

**Washington 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- 080032		
Inspector/Submit Date	L. Vinsel 06/10/08		
Sr. Eng Review/Date	D. Lykken 6/24/08		
Operator Information			
Name of Operator:	Puget Sound Energy	OP ID #:	22189
Name of Unit(s):	Thurston/Pierce Counties		
Records Location:	Kent, WA and Georgetown office		
Date(s) of Last (unit) Inspection:	March 2006	Inspection Date(s):	March 31 – May 20, 2008

Inspection Summary:

The PSE Thurston/Lewis Counties District includes all distribution, transmission pipelines, and Gate Stations at Williams Pipeline within Thurston and Lewis Counties. The inspection included a review of the records at the Georgetown office, Operator Qualification in the field, and field inspection of district regulator stations, distribution piping including service risers, numerous CP stations and rectifiers.

This inspection does not include the Jackson Prairie Gas Storage Facility.

Reviewed Operation and Maintenance records 2004 to present, Various field inspection including regulator stations relief stations , regulators

HQ Address: Puget Sound Energy PO Box 90868 MS: EST07W Bellevue, Washington 98009-0868	System/Unit Name & Address: Thurston Lewis Counties (Less Jackson Prairie)	
Co. Official: Bert Valdman Phone No.: (425) 462-3193.. Fax No.: Emergency Phone No.: 800-552-7171	Phone No.: Fax No.: Emergency Phone No.: 800-552-7171	
Persons Interviewed	Title	Phone No.
Rhonda Landress	Compliance Engineer	425-457-5816
Kaaren Daugherty, P.E.	Lead Consulting Engineer Standards & Practice	425-462-3748
David Moffet	Supervisor Corrosion Control	253-476-6323
Bill Mouldin	Pressure Control	
Mike Wilcox	Pressure Control	

**Washington Utilities and Transportation Commission
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Scott Salizar	Corrosion Tech	
Jim Chartrey	Supervisor Pressure Control	253-476-6088
Taren Doughton	Operating Clerk	253-395-6982
Alan Mulkey		
Jerry Games		

<p align="center">WUTC staff conducted an abbreviated procedures inspection on 192 O&M and WAC items that changed since the last inspection. This checklist focuses on Records and Field items per a routine standard inspection.</p> <p align="center">(check one below and enter appropriate date)</p>			
<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:	April 2008

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GAS SYSTEM OPERATIONS

Gas Supplier	Williams		
Services:			
<i>Residential Approximately 45000* Commercial Industrial Other *PSE does not break services out by inspection unit.</i>			
Number of reportable safety related conditions last year	0	Number of deferred leaks in system	approximately 2500
Number of <u>non-reportable</u> safety related conditions last year	0	Number of third party hits last year	See 2007 Damage Prevention Statistics Form
Miles of transmission pipeline within unit (total miles and miles in class 3 & 4 areas)	0	Miles of main within inspection unit (total miles and miles in class 3 & 4 areas)	Approximately 1000 miles*
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:	< 280#		
Town:	Tap 4 inch - 600#		
Town:	Tap 2 inch - 600#		
Town:	Tap 10 inch - 400#		
Other:			
Does the operator have any transmission pipelines?	Not in this unit.		
Compressor stations? Use Attachment 1.	None		

Pipe Specifications:			
Year Installed (Range)	Thurston 1953- Lewis 1928	Pipe Diameters (Range)	Thur (1/2" to 12") Lew (1/2" to 6")
Material Type	STW, PE, ST, WI	Line Pipe Specification Used	various
Mileage	Thur 800 - Lew 150	SMYS %	< 20%

Operator Qualification Field Validation

Important: Per OPS, the OQ Field Inspection Protocol Form (Rev 3, Feb 07) 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** May 29, 2008

REPORTING RECORDS

			S	U	N/A	N/C
1.	191.5	Telephonic reports to NRC (800-424-8802)	X			
2.	480-93-200(1)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 2 hours) for events which; (eff 6/02/05)	X			
3.	480-93-200(1)(a)	Result in a fatality or personal injury requiring hospitalization;	X			
4.	480-93-200(1)(b)	Results in damage to property of the operator and others of a combined total exceeding fifty thousand dollars;	X			
5.	480-93-200(1)(c)	Results in the evacuation of a building, or high occupancy structures or areas; (eff 6/02/05)	X			
6.	480-93-200(1)(d)	Results in the unintentional ignition of gas;	X			
7.	480-93-200(1)(e)	Results in the unscheduled interruption of service furnished by any operator to twenty five or more distribution customers;	X			
8.	480-93-200(1)(f)	Results in a pipeline or system pressure exceeding the MAOP plus ten percent or the maximum pressure allowed by proximity considerations outlined in WAC 480-93-020; (eff 6/02/05)	X			
9.	480-93-200(1)(g)	Is significant, in the judgment of the operator, even though it does not meet the criteria of (a) through (e) of this subsection; or	X			
10.	480-93-200(1)(h)	Results in the news media reporting the occurrence, even though it does not meet the criteria of (a) through (e) of this subsection.	X			

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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.

REPORTING RECORDS			S	U	N/A	N/C
11.	480-93-200(2)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for;	X			
12.	480-93-200(2)(a)	The uncontrolled release of gas for more than two hours; (eff 6/02/05)	X			
13.	480-93-200(2)(b)	The taking of a high pressure supply or transmission pipeline or a major distribution supply pipeline out of service; (eff 6/02/05)	X			
14.	480-93-200(2)(c)	A pipeline or system operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or (eff 6/02/05)	X			
15.	480-93-200(2)(d)	A pipeline or system pressure exceeding the MAOP (eff 6/02/05) 2425.1100 Sec 4.2.6	X			
16.	191.15	Annual (federal) reports; supplemental incident reports (DOT Form F 7100.2) 2425.1100 Sec 4.2.8	X			
17.	480-93-200(5)	Written incident reports (within 30 days); supplemental incident reports (eff 09/23/07)	X			
18.	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 (eff 09/23/07)	X			
19.	191.17(a)	Annual Report (DOT Form PHMSA F-7100.2-1)	X			
20.	480-93-200(7)(a)	To the Commission a copy of PHMSA F-7100.1-1 and F-7100.2-1 annual report required by U.S. Department of Transportation, Office of Pipeline Safety (eff 6/02/05) (eff 9/23/07)	X			
21.	480-93-200(7)(b)	Annual Damage Prevention Statistics Report (eff 6/02/05) (eff 09/23/07)	X			
22.	480-93-200(7)(c)	Annual report on construction defects or material failures (eff 09/23/07)	X			
23.	480-93-200(8)	Providing updated emergency contact information to the Commission and appropriate officials (eff 09/23/07)	X			
24.	480-93-200(9)	Providing daily construction and repair activities reports (eff 6/02/05) (eff 09/23/07)	X			
25.	480-93-200(10)	Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form when required (eff 6/02/05) (eff 09/23/07)	X			
26.	191.25	Filing the SRCR within 5 days of determination, but not later than 10 days after discovery	X			
27.	192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports No offshore pipelines or commercially navigable waterway crossings in this unit.			X	

Documentation Reviewed:				
Document Title	Document Number	Revision Date	Date Range Reviewed	Pct of Data Reviewed
Gas Manual	2425.1100 Sec 4.2.6			
#26 SRCR	2425.1200			

Comments:

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CUSTOMER and EXCESS FLOW VALVE INSTALLATION NOTIFICATION			S	U	N/A	N/C
28.	192.16	New customers notified, within 90 days, of their responsibility for those service lines not maintained by the operator Not Checked – Done during last manual review.				X
29.	192.381	Does the excess flow valve meet the performance standards prescribed under §192.381? Not Checked – Done during last manual review.				X
30.	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? Not Checked – Done during last manual review.				X
31.	192.383	If no voluntary program for EFV installations, are customers notified in accordance with §192.383? Are records adequate? Not Checked – Done during last manual review.				X

Documentation Reviewed:				
Document Title	Document Number	Revision Date	Date Range Reviewed	Pct of Data Reviewed
Comments:				

CONSTRUCTION RECORDS			S	U	N/A	N/C
32.	192.225	Test Results to Qualify Welding Procedures	X			
33.	192.227	Welder Qualification	X			
34.	480-93-013	OQ records for personnel performing New Construction covered tasks (eff 6/02/05)	X			
35.	480-93-080(1)(a)(iv)	Appendix C Welders re-qualified 2/Yr (7.5Months) (eff 6/02/05)	X			
36.	480-93-080(2)	Plastic pipe joiners re-qualified 1/Yr (15 Months) (eff 6/02/05)	X			
37.	480-93-080(2)(b)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period (eff 6/02/05)	X			
38.	480-93-080(2)(c)	Tracking Production Joints or Re-qualify joiners 1/Yr (12Months) (eff 6/02/05)	X			
39.	480-93-115(2)	Test leads on casings (without vents) installed after 9/05/1992 PSE has a program that will identify casing.	X			
40.	480-93-115(3)	Sealing ends of casings or conduits on transmission lines and mains (eff 6/02/05)	X			
41.	480-93-115(4)	Sealing ends (nearest building wall) of casings or conduits on services (eff 6/02/05)	X			
42.	192.241(a)	Visual Weld Inspector Training/Experience No welds inspected during this audit.				X
43.	192.243(b)(2)	Nondestructive Technician Qualification No large jobs evaluated.				X
44.	192.243(c)	NDT procedures No large jobs evaluated				X
45.	192.243(f)	Total Number of Girth Welds No large jobs evaluated				X
46.	192.243(f)	Number of Welds Inspected by NDT No large jobs evaluated				X
47.	192.243(f)	Number of Welds Rejected No large jobs evaluated				X
48.	192.243(f)	Disposition of each Weld Rejected No large jobs evaluated				X
49.	192.303	Construction Specifications No large jobs evaluated				X
50.	192.325	Underground Clearance	X			
51.	192.327	Amount, location, cover of each size of pipe installed	X			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
52.	480-93-160(1)	Report filed 45 days prior to construction or replacement of transmission pipelines ≥ 100 feet in length (eff 09/23/07) No transmission.			X	
53.	480-93-170(1)	Commission notified 2 day's prior to pressure testing pipelines with an MAOP producing a hoop stress $\geq 20\%$ SMYS? (eff 09/23/07) No transmission.			X	
54.	480-93-170(7)	Pressure tests records at a minimum include required information listed under 480-93-170(a-h) (eff 09/23/07) No large jobs reviewed, will review during Pierce.				X
55.	480-93-170(9)	Individual pressure test records maintained for single installations where multiple pressure tests were performed? No large jobs reviewed, will review during Pierce.				X
56.	480-93-170(10)	Pressure Testing Equipment checked for accuracy/intervals (Manufacturers Rec or Operators schedule) eff 6/2/05	X			
57.	480-93-175(1)	Study prepared and approved prior to moving and lowering of metallic pipelines > 60 psig (eff 6/2/05) Found no steel lowering.				X
58.	480-93-175(4)	Leak survey within 30 days of moving or lowering pipelines ≤ 60 psig (eff 6/2/05) Found no steel lowering.				X

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

Comments:

#32 – Manual Sections that control what records are kept for welding procedures, not found. 4900.1200 (2008) manual WILL add statement for records retention.

#56 – Pressure Testing Equipment checked for accuracy intervals

OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
59.	192.517(a)	Pressure Testing (operates at or above 100 psig) – useful life of pipeline No jobs checked over 100 lbs. Will review during Pierce inspection.				X
60.	192.517(b)	Pressure Testing (operates below 100 psig, service lines, plastic lines) – 5 years	X			
61.	192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months)	X			
62.	192.605(b)(3)	Availability of construction records, maps, operating history to operating personnel	X			
63.	480-93-018(5)	Records, including maps and drawings updated within 6 months of completion of construction activity? (eff 09/23/07) Not checked – will review during Pierce inspection.				X
64.	192.605(b)(8)	Periodic review of personnel work – effectiveness of normal O&M procedures	X			
65.	192.609	Class Location Study (If pipeline operating at $>40\%$ of SMYS) Nothing over 40%			X	
66.	192.614	Damage Prevention (Miscellaneous) Reviewed Public Awareness Program – Will review locate tickets and Damage Prevention program during Pierce.	X			

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C								
67.	192.615(b)(1)	Location Specific Emergency Plan Not checked – will review during Pierce inspection.				X								
68.	192.615(b)(2)	Emergency Procedure training, verify effectiveness of training Not checked – will review during Pierce inspection.				X								
69.	192.615(b)(3)	Employee Emergency activity review, determine if procedures were followed. Not checked – will review during Pierce inspection.				X								
70.	192.615(c)	Liaison Program with Public Officials	X											
71.	192.616	Important: Complete Form W - 1162 Public Awareness Pgrm Field Audit (Rev 6-1-07). to field validate operator's execution of their written Public Awareness plan. Not checked – will review during Pierce inspection.				X								
72.	192.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617	X											
73.	192.619	Maximum Allowable Operating Pressure (MAOP)	X											
74.	192.625	Odorization of Gas	X											
75.	480-93-015(2)	Monthly Odorant Testing (eff 6/02/05) Records indicate that odorant sniff tests were not conducted for fourteen (14) test sites in October of 2005. One time issue. All good since then. Locations are listed in comment section.	X											
76.	480-93-015(4)	Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) eff 09/23/07	X											
77.	480-93-124(3)	Pipeline markers attached to bridges or other spans inspected? 1/yr(15 months) eff 6/02/05 Not checked – will review during Pierce.				X								
78.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days? eff 6/02/05 Not checked – will review during Pierce.				X								
79.	480-93-140(2)	Service regulators and associated safety devices tested during initial turn-on eff 6/02/05	X											
80.	480-93-155(1)	Up-rating of system MAOP to >60 psig? Procedures and specifications submitted 45 days prior? (eff 6/02/05) No uprates performed in this unit.			X									
81.	480-93-185(1)	Reported gas leaks investigated promptly graded. Records retained? Not checked – will review during Pierce inspection.				X								
82.	480-93-185(3)	Leaks originating from a foreign source reported promptly/notification by mail. Records retained? Not checked – will review during Pierce inspection.				X								
83.	480-93-186(3)	Leak evaluations: Are follow-up inspections performed within 30 days of a leak repair? eff 6/02/05 Not checked – will review during Pierce inspection.				X								
84.	480-93-186(4)	Leak evaluations: Grade 1 and 2 leaks (if any), downgraded once to a grade 3 without physical repair? eff 6/02/05 Not checked – will review during Pierce inspection.				X								
85.	480-93-187	Gas leak records: at a minimum include required information listed under 480-93-187(1-13) (eff 6/02/05) Not checked – will review during Pierce inspection.				X								
86.	480-93-188(1)	Gas leak surveys	X											
87.	480-93-188(2)	Gas detection instruments tested for accuracy/intervals (Mfct rec or monthly not to exceed 45 days) eff 6/2/05	X											
88.	480-93-188(3)	Leak survey frequency (Refer to Table Below)	X											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Business Districts (implement by 6/02/07)</td> <td style="width:50%;">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)
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)													
89.	480-93-188(4)(a)	Special leak surveys - Prior to paving or resurfacing, following street alterations or repairs Not checked – will review during Pierce inspection.				X								
90.	480-93-188(4)(b)	Special leak surveys - areas where substructure construction occurs adjacent to underground gas facilities, and damage could have occurred Not checked – will review during Pierce inspection.				X								

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91.	480-93-188(4)(c)	Special leak surveys - Unstable soil areas where active gas lines could be affected Not checked – will review during Pierce inspection.				X												
92.	480-93-188(4)(d)	Special leak surveys - areas and at times of unusual activity, such as earthquake, floods, and explosions Not checked – will review during Pierce inspection.				X												
93.	480-93-188(4)(e)	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 Not checked – will review during Pierce inspection.				X												
94.	480-93-188(5)	Gas Survey Records	X															
95.	480-93-188(6)	Leak program - Self Audits Not checked – will review during Pierce inspection.				X												
96.	192.709	Patrolling (Transmission Lines) (Refer to Table Below) .705 No transmission in this district.			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)
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)																
97.	192.709	Leak Surveys (Transmission Lines) (Refer to Table Below) .706 No transmission in this district.			X													
<table border="1"> <thead> <tr> <th>Class Location</th> <th>Required</th> <th>Not Exceed</th> </tr> </thead> <tbody> <tr> <td>1 and 2</td> <td>1/yr</td> <td>15 months</td> </tr> <tr> <td>3</td> <td>2/yr</td> <td>7½ months</td> </tr> <tr> <td>4</td> <td>4/yr</td> <td>4½ months</td> </tr> </tbody> </table>							Class Location	Required	Not Exceed	1 and 2	1/yr	15 months	3	2/yr	7½ months	4	4/yr	4½ months
Class Location	Required	Not Exceed																
1 and 2	1/yr	15 months																
3	2/yr	7½ months																
4	4/yr	4½ months																
98.	192.603(b)	Patrolling Business District (4 per yr/4½ months) 192.721(b)(1) Not checked – will review during Pierce inspection.				X												
99.	192.603(b)	Patrolling Outside Business District (2 per yr/7½ months) 192.721(b)(2) Not checked – will review during Pierce inspection.				X												
100.	192.603(b)	Leakage Survey - Outside Business District (5 years) 192.723(b)(1) Not checked – will review during Pierce inspection.				X												
101.	192.603(b)	Tests for Reinstating Service Lines 192.725 Not checked – will review during Pierce inspection.				X												
102.	192.603(b)/.727(g)	Abandoned Pipelines; Underwater Facility Reports 192.727 Not checked – will review during Pierce inspection.				X												
103.	192.709	Pressure Limiting and Regulating Stations (1 per yr/15 months) .739	X															
104.	192.709	Pressure Limiting and Regulator Stations – Capacity (1 per yr/15 months) .743 Capacity checked yearly per summary sheet of yearly reviews.	X															
105.	192.709	Valve Maintenance – Transmission (1 per yr/15 months) .745 No transmission.			X													
106.	192.709	Valve Maintenance – Distribution (1 per yr/15 months) .747 Not checked – will review during Pierce inspection.				X												
107.	480-93-100(3)	Service valve maintenance (1 per yr/15 months) (eff. 06/02/05) Not checked – will review during Pierce inspection.				X												
108.	480-93-100(4)	Service valve installation and maintenance program fully implemented by 6/01/07? (eff. 06/02/05)	X															
109.	192.709	Vault maintenance (≥200 cubic feet)(1 per yr/15 months) .749 Not checked – will review during Pierce inspection.				X												
110.	192.603(b)	Prevention of Accidental Ignition (hot work permits) .751 Not checked – will review during Pierce inspection.				X												
111.	192.603(b)	Welding – Procedure 192.225(b)	X															
112.	192.603(b)	Welding – Welder Qualification 192.227/.229	X															
113.	192.603(b)	NDT – NDT Personnel Qualification .243(b)(2) No NDT jobs observed.	X															
114.	192.709	NDT Records (pipeline life) .243(f) No transmission in this unit.			X													

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115.	192.709	Repair: pipe (pipeline life); Other than pipe (5 years) No transmission in this unit.			X	

Documentation Reviewed:			
Document Title	Document Number	Revision Date	Date Range Reviewed
Leak Survey by Heath	See information below		

Comments:
#75 List of locations not tested for October 2005

	Key Location	Name	Address
a.	44	Bethel Tap	Bethel High School
b.	58	Toledo Tap	S 3 St & Alder
c.	60	Jackson Praire Farm Tap	207 Zandecki Road
d.	62	Chehalis Tap	9 th St & Adams
e.	63	Centralia Tap	212 "M" St
f.	67	Lacy (Olympia Tap)	Pacific Ave & Fones Rd (Crown Beveage)
g.	68	Yelm Tap	1109 Yelm Av.
h.	70	OLYMPIA	Capital Steam Plant
i.	71	West Olympia	Evergreen College MSA
j.	73	Olympia Town Border	41 Way SE & Boulevard Rd
k.	74	Lacy (Wiggins & Landview)	5141 Wiggins Rd SE
l.	75	LACEY (E Olympia Gate)	6645 86 Av SE
m.	109	TUMWATER	555 Trospen Rd SW
n.	129	WINLOCK TAP	1404 Kerron St

Leak Survey by Heath Record Review 4/1/08 by Al Jones.

Address	County/Town	Date	Reading	Leak Grade
516 N Washington St.	Olympia	8-14-07	5% LEL	Grade C
910 N Washington St.	Olympia	8-23-07	40% LEL	Grade C
N. Wa St & State st. Bare Steel				
200 SE 4 th Ave		8-14-07	4% LEL @ Valve, 10' spread	
222 SE State St		8-14-07	14% LEL @ Main & valve	
419 Grand Blvd SE – Bare Steel	Olympia	8-16-07	Approx 400 Linear Feet 2" diameter steel wrapped	Should have been surveyed by Jan '08. Was surveyed 4/2/08, Kuang observed.
516 E Maple	Centralia	4-16-07	N0025924	
		10-31-07		
		03- -08		
240 Washington Ave	Chehalis	4-16-07	N0027342	Grade C
1587 N National Way @ N. Chehalis Border Station.	Chehalis	8-10-07	N0027047	Small leak on high pressure manifold.
		8-30-07		
		10-01-07		
		10-24-07		
		11-20-07		
		12-20-07		
		01-04-08		
		01-30-04		

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Distribution Systems**

Records Review and Field Inspection

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436 NW State Ave,	Chehalis	02-27-08	02-08-08 Repaired w leak clamp on 4" diameter steel wrapped pipe installed in 1956.	20% LEL at weld on manifold.
		8-10-07		
		09-07-07		
		09-24-07		
		10-19-07		
		11-12-07		
		12-11-07		
01-10-08				

CORROSION CONTROL RECORDS			S	U	N/A	N/C
116.	192.455(a)(1)	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71)	X			
117.	PV - 192.455(a)(2)	CP system installed on and operating within 1 yr of completion of pipeline construction (after 7/31/71) The following facilities did not have adequate cathodic protection: a. Service line to 215 Washington, Olympia. -0.414v Note: This would have been caught and remediated by PSE's isolated facilities program. This service was replaced in April 2008. b. Service line to 210 4 th Ave W. -0.717v c. Low pressure main and 3 services downstream of regulator in front of 210 4 th Ave W. No addresses were obtained because meters were inside. -0.427v, -0.502v and -0.809v. (Staff reads, PSE reads were similar)		X		
118.	192.465(a)	Isolated, Mains	X			
119.	192.465(a)	Isolated, Services	X			
120.	192.491	Maps or Records .491(a)	X			
121.	192.491	Examination of Buried Pipe when exposed .459 Not checked will do during Pierce.				X
122.	480-93-110(8)	CP test reading on all exposed facilities where coating has been removed (eff 6/02/05) Not checked will do during Pierce.				X
123.	192.491	Annual Pipe-to-soil monitoring (1 per yr/15 months) .465(a)	X			
124.	192.491	Rectifier Monitoring (6 per yr/2½ months) .465(b)	X			
125.	192.491	Interference Bond Monitoring – Critical (6 per yr/2½ months) .465(c)	X			
126.	192.491	Interference Bond Monitoring – Non-critical (1 per yr/15 months) .465(c)	X			
127.	480-93-110(2)	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) .465(d) Not checked will do during Pierce.				X
128.	192.491	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) .465(e)	X			
129.	192.491	Electrical Isolation (Including Casings) .467	X			
130.	480-93-110(5)	Casings inspected/tested annually not to exceed fifteen months (eff 6/02/05)	X			
131.	480-93-110(5)(a)	Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods (eff 6/02/05)	X			
132.	480-93-110(5)(b)	Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days (eff 6/02/05) Not checked – will do in Pierce County.				X

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Distribution Systems**

Records Review and Field Inspection

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
133.	480-93-110(5)(c)	Casing shorts cleared when practical (eff 6/02/05) Not checked – will do in Pierce County.				X
134.	480-93-110(5)(d)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months (eff 6/02/05) Not checked – will do in Pierce County.				X
135.	192.491	Interference Currents .473	X			
136.	192.491	Internal Corrosion; Corrosive Gas Investigation .475(a)	X			
137.	192.491	Internal Corrosion; Internal Surface Inspection; Pipe Replacement .475(b)	X			
138.	192.491	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months) .477 They do not use coupons.			X	
139.	192.491	Atmospheric Corrosion Control Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore) .481 SEE #156 Atmospheric Corrosion Monitoring		X		
140.	192.491	Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions .483/.485	X			
141.	480-93-110(3)	CP Test Equipment and Instruments checked for accuracy/intervals (Mfct Rec or Opr Sched) (eff 6/02/05)	X			

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

Comments:
#138 – Corrosion Coupons not used.

PIPELINE INSPECTION (Field)			S	U	N/A	N/C
142.	PV - 192.161	Supports and anchors PSE has a two meter manifold located at 516 N. Washington, Olympia that is supported by wood blocks. Part 192.161 does not allow the use of combustible materials as support for pipeline facilities.		X		
143.	192.179	Valve Protection from Tampering or Damage	X			
144.	480-93-080(1)(d)	Welding procedures located on site where welding is performed? No welding observed.			X	
145.	480-93-080(1)(b)	Use of testing equipment to record and document essential variables (eff 6/02/05) No welding observed.			X	
146.	480-93-080(2)(a)	Plastic procedures located on site where welding is performed? (eff 6/02/05) No welding observed.			X	
147.	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. (eff 6/02/05)	X			

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

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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
148.	480-93-013	Personnel performing "New Construction" covered tasks OQ qualified? (eff 6/02/05)	X			
149.	480-93-015(1)	Odorization Not checked will do during Pierce.				X
150.	480-93-018(5)	Updated records, inc maps and drawings made available to appropriate operations personnel? (eff 09/23/07)	X			
151.	192.455	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71)	X			
152.	192.463	Levels of Cathodic Protection – Violation written see violation report.		X		
153.	192.465	Rectifiers	X			
154.	192.467	CP - Electrical Isolation	X			
155.	192.479	Pipeline Components Exposed to the Atmosphere Violation Written, see violation report.		X		
156.	PV - 192.481	Atmospheric Corrosion: monitoring a. PSE was unable to provide records indicating that atmospheric corrosion surveys have been conducted on the service piping off a low pressure distribution system located at 210 4 th Ave W, Olympia. Two of the service risers show heavy atmospheric corrosion and pitting. b. PSE was unable to provide records indicating that atmospheric corrosion surveys have been conducted on the regulator station piping inside the vault serving the low pressure system at 210 4 th Ave W. The regulator station piping shows signs of heavy atmospheric corrosion. c. PSE was unable to provide records indicating that atmospheric corrosion surveys have been conducted on a regulator station located in a vault at 402 4 th Ave E., Olympia. d. PSE did not inspect for atmospheric corrosion on the pipe surface contacting the support for four pipe supports at the Olympia Gate station. PSE has three concrete supports and one metal support on the outlet of the RS-1358 Gate Station at 4027 Boulevard Rd in Olympia.		X		
157.	192.491	Test Stations – Sufficient Number .469	X			
158.	480-93-115(2)	Casings – Test Leads (casings w/o vents installed after 9/05/1992) eff. 6/02/05	X			
159.	480-93-115(2)	Mains or transmission lines installed in casings/conduit. Are casing ends sealed? eff 6/02/05 4575.1050 No Mains or transmission lines observed in casings.			X	
160.	480-93-115(4)	Service lines installed in casings/conduit. Are casing ends nearest to building walls sealed? eff. 6/02/05 4575.1050	X			
161.	192.605(a)	Appropriate parts of manuals kept at locations where O&M activities are conducted	X			
162.	192.605	Knowledge of Operating Personnel	X			
163.	480-93-124	Pipeline markers installed eff 6/02/05	X			
164.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days? eff 6/02/05 Did not observe any missing markers.			X	
165.	192.707	Warning Signs	X			
166.	192.719	Pre-pressure Tested Pipe (Markings and Inventory) Not checked will do during Pierce.				X
167.	192.195	Overpressure protection designed and installed where required?	X			
168.	PV - 192.739	Pressure Limiting and Regulating Devices (Mechanical) a. PSE's has a regulating station serving a low pressure distribution system located at 210 4 th Ave W, in Olympia. Records indicate that this regulating station has not been maintained annually, not to exceed 15 months as required. b. PSE's has a regulating station serving a low pressure distribution system located at 402 4 th Ave E, in Olympia. This regulating station serves addresses 402, 404, 406, 408, 410, and 412 4 th Ave E. Records indicate that this regulating station has not been		X.		

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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
		maintained annually, not to exceed 15 months as required. c. During the PSE inspection of Regulator Station RS-0245, the outlet relief (54 psig setpoint) required the use of full inlet pressure (approximately 100 psig) to clear rocks and mud from the 2 nd stage relief stack. PSE indicated that the relief stack had been damaged earlier by a vehicle. PSE failed to insure that the relief stack was properly installed and protected from dirt and liquids. PSE procedure 4700.1620 requires that the mechanic operability of the relief valve be verified. PSE failed to do this resulting in mud and debris remaining in the relief piping prior vehicle damage.				
169.	192.743	Pressure Limiting and Regulating Devices (Capacities) – Capacities are reviewed every year per summary sheet received 06/09/08.	X			
170.	PV-192.355	Customer meters and regulators. Protection from damage PSE has an underground regulator located in a vault at 109 Washington St., Olympia. The regulator has been vented to the atmosphere up the side of the building. The screen in the regulator vent is completely plugged with heavy paint preventing natural gas from venting freely and affecting the operation of the regulator in the event of an over pressure situation		X		
171.	192.355(c)	Pits and vaults: Able to support vehicular traffic where anticipated. No vaults observed in traffic areas.			X	
172.	PV - 480-93-140	Service regulators installed, operated and maintained per state/fed regs and manufacturers recommended practices? Eff 6/02/05 a. PSE has a service line located at 215 Washington, Olympia. Meter numbers 721113 and 466608. The service riser comes out of the pavement, up the wall approximately 8-inches and in through the building wall where it serves a 2 meter manifold. The regulator is vented to the outside. There is no external shut-off valve on the service line as required. b. PSE has a service line located at 402 4 th Ave E., Olympia. There is no external shut-off valve on the service as required. c. PSE has a service line located at 404 4 th Ave E., Olympia. There is no external shut-off valve on the service as required. d. PSE has a service line located at 406 4 th Ave E., Olympia. There is no external shut-off valve on the service as required. e. PSE has a service line located at 408 4 th Ave E., Olympia. There is no external shut-off valve on the service as required. f. PSE has a service line located at 410 4 th Ave E., Olympia. There is no external shut-off valve on the service as required. g. PSE has a service line located at 412 4 th Ave E., Olympia. There is no external shut-off valve on the service as required. <i>Please see Interpretation 192.365 2, dated May 17, 1989</i>		X		
173.	192.745	Valve Maintenance (Transmission) No transmission in unit.			X	
174.	192.747	Valve Maintenance (Distribution)	X			

Facility Sites Visited:		
Facility Type	Facility ID Number	Location

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Distribution Systems
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Comments:

149 NO Odorization sites were checked in October 2005 as required by WAC and PSE manual.

	Location	Address	Meter #	Task	Records
01	RS-1358	Boulevard Rd		Pipe inspection under metal straps.	
02		Candlewood Manor 4500 Martin Way E. Olympia WA		Show areas of concern to PSE	Atmospheric Corrosion Leak Surveys Bare Steel
			993931		
			1015612		
			224569		
		Lot #9			
		Lot # 12			
		Lot # 13			
		Lot # 39			
		Lot # 102			
03	St. Martins College	Meter set across from Field House		Area of concern, bare steel.	The riser turned out to be a field assembled service riser with the PE inside the metal pipe.

Washington 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. Y/N Y

OPS, PHMSA ADB-05-06 dated 8/05/05 **Counter Measures to Prevent Human Fatigue in the Control Room**
The purpose of this advisory is to help operators ensure that controllers are not assigned to shift duties while fatigued, to advise pipeline operators on considerations which could cause a reduction of mental alertness or decision making ability, and to encourage safe management practices. Y/N Not Applicable

OPS, PHMSA ADB-05-03 dated 5/17/05 **Pipeline Safety: Planning for Coordination of Emergency Response to Pipeline Emergencies**

Concerns alerting pipeline operators about the need to preplan for emergency response with utilities whose proximity to the pipeline may impact the response. Coordination with electric and other utilities may be critical in responding to a pipeline emergency. Preplanning would facilitate actions that may be needed for safety, such as removing sources of ignition or reducing the amount of combustible material. Y/N Y

WUTC PSS AB 04-01 dated 10/24/04 **Maintenance of Impressed Current Cathodic Protection Systems**

Is the operator aware of the advisory bulletin, and has the operator reviewed their Plans and Procedures to determine whether adequate processes are in place to ensure that impressed current cathodic protection systems are configured and labeled correctly? Y/N Y

OPS, PHMSA ADB-99-02 dated 3/03/99 **Potential Failures Due to Brittle-Like Cracking of Older Plastic Pipe in Natural Gas Distribution Systems**

Washington Utilities and Transportation Commission
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Certain plastic pipe used in natural gas distribution service may be susceptible to brittle-like cracking. The standards used to rate the long-term strength of plastic pipe may have overrated the strength and resistance to brittle-like cracking of much of the plastic pipe manufactured and used for gas service from the 1960s through the early 1980s. Has the operator identified and/or taking steps to identify all pre-1982 plastic pipe installations, analyze leak histories, and evaluate any conditions that may impose high stresses on the pipe? Is appropriate remedial action, including replacement, being taken to mitigate any risks to public safety? **Operator has no process in place to address this material.**

<p>Comments:</p>

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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175.	.605(b)	COMPRESSOR STATION PROCEDURES	S	U	N/A	N/C
176.		.605(b)(6) Maintenance procedures, including provisions for isolating units or sections of pipe and for purging before returning to service			X	
177.		.605(b)(7) Starting, operating, and shutdown procedures for gas compressor units			X	
178.		.731 Inspection and testing procedures for remote control shutdowns and pressure relieving devices (1 per yr/15 months), prompt repair or replacement			X	
179.		.735 (a) Storage of excess flammable or combustible materials at a safe distance from the compressor buildings			X	
180.		(b) Tank must be protected according to NFPA #30			X	
181.		.736 Compressor buildings in a compressor station must have fixed gas detection and alarm systems (must be performance tested), unless:			X	
182.		• 50% of the upright side areas are permanently open, or			X	
183.		• It is an unattended field compressor station of 1000 hp or less			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:
 175 -183 PSE has no compressor stations in this district.

COMPRESSOR STATION O&M RECORDS			S	U	N/A	N/C
184.	.709	.731(a) Compressor Station Relief Devices (1 per yr/15 months)			X	
185.		.731(c) Compressor Station Emergency Shutdown (1 per yr/15 months)			X	
186.		.736(c) Compressor Stations – Detection and Alarms (Performance Test)			X	

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

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Comments:
184 -186 Not Applicable (N/A) - PSE has no compressor stations in this district.

COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
(Note: Facilities may be "Grandfathered")						
187.	.163	(c)	Main operating floor must have (at least) two (2) separate and unobstructed exits			X
188.			Door latch must open from inside without a key			X
189.			Doors must swing outward			X
190.		(d)	Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit			X
191.			Each gate located within 200 ft of any compressor plant building must open outward			X
192.			When occupied, the door must be opened from the inside without a key			X
193.		(e)	Does the equipment and wiring within compressor stations conform to the National Electric Code, ANSI/NFPA 70?			X
194.	.165	(a)	If applicable, are there liquid separator(s) on the intake to the compressors?			X
195.		(b)	Do the liquid separators have a manual means of removing liquids?			X
196.			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
197.	.167	(a)	ESD system must:			
198.			- Discharge blowdown gas to a safe location			X
199.			- Block and blow down the gas in the station			X
200.			- Shut down gas compressing equipment, gas fires, electrical facilities in compressor building and near gas headers			X
201.			- Maintain necessary electrical circuits for emergency lighting and circuits needed to protect equipment from damage			X
202.			ESD system must be operable from at least two locations, each of which is:			
203.			- Outside the gas area of the station			X
204.			- Not more than 500 feet from the limits of the station			X
205.			- ESD switches near emergency exits?			X
206.		(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?			X
207.		(c)	Are ESDs on platforms designed to actuate automatically by...			
208.			- For unattended compressor stations, when:			
209.			▪ The gas pressure equals MAOP plus 15%?			X
210.			▪ An uncontrolled fire occurs on the platform?			X
211.			- For compressor station in a building, when			
212.			▪ An uncontrolled fire occurs in the building?			X
213.			▪ 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
214.	.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
215.		(b)	Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?			X

Attachment 1

Distribution Operator Compressor Station Inspection

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COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
(Note: Facilities may be “Grandfathered”)						
216.	(c)	Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?			X	
217.	(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	
218.	(e)	Are the mufflers equipped with vents to vent any trapped gas?			X	
219.	.173	Is each compressor station building adequately ventilated?			X	
220.	.457	Is all buried piping cathodically protected?			X	
221.	.481	Atmospheric corrosion of aboveground facilities			X	
222.	.603	Does the operator have procedures for the start-up and shut-down of the station and/or compressor units?			X	
223.		Are facility maps current/up-to-date?			X	
224.	.615	Emergency Plan for the station on site?			X	
225.	.619	Review pressure recording charts and/or SCADA			X	
226.	.707	Markers			X	
227.	.731	Overpressure protection – relief’s or shutdowns			X	
228.	.735	Are combustible materials in quantities exceeding normal daily usage, stored a safe distance from the compressor building?			X	
229.		Are aboveground oil or gasoline storage tanks protected in accordance with NFPA standard No. 30?			X	
230.	.736	Gas detection – location			X	

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

Comments:
 187 -230 Not Applicable (N/A) - PSE has no compressor stations in this district.