

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-070179
Inspector/Submit Date	Al Jones 10/12/2007
Sr. Eng Review/Date	D. Lykken 11/8/2007
Operator Information	
Name of Operator:	Puget Sound Energy OP ID #: 2189
Name of Unit(s):	King County
Records Location:	Bellevue, WA
Date(s) of Last (unit) Inspection:	November, 2005 Inspection Date(s): 9/17- 10/ 22/2007

Inspection Summary:
<p>The PSE King County District includes all distribution, transmission pipelines, Gate Stations at Williams Pipeline within King County. The inspection included a review of the records at the Georgetown office, Operator Qualification at the Plumbers & Pipefitters Local 32 office, and field inspection of district regulator stations, distribution piping including service risers, numerous CP stations and rectifiers. The inspection identified 4 probable violation and 5 areas of concerns.</p>

HQ Address: Puget Sound Energy PO Box 90868 MS: EST07W Bellevue, Washington 98009-0868	System/Unit Name & Address: King County District	
Co. Official: Stephanie Kreshel, Acting Manager of Standards & Compliance	Phone No.: Same as HQ	
Phone No.: 425-462-3734	Fax No.:	
Fax No.: 425-462-3770	Emergency Phone No.:	
Emergency Phone No.: 1-888-225-5773		
Persons Interviewed	Title	Phone No.
Don Hunt	Compliance Coordinator, Standard Dept.	425-462-3715
Debby Larson	Supervisor Corrosion Control	
Ed Voogt	Corrosion Technologist	
Carl Blythe	Pressure Control Technician	
Roger Scheetz	Pressure Control Supervisor	
Sam Gallaway	Pressure Control - North	
Craig Ford	Pressure Control - North	
Al Schlecht	Corrosion Technician	
Gary Swanson	Maintenance Plan Coordinator	
Greg Schwartz	Corrosion & Fitter	
Keith Ren	Quality Assurance	

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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:	March 2003

GAS SYSTEM OPERATIONS			
Gas Supplier		Puget Sound Energy	
Services: Residential 377,707 Commercial 31,926 Industrial 2,427 Other 0			
Number of reportable safety related conditions last year 92		Number of deferred leaks in system 2,660	
Number of <u>non-reportable</u> safety related conditions last year 2,193		Number of third party hits last year 1,800	
Miles of transmission pipeline within unit (total miles and miles in class 3 & 4 areas) 8.75		Miles of main within inspection unit (total miles and miles in class 3 & 4 areas) 5,900 (IP & High Pressure)	
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:	Williams Pipeline to PSE Gate Located at:	Varies:	Varies
Town:	From South Seattle Gate to Georgetown - 16"	125	118
Town:	From S Seattle Gate to SeaTac, DesMoines, Vashon 16"	125	118
Town:	From South Seattle Gate to Georgetown - 20"		
Town:	From Redmond Gate to Redmond - 8"	300	284
Town:	From Redmond Gate to Redmond - 16"	300	284
Town:	From Issaquah Gate to Newcastle - 16"	250	238
Town:	From Black Diamond Gate to Kent - 16"		
Other:			
Does the operator have any transmission pipelines?		Yes, from South Seattle Gate Station 20" to Renton & 16" to Seatac.	
Compressor stations? Use Attachment 1.		No	

Pipe Specifications:			
Year Installed (Range)	1930 to Present	Pipe Diameters (Range)	1/2 to 20 inches
Material Type	PE, Steel Wrap, Bare Steel	Line Pipe Specification Used	API 5L, PE ASTM-D2513
Mileage - Transmission	8.75 miles	SMYS %	= 23.8%
Mileage - Distribution	5,900 miles	SMYS %	< 20%

Operator Qualification Field Validation
Important: Per OPS, the OQ Field Inspection Protocol Form (Rev 2, Feb 06) 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 OQDB Updated 11/8/2007

REPORTING RECORDS		S	U	N/A	N/C
191.5	Telephonic reports to NRC (800-424-8802)			N/A	
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)	S			
480-93-200(1)(a)	Result in a fatality or personal injury requiring hospitalization;			N/A	

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REPORTING RECORDS		S	U	N/A	N/C
480-93-200(1)(b)	Results in damage to property of the operator and others of a combined total exceeding fifty thousand dollars;	S			
480-93-200(1)(c)	Results in the evacuation of a building, or high occupancy structures or areas; (eff 6/02/05)	S			
480-93-200(1)(d)	Results in the unintentional ignition of gas;	S			
480-93-200(1)(e)	Results in the unscheduled interruption of service furnished by any operator to twenty five or more distribution customers;	S			
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)	S			
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	S			
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.	S			
480-93-200(2)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for;	S			
480-93-200(2)(a)	The uncontrolled release of gas for more than two hours; (eff 6/02/05)	S			
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)			N/A	
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)	S			
480-93-200(2)(d)	A pipeline or system pressure exceeding the MAOP (eff 6/02/05)	S			
191.15	Annual (federal) reports; supplemental incident reports (DOT Form F 7100.2)	S			
480-93-200(4)	Written incident reports (within 30 days); supplemental incident reports	S			
480-93-200(5)	Written report within 45 days of receiving the failure analysis of any incident or hazardous condition due to construction defects or material failure (eff 6/02/05)	S			
191.17(a)	Annual Report (DOT Form PHMSA F-7100.2-1)	S			
480-93-200(6)(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)	S			
480-93-200(6)(b)	Annual Damage Prevention Statistics Report (eff 6/02/05)	S			
480-93-200(6)(c)	Annual report on construction defects or material failures (eff 6/02/05)	S			
480-93-200(7)	Providing updated emergency contact information to the Commission and appropriate officials	S			
480-93-200(8)	Providing daily construction and repair activities reports (eff 6/02/05)	S			
480-93-200(9)	Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form when required (eff 6/02/05)	S			
191.25	Filing the SRCR within 5 days of determination, but not later than 10 days after discovery			N/A	
192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports			N/A	

Documentation Reviewed:				
Document Title	Document Number	Revision Date	Date Range Reviewed	Pct of Data Reviewed
Annual Damage Prevention Statistics Report		Feb 8 2006	2005 - 2007	1
Annual Report on Consturtion Defects or Material Failure		Feb 8, 2006	2005 - 2007	1
Emergency contact information to the Commission		July 26, 2006	2005 - 2007	1
DOT Drug & Alcohol Testing MIS Data Collection Form		March 3, 2007	2005 - 2007	1
WUTC Telephonic Reports		Feb 8, 2006	2005 - 2007	1
Certificate of Calibration Odorator	HPN:101988	Oct, 1988	2006-2007	1

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Comments:

For 2006 to present there were no accidents or abnormal operating conditions requiring a report to the NRC or Commission for loss of pipeline, fatality, low pressures, or abandoned facilities.

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

Documentation Reviewed:

Document Title	Document Number	Revision Date	Date Range Reviewed	Pct of Data Reviewed
CP Annual Survey	SAP database	Varies	Dec. 2005 to Present	Unknown
CP Rectifier (6x/yr)	SAP database	Varies	Dec. 2005 to Present	Unknown
Interference Bond Monitoring (6x/yr)	SAP database	Varies	Dec. 2005 to Present	Unknown
Odorization Test (monthly)	SAP database	Varies	Dec. 2005 to Present	Unknown
CP Casings (annually)	SAP database	Varies	Dec. 2005 to Present	Unknown
Emergency Valves	SAP database	Varies	Dec. 2005 to Present	Unknown

Comments:

PSE has a voluntary installation program for excess flow valves for new services.

CONSTRUCTION RECORDS		S	U	N/A	N/C
192.225	Test Results to Qualify Welding Procedures	S			
192.227	Welder Qualification	S			
480-93-013	OQ records for personnel performing New Construction covered tasks (eff 6/02/05)	S			
480-93-080(1)(a)(iv)	Appendix C Welders re-qualified 2/Yr (7.5Months) (eff 6/02/05)	S			
480-93-080(2)	Plastic pipe joiners re-qualified 1/Yr (15 Months) (eff 6/02/05)	S			
480-93-080(2)(b)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period (eff 6/02/05)	S			
480-93-080(2)(c)	Tracking Production Joints or Re-qualify joiners 1/Yr (12Months) (eff 6/02/05)	S			
480-93-115(2)	Test leads on casings (without vents) installed after 9/05/1992	S			

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CONSTRUCTION RECORDS		S	U	N/A	N/C
480-93-115(3)	Sealing ends of casings or conduits on transmission lines and mains (eff 6/02/05)	S			
480-93-115(4)	Sealing ends (nearest building wall) of casings or conduits on services (eff 6/02/05)	S			
192.241(a)	Visual Weld Inspector Training/Experience	S			
192.243(b)(2)	Nondestructive Technician Qualification	S			
192.243(c)	NDT procedures	S			
192.243(f)	Total Number of Girth Welds	S			
192.243(f)	Number of Welds Inspected by NDT	S			
192.243(f)	Number of Welds Rejected	S			
192.243(f)	Disposition of each Weld Rejected	S			
192.303	Construction Specifications	S			
192.325	Underground Clearance	S			
192.327	Amount, location, cover of each size of pipe installed	S			
480-93-160(1)	Report filed 45 days prior to construction or replacement of transmission pipelines \geq 100 feet in length (eff 6/2/05)	S			
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 6/02/05)	S			
480-93-170(7)	Pressure tests records at a minimum include required information listed under 480-93-170(a-h) (eff 6/02/05)	S			
480-93-170(9)	Individual pressure test records maintained for single installations where multiple pressure tests were performed?	S			
480-93-170(10)	Pressure Testing Equipment checked for accuracy/intervals (Manufacturers Rec or Operators schedule) eff 6/2/05	S			
480-93-175(1)	Study prepared and approved prior to moving and lowering of metallic pipelines $>$ 60 psig (eff 6/2/05)	S			
480-93-175(4)	Leak survey within 30 days of moving or lowering pipelines \leq 60 psig (eff 6/2/05)	S			

Documentation Reviewed:			
Document Title	Document Number	Revision Date	Date Range Reviewed
Redmond Pipeline Phase III	SAP 109026751		Aug to Sept 2007

Comments:

No pipeline were moved or lowered in 2006.

OPERATIONS and MAINTENANCE RECORDS		S	U	N/A	N/C
192.517(a)	Pressure Testing (operates at or above 100 psig) – useful life of pipeline	S			
192.517(b)	Pressure Testing (operates below 100 psig, service lines, plastic lines) – 5 years	S			
192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months)	S			
192.605(b)(3)	Availability of construction records, maps, operating history to operating personnel	S			

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OPERATIONS and MAINTENANCE RECORDS		S	U	N/A	N/C								
480-93-018(3)	Records, including maps and drawings updated within 6 months of completion of construction activity? (eff 6/02/05)	S											
192.605(b)(8)	Periodic review of personnel work – effectiveness of normal O&M procedures	S											
192.609	Class Location Study (If pipeline operating at >40% of SMYS)			N/A									
192.614	Damage Prevention (Miscellaneous)	S											
192.615(b)(1)	Location Specific Emergency Plan	S											
192.615(b)(2)	Emergency Procedure training, verify effectiveness of training	S											
192.615(b)(3)	Employee Emergency activity review, determine if procedures were followed.	S											
192.615(c)	Liaison Program with Public Officials	S											
192.616	Public Awareness	S											
192.619	Maximum Allowable Operating Pressure (MAOP)	S											
192.625	Odorization of Gas	S											
480-93-015(2)	Monthly Odorant Testing (eff 6/02/05)	S											
480-93-015(3)	Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) eff 6/02/05	S											
480-93-124(3)	Pipeline markers attached to bridges or other spans inspected? 1/yr(15 months) eff 6/02/05	S											
480-93-124(4)	Markers reported missing or damaged replaced within 45 days? eff 6/02/05	S											
480-93-140(2)	Service regulators and associated safety devices tested during initial turn-on eff 6/02/05	S											
480-93-155(1)	Up-rating of system MAOP to >60 psig? Procedures and specifications submitted 45 days prior? (eff 6/02/05)	S											
480-93-185(1)	Reported gas leaks investigated promptly graded. Records retained?	S											
480-93-185(3)	Leaks originating from a foreign source reported promptly/notification by mail. Records retained?	S											
480-93-186(3)	Leak evaluations: Are follow-up inspections performed within 30 days of a leak repair? eff 6/02/05	S											
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	S											
480-93-187	Gas leak records: at a minimum include required information listed under 480-93-187(1-13) (eff 6/02/05)	S											
480-93-188(1)	Gas leak surveys	S											
480-93-188(2)	Gas detection instruments tested for accuracy/intervals (Mfct rec or monthly not to exceed 45 days) eff 6/2/05	S											
480-93-188(3)	Leak survey frequency (Refer to Table Below)	S											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Business Districts (implement by 6/02/07)</td> <td style="text-align: center;">1/yr (15 months)</td> </tr> <tr> <td style="text-align: center;">High Occupancy Structures</td> <td style="text-align: center;">1/yr (15 months)</td> </tr> <tr> <td style="text-align: center;">Pipelines Operating ≥ 250 psig</td> <td style="text-align: center;">1/yr (15 months)</td> </tr> <tr> <td style="text-align: center;">Other Mains: CI, WI, copper, unprotected steel</td> <td style="text-align: center;">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)												
480-93-188(4)(a)	Special leak surveys - Prior to paving or resurfacing, following street alterations or repairs	S											
480-93-188(4)(b)	Special leak surveys - areas where substructure construction occurs adjacent to underground gas facilities, and damage could have occurred	S											
480-93-188(4)(c)	Special leak surveys - Unstable soil areas where active gas lines could be affected	S											
480-93-188(4)(d)	Special leak surveys - areas and at times of unusual activity, such as earthquake, floods, and explosions	S											
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	S											
480-93-188(5)	Gas Survey Records	S											
480-93-188(6)	Leak program - Self Audits	S											
192.709	Patrolling (Transmission Lines) (Refer to Table Below) .705	S											

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
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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)

192.709	Leak Surveys (Transmission Lines) (Refer to Table Below) .706	S			
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Class Location	Required	Not Exceed
1 and 2	1/yr	15 months
3	2/yr	7½ months
4	4/yr	4½ months

192.721(b)(1)	Patrolling Business District (4 per yr/4½ months)	S			
192.721(b)(2)	Patrolling Outside Business District (2 per yr/7½ months)	S			
192.723(b)(1)	Leakage Survey - Outside Business District (5 years)	S			
192.725	Tests for Reinstating Service Lines	S			
192.727(g)	Abandoned Pipelines; Underwater Facility Reports	S			
192.739	Pressure Limiting and Regulating Stations (1 per yr/15 months) .739	S			
192.743	Pressure Limiting and Regulator Stations – Capacity (1 per yr/15 months) .743	S			
192.745	Valve Maintenance (1 per yr/15 months) .745	S			
480-93-100(3)	Service valve maintenance (1 per yr/15 months) (eff. 06/02/05)	S			
480-93-100(4)	Service valve installation and maintenance program fully implemented by 6/01/07? (eff. 06/02/05)	S			
192.749	Vault maintenance (>200 cubic feet)(1 per yr/15 months) .749	S			
192.751	Prevention of Accidental Ignition (hot work permits) .751	S			
192.225(b)	Welding – Procedure	S			
192.227/.229	Welding – Welder Qualification	S			
192.243(b)(2)	NDT – NDT Personnel Qualification .243(b)(2)	S			
192.243(f)	NDT Records (pipeline life) .243(f)	S			
192.709	Repair: pipe (pipeline life); Other than pipe (5 years)	S			

Documentation Reviewed:			
Document Title	Document Number	Revision Date	Date Range Reviewed
Odorant Calibration by Heath	All Serial Numbers for meters used in King County	2006	Dec 2005 to Present

Comments:

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Reviewed numerous records for monthly odorant test reads.
Reviewed leak survey for the Seattle and West Seattle including areas where bare steel exist.
Reviewed leak survey history located at 5002 S. 124 St and 14320 Aurora Ave N.
Field inspected replacement of bare steel pipe along Kent Kangley Road.
Reviewed all corrosion leaks for King County from Dec 2005 to present.
Reviewed and field inspected all transmission pipelines and District Regulators in King County.

CORROSION CONTROL RECORDS

		S	U	N/A	N/C
192.455(a)(1)	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71)	S			
192.455(a)(2)	CP system installed on and operating within 1 yr of completion of pipeline construction (after 7/31/71)	S			
192.465(a)	Isolated, Mains	S			
192.465(a)	Isolated, Services	S			
192.491	Maps or Records .491(a)	S			
192.491	Examination of Buried Pipe when exposed .459	S			
480-93-110(8)	CP test reading on all exposed facilities where coating has been removed (eff 6/02/05)	S			
192.491	Annual Pipe-to-soil monitoring (1 per yr/15 months) .465(a)	S			
192.491	Rectifier Monitoring (6 per yr/2½ months) .465(b)	S			
192.491	Interference Bond Monitoring – Critical (6 per yr/2½ months) .465(c)	S			
192.491	Interference Bond Monitoring – Non-critical (1 per yr/15 months) .465(c)	S			
480-93-110(2)	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) .465(d)	S			
192.491	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) .465(e)	S			
192.491	Electrical Isolation (Including Casings) .467	S			
480-93-110(5)	Casings inspected/tested annually not to exceed fifteen months (eff 6/02/05)	S			
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)	S			
480-93-110(5)(b)	Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days (eff 6/02/05)	S			
480-93-110(5)(c)	Casing shorts cleared when practical (eff 6/02/05)	S			
480-93-110(5)(d)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months (eff 6/02/05)	S			
192.491	Interference Currents .473	S			
192.491	Internal Corrosion; Corrosive Gas Investigation .475(a)	S			
192.491	Internal Corrosion; Internal Surface Inspection; Pipe Replacement .475(b)	S			
192.491	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months) .477			N/A	
192.491	Atmospheric Corrosion Control Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore) .481	S			
192.491	Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions .483/485	S			
480-93-110(3)	CP Test Equipment and Instruments checked for accuracy/intervals (Mfct Rec or Opr Sched) (eff 6/02/05)	S			

Documentation Reviewed:

Document Title	Document Number	Revision Date	Date Range Reviewed
Emergency Section Valves	Viewed on the SAP database system		Dec 2005 to Sept 2007
Exception Reports for CP records	Viewed on the SAP database system		Dec 2005 to Sept 2007
Annual Pipe-to Soil monitoring	Viewed on the SAP database system		Dec 2005 to Sept 2007
Rectifier Monitoring	Viewed on the SAP database system		Dec 2005 to Sept 2007

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Comments:
 Review numerous records for critical bond and casings.
 There are no Non-critical interference bonds.

PIPELINE INSPECTION (Field)		S	U	N/A	N/C
192.161	Supports and anchors	S			
192.179	Valve Protection from Tampering or Damage	S			
480-93-080(1)(d)	Welding procedures located on site where welding is performed?	S			
480-93-080(1)(b)	Use of testing equipment to record and document essential variables (eff 6/02/05)	S			
480-93-080(2)(a)	Plastic procedures located on site where welding is performed? (eff 6/02/05)	S			
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)	S			
480-93-013	Personnel performing "New Construction" covered tasks OQ qualified? (eff 6/02/05)	S			
480-93-015(1)	Odorization	S			
480-93-018(3)	Updated records, inc maps and drawings made available to appropriate operations personnel? (eff 6/02/05)	S			
192.455	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71)	S			
192.463	Levels of Cathodic Protection	S			
192.465	Rectifiers	S			
192.467	CP - Electrical Isolation	S			
192.469	Test Stations (Sufficient Number)	S			
192.479	Pipeline Components Exposed to the Atmosphere	S			
192.481	Atmospheric Corrosion: monitoring	S			
192.491	Test Stations – Sufficient Number .469	S			
480-93-115(2)	Casings – Test Leads (casings w/o vents installed after 9/05/1992) eff. 6/02/05	S			
480-93-115(2)	Mains or transmission lines installed in casings/conduit. Are casing ends sealed? eff 6/02/05	S			
480-93-115(4)	Service lines installed in casings/conduit. Are casing ends nearest to building walls sealed? eff. 6/02/05	S			
192.605(a)	Appropriate parts of manuals kept at locations where O&M activities are conducted	S			
192.605	Knowledge of Operating Personnel	S			
480-93-124	Pipeline markers installed eff 6/02/05	S			
480-93-124(4)	Markers reported missing or damaged replaced within 45 days? eff 6/02/05	S			
192.707	Warning Signs	S			
192.719	Pre-pressure Tested Pipe (Markings and Inventory)	S			
192.195	Overpressure protection designed and installed where required?	S			
192.739	Pressure Limiting and Regulating Devices (Mechanical)	S			
192.743	Pressure Limiting and Regulating Devices (Capacities)	S			
192.355	Customer meters and regulators. Protection from damage	S			
192.355(c)	Pits and vaults: Able to support vehicular traffic where anticipated.	S			
480-93-140	Service regulators installed, operated and maintained per state/fed regs and manufacturers recommended practices? Eff 6/02/05	S			
192.745	Valve Maintenance (Transmission)	S			
192.747	Valve Maintenance (Distribution)	S			

**Washington 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.

Facility Sites Visited:		
Facility Type	Facility ID Number	Location
Residential Meter Set	Meter # 242425	At 3701 SW Ida Street in West Seattle the residential meter set has external corrosion with pitting on the service riser.

Comments: See above.

Pipeline Safety Advisory Bulletins:

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 YES

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 YES

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 YES

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

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

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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 YES

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

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?

Comments:

Yes, PSE has experienced pipe failures from brittle-like cracking and has a program in place to identify and monitor areas where the pipe is located.

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

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:
 PSE does NOT have any compressor stations in King County.

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

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

Comments:
 PSE does NOT operate compressor stations in King County.

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 STATIONS INSPECTION (Field)		S	U	N/A	N/C
(Note: Facilities may be "Grandfathered")					
.163	(c)	Main operating floor must have (at least) two (2) separate and unobstructed exits			N/A
		Door latch must open from inside without a key			N/A
		Doors must swing outward			N/A
	(d)	Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit			N/A
		Each gate located within 200 ft of any compressor plant building must open outward			N/A
		When occupied, the door must be opened from the inside without a key			N/A
(e)	Does the equipment and wiring within compressor stations conform to the National Electric Code, ANSI/NFPA 70?			N/A	
.165	(a)	If applicable, are there liquid separator(s) on the intake to the compressors?			N/A
	(b)	Do the liquid separators have a manual means of removing liquids?			N/A
		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?			N/A
.167	(a)	ESD system must:			
		- Discharge blowdown gas to a safe location			N/A
		- Block and blow down the gas in the station			N/A
		- Shut down gas compressing equipment, gas fires, electrical facilities in compressor building and near gas headers			N/A
		- Maintain necessary electrical circuits for emergency lighting and circuits needed to protect equipment from damage			N/A
		ESD system must be operable from at least two locations, each of which is:			
		- Outside the gas area of the station			N/A
		- Not more than 500 feet from the limits of the station			N/A
		- ESD switches near emergency exits?			N/A
	(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?			N/A
(c)	Are ESDs on platforms designed to actuate automatically by...				
	- For unattended compressor stations, when:				
		▪ The gas pressure equals MAOP plus 15%?		N/A	
		▪ An uncontrolled fire occurs on the platform?		N/A	
	- For compressor station in a building, when				
		▪ An uncontrolled fire occurs in the building?		N/A	
	▪ 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)?		N/A		
.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.			N/A
	(b)	Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?			N/A
	(c)	Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?			N/A
	(d)	Are the gas compressor units equipped to automatically stop fuel flow and vent the engine if the engine is stopped for any reason?			N/A
	(e)	Are the mufflers equipped with vents to vent any trapped gas?			N/A
.173	Is each compressor station building adequately ventilated?			N/A	
.457	Is all buried piping cathodically protected?			N/A	
.481	Atmospheric corrosion of aboveground facilities			N/A	
.603	Does the operator have procedures for the start-up and shut-down of the station and/or compressor units?			N/A	
	Are facility maps current/up-to-date?			N/A	

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")					
.615	Emergency Plan for the station on site?			N/A	
.619	Review pressure recording charts and/or SCADA			N/A	
.707	Markers			N/A	
.731	Overpressure protection – relief's or shutdowns			N/A	
.735	Are combustible materials in quantities exceeding normal daily usage, stored a safe distance from the compressor building?			N/A	
	Are aboveground oil or gasoline storage tanks protected in accordance with NFPA standard No. 30?			N/A	
.736	Gas detection – location			N/A	

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

Comments:
 PSE does NOT operate compressor stations in KingCounty.