

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

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

Inspection Report			
Docket Number	PG-080031		
Inspector Name & Submit Date	Lex Vinsel 11/25/08		
Sr. Eng Name & Review/Date	D. Lykken 12/11/08		
Operator Information			
Name of Operator:	Puget Sound Energy	OP ID #:	22189
Name of Unit(s):	Pierce County (inc Vashon Island)		
Records Location:	Various		
Date(s) of Last (unit) Inspection:	Various Dates Oct.2005 thru June 2006	Inspection Date(s):	Various dates June 23 thru Oct. 18, 2008

Inspection Summary:

HQ Address: Puget Sound Energy PO Box 90868 MS: EST07W Bellevue, Washington 98009-0868	System/Unit Name & Address:
Co. Official: Bert Valdman Phone No.: (425)462-3193 Fax No.: Emergency Phone No.: (800)552-7171	Phone No.: Fax No.: Emergency Phone No.:

Persons Interviewed	Title	Phone No.
Rhonda Landress	Compliance Coordinator for Damage Prev	(425)457-5816
Darryl Hong	Compliance Coordinator	(425) 462- 3911
Dorothy Bracken	Customer Communication Manager	(425) 462 -3206
Gary Swanson	Maintenance Program Coordinator	
Tina Herman	Maintenance Program Engr Assistant	
Signe Lippert	Supervisor of Maintenance programs	
Dave Moffett	Supervisor of Corrosion Control	
Ed Voogt	Corrosion Technologist	425/748-6336
Jerry Gains	Engineering Assistant	(253)476-6224
John Batinovich	CP Technician	
Keith Raines	CFS/GSR(Odorant)	(253)377-7035
Darrell Hahto		
Ralph Yerbury		
Robert Morse	Supervisor - Gas First Response	(253)476-6120

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John Batinovich	Corrosion Control Tech	
Larry O'Neil	Corrosion Control Tech	
Jim Oliver	Corrosion Control Tech	
Dennis Doyle	Pressure Control	
Bill Molden	Pressure Control	
Paul Bench	Pressure Control	
Tony Smith	Energy Measurement	

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 type="checkbox"/>	Team inspection was performed (Within the past five years.) or,	Date:	
<input checked="" type="checkbox"/>	Other WUTC Inspector reviewed the O & M Manual (Since the last yearly review of the manual by the operator.)	Date:	6/2006

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GAS SYSTEM OPERATIONS

Gas Supplier	Williams		
Services: <i>Residential</i> 792,353* <i>Commercial</i> <i>Industrial</i> <i>Other</i> *System wide – Only system totals are available			
Number of reportable safety related conditions last year 0		Number of deferred leaks in system 562 C leaks in Pierce County	
Number of <u>non-reportable</u> safety related conditions last year 0		Number of third party hits last year 1653 Leaks due to Excavation	
Miles of transmission pipeline within unit (total miles and miles in class 3 & 4 areas) No Transmission Lines in Pierce County		Miles of main within inspection unit(total miles and miles in class 3 & 4 areas) 11,740	
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:			
Town:			
Other:			
Does the operator have any transmission pipelines?		None in Pierce	
Compressor stations? Use Attachment I.		None in Pierce	

Pipe Specifications:

Year Installed (Range)	1950-2008	Pipe Diameters (Range)	5/8" to over 8 inch
Material Type	Bare, Coated, PE, WI, Cu	Line Pipe Specification Used	Various
Mileage	11,740	SMYS %	Less than 40 %

Operator Qualification Field Validation

Important: Per OPS, the OQ Field Inspection Protocol Form (Rev 3, Feb 08) 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** 11/25/08

REPORTING RECORDS

			S	U	N/A	N/C
1.	191.5	Any incidents requiring telephonic reporting to the NRC (800-424-8802) None			X	
2.	191.23	Filing the Safety Related Condition Report within 5 days of determination, but not later than 10 days after discovery None			X	
3.	192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports None			X	
4.	480-93-200(1)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 2 hours) for events which results in;	X			
5.	480-93-200(1)(a)	A fatality or personal injury requiring hospitalization;	X			
6.	480-93-200(1)(b)	Damage to property of the operator and others of a combined total exceeding fifty thousand dollars;	X			
7.	480-93-200(1)(c)	The evacuation of a building, or high occupancy structures or areas;	X			
8.	480-93-200(1)(d)	The unintentional ignition of gas;	X			
9.	480-93-200(1)(e)	The unscheduled interruption of service furnished by any operator to twenty five or more distribution customers;	X			
10.	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;	X			
11.	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			
12.	480-93-200(2)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for;				

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REPORTING RECORDS			S	U	N/A	N/C
13.	480-93-200(2)(a)	The uncontrolled release of gas for more than two hours;	X			
14.	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;	X			
15.	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	X			
16.	480-93-200(2)(d)	A gas pipeline pressure exceeding the MAOP	X			
17.	480-93-200(4)	Did written incident reports (within 30 days of telephonic notice) include the following	X			
18.	480-93-200(4)(a)	Name(s) and address(es) of any person or persons injured or killed, or whose property was damaged;	X			
19.	480-93-200(4)(b)	The extent of injuries and damage;	X			
20.	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			
21.	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			
22.	480-93-200(4)(e)	The date and time the gas pipeline company was first notified of the incident;	X			
23.	480-93-200(4)(f)	The date and time the ((operators')) gas pipeline company's first responders arrived on-site;	X			
24.	480-93-200(4)(g)	The date and time the gas ((facility)) pipeline was made safe;	X			
25.	480-93-200(4)(h)	The date, time, and type of any temporary or permanent repair that was made;	X			
26.	480-93-200(4)(i)	The cost of the incident to the ((operator)) gas pipeline company;	X			
27.	480-93-200(4)(j)	Line type;	X			
28.	480-93-200(4)(k)	City and county of incident; and	X			
29.	480-93-200(4)(l)	Any other information deemed necessary by the commission.	X			
30.	480-93-200(5)	Submit a supplemental report if required information becomes available	X			
31.	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	X			
32.	480-93-200(7)	Annual Reports filed with the commission no later than March 15 for the proceeding calendar year	X			
33.	480-93-200(7)(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			
34.	480-93-200(7)(b)	Damage Prevention Statistics Report including the following;	X			
35.	480-93-200(7)(b)(i)	Number of gas-related one-call locate requests completed in the field;	X			
36.	480-93-200(7)(b)(ii)	Number of third-party damages incurred; and	X			
37.	480-93-200(7)(b)(iii)	Cause of damage, where cause of damage is classified as one of the following: (A) Inaccurate locate; (B) Failure to use reasonable care; (C) Excavated prior to a locate being conducted; or (D) Excavator failed to call for a locate.	X			
38.	480-93-200(7)(c)	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			
39.	480-93-200(8)	Providing updated emergency contact information to the commission and appropriate officials of all municipalities where gas pipeline companies have facilities	X			
40.	480-93-200(9)	Providing by email, reports of daily construction and repair activities no later than 10:00 a.m.	X			
41.	480-93-200(10)	Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form when required	X			

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Documentation Reviewed:				
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Comments:

CUSTOMER and EXCESS FLOW VALVE INSTALLATION NOTIFICATION			S	U	N/A	N/C
42.	192.16	New customers notified, within 90 days, of their responsibility for those service lines not maintained by the operator.	X			
43.	192.381	Does the excess flow valve meet the performance standards prescribed under §192.381?	X			
44.	192.383	Does the operator have a voluntary installation program for excess flow valves and does the program meet the requirements outlined in §192.383? Are records adequate?	X			
45.	192.383	If no voluntary program for EFV installations, are customers notified in accordance with §192.383? Are records adequate?			X	

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CONSTRUCTION RECORDS			S	U	N/A	N/C
46.	480-93-013	OQ records for personnel performing New Construction covered tasks	X			
47.	192.225	Test Results to Qualify Welding Procedures	X			
48.	192.227	Welder Qualification	X			
49.	480-93-080(1)(a)(iv)	Appendix C Welders re-qualified 2/Yr (7.5Months)	X			
50.	480-93-080(2)	Plastic pipe joiners re-qualified 1/Yr (15 Months)	X			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
51.	480-93-080(2)(b)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period Staff (King Co. AJ) reviewed welder and fuser qualifications at the union hall. Qualifications are reviewed during crew inspections.	X			
52.	480-93-080(2)(c)	Tracking Production Joints or Re-qualify joiners 1/Yr (12Months)	X			
53.	480-93-115(2)	Test leads on casings (without vents) installed after 9/05/1992	X			
54.	480-93-115(3)	Sealing ends of casings or conduits on transmission lines and mains	X			
55.	480-93-115(4)	Sealing ends (nearest building wall) of casings or conduits on services	X			
56.	192.241(a)	Visual Weld Inspector Training/Experience	X			
57.	192.243(b)(2)	Nondestructive Technician Qualification	X			
58.	192.243(c)	NDT procedures No large jobs where NDT was used.				X
59.	192.243(f)	Total Number of Girth Welds No large jobs where NDT was used.				X
60.	192.243(f)	Number of Welds Inspected by NDT No large jobs where NDT was used.				X
61.	192.243(f)	Number of Welds Rejected No large jobs where NDT was used.				X
62.	192.243(f)	Disposition of each Weld Rejected No large jobs where NDT was used.				X
63.	192.303	Construction Specifications	X			
64.	192.325	Underground Clearance	X			
65.	192.327	Amount, location, cover of each size of pipe installed	X			
66.	480-93-160(1)	Report filed 45 days prior to construction or replacement of transmission pipelines ≥ 100 feet in length No large jobs in Pierce Co.				X
67.	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 large jobs in Pierce Co.				X
68.	480-93-160(2)(a)	Description and purpose of the proposed pipeline; No large jobs in Pierce Co.				X
69.	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 large jobs in Pierce Co.				X
70.	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 large jobs in Pierce Co.				X
71.	480-93-160(2)(d)	MAOP for the gas pipeline being constructed; No large jobs in Pierce Co.				X
72.	480-93-160(2)(e)	Location and construction details of all river crossings or other unusual construction requirements encountered en route. No large jobs in Pierce Co.				X
73.	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 large jobs in Pierce Co.				X
74.	480-93-160(2)(g)	Welding specifications; and No large jobs in Pierce Co.				X
75.	480-93-160(2)(h)	Bending procedures to be followed if needed. No large jobs in Pierce Co.				X
76.	480-93-170(1)	Commission notified 2 day's prior to pressure testing pipelines with an MAOP producing a hoop stress $\geq 20\%$ SMYS? No large jobs in Pierce Co.				X
77.	480-93-170(4) PV-4	Service lines that are broken, pulled, or damaged, resulting in the interruption of gas supply to the customer, pressure tested from the point of damage to the service termination valve (generally the meter set) prior to being placed back into service? 7 of 345 Leak Work Orders reviewed do NOT have record of the required pressure test from point of damage back to the meter set.		X		
78.	480-93-170(7)	Pressure tests records at a minimum include required information listed under 480-93-170(a-h) No large jobs in Pierce Co.				X
79.	480-93-170(9)	Individual pressure test records maintained for single installations where multiple pressure tests were performed?	X			
80.	480-93-170(10)	Pressure Testing Equipment checked for accuracy/intervals (Manufacturers Rec or Operators schedule)	X			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
81.	480-93-175(2)	Study prepared and approved prior to moving and lowering of metallic pipelines > 60 psig PSE does not lower metal pipelines, they replace them.				X
82.	480-93-175(4)	Leak survey within 30 days of moving or lowering pipelines ≤ 60 psig PSE does not lower metal pipelines, they replace them.				X

Documentation Reviewed:			
Document Title	Document Number	Revision Date	Date Range Reviewed

Comments:

OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
83.	192.517(a)	Pressure Testing (operates at or above 100 psig) – useful life of pipeline	X			
84.	192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months)	X			
85.	192.605(b)(3)	Availability of construction records, maps, operating history to operating personnel	X			
86.	480-93-018(3)	Records, including maps and drawings updated within 6 months of completion of construction activity?	X			
87.	192.605(b)(8)	Periodic review of personnel work – effectiveness of normal O&M procedures	X			
88.	192.609	Class Location Study (If pipeline operating at >40% of SMYS) PSE has nothing over 40% SMYS in district.			X	
89.	192.614	Damage Prevention (Miscellaneous)	X			
90.	192.615(b)(1)	Location Specific Emergency Plan	X			
91.	192.615(b)(2)	Emergency Procedure training, verify effectiveness of training	X			
92.	192.615(b)(3)	Employee Emergency activity review, determine if procedures were followed. Post Incident Review Dorothy Bracken	X			
93.	192.615(c)	Liaison Program with Public Officials Written Liaison program	X			
94.	192.616	Public Awareness Program	X			

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C	
95.	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:	X				
96.		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.	X				
97.		API RP 1162 Baseline* Recommended Message Deliveries	X				
98.		Stakeholder Audience (LDC's)	X				
		Baseline Message Frequency (starting from effective date of Plan)					
		Residence Along Local Distribution System					Annual
		LDC Customers					Twice annually
		Emergency Officials					Annual
		Public Officials					3 years
	Excavator and Contractors	Annual					
99.		* Refer to API RP 1162 for additional requirements, including general program recommendations, supplemental requirements, recordkeeping, program evaluation, etc.	X				
100.	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.	X				
101.	192.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617	X				
102.	192.619	Maximum Allowable Operating Pressure (MAOP)	X				
103.	480-93-015(1)	Odorization of Gas – Concentrations adequate Concentrations reviewed on computer system (SAP) appear to have adequate concentrations of Odorant.	X				
104.	480-93-015(2)	Monthly Odorant Sniff Testing Reviewed dates on computer and print out that say all reads ok	X				
105.	480-93-015(3)	Prompt action taken to investigate and remediate odorant concentrations not meeting the minimum requirements	X				
106.	480-93-015(4)	Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation)	X				
107.	480-93-124(4)	Pipeline markers attached to bridges or other spans inspected? 1/yr(15 months)	X				
108.	480-93-124(5)	Markers reported missing or damaged replaced within 45 days?	X				
109.	480-93-140(2)	Service regulators and associated safety devices tested during initial turn-on	X				
110.	480-93-155(1) AOC-02	Up-rating of system MAOP to >60 psig? Procedures and specifications submitted 45 days prior? Staff questions PSE's uprating procedure 2575.2500 §5.2.1.4.2.	X				
111.	480-93-185(1)	Reported gas leaks promptly investigated? Graded in accordance with 480-93-186? Records retained?	X				
112.	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				
113.	480-93-185(3)(b)	Leaks originating from a foreign source reported promptly/notification by mail. Records retained?	X				
114.	480-93-186(2) PV-6	Leak evaluations: Determine and document the perimeter of the leak area. Was investigation extended to inside the building if leak extended to building wall? Leak reports do not show where surveys inside the building were performed when gas was detected at the building wall.		X			
115.	480-93-186(3) PV-7	Leak evaluations: Are follow-up inspections performed within 30 days of a leak repair? (13) Leak reports do not show follow-up leak survey for residual gas within 30 days.		X			
116.	480-93-186(4)	Leak evaluations: Grade 1 and 2 leaks (if any), downgraded once to a grade 3 without physical repair?	X				

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117.	480-93-187 PV-8	Gas leak records: at a minimum include required information listed under 480-93-187(1-13) Fourteen cases where the Leak Cause was recorded F- Other or G-equipment when the correct cause was B-excavation or H-outside forces.		X														
118.	480-93-188(1) PV-9	Gas leak surveys PSE did not record gas leak surveys for above ground areas		X														
119.	480-93-188(2)	Gas detection instruments tested for accuracy/intervals (Mfct recommended or monthly not to exceed 45 days)	X															
120.	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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121.	480-93-188(4)(a)	Special leak surveys - Prior to paving or resurfacing, following street alterations or repairs None			X													
122.	480-93-188(4)(b)	Special leak surveys - areas where substructure construction occurs adjacent to underground gas facilities, and damage could have occurred None			X													
123.	480-93-188(4)(c)	Special leak surveys - Unstable soil areas where active gas lines could be affected None			X													
124.	480-93-188(4)(d)	Special leak surveys - areas and at times of unusual activity, such as earthquake, floods, and explosions	X															
125.	480-93-188(4)(e) PV-10	Special leak surveys - After third-party excavation damage to services, operators must perform a gas leak survey from the point of damage to the service tie-in. 69 3 rd party LWO out of 356 did not perform a gas leak survey from break to service tie in.		X														
126.	480-93-188(5)	Gas Survey Records	X															
127.	480-93-188(6)	Leak program - Self Audits	X															
128.	192.709	Patrolling (Transmission Lines) (Refer to Table Below) .705 No Transmission Pipeline in Pierce County.			X													
<table border="1"> <tr> <td>Class Location</td> <td>At Highway and Railroad Crossings</td> <td>At All Other Places</td> </tr> <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> </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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4	4/yr (4½ months)	4/yr (4½ months)																
129.	192.709	Leak Surveys (Transmission Lines) (Refer to Table Below) .706 No Transmission Pipeline in Pierce County.			X													
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Class Location	Required	Not Exceed																
1 and 2	1/yr	15 months																
3	2/yr	7½ months																
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130.	192.603(b)	Patrolling Business District (4 per yr/4½ months)	X															
131.	192.603(b)	Patrolling Outside Business District (2 per yr/7½ months) 192.721(b)(2)	X															
132.	192.603(b)	Leakage Survey - Outside Business District (5 years) 192.723(b)(1)	X															
133.	192.603(b)	Tests for Reinstating Service Lines 192.725	X															
134.	192.603(b)/.727(g)	Abandoned Pipelines; Underwater Facility Reports 192.727 No abandoned pipelines in a navigable waterway.			X													
135.	192.709	Pressure Limiting and Regulating Stations (1 per yr/15 months) .739	X															
136.	192.709	Pressure Limiting and Regulator Stations – Capacity (1 per yr/15 months) .743	X															

**Utilities and Transportation Commission
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Records Review and Field Inspection**

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
137.	192.709	Valve Maintenance – Transmission (1 per yr/15 months) .745 No transmission in Pierce Co.			X	
138.	192.709	Valve Maintenance – Distribution (1 per yr/15 months) .747	X			
139.	480-93-100(3) PV-2	Service valve maintenance (1 per yr/15 months) 52 HOS valves were not maintained annually as required, not to exceed 15 months.		X		
140.	192.709	Vault maintenance (≥200 cubic feet)(1 per yr/15 months) .749	X			
141.	192. 603(b)	Welding – Procedure 192.225(b)	X			
142.	192. 603(b)	Welding – Welder Qualification 192.227/.229	X			
143.	192. 603(b)	NDT – NDT Personnel Qualification .243(b)(2)	X			
144.	192.709	NDT Records (pipeline life) .243(f)	X			
145.	192.709	Repair: pipe (pipeline life); Other than pipe (5 years).	X			

Documentation Reviewed:			
Document Title	Document Number	Revision Date	Date Range Reviewed

Comments:

CORROSION CONTROL RECORDS			S	U	N/A	N/C
146.	192.453	CP procedures (design, installation, operation, and maintenance) carried out by qualified personnel	X			
147.	192.455(a)(1)	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71)	X			
148.	192.455(a)(2)	CP system installed on and operating within 1 yr of completion of pipeline construction (after 7/31/71)	X			
149.	192.465(a)	Annual Pipe-to-soil Monitoring (1 per yr/15 months) for short sections (10% per year; all in 10 years) 6935 sites in Pierce county, PSE does in 9 year cycle.	X			
150.	192.491	Maps or Records .491(a)	X			
151.	192.491	Examination of Buried Pipe when exposed .459	X			
152.	480-93-110(8)	CP test reading on all exposed facilities where coating has been removed	X			
153.	192.491	Annual Pipe-to-soil monitoring (1 per yr/15 months) .465(a) Random review of 6 sites on SAP system.	X			
154.	192.491	Rectifier Monitoring (6 per yr/2½ months) .465(b) Approx 63 rectifiers and solar power systems in Pierce county.	X			
155.	192.491	Interference Bond Monitoring – Critical (6 per yr/2½ months) .465(c)	X			
156.	192.491	Interference Bond Monitoring – Non-critical (1 per yr/15 months) .465(c) PSE does not have any non critical bonds	X			
157.	480-93-110(2) PV-3	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) .465(d) 46 records show low CP remediation completed after 90 days. Received list of EPCRs that went over 90 days for remediation.		X		

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
158.	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			
159.	192.491	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) .465(e)	X			
160.	192.491	Electrical Isolation (Including Casings) .467	X			
161.	480-93-110(5)	Casings inspected/tested annually not to exceed fifteen months Randomly reviewed 26 of 133 casings records.	X			
162.	480-93-110(5)(a)	Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods These are the 2 under I5 without test leads. And they have some without test leads that they can monitor with an attenuation method.	X			
163.	480-93-110(5)(b)	Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days 3 casings are treated as shorted. One has a traffic problem and the others are under I5.	X			
164.	480-93-110(5)(c)	Casing shorts cleared when practical	X			
165.	480-93-110(5)(d)	Shorted conditions leak surveyed within 90 days of discovery.	X			
166.	192.491	Interference Currents .473 Twice annually/7.5 months Two interference bonds on system with test sites Ts-039120 and TS-043941	X			
167.	192.491	Internal Corrosion; Corrosive Gas Investigation .475(a) None	X			
168.	192.491	Internal Corrosion; Internal Surface Inspection; Pipe Replacement .475(b)	X			
169.	192.491	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months) .477 No coupons in Pierce Co.	X			
170.	192.491	Atmospheric Corrosion Control Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore) .481	X			
171.	192.491 PV-11	Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions .483/.485. <i>No records proving that cp protection applied to bare steel pipe at site of corrosion leak.</i>		X		

Documentation Reviewed:

Document Title	Document Number	Revision Date	Date Range Reviewed
Operations Emergency Information and Leak Reporting	Form 1284 Rev 10/06	10/06	

Comments:

**Utilities and Transportation Commission
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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
172.	192.161	Supports and anchors New supports and anchors are replacing the concrete strap supports that were used previously where you cannot inspect pipe surface in contact with the concrete.	X			
173.	480-93-080(1)(d)	Welding procedures located on site where welding is performed? No welding observed during inspection				X
174.	480-93-080(1)(b)	Use of testing equipment to record and document essential variables No welding observed during inspection				X
175.	480-93-080(2)(a)	Plastic procedures located on site where welding is performed?	X			
176.	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			
177.	480-93-013	Personnel performing "New Construction" covered tasks OQ qualified?	X			
178.	480-93-015(1)	Odorization Checked 6 odorization sites.	X			
179.	480-93-018(5) PV-1	Updated records, inc maps and drawings made available to appropriate operations personnel?		X		
180.	192.179	Valve Protection from Tampering or Damage	X			
181.	192.455	Pipeline coatings meet requirements of 192.461 <i>(for buried pipelines installed after 7/31/71)</i>	X			
182.	192.463	Levels of cathodic protection	X			
183.	192.465	Rectifiers	X			
184.	192.467	CP - Electrical Isolation	X			
185.	192.479	Pipeline Components exposed to the atmosphere	X			
186.	192.481 AOC-1	Atmospheric Corrosion: monitoring Field verification of Atmospheric Corrosion monitoring for Bethel High School. Records show condition 1 (no corrosion) on 02/07/08. Coating of pipe was removed and bare pipe showed shallow pitting. Correct condition should have been 2 or 3, surface corrosion or minor pitting respectively.	X			
187.	192.491	Test Stations – Sufficient Number .469	X			
188.	480-93-115(2)	Casings – Test Leads (casings w/o vents installed after 9/05/1992)	X			
189.	480-93-115(2)	Mains or transmission lines installed in casings/conduit. Are casing ends sealed?	X			
190.	480-93-115(4)	Service lines installed in casings/conduit. Are casing ends nearest to building walls sealed?	X			
191.	192.605(a)	Appropriate parts of manuals kept at locations where O&M activities are conducted	X			
192.	192.605	Knowledge of Operating Personnel	X			
193.	480-93-124	Pipeline markers installed	X			
194.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days?	X			
195.	192.707	Warning Signs	X			
196.	192.719	Pre-pressure Tested Pipe (Markings and Inventory) No pressure tested pipe inspected.			X	
197.	192.195	Overpressure protection designed and installed where required?	X			
198.	192.739	Pressure Limiting and Regulating Devices (Mechanical)	X			
199.	192.743	Pressure Limiting and Regulating Devices (Capacities)	X			
200.	192.355	Customer meters and regulators. Protection from damage	X			
201.	192.355(c)	Pits and vaults: Able to support vehicular traffic where anticipated.	X			
202.	480-93-140	Service regulators installed, operated and maintained per state/fed regs and manufacturers recommended practices?	X			
203.	480-93-178(2) PV-5	Plastic Pipe Storage facilities – Maximum Exposure to Ultraviolet Light (2yrs) Potelco storage yard contained PE pipe manufactured 07/10/1998.		X		
204.	480-93-178(4)	Minimum Clearances from other utilities. For parallel lines a minimum of twelve inches.	X			

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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
		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.				
205.	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			
206.	480-93-178(6)	Are there Temporary above ground PE pipe installations currently? None			X	
207.	480-93-178(6)(a)	If yes, is facility monitored and protected from potential damage? None			X	
208.	480-93-178(6)(b)	If installation exceeded 30 days, was commission staff notified prior to exceeding the deadline? None			X	
209.	192.745	Valve Maintenance (Transmission) No transmission in district.			X	
210.	192.747	Valve Maintenance (Distribution)	X			

Facility Sites Visited:		
Facility Type	Facility ID Number	Location
Warehouse and Yard	Potelco	5807 Milwaukee Ave
Warehouse and Yard	Pilchuck	Lakewood

Comments:

Utilities and Transportation Commission
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Pipeline Safety Advisory Bulletins:

OPS, PHMSA ADB-08-02 dated 3/04/2008 Notice to Owners and Operators of Gas Pipelines to Consider the Potential Failure Modes for Mechanical Couplings Used for Joining and Pressure Sealing Pipe Joints

Due to variables related to age of couplings, specific procedures and installation practices, and conditions specific to certain regions of the country, it is difficult to cite common criteria affecting all failures that operators should address. To ensure compliance with 49 CFR Part 192, PHMSA advises operators of gas distribution pipelines using mechanical couplings to take the 7 measures outlined in this notice.

OPS, PHMSA DB-06-03 dated 11/17/2006 Notice to Operators of Natural Gas and Hazardous Liquid Pipelines to Accurately Locate and Mark Underground Pipelines Before Excavation Activities Commence Near the Pipelines

Excavation damage continues to be one of the three leading causes of pipeline damage. PHMSA continues to find pipeline operators damaging regulated pipelines, production and gathering pipelines, and other utilities adjacent to where construction and maintenance is being performed. This damage jeopardizes the safety of excavators, pipeline employees, construction personnel, and others in the vicinity of the excavation. To guard the integrity of buried pipelines and prevent injury, death, and property and environmental damage, PHMSA advises pipeline operators to take the 15 damage prevention measures outlined in this notice.

OPS, PHMSA ADB-06-01 dated 1/17/06 Integrate Operator Qualification Regulations into Excavation Activities

Although excavation is not explicitly addressed in 49 CFR parts 192 and 195, excavation is considered a covered task under the pipeline operator qualifications regulations. These regulations require that pipeline operators and contractors be qualified to perform pipeline excavation activities. This advisory reminds operators to ensure all procedures and processes to perform excavation and backfilling are followed. Only qualified personnel must oversee all marking, trenching, and backfilling operations.

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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211.	.605(b)	COMPRESSOR STATION PROCEDURES	S	U	N/A	N/C
		No Compressor Stations in District				
212.		.605(b)(6) Maintenance procedures, including provisions for isolating units or sections of pipe and for purging before returning to service			X	
213.		.605(b)(7) Starting, operating, and shutdown procedures for gas compressor units			X	
214.		.731 Inspection and testing procedures for remote control shutdowns and pressure relieving devices (1 per yr/15 months), prompt repair or replacement			X	
215.		.735 (a) Storage of excess flammable or combustible materials at a safe distance from the compressor buildings			X	
216.		(b) Tank must be protected according to NFPA #30			X	
217.		.736 Compressor buildings in a compressor station must have fixed gas detection and alarm systems (must be performance tested), unless:			X	
218.		• 50% of the upright side areas are permanently open, or			X	
219.		• It is an unattended field compressor station of 1000 hp or less			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

COMPRESSOR STATION O&M RECORDS			S	U	N/A	N/C
No Compressor Stations in District						
220.	.709	.731(a) Compressor Station Relief Devices (1 per yr/15 months)			X	
221.		.731(c) Compressor Station Emergency Shutdown (1 per yr/15 months)			X	
222.		.736(c) Compressor Stations – Detection and Alarms (Performance Test)			X	

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Comments:

COMPRESSOR STATIONS INSPECTION (Field)				S	U	N/A	N/C
No Compressor Stations in District							
(Note: Facilities may be "Grandfathered")							
223.	.163	(c)	Main operating floor must have (at least) two (2) separate and unobstructed exits			X	
224.			Door latch must open from inside without a key			X	
225.			Doors must swing outward			X	
226.		(d)	Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit			X	
227.			Each gate located within 200 ft of any compressor plant building must open outward			X	
228.			When occupied, the door must be opened from the inside without a key			X	
229.		(e)	Does the equipment and wiring within compressor stations conform to the National Electric Code, ANSI/NFPA 70?			X	
230.	.165		(a) If applicable, are there liquid separator(s) on the intake to the compressors?			X	
231.		(b) Do the liquid separators have a manual means of removing liquids?			X		
232.		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?			X		
233.	.167	(a)	ESD system must:				
234.			- Discharge blowdown gas to a safe location			X	
235.			- Block and blow down the gas in the station			X	
236.			- Shut down gas compressing equipment, gas fires, electrical facilities in compressor building and near gas headers			X	
237.			- Maintain necessary electrical circuits for emergency lighting and circuits needed to protect equipment from damage			X	
238.			ESD system must be operable from at least two locations, each of which is:				
239.			(b)	- Outside the gas area of the station			X
240.	- Not more than 500 feet from the limits of the station				X		
241.	- ESD switches near emergency exits?				X		
242.	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?				X		
243.	(c)	Are ESDs on platforms designed to actuate automatically by...					
244.		- For unattended compressor stations, when:					
245.		▪ The gas pressure equals MAOP plus 15%?				X	
246.	▪ An uncontrolled fire occurs on the platform?				X		
247.	- For compressor station in a building, when						
248.	▪ An uncontrolled fire occurs in the building?				X		
249.	▪ 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)?			X			

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COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
No Compressor Stations in District (Note: Facilities may be "Grandfathered")						
250.	.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.		X	
251.		(b)	Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?		X	
252.		(c)	Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?		X	
253.		(d)	Are the gas compressor units equipped to automatically stop fuel flow and vent the engine if the engine is stopped for any reason?		X	
254.		(e)	Are the mufflers equipped with vents to vent any trapped gas?		X	
255.	.173		Is each compressor station building adequately ventilated?		X	
256.	.457		Is all buried piping cathodically protected?		X	
257.	.481		Atmospheric corrosion of aboveground facilities		X	
258.	.603		Does the operator have procedures for the start-up and shut-down of the station and/or compressor units?		X	
259.			Are facility maps current/up-to-date?		X	
260.	.615		Emergency Plan for the station on site?		X	
261.	.619		Review pressure recording charts and/or SCADA		X	
262.	.707		Markers		X	
263.	.731		Overpressure protection – relief's or shutdowns		X	
264.	.735		Are combustible materials in quantities exceeding normal daily usage, stored a safe distance from the compressor building?		X	
265.			Is aboveground oil or gasoline storage tanks protected in accordance with NFPA standard No. 30?		X	
266.	.736		Gas detection – location		X	

Documentation Reviewed:

Document Title	Document Number	Revision Date	Date Range Reviewed

Comments: