all WA	SMYS %	< 20%

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

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				
	S	U	NA	NC
Subparts A - C	X			
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.				

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. No transmission or LNG in this unit.			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? Battleground uprate 2104-160 to 250.	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. None			X	

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REPORTING RECORDS			S	U	N/A	N/C
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. None			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 . None			X	
6.	191.15(c)	Supplemental report (to 30-day follow-up) None			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. (NOTE: June 15, 2011 for the year 2010). None			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) None			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. None 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. 			X	
11.	.605(d)	Instructions to enable operation and maintenance personnel to recognize potential Safety Related Conditions	X			
12.	191.27	Offshore pipeline condition reports – filed within 60 days after the inspections None			X	
13.	192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports None			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			X	
16.	480-93-200(1)(b)	Damage to property of the operator and others of a combined total exceeding fifty thousand dollars; None			X	
17.	480-93-200(1)(c)	The evacuation of a building, or high occupancy structures or areas; None			X	
18.	480-93-200(1)(d)	The unintentional ignition of gas; None			X	
19.	480-93-200(1)(e)	The unscheduled interruption of service furnished by any operator to twenty five or more distribution customers; None			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; None			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; None			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; None			X	

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REPORTING RECORDS			S	U	N/A	N/C
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			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; or None			X	
26.	480-93-200(2)(d)	A gas pipeline pressure exceeding the MAOP None			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 Supplemental reports			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 failure analyses			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)	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			
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) 	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) None 			X	

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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. None in 2014, 2013			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	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	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 new customer mailer	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 Eric Stocking 6" fusion. OK, David Lemarr Locating Inc. OK, Eric Buch, RMLD,	X			
61.	192.225	Test Results to Qualify Welding Procedures WPA 130 for 4.5 to 12.75" API 5L line pipe. OK	X			
62.	192.227	Welder Qualification Brandt Huffman, Karl Bogrand, Chad Willet	X			
63.	480-93-080(1)(b)	Appendix C Welders re-qualified 2/Yr (7.5Months) Did not review projects with App C welders.			X	
64.	480-93-080(2)	Plastic pipe joiners re-qualified 1/Yr (15 Months) Requalify annually	X			
65.	480-93-080(2)(b)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period Requalify annually			X	
66.	480-93-080(2)(c)	Tracking Production Joints or Re-qualify joiners 1/Yr (12Months)	X			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
67.	480-93-115(2)	Test leads on casings (without vents) installed after 9/05/1992 None since last inspection			X	
68.	480-93-115(3)	Sealing ends of casings or conduits on transmission lines and mains None reviewed during inspection			X	
69.	480-93-115(4)	Sealing ends (nearest building wall) of casings or conduits on services None reviewed during inspection			X	
70.	192.241(a)	Visual Weld Inspector Training/Experience; James Gregor, CWI 04061561 per Standard Practice 223. OK	X			
71.	192.243(b)(2)	Nondestructive Technician Qualification Robert Madden, OWL, OK	X			
72.	192.243(c)	NDT procedures	X			
73.	192.243(f)	Total Number of Girth Welds Job 3407218-263 total welds	X			
74.	192.243(f)	Number of Welds Inspected by NDT Job 3407218-263 total welds (100%)	X			
75.	192.243(f)	Number of Welds Rejected None			X	
76.	192.243(f)	Disposition of each Weld Rejected None rejected			X	
77.	.273/.283	Qualified Joining Procedures Including Test Results	X			
78.	192.303	Construction Specifications Field Manual	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 No transmission in this inspection			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: No transmission in this inspection			X	
83.	480-93-160(2)(a)	Description and purpose of the proposed pipeline; No transmission in this inspection			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. No transmission in this inspection			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 No transmission in this inspection			X	
86.	480-93-160(2)(d)	MAOP for the gas pipeline being constructed; No transmission in this inspection			X	
87.	480-93-160(2)(e)	Location and construction details of all river crossings or other unusual construction requirements encountered en route. No transmission in this inspection			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; No transmission in this inspection			X	
89.	480-93-160(2)(g)	Welding specifications; and No transmission in this inspection			X	
90.	480-93-160(2)(h)	Bending procedures to be followed if needed. No transmission in this inspection			X	
91.	480-93-170(1)	Commission notified 2 days prior to pressure testing pipelines with an MAOP producing a hoop stress $\geq 20\%$ SMYS? No transmission in this inspection			X	
92.	480-93-170(7)	Pressure tests records at a minimum include required information listed under 480-93-170(a-h)	X			
93.	480-93-170(9)	Individual pressure test records maintained for single installations where multiple pressure tests were performed?	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 No moving or lowering			X	
96.	480-93-175(4)	Leak survey within 30 days of moving or lowering pipelines ≤ 60 psig No moving or lowering			X	

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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 Vancouver Belt-segment PO3, OK. Line installed 2003 to replace bare steel; Segment PO3 8” (Camas Lateral) 9/9/1956 OK.	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	X			
100.	192.605(b)(3)	Availability of construction records, maps, operating history to operating personnel Fieldsmart for field folks on tablet or PC	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 No transmission in this inspection			X	
104.	192.609	Class Location Study (If applicable) No transmission in this inspection			X	
105.	192.611	Confirmation or revision of MAOP No change due to class location			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)	X			
108.		Does operator including performance measures in facility locating services contracts with corresponding and meaningful incentives and penalties? Does not include performance measures. Program does have internal QA/QC both with contractor and NWN.			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?	X			
110.		Does the operator periodically review the Operator Qualification plan criteria and methods used to qualify personnel to perform locates?	X			
111.		Review operator locating and excavation <u>procedures</u> for compliance with state law and regulations.	X			
112.		Are locates are being made within the timeframes required by state law and regulations? Examine record sample .based on limited sample size	X			
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? Need to pick assets and will then look at individuals.	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?	X			

Comments:

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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 Mike Morgan OK	X																													
119.	192.615(b)(3)	Employee Emergency activity review, determine if procedures were followed.	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: last full plan review was 11/8/11.	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. Section 5 of PA plan																														
124.		API RP 1162 Baseline* Recommended Message Deliveries																														
125.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Stakeholder Audience (LDC’s)</th> <th style="width: 50%; text-align: center;">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 style="text-align: center;">Stakeholder Audience (Transmission line operators)</th> <th style="text-align: center;">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. Spanish. Do provide contact information in Russian and Chinese.	X																													

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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) Conduct effectiveness evaluation annually. Actual review was 11/8/11	X			
129.	192.616(j)	Operators of a Master Meter or petroleum gas system – public awareness messages 2 times annually: No applicable master meters (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.				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) None				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)	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 ? NWN has recently updated this process to collect actual data for replacing missing/damaged markers. Old system, crews replaced as they found them without paperwork. AOC.			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 uprate from less than 60 psi to greater than 60 psi.				X
140.	480-93-185(1)	Reported gas leaks promptly investigated? Graded in accordance with 480-93-186? Records retained? NWN has two classifications based on first responder onsite: either “hazardous or non -hazardous”. Cannot grade a non-hazardous leak (B or C) this must be done by leakage inspectors within 5 business days. Per SP 709.	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;	X			
142.	480-93-185(3)(b)	Leaks originating from a foreign source reported promptly/notification by mail. Records retained?	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? Three leaks since last inspection which were downgraded once. Two were eliminated, one is still active. OK	X			
145.	480-93-187	Gas leak records: at a minimum include required information listed under 480-93-187(1-13)	X			

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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															
<table border="1"> <tr> <td>Business Districts (implement by 6/02/07)</td> <td>1/yr (15 months)</td> </tr> <tr> <td>High Occupancy Structures</td> <td>1/yr (15 months)</td> </tr> <tr> <td>Pipelines Operating ≥ 250 psig</td> <td>1/yr (15 months)</td> </tr> <tr> <td>Other Mains: CI, WI, copper, unprotected steel</td> <td>2/yr (7.5 months)</td> </tr> </table>							Business Districts (implement by 6/02/07)	1/yr (15 months)	High Occupancy Structures	1/yr (15 months)	Pipelines Operating ≥ 250 psig	1/yr (15 months)	Other Mains: CI, WI, copper, unprotected steel	2/yr (7.5 months)				
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149.	480-93-188(4)(a)	Special leak surveys - Prior to paving or resurfacing, following street alterations or repairs No special leak surveys since last inspection			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 No special leak surveys since last inspection			X													
151.	480-93-188(4)(c)	Special leak surveys - Unstable soil areas where active gas lines could be affected No special leak surveys since last inspection			X													
152.	480-93-188(4)(d)	Special leak surveys - areas and at times of unusual activity, such as earthquake, floods, and explosions No special leak surveys since last inspection			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. This is part standard procedure to emergency response not a special leak survey.	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 Completed 1-5-15-findings are still in draft, not finalized.	X															
156.	192.709	Patrolling (Transmission Lines) (Refer to Table Below) .705 No transmission in this inspection			X													
<table border="1"> <thead> <tr> <th>Class Location</th> <th>At Highway and Railroad Crossings</th> <th>At All Other Places</th> </tr> </thead> <tbody> <tr> <td>1 and 2</td> <td>2/yr (7½ months)</td> <td>1/yr (15 months)</td> </tr> <tr> <td>3</td> <td>4/yr (4½ months)</td> <td>2/yr (7½ months)</td> </tr> <tr> <td>4</td> <td>4/yr (4½ months)</td> <td>4/yr (4½ months)</td> </tr> </tbody> </table>							Class Location	At Highway and Railroad Crossings	At All Other Places	1 and 2	2/yr (7½ months)	1/yr (15 months)	3	4/yr (4½ months)	2/yr (7½ months)	4	4/yr (4½ months)	4/yr (4½ months)
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157.	192.709	Leak Surveys (Transmission Lines) (Refer to Table Below) .706 No transmission in this inspection			X													
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3	2/yr	7½ months																
4	4/yr	4½ months																
158.	192.603(b)	Patrolling Business District (4 per yr/4½ months) .721(b)(1) NWN has not determined the severity of the conditions merits a patrolling frequency of more than 1 time per year.			X													
159.	192.603(b)	Patrolling Outside Business District (2 per yr/7½ months) 192.721(b)(2) NWN has not determined the severity of the conditions merits a patrolling frequency of more than every 3 years.			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) NWN combines atmospheric survey with leakage survey every 3 years. 	X															
162.	192.603(b)	Tests for Reinstating Service Lines 192.725	X															
163.	192.603(b)/.727(g)	Abandoned Pipelines; Underwater Facility Reports 192.727 No abandoned lines			X													

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164.	192.709	Pressure Limiting and Regulating Stations (1 per yr/15 months) .739	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 No transmission			X	
167.	192.709	Valve Maintenance – Distribution (1 per yr/15 months) .747	X			
168.	480-93-100(3)	Service valve maintenance (1 per yr/15 months)	X			
169.	192.709	Vault maintenance (≥200 cubic feet)(1 per yr/15 months) .749 No vaults			X	
170.	192.603(b)	Prevention of Accidental Ignition (hot work permits) .751 Don't use hot work permits			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) No transmission			X	
175.	192.709	Repair: pipe (pipeline life); Other than pipe (5 years) Looked up two repairs in 2013-both repair bands on steel. OK	X			
176.	192.905(c)	Periodically examining their transmission line routes for the appearance of newly identified area's (HCA's) No transmission			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 CP 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)	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	X			
183.	480-93-110(8)	CP test reading on all exposed facilities where coating has been removed: Exposed pipe reports do not indicate if coating was or was not removed and whether a CP read should have been taken. NWN has recently (2014) revised this process to require a fields on the form be filled in to finalize report.		X		
184.	192.491	Annual Pipe-to-soil monitoring (1 per yr/15 months) .465(a)	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) No interference bonds			X	
187.	192.491	Interference Bond Monitoring – Non-critical (1 per yr/15 months) .465(c) No interference bonds			X	
188.	480-93-110(2)	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) .465(d) Exposed pipe report from 11/30/12 had a CP read of -0.56. NWN could not document a follow up on this low read occurred within 90 days as required by code.		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			

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
190.	192.491	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) .465(e) No unprotected pipelines; bare steel is cathodically protected-will also be removed starting in June 2015 (this is the last bare steel in WA).			X	
191.	192.491	Electrical Isolation (Including Casings) .467	X			
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 Use casing vents	X			
194.	480-93-110(5)(b)	Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days Did not have any possible shorted conditions			X	
195.	480-93-110(5)(c)	Casing shorts cleared when practical No shorted casings			X	
196.	480-93-110(5)(d)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months No shorted casings			X	
197.	192.491	Interference Currents .473 No interference currents			X	
198.	192.491	Internal Corrosion; Corrosive Gas Investigation .475(a) No internal corrosion or investigations-did formal analysis through TIMP			X	
199.	192.491	Internal Corrosion; Internal Surface Inspection; Pipe Replacement .475(b)	X			
200.	192.491	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months) .477 No internal corrosion or investigations-did formal analysis through TIMP			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 No transmission			X	

Comments:

PIPELINE INSPECTION (Field)			S	U	N/A	N/C
203.	192.161	Supports and anchors: <ul style="list-style-type: none"> • 4” steel FBE coated line on hangers on west side of bridge. Observed corrosion under plastic collar used to protect pipe from hanger on most southern hanger and on north end. Also, no tape or “powercrete” on north end at soil to air interface. This line was installed in 1988. NWN states these conditions were already found in previous annual inspections resulting in a project scheduled for this summer (2015). AOC. • Jemtegaard Middle School meter set, wood combustible 2x6 material used for support of meter. 		X		
204.	480-93-080(1)(d)	Welding procedures located on site where welding is performed? Did not witness during field verification			X	
205.	480-93-080(1)(b)	Use of testing equipment to record and document essential variables Did not witness during field verification			X	
206.	480-93-080(2)(a)	Plastic procedures located on site where welding is performed? Did not witness during field verification			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. Did not witness during field verification			X	
208.	480-93-013	Personnel performing “New Construction” covered tasks OQ qualified? Did not witness during field verification			X	
209.	480-93-015(1)	Odorization	X			
210.	480-93-018(3)	Updated records, inc maps and drawings made available to appropriate operations	X			

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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
		personnel?				
211.	192.179	Valve Protection from Tampering or Damage	X			
212.	192.455	Pipeline coatings meet requirements of 192.461 <i>(for buried pipelines installed after 7/31/71)</i> Did not witness during field verification			X	
213.	192.463	Levels of cathodic protection	X			
214.	192.465	Rectifiers	X			
215.	192.467	CP - Electrical Isolation	X			
216.	192.476	Systems designed to reduce internal corrosion no internal corrosion			X	
217.	192.479	Pipeline Components exposed to the atmosphere	X			
218.	192.481	Atmospheric Corrosion: monitoring see 203 above for corrosion occurring under plastic protective collar.		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? Did not witness during field verification			X	
222.	480-93-115(4)	Service lines installed in casings/conduit. Are casing ends nearest to building walls sealed? Did not witness during field verification			X	
223.	192.605(a)	Appropriate parts of manuals kept at locations where O&M activities are conducted all manuals are digital and located on field personnel comuters/tablets.	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? Did not observe during field verification			X	
227.	192.719	Pre-pressure Tested Pipe (Markings and Inventory) none in shop	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	X			
231.	192.751	Warning Signs	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. None in this unit			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. Did not witness during field verification			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 Did not witness during field verification			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) No Transmission			X	
242.	192.747	Valve Maintenance (Distribution) Did not witness during field verification-only valve			X	

Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Distribution Systems
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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
		operation				
Facility Sites Visited:						
Facility Type	Facility ID Number	Location				
Bridge Crossing	4-011-024-B-01-B-A	Gee Creek, Ridgefield WA				
Bridge Crossing	4-012-022-B-01-B-A	Gee Creek, Ridgefield WA				
Bridge Crossing	4-013-022-B-01-B-A	Gee Creek, Ridgefield WA				
Bridge Crossing	1-002-026-B-01-B-A	Salmon Creek, Vancouver WA				
Bridge Crossing	1-002-035-B-01-B-A	Salmon Creek, Vancouver WA				
Bridge Crossing	1-008-047-B-01-B-A	Lower Fifth Plain Creek, Vancouver WA				
Bridge Crossing	1-010-030-B-01-B-A	BNRR, Vancouver WA				
Bridge Crossing	1-015-038-B-01-B-A	Burnt Bridge Creek, Vancouver WA				
Odorant concentration test site	1-004-026	Lakeshore Athletic Club, Vancouver WA				
Felida Gate Station	1-003-025	5207 NW McCann, Vancouver WA				
Odorizer	1-003-025	5207 NW McCann, Vancouver WA				
W. Vancouver Gate	1-012-023-G-01	Vancouver WA				
Odorizer	1-012-023	W. Vancouver Gate, Vancouver WA				
Industrial Meter set	1-015-028-M-09	NW Packing, Vancouver WA				
District Regulator	1-016-028-R-01	W. 8 th St and Port Way, Vancouver WA				
Industrial Meter set	1-020-047-M-01	SEH America, Vancouver WA				
Rectifier	1-008-032	NE 78 th and 25 th Ave, Vancouver WA				
Rectifier	1-012-029	W. 44 th St and Daniels, Vancouver WA				
Casing	1-016-028	W. 8 th St and Hill St, Vancouver WA				
Rectifier	1-016-029	Columbia and W. 2 nd St, Vancouver WA				
Casing	1-017-032	Hwy 14 and W. 2 nd St, Vancouver WA				
Rectifier	1-022-058	C St and First, Washougal WA				
Isolation point	1-022-058	Washougal Gate, Washougal WA				
Casing	1-022-058	3 rd St and BNRR, Washougal WA				
Annual P/S	1-022-061	Hathaway Elementary, Washougal WA				
Annual P/S	1-023-064	Jemtegaard Middle School, Washougal WA				
Rectifier	1-009-043	NE 134 th Ave and 4 th Plain, Vancouver WA				
Rectifier	4-006-042	S. Parkway and SW 4 th St, Battleground WA				
Annual P/S	4-007-044	NE 11 th Ct and E. Main St, Battleground WA				

Comments:

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Comments:

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>

Attachment 1

Distribution Operator Compressor Station Inspection

Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked
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		COMPRESSOR STATION PROCEDURES N/A no compression	S	U	N/A	N/C
243.	.605(b)					
244.		.605(b)(6) Maintenance procedures, including provisions for isolating units or sections of pipe and for purging before returning to service				
245.		.605(b)(7) Starting, operating, and shutdown procedures for gas compressor units				
246.		.731 Inspection and testing procedures for remote control shutdowns and pressure relieving devices (1 per yr/15 months), prompt repair or replacement				
247.		.735 (a) Storage of excess flammable or combustible materials at a safe distance from the compressor buildings				
248.		(b) Tank must be protected according to NFPA #30				
249.		.736 Compressor buildings in a compressor station must have fixed gas detection and alarm systems (must be performance tested), unless:				
250.		• 50% of the upright side areas are permanently open, or				
251.		• It is an unattended field compressor station of 1000 hp or less				

Comments:

			S	U	N/A	N/C
COMPRESSOR STATION O&M PERFORMANCE AND RECORDS						
252.	.709	.731(a) Compressor Station Relief Devices (1 per yr/15 months)				
253.		.731(c) Compressor Station Emergency Shutdown (1 per yr/15 months)				
254.		.736(c) Compressor Stations – Detection and Alarms (Performance Test)				

Comments:

			S	U	N/A	N/C
COMPRESSOR STATIONS INSPECTION (Field)						
(Note: Facilities may be “Grandfathered”)						
255.	.163	(c) Main operating floor must have (at least) two (2) separate and unobstructed exits				
256.		Door latch must open from inside without a key				
257.		Doors must swing outward				
258.		(d) Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit				
259.		Each gate located within 200 ft of any compressor plant building must open outward				
260.		When occupied, the door must be opened from the inside without a key				
261.		(e) Does the equipment and wiring within compressor stations conform to the National Electric Code, ANSI/NFPA 70?				
262.	.165	(a) If applicable, are there liquid separator(s) on the intake to the compressors?				
263.		(b) Do the liquid separators have a manual means of removing liquids?				

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COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
(Note: Facilities may be “Grandfathered”)						
264.		If slugs of liquid could be carried into the compressors, are there automatic dumps on the separators, Automatic compressor shutdown devices, or high liquid level alarms?				
265.	.167 (a)	ESD system must:				
266.		- Discharge blowdown gas to a safe location				
267.		- Block and blow down the gas in the station				
268.		- Shut down gas compressing equipment, gas fires, electrical facilities in compressor building and near gas headers				
269.		- Maintain necessary electrical circuits for emergency lighting and circuits needed to protect equipment from damage				
270.		ESD system must be operable from at least two locations, each of which is:				
271.	.167	- Outside the gas area of the station				
272.		- Not more than 500 feet from the limits of the station				
273.		- ESD switches near emergency exits?				
274.	(b)	For stations supplying gas directly to distribution systems, is the ESD system configured so that the LDC will not be shut down if the ESD is activated?				
275.	(c)	Are ESDs on platforms designed to actuate automatically by...				
276.		- For unattended compressor stations, when:				
277.		▪ The gas pressure equals MAOP plus 15%?				
278.		▪ An uncontrolled fire occurs on the platform?				
279.		- For compressor station in a building, when				
280.		▪ An uncontrolled fire occurs in the building?				
281.		▪ Gas in air reaches 50% or more of LEL in a building with a source of ignition (facility conforming to NEC Class 1, Group D is not a source of ignition)?				
282.	.171 (a)	Does the compressor station have adequate fire protection facilities? If fire pumps are used, they must not be affected by the ESD system.				
283.	(b)	Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?				
284.	(c)	Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?				
285.	(d)	Are the gas compressor units equipped to automatically stop fuel flow and vent the engine if the engine is stopped for any reason?				
286.	(e)	Are the mufflers equipped with vents to vent any trapped gas?				
287.	.173	Is each compressor station building adequately ventilated?				
288.	.457	Is all buried piping cathodically protected?				
289.	.481	Atmospheric corrosion of aboveground facilities				
290.	.603	Does the operator have procedures for the start-up and shut-down of the station and/or compressor units?				
291.		Are facility maps current/up-to-date?				
292.	.615	Emergency Plan for the station on site?				
293.	.619	Review pressure recording charts and/or SCADA				
294.	.707	Markers				
295.	.731	Overpressure protection – relief’s or shutdowns				
296.	.735	Are combustible materials in quantities exceeding normal daily usage, stored a safe distance from the compressor building?				
297.		Is aboveground oil or gasoline storage tanks protected in accordance with NFPA standard No. 30?				

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COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
(Note: Facilities may be “Grandfathered”)						
298.	.736	Gas detection – location				

Comments: