

**Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Procedures and Plan Review**

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

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

Inspection Report			
Docket Number	PG-080038		
Inspector Name & Submit Date	Kuang Chu/ 3/27/09		
Sr. Eng Review/Date	Dave Lykken/ 3/27/09		
Operator Information			
Name of Operator:	Solvay Chemicals Inc.	OP ID #:	32399
Name of Unit(s):	Solvay Chemicals Hydrogen Pipeline		
Records Location:	3500 Industrial Way, Longview, WA 98632-9482		
Date(s) of Last Review:	This is the first inspection for this operator.	Inspection Date	11/18 – 11/20/2008

Inspection Summary:

This operator operates a 6" hydrogen pipeline for about 500 feet long. It originates at Equa Chlor plant inside the Weyerhaeuser plant boundary. After leaving the Weyerhaeuser plant fence, the hydrogen line crosses under a railroad track, a highway (Industrial Way), and over a drainage ditch, then under the Solvay's plant fence and terminates at an above ground insulating flange.

The relief valve set pressure at the delivery source (Equa Chlor) is 70 psig. The normal operating pressure is below 60 psig. The MAOP of the line is 150 psig. The pipeline was hydrostatically tested to 225 psig in 2007.

The purpose of this inspection was to review the O&M manual and to inspect the pipeline facilities. There were numerous comments made about the O&M manual during the inspection. The manual will be reviewed by UTC after revisions have been made by the operator.

During the field inspection of pipeline facilities, it was found that several line markers need to be installed at different locations.

HQ Address: 333 Richmond Ave. Houston, TX 77098		System/Unit Name & Address: Solvay Chemicals Hydrogen Pipeline 3500 Industrial Way Longview, WA 98632-9482	
Co. Official:	Mike Banigan	Phone No.: (360)-636-7703	
Phone No.:	(360)-636-7793	Fax No.: (360)-425-1163	
Fax No.:	(360)-425-1163	Emergency Phone No.:	
Emergency Phone No.:	(360)-636-7796	(360)-636-7796	
Persons Interviewed	Title	Phone No.	
Mike Banigan	Engineering/Maintenance Manager	(360)-636-7793	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

GAS SYSTEM OPERATIONS		
Gas Supplier: Equa Chlor		
Operating Pressure(s):	MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder: 60 psig	150 psig	60 psig
Town:		
Other:		
Does the operator have any transmission pipelines?		

Pipe Specifications:			
Year Installed (Range)	1988	Pipe Diameters (Range)	6"
Material Type	Carbon Steel	Line Pipe Specification Used	ASTM A-53 Grade B
Mileage	500 feet	SMYS %	5% SMYS

49 CFR PART 191 & CHAPTER 480-93 WAC

REPORTING PROCEDURES		S	U	N/A	N/C
1.	Telephonic reports to NRC (800-424-8802) 191.5	X			<input type="checkbox"/>
2.	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 2 hours) for events which; 480-93-200(1) (eff 6/02/05)				
3.	(a) Results in a fatality or personal injury requiring hospitalization;	X			
4.	(b) Results in damage to the property of the operator and others of a combined total exceeding fifty thousand dollars;	X			
5.	(c) Results in the evacuation of a building, or high occupancy structures or areas	X			
6.	(d) Results in the unintentional ignition of gas;	X			
7.	(e) Results in the unscheduled interruption of service furnished by any operator to twenty-five or more distribution customers; Notes: The operator is not a LDC.			X	
8.	(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;	X			
9.	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.	(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			
11.	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for; 480-93-200(2) (eff 6/02/05)	X			
12.	(a) The uncontrolled release of gas for more than two hours;	X			
13.	b) The taking of a high pressure supply or transmission pipeline or a major distribution supply pipeline out of service; Notes: The operator is not a LDC.			X	
14.	(c) A pipeline or system operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or Notes: The operator is not a distribution company.			X	
15.	(d) A pipeline or system pressure exceeding the MAOP.	X			
16.	Annual reports; (DOT Form F 7100.1) 191.11	X			
17.	30 day written incident (federal) reports; (DOT Form F 7100.2) 191.15(a) Notes: The system is a distribution system.			X	
18.	Supplemental incident reports 191.15(b) Notes: The system is a distribution system.			X	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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 PROCEDURES			S	U	N/A	N/C
19.		Written incident reports including supplemental reports (within 30 days); and include the following; 480-93-200(4) (a) thru (g) (eff 6/02/05)	X			
20.	480-93-180 (1)	Written report within 5 days of completion or receipt the failure analysis report by the gas company, concerning any incident or hazardous condition due to construction defects or material failure 480-93-200(6) (eff 5/30/08)	X			
21.		Annual Report (DOT Form PHMSA F-7100.2-1) 191.17(a)	X			
		Annual Reports filed no later than March 15 for the proceeding calendar year 480-93-200(6) (eff 6/02/05)				
22.	480-93-180 (1)	<ul style="list-style-type: none"> A copy of PHMSA form F-7100.1-1 or F-7100.2-1 annual report required by the PHMSA/OPS 480-93-200(6)(a) (eff 6/02/05) 	X			
23.		<ul style="list-style-type: none"> Annual Damage Prevention Statistics Report (eff 6/02/05) including the following; 480-93-200(7)(b)(i) thru (iii) (eff 6/02/05) 	X			
24.		Annual report on construction defects or material failures 480-93-200(6) (eff 5/30/08)	X			
25.		Providing updated emergency contact information to the Commission and appropriate officials 480-93-200(8) (eff 6/02/05)	X			
26.		Providing daily construction and repair activities reports 480-93-200(8) (eff 6/02/05) Notes: There are no daily construction reports. However, UTC will be notified if there are repair activities.			X	
27.		Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form (when required) 480-93-200(10) (eff 5/30/08) Notes: Per 199.119, the MIS report is not required as the number of covered employees are fewer than 50.			X	
28.		Safety related condition reports (SRCR) 191.23	X			
29.	Filing the SRCR within 5 days of determination, but not later than 10 days after discovery 191.25	X				

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

49 CFR PART 192 SUBPART A – GENERAL CHAPTER 480-93 WAC – GAS COMPANIES—SAFETY			S	U	N/A	N/C
30.	480-93-180 (1)	Procedures for notifying new customers, within 90 days, of their responsibility for those selections of service lines not maintained by the operator. §192.16 Notes: The operator is not a local distribution company (LDC).			X	
31.		Conversion to Service - Any pipelines previously used in service not subject to Part 192? 192.14 Notes: There are no conversion to service for this operator.			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Washington Utilities and Transportation Commission Standard Inspection Report for Intrastate Gas Systems Operations and Maintenance Procedures and Plan Review

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.

Comments:

SUBPART B - MATERIALS			S	U	N/A	N/C
		Are minimum requirements prescribed for the selection and qualification of pipe and components for use in pipelines 192.51				
32.	480-93-180 (1)	For steel pipe, manufactured in accordance with and meet the listed specification found under Appendix B 192.55	X			
		For new plastic pipe, qualified for use under this part if: 192.59(a) <i>Notes: The operator does not use plastic pipe.</i>				
33.	480-93-180 (1)	<ul style="list-style-type: none"> • It is manufactured in accordance with a listed specification; and 192.59(a)(1) • It is resistant to chemicals with which contact may be anticipated. 192.59(a)(2) 			X	
		For used plastic pipe, qualified for use under this part if: 192.59(b)				
34.	480-93-180 (1)	<ul style="list-style-type: none"> • It was manufactured in accordance with a listed specification; 192.59(b)(1) • It is resistant to chemicals with which contact may be anticipated; 192.59(b)(2) • It has been used only in natural gas service. 192.59(b)(3)(4) • Its dimensions are still within the tolerances of the specification to which it was manufactured; and, 192.59(b) • It is free of visible defects. 192.59(b)(5) 			X	
35.		Marking of Materials 192.63	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART C – PIPE DESIGN						
		Procedures for assuring that the minimum requirements for design of pipe are met				
		For Steel Pipe	S	U	N/A	N/C
36.		Pipe designed of sufficient wall thickness, or installed with adequate protection, to withstand anticipated external pressures and loads that will be imposed on the pipe after installation. 192.103	X			
37.		Design formula for steel pipe. 192.105(a)	X			
38.	480-93-180 (1)	Yield strength (S) for steel pipe. 192.107				

Washington Utilities and Transportation Commission

Standard Inspection Report for Intrastate Gas Systems

Operations and Maintenance Procedures and Plan Review

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.

SUBPART C – PIPE DESIGN

39.	480-93-180 (1)	<p>Nominal wall thickness (t) for steel pipe. 192.109 (a) & (b) <u>Notes: The nominal thickness of the 6" pipe is 0.280" (standard schedule).</u></p> <p>(a) If the nominal wt is not known..... Determined by measuring the thickness of each piece of pipe at quarter points on one end unless.....</p> <p>(b) If the pipe is of uniform grade, size, and thickness and more than 10 lengths of pipeline, only 10 percent of the individual lengths, but not less than 10 lengths, need be measured. The thickness of the lengths that are not measured must be verified by applying a gauge set to the minimum thickness found by the measurement. The nominal wall thickness to be used in the design formula in §192.105 is the next wall thickness found in commercial specifications that is below the average of all the measurements taken. However, the nominal wall thickness used may not be more than 1.14 times the smallest measurement taken on pipe less than 20 inches (508 millimeters) in outside diameter, nor more than 1.11 times the smallest measurement taken on pipe 20 inches (508 millimeters) or more in outside diameter.</p>				X
40.		Design factor (F) for steel pipe. 192.111				
41.		<p>(a) Except as otherwise provided in paragraphs (b), (c), and (d) of this section, the design factor to be used in the design formula in §192.105 is determined in accordance with the following Class location Design factor (F) table.</p> <p>Class 1 0.72, Class 2 0.60, Class 3 0.50, Class 4 0.40</p>	X			
42.		<p>(b) A design factor of 0.60 or less must be used in the design formula in §192.105 for steel pipe in Class 1 locations that:</p> <p>(1) Crosses the right-of-way of an unimproved public road, without a casing;</p> <p>(2) Crosses without a casing, or makes a parallel encroachment on, the right-of-way of either a hard surfaced road, a highway, a public street, or a railroad;</p> <p>(3) Is supported by a vehicular, pedestrian, railroad, or pipeline bridge; or</p> <p>(4) Is used in a fabricated assembly, (including separators, mainline valve assemblies, cross-connections, and river crossing headers) or is used within five pipe diameters in any direction from the last fitting of a fabricated assembly, other than a transition piece or an elbow used in place of a pipe bend which is not associated with a fabricated assembly. <u>Notes: None of these items apply to this pipeline.</u></p>			X	
43.		(c) For Class 2 locations, a design factor of 0.50, or less, must be used in the design formula in §192.105 for uncased steel pipe that crosses the right-of-way of a hard surfaced road, a highway, a public street, or a railroad. <u>Notes: This line is in class 2 location.</u>			X	
44.		<p>(d) For Class 1 and Class 2 locations, a design factor of 0.50, or less, must be used in the design formula in §192.105 for-</p> <p>(1) Steel pipe in a compressor station, regulating station, or measuring station, and</p> <p>(2) Steel pipe, including a pipe riser, on a platform located offshore or in inland navigable waters.</p> <p><u>Notes: This line is not in a compressor station and is not a riser.</u></p>			X	
45.		Longitudinal joint factor (E) for steel pipe. 192.113	X			
46.	480-93-180 (1)	Temperature derating factor (T) for steel pipe. 192.115	X			
		For Plastic Pipe				
		<u>Notes: The operator does not use plastic pipe.</u>				
47.	480-93-180 (1)	Subject to the limitations of §192.123, for determining the design pressure for plastic pipe in accordance with either formula listed. 192.121			X	
48.		For assuring that the design limitations for plastic pipe are not exceeded. 192.123 (a) thru (e)			X	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART D – DESIGN OF PIPELINE COMPONENTS		S	U	N/A	N/C
	For the design and installation of pipeline components and facilities, and relating to protection against accidental over-pressuring. 192.141				
49.	General requirements.... 192.143	X			
50.	Qualifying metallic components. 192.144 (a) & (b)	X			
51.	For steel valves; meeting the minimum requirements of API 6D, or other standard that provides an equivalent performance level. 192.145 (a) thru (e) <i>Notes: The jurisdictional portion of this line does not have a valve.</i>			X	
52.	For each flange or flange accessory (other than cast iron) must meet the minimum requirements of ASME/ANSI B16.5, MSS SP-44, or the equivalent. 192.147 (a) thru (c) <i>Notes: The jurisdictional portion of this line does not have a flange.</i>			X	
53.	480-93-180 (1) For ensuring that each new transmission line and each replacement of line pipe, valve, fitting, or other line component in a transmission line is designed and constructed to accommodate the passage of instrumented internal inspection devices. 192.150 (a) thru (c) <i>Notes: This line was installed in 1988 and is not a new transmission line.</i>			X	
54.	Components fabricated by welding. 192.153 (a) thru (d) <i>Notes: There were no components fabricated by welding.</i>			X	
55.	Welded branch connections. 192.155 <i>Notes: There were no welded branch connections.</i>			X	
56.	Flexibility. 192.159	X			
57.	Supports and Anchors 192.161(a) (a) thru (f)	X			
	Compressor Stations <i>Notes: There are no compressor stations.</i>				
58.	480-93-180 (1) Compressor stations: Design and construction. 192.163 (a) thru (e)			X	
59.	Compressor stations: Liquid removal. 192.165 (a) & (b)			X	
60.	Compressor stations: Emergency shutdown. 192.167 (a) thru (c)			X	
61.	Compressor stations: Pressure limiting devices. 192.169 (a) & (b)			X	
62.	480-93-180 (1) Compressor stations: Additional safety equipment. 192.171 (a) thru (e)			X	
63.	Compressor stations: Ventilation. 192.173			X	

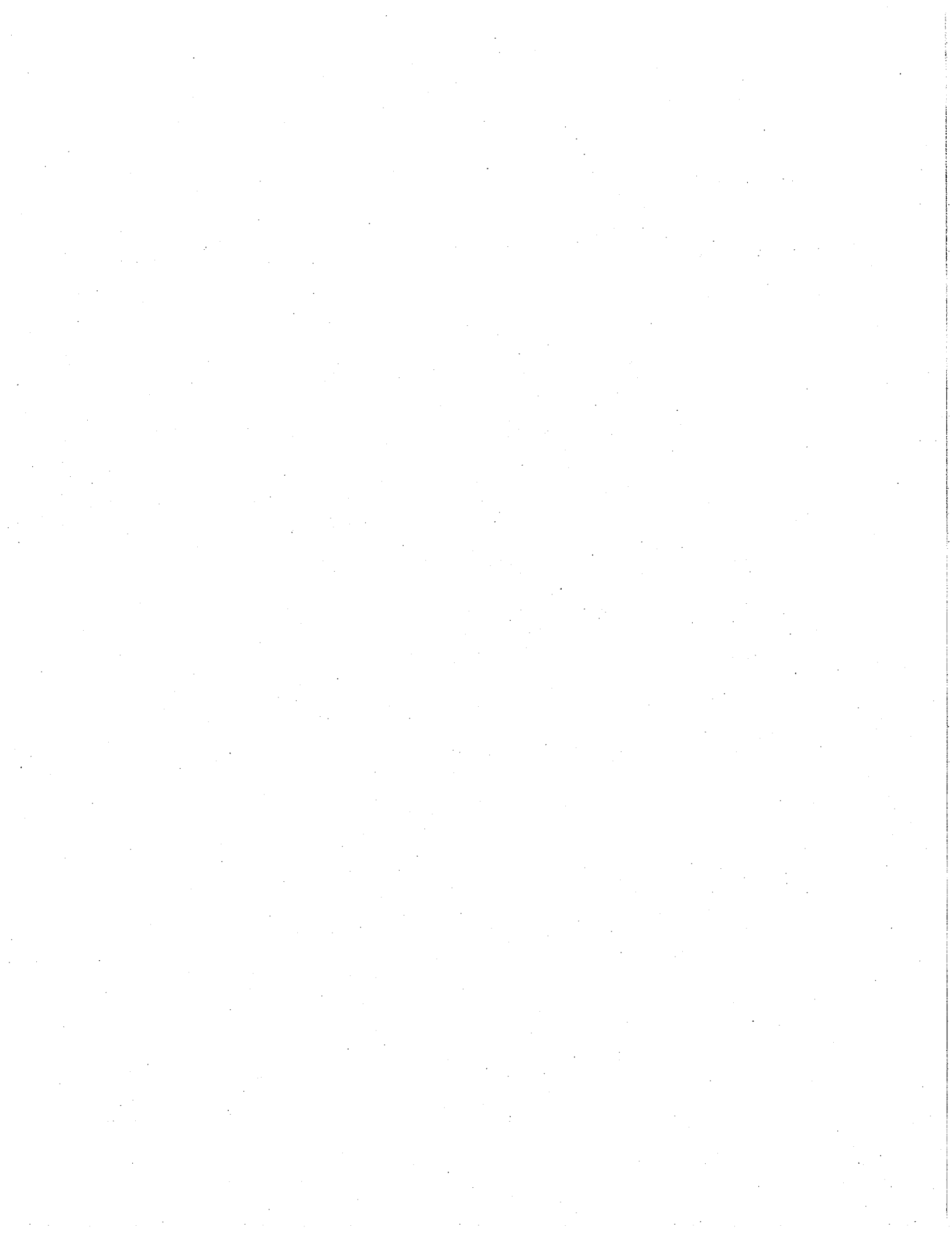
Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review

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.

SUBPART D – DESIGN OF PIPELINE COMPONENTS			S	U	N/A	N/C
64.	480-93-180 (1)	Pipe-type and bottle-type holders. 192.175 <i>Notes: There are no bottle-type holders.</i>			X	
65.		Additional provisions for bottle-type holders. 192.177 <i>Notes: There are no bottle-type holders.</i>			X	
66.	480-93-180 (1)	Transmission line valves. 192.179 (a) thru (d) <i>Notes: There are no transmission line valves.</i>			X	
67.		Distribution line valves. 192.181(a) thru (c) <i>Notes: There are no distribution line valves.</i>			X	
68.	480-93-180 (1)	Vaults: Structural design requirements 192.183 (a) thru (c) <i>Notes: There are no vaults.</i>			X	
69.		Vaults: Accessibility 192.185 (a) thru (c) <i>Notes: There are no vaults.</i>			X	
70.		Vaults: Sealing, venting, and ventilation. 192.187 (a) thru (c) <i>Notes: There are no vaults.</i>			X	
71.		Vaults: Drainage and waterproofing 192.189 (a) thru (c) <i>Notes: There are no vaults.</i>			X	
72.		Design pressure of plastic fittings 192.191 (a) & (b) <i>Notes: There are no plastic fittings.</i>			X	
73.		Valve installation in plastic pipe. 192.193 <i>Notes: There is no plastic pipe.</i>			X	
74.	480-93-180 (1)	Protection against accidental over-pressuring 192.195 (a) & (b)	X			
75.		Control of the pressure of gas delivered from high-pressure distribution systems. 192.197 (a) thru (c) <i>Notes: The operator is not a LDC.</i>			X	
76.		Except for rupture discs, each pressure relief or pressure limiting device must: 192.199 (a) thru (h) <i>Notes: The overpressure protection is provided by the hydrogen gas supplier.</i>			X	
77.		Required capacity of pressure relieving and limiting stations. 192.201(c) <i>Notes: There are no pressure relieving and limiting stations.</i>			X	
78.		Instrument, Control, and Sampling Pipe and Components 192.203(a) & (b) <i>Notes: There are no instrument, control, and sampling pipe & components.</i>			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:



**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART E – WELDING OF STEEL IN PIPELINES			S	U	N/A	N/C
WAC 480-93-080 – WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION						
79.	480-93-180(1)	Welding procedures must be qualified under Section 5 of API 1104 (19 th ed.1999, 10/31/01 errata) or Section IX of ASME Boiler and Pressure Code (2001 ed.) by destructive test. .225(a)	X			
80.		Retention of welding procedure – details and test .225(b)	X			
81.		Welders must be qualified by Section 6 of API 1104 (19 th ed.1999, 10/31/01 errata) or Section IX of ASME Boiler and Pressure Code (2001 ed.) See exception in .227(b). .227(a)	X			
82.		Welders may be qualified under section I of Appendix C to weld on lines that operate at < 20% SMYS. .227(b) Notes: The operator does not use Appendix C for welding the 6" line.			X	
		Oxyacetylene welders may qualify under 49 CFR § 192 Appendix C, but may only weld the following size pipe: 480-93-080(1)(a) (eff 6/02/05) Notes: The operator does not use Oxyacetylene welding for the 6" line.	S	U	N/A	N/C
83.	480-93-180 (1)	• Nominal two-inch or smaller branch connections to nominal six-inch or smaller main or service pipe. 480-93-080(1)(a)(i)			X	
84.		• Nominal two-inch or smaller below ground butt welds 480-93-080(1)(a)(ii)			X	
85.		• Nominal four-inch or smaller above ground manifold and meter piping operating at 10 psig or less. 480-93-080(1)(a)(iii)			X	
86.		• Appendix C Welders re-qualified 2/Yr (7.5Months) 480-93-080(1)(a)(iv)			X	
87.	480-93-180(1)	Use of testing equipment to record and document essential variables 480-93-080(1)(b) (eff 6/02/05)	X			
88.		Qualified written welding procedures must be located on-site where welding is being performed 480-93-080(1)(d)	X			
89.		Identification and qualification cards/certificates w/name of welder/joiner, their qualifications, date of qualification and operator whose qualification procedures were followed. 480-93-080(3) (eff 6/02/05)	X			
90.	480-93-180(1)	To weld on compressor station piping and components, a welder must successfully complete a destructive test .229(a) Notes: There is no compressor station.			X	
91.		Welder must have used welding process within the preceding 6 months .229(b)	X			
92.		A welder qualified under .227(a)... .229(c)				
93.		• May not weld on pipe that operates at ≥ 20% SMYS unless within the preceding 6 calendar months the welder has had one weld tested and found acceptable under the sections 6 or 9 of API Standard 1104 ; may maintain an ongoing qualification status by performing welds tested and found acceptable at least twice per year , not exceeding 7½ months ; may not requalify under an earlier referenced edition. .229(c)(1)	X			
94.		• May not weld on pipe that operates at < 20% SMYS unless is tested in accordance with .229(c)(1) or re-qualifies under .229(d)(1) or (d)(2). .229(c)(2)	X			
		Welders qualified under .227(b) may not weld unless: .229(d)	S	U	N/A	N/C
95.	480-93-180(1)	• Re-qualified within 1 year/15 months , or .229(d)(1)	X			
96.		• Within 7½ months but at least twice per year had a production weld pass a qualifying test .229(d)(2)	X			
97.		Welding operation must be protected from weather .231	X			
98.		Miter joints (consider pipe alignment) .233	X			
99.		Welding preparation and joint alignment .235	X			
100.		Visual inspection must be conducted by an individual qualified by appropriate training and experience to ensure: .241(a) thru (c)	X			
101.		Nondestructive testing of welds must be performed by any process, other than trepanning, that clearly indicates defects that may affect the integrity of the weld .243 (a) thru (f)	X			
102.		Repair or removal of defects.245 (a) thru (c)	X			
		• Sleeve Repair – low hydrogen rod (Best Practices –ref. API 1104 App. B, In Service Welding)				

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART F - JOINING OF PIPELINE MATERIALS OTHER THAN BY WELDING WAC 480-93-080 – WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION			S	U	N/A	N/C
103.		Joining of plastic pipe .281 <i>Notes: The operator does not use plastic pipe.</i>				
104.		A plastic pipe joint that is joined by solvent cement, adhesive, or heat fusion may not be disturbed until it has properly set. Plastic pipe may not be joined by a threaded joint or miter joint. .281(a)			X	
105.		Each solvent cement joint on plastic pipe must comply with the following: .281(b)				
106.		• The mating surfaces of the joint must be clean, dry, and free of material which might be detrimental to the joint. .281(b)(1)			X	
107.		• The solvent cement must conform to ASTM Designation: D 2513. .281(b)(2)			X	
108.		• The joint may not be heated to accelerate the setting of the cement. .281(b)(3)			X	
109.		Each heat-fusion joint on plastic pipe must comply with the following: .281(c)				
110.		• A butt heat-fusion joint must be joined by a device that holds the heater element square to the ends of the piping, compresses the heated ends together, and holds the pipe in proper alignment while the plastic hardens. .281(c)(1)			X	
111.		• A socket heat-fusion joint must be joined by a device that heats the mating surfaces of the joint uniformly and simultaneously to essentially the same temperature. .281(c)(2)			X	
112.	480-93-180(1)	• An electrofusion joint must be joined utilizing the equipment and techniques of the fittings manufacturer or equipment and techniques shown, by testing joints to the requirements of §192.283(a)(1)(iii), to be at least equivalent to those of the fittings manufacturer. .281(c)(3)			X	
113.		• Heat may not be applied with a torch or other open flame. .281(c)(4)			X	
114.		Each adhesive joint on plastic pipe must comply with the following: .281(d)				
115.		• The adhesive must conform to ASTM Designation: D 2517. .281(d)(1)			X	
116.		• The materials and adhesive must be compatible with each other. .281(d)(1)			X	
117.		Each compression type mechanical joint on plastic pipe must comply with the following: .281(e)				
118.		• The gasket material in the coupling must be compatible with the plastic. .281(e)(1)			X	
119.		• A rigid internal tubular stiffener, other than a split tubular stiffener, must be used in conjunction with the coupling. .281(e)(2)			X	
120.		Before any written procedure established under §192.273(b) is used for making plastic pipe joints by a heat fusion, solvent cement, or adhesive method, the procedure must be qualified by subjecting specimen joints made according to the procedure to the following tests: .283(a)				
121.		The burst test requirements of- .283(a)(1)				
122.		• Thermoplastic pipe: paragraph 6.6 (sustained pressure test) or paragraph 6.7 (Minimum Hydrostatic Burst Test) or paragraph 8.9 (Sustained Static pressure Test) of ASTM D2513 .283(a)(1)(i)			X	
123.		• Thermosetting plastic pipe: paragraph 8.5 (Minimum Hydrostatic Burst Pressure) or paragraph 8.9 (Sustained Static Pressure Test) of ASTM D2517; or .283(a)(1)(ii)			X	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

124.	480-93-180(1)	<ul style="list-style-type: none"> Electrofusion fittings for polyethylene pipe and tubing: paragraph 9.1 (Minimum Hydraulic Burst Pressure Test), paragraph 9.2 (Sustained Pressure Test), paragraph 9.3 (Tensile Strength Test), or paragraph 9.4 (Joint Integrity Tests) of ASTM Designation F1055. .283(a)(1)(iii) 			X	
125.		For procedures intended for lateral pipe connections, subject a specimen joint made from pipe sections joined at right angles according to the procedure to a force on the lateral pipe until failure occurs in the specimen. If failure initiates outside the joint area, the procedure qualifies for use; and, .283(a)(2)			X	
126.		For procedures intended for non-lateral pipe connections, follow the tensile test requirements of ASTM D638, except that the test may be conducted at ambient temperature and humidity If the specimen elongates no less than 25 percent or failure initiates outside the joint area, the procedure qualifies for use. .283(a)(3)			X	
127.		Before any written procedure established under §192.273(b) is used for making mechanical plastic pipe joints that are designed to withstand tensile forces, the procedure must be qualified by subjecting five specimen joints made according to the procedure to the following tensile test: .283(b)				
128.		<ul style="list-style-type: none"> Use an apparatus for the test as specified in ASTM D 638 (except for conditioning). .283(b)(1) 			X	
129.		<ul style="list-style-type: none"> The specimen must be of such length that the distance between the grips of the apparatus and the end of the stiffener does not affect the joint strength. .283(b)(2) 			X	
130.	480-93-180(1)	<ul style="list-style-type: none"> The speed of testing is 0.20 in. (5.0 mm) per minute, plus or minus 25 percent. .283(b)(3) 			X	
131.		<ul style="list-style-type: none"> Pipe specimens less than 4 inches (102 mm) in diameter are qualified if the pipe yields to an elongation of no less than 25 percent or failure initiates outside the joint area. .283(b)(4) 			X	
132.		<ul style="list-style-type: none"> Pipe specimens 4 inches (102 mm) and larger in diameter shall be pulled until the pipe is subjected to a tensile stress equal to or greater than the maximum thermal stress that would be produced by a temperature change of 100° F (38° C) or until the pipe is pulled from the fitting. If the pipe pulls from the fitting, the lowest value of the five test results or the manufacturer's rating, whichever is lower must be used in the design calculations for stress. .283(b)(5) 			X	
133.		<ul style="list-style-type: none"> Each specimen that fails at the grips must be retested using new pipe. .283(b)(6) 			X	
134.		<ul style="list-style-type: none"> Results pertain only to the specific outside diameter, and material of the pipe tested, except that testing of a heavier wall pipe may be used to qualify pipe of the same material but with a lesser wall thickness. .283(b)(7) 			X	
135.		A copy of each written procedure being used for joining plastic pipe must be available to the persons making and inspecting joints. .283(c)			X	
136.		Pipe or fittings manufactured before July 1, 1980, may be used in accordance with procedures that the manufacturer certifies will produce a joint as strong as the pipe. .283(d)			X	
137.		No person may make a plastic pipe joint unless that person has been qualified under the applicable joining procedure by: .285(a)				
138.		<ul style="list-style-type: none"> Appropriate training or experience in the use of the procedure; and .285(a)(1) 			X	
139.		<ul style="list-style-type: none"> Making a specimen joint from pipe sections joined according to the procedure that passes the inspection and test set forth in paragraph (b) of this section. .285(a)(2) 			X	
140.		The specimen joint must be: .285(b)				
141.	480-93-180(1)	<ul style="list-style-type: none"> Visually examined during and after assembly or joining and found to have the same appearance as a joint or photographs of a joint that is acceptable under the procedure; and .285(b)(1) 			X	
142.		<ul style="list-style-type: none"> In the case of a heat fusion, solvent cement, or adhesive joint; .285(b)(2) 			X	
143.		Tested under any one of the test methods listed under §192.283(a) applicable to the type of joint and material being tested; .285(b)(2)(i)			X	
144.		Examined by ultrasonic inspection and found not to contain flaws that may cause failure; or .285(b)(2)(ii)			X	
145.		Cut into at least three longitudinal straps, each of which is: .285(b)(2)(iii)			X	
146.	480-93-180(1)	Visually examined and found not to contain voids or discontinuities on the cut surfaces of the joint area; and .285(b)(2)(iii)(A)			X	

Washington Utilities and Transportation Commission Standard Inspection Report for Intrastate Gas Systems Operations and Maintenance Procedures and Plan Review

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.

147.		Deformed by bending, torque, or impact, and if failure occurs, it must not initiate in the joint area. .285(b)(2)(iii)(B)			X	
148.	480-93-180(1)	A person must be requalified under an applicable procedure, if during any 12-month period that person: .285(c)				
149.		• Does not make any joints under that procedure; or .285(c)(1)			X	
150.		• Has 3 joints or 3 percent of the joints made, whichever is greater, under that procedure that are found unacceptable by testing under §192.513. .285(c)(2)			X	
151.		Each operator shall establish a method to determine that each person making joints in plastic pipelines in the operator's system is qualified in accordance with this section. .285(d)			X	
		Plastic pipe joiners re-qualified 1/Yr (15 Months) 480-93-080 (2) (eff 6/02/05)				
152.	480-93-180(1)	• Qualified written plastic joining procedures must be located on-site where plastic joining is being performed. 480-93-080(2)(a)			X	
153.		• Plastic pipe joiners re-qualified if no production joints made during any 12 month period 480-93-080(2)(b) (eff 6/02/05)			X	
154.		• Tracking production joints or re-qualify joiners 1/Yr (12Months) 480-93-080(2)(c) (eff 6/02/05)			X	
155.	480-93-180(1) / 192.273(b)	No person may carry out the inspection of joints in plastic pipes required by §§192.273(c) and 192.285(b) unless that person has been qualified by appropriate training or experience in evaluating the acceptability of plastic pipe joints made under the applicable joining procedure. .287			X	

Documentation Reviewed:

Document Title	Document/Section Number	Revision Date

Comments:

SUBPART G – CONSTRUCTION REQUIREMENTS for TRANSMISSION LINES and MAINS

		S	U	N/A	N/C
156.	480-93-180(1)	Compliance with specifications or standards. 192.303	X		
157.		Inspection of each transmission line and main during construction 192.305	X		
158.		Inspection of materials 192.307	X		
159.		Repair of steel pipe 192.309 (a) thru (e) <i>Notes: The operator will normally replace pipe instead of repairing pipe.</i>	X		
160.		Repair of plastic pipe. 192.311			X
161.		Bends and elbows. 192.313 (a) thru (c)	X		
162.		Wrinkle bends in steel pipe. 192.315 (a) & (b) <i>Notes: The operator does not use field bends.</i>			X
163.		Protection from hazards 192.317 (a) thru (c)	X		
164.		Installation of Pipe in a ditch 192.319 (a) thru (c)	X		
165.		Installation of plastic pipe. 192.321 (a) thru (h)			X
480-93-178 WAC PROTECTION OF PLASTIC PIPE		S	U	N/A	N/C
<i>Notes: The operator does not use plastic pipe.</i>					

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

166.	480-93-180(1)	Procedures for the storage, handling, and installation of plastic pipelines in accordance with the latest applicable manufacturer's recommended practices. 480-93-178(1) eff 6/02/06)			X	
167.		Stated acceptable time limit for maximum cumulative ultraviolet light exposure 480-93-178 (2) eff 6/02/06)			X	
168.		Separation requirements when installing plastic pipelines parallel to other underground utilities 480-93-178 (4) eff 6/02/06)			X	
169.		Separation requirements when installing plastic pipelines perpendicular to other underground utilities 480-93-178 (5) eff 6/02/06)			X	
170.		Casings 192.323 (a) thru (d)	X			
171.		Casing of pipelines. 480-93-115 (1) thru (4)	X			
172.		Underground clearance. 192.325 (a) thru (d).	X			
173.		Cover. 192.327 (a) thru (g)	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART H - CUSTOMER METERS, SERVICE REGULATORS, and SERVICE LINES						
<i>Notes: The operator is not a local distribution company (LDC).</i>						
			S	U	N/A	N/C
174.	480-93-180 (1)	Meters and service regulators installed at locations as prescribed under 192.353 (a) thru (d)			X	
175.		Service regulator vents and relief vents installed and protected from damage. Vaults housing meters and regulators protected from loading due to vehicular traffic. 192.355 (a) thru (c)			X	
176.	480-93-180 (1)	Meters and regulators installed to minimize stresses and insure that potential releases vent to outside atmosphere. 192.357 (a) thru (d)			X	
480-93-140 WAC SERVICE REGULATORS			S	U	N/A	N/C
<i>Notes: The operator is not a local distribution company (LDC).</i>						
177.	480-93-180 (1)	Procedures for installing, operating, and maintaining service regulators in accordance with federal and state regulations, and manufacturer's recommended installation and maintenance practices. 480-93-140(1) (eff 6/02/05)			X	
178.		Procedures for inspecting and testing service regulators and associated safety devices during the initial turn-on, and when a customer experiences a pressure problem. Testing must include..... 480-93-140(2) (eff 6/02/05)			X	
179.		Minimum service line installation requirements as prescribed under 192.361 (a) thru (g)			X	
180.		Location of service-line valves as prescribed under 192.365 (a) thru (c)			X	
181.		General requirements for locations of service-line connections to mains and use of compression fittings 192.367 (a) thru (b)(2).			X	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART H - CUSTOMER METERS, SERVICE REGULATORS, and SERVICE LINES					
<i>Notes: The operator is not a local distribution company (LDC).</i>					
182.	480-93-180 (1)	Connections of service lines to cast iron or ductile iron mains. 192.369 (a) thru (b)			X
183.		Provisions for new service lines not in use 192.379 (a) thru (c)			X
184.		Excess flow valve performance standards 192.381 (a) thru (e)			X
185.		Excess flow valve customer notification. 192.383 (a) thru (f)			X

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART I - CORROSION CONTROL			S	U	N/A	N/C
186.	480-93-180(1)	Corrosion procedures established for the Design, Operations, Installation & Maintenance of CP systems, carried out by, or under the direction of, a person qualified in pipeline corrosion control methods .453	X			
187.	480-93-180(1)	For pipelines installed after July 31, 1971 , buried segments must be externally coated and .455 (a) cathodically protected within one year after construction (see exceptions in code) .455 (b)	X			
188.	480-93-180(1)	Aluminum may not be installed in a buried or submerged pipeline if exposed to an environment with a natural pH in excess of 8 (see exceptions in code) .455 (c) <i>Notes: The operator does not use aluminum pipe.</i>			X	
189.	480-93-180(1)	All effectively coated steel transmission pipelines installed prior to August 1, 1971 , must be cathodically protected .457 (a) <i>The hydrogen line was installed in 1988.</i>			X	
190.		If installed before August 1, 1971 , cathodic protection must be provided in areas of active corrosion for: bare or ineffectively coated transmission lines, and bare or coated c/s, regulator sta., meter sta. piping, and (except for cast iron or ductile iron) bare or coated distribution lines. .457 (b) <i>The hydrogen line was installed in 1988.</i>			X	
191.		Written procedures explaining how cathodic protection related surveys, reads, and tests will be conducted. 480-93-110(4) (eff 6/02/05)	X			
192.		Examination of buried pipeline when exposed: if corrosion is found, further investigation is required .459	X			
193.		Recording the condition of all underground metallic facilities each time the facilities are exposed. 480-93-110(6) (eff 6/02/05)	X			

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART I - CORROSION CONTROL			S	U	N/A	N/C	
194.	480-93-180(1)	CP test reading on all exposed facilities where coating has been removed 480-93-110(8) (eff 6/02/05)	X				
195.		Procedures must address the protective coating requirements of the regulations. External coating on the steel pipe must meet the requirements of this part. .461	S	U	N/A	N/C	
196.		Cathodic protection level according to Appendix D criteria .463	X				
197.		Pipe-to-soil monitoring (1 per yr/15 months) .465(a)	X				
198.		Rectifier monitoring (6 per yr/2½ months) .465(b)	X				
199.	480-93-180(1)	Interference bond monitoring (as required) .465(c) <i>Notes: There is no interference bond.</i>			X		
200.		Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) 480-93-110(2) (eff 6/02/05)	X				
201.		Electrical surveys (closely spaced pipe to soil) on bare/unprotected lines, cathodically protect active corrosion areas (1 per 3 years/39 months) .465(e) <i>Notes: There are no bare/unprotected lines or active corrosion areas.</i>			X		
202.		Sufficient test stations to determine CP adequacy .469	X				
203.		Test lead maintenance .471					
204.		Interference currents .473 <i>Notes: There are no interference currents.</i>			X		
205.		480-93-180(1)	Proper procedures for transporting corrosive gas? .475(a)	X			
206.			Written program to monitor for indications of internal corrosion. The program must also have remedial action requirements for areas where internal corrosion is detected. 480-93-110(7) (eff 6/02/05)	X			
207.			Removed pipe must be inspected for internal corrosion. If found, the adjacent pipe must be inspected to determine extent. Certain pipe must be replaced. Steps must be taken to minimize internal corrosion. .475(b)	X			
208.			Internal corrosion control coupon (or other suit. Means) monitoring (2 per yr/7½ months) .477 <i>Notes: There are no internal corrosion control coupons installed in this line.</i>			X	
209.	Each exposed pipe must be cleaned and coated (see exceptions under .479(c)) .479(a)		X				
210.	Offshore splash zones and soil-to-air interfaces must be coated <i>Notes: The soil-to-air interfaces were coated.</i>		X				
211.	• Coating material must be suitable .479(b)		X				
212.	Coating is not required where operator has proven that corrosion will: .479(c) <i>Notes: The entire line is coated.</i>						
213.	1. Only be a light surface oxide, or .479(c)(1)				X		
214.	2. Not affect safe operation before next scheduled inspection .479(c)(2)				X		
215.	Written atmospheric corrosion control monitoring program. The program must have time frames for completing remedial action. 480-93-110(9) (eff 6/02/05)		X				
216.	Atmospheric corrosion control monitoring (1 per 3 yrs/39 months onshore; 1 per yr/15 months offshore) .481(a)		X				
217.	Special attention required at soil/air interfaces, thermal insulation, under dis-bonded coating, pipe supports, splash zones, deck penetrations, spans over water .481(b)		X				
218.	Protection must be provided if atmospheric corrosion is found (per §192.479) .481(c)		X				
219.	480-93-180(1)	Replacement and required pipe must be coated and cathodically protected (see code for exceptions) .483	X				
220.		Procedures to replace pipe or reduce the MAOP if general corrosion has reduced the wall thickness? .485(a)	X				
221.		Procedures to replace/repair pipe or reduce MAOP if localized corrosion has reduced wall thickness (unless reliable engineering repair method exists)? .485(b)	X				
222.		Procedures to use Rstreng or B-31G to determine remaining wall strength? .485(c) <i>Notes: The operator will repair or replace the pipe section rather than using Rstreng or B-31G.</i>			X		
223.		Remedial measures (distribution lines other than cast iron or ductile iron) .487 <i>Notes: The operator is not a LDC.</i>			X		
224.		Remedial measures (cast iron and ductile iron pipelines) .489 <i>Notes: There are no cast iron and ductile iron pipelines.</i>			X		

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART I - CORROSION CONTROL			S	U	N/A	N/C
225.		Records retained for each cathodic protection test, survey, or inspection required by 49 CFR Subpart I, and chapter 480-93 WAC. 480-93-110 (eff 6/02/05)	X			
226.		Corrosion control maps and record retention (pipeline service life or 5 yrs) .491	X			
WAC 480-93-110 Corrosion Requirements			S	U	N/A	N/C
227.	480-93-180(1)	Casings inspected/tested annually not to exceed fifteen months 480-93-110(5) (eff 6/02/05)	X			
228.		Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods 480-93-110(5)(a) (eff 6/02/05)	X			
229.		Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days 480-93-110(5)(b) (eff 6/02/05)	X			
230.		Casing shorts cleared when practical 480-93-110(5)(c) (eff 6/02/05)	X			
231.	480-93-180(1)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months 480-93-110(5)(d) (eff 6/02/05)	X			
232.		CP Test Equipment and Instruments checked for accuracy/intervals (Mfct Rec or Opr Sched) 480-93-110(3) (eff 6/02/05) <i>Notes: The annual CP surveys will be conducted by Norton Corrosion Limited.</i>	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART J – TEST REQUIREMENTS			S	U	N/A	N/C
233.	480-93-180(1)	Procedures to ensure that the provisions found under 192.503(a) thru (d) for new segments of pipeline, or Return to Service segments of pipeline which have been relocated or replaced are met.	X			
234.		Strength test requirements for steel pipeline to operate at a hoop stress of 30 percent or more of SMYS. 192.505 (a) thru (e)	X			
235.		Test requirements for pipelines to operate at a hoop stress less than 30 percent of SMYS and at or above 100 psig. 192.507 (a) thru (c)	X			
236.		Test requirements for pipelines to operate below 100 psig. 192.509 (a) & (b) <i>Notes: The MAOP for this line is 150 psig.</i>			X	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

237.		Test requirements for service lines. 192.511 (a) thru (c)			X	
238.		Test requirements for plastic pipelines. 192.513 (a) thru (d)			X	
239.		Environmental protection and safety requirements. 192.515 (a) & (b) <i>Notes: Hydrotest water is discharged into the plant's effluent system for treatment.</i>	X			
240.		Records 192.517 Refer also to 480-93-170 (7) (a-h) below.	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

WAC 480-93-170 PRESSURE TEST PROCEDURES			S	U	N/A	N/C
241.	480-93-180(1)	Notification in writing, to the commission, at least two business days prior to any pressure test of a gas pipeline that will have a MAOP that produces a hoop stress of twenty percent or more of the SMYS 480-93-170(1) (eff 6/02/05) <i>Notes: The MAOP for this line is 150 psig with a hoop stress of 5 percent of SMYS.</i>			X	
242.		<ul style="list-style-type: none"> In Class 3 or Class 4 locations, as defined in 49 CFR § 192.5, or within one hundred yards of a building, must be at least eight hours in duration. 480-93-170(1)(a) <i>Notes: This line is in class 1 location.</i>			X	
243.		<ul style="list-style-type: none"> When the test medium is to be a gas or compressible fluid, each operator must notify the appropriate public officials so that adequate public protection can be provided for during the test. 480-93-170(1)(b) <i>Notes: The test medium is water.</i> 			X	
244.		<ul style="list-style-type: none"> In an emergency situation where it is necessary to maintain continuity of service, the requirements of subsection (1) of this section and subsection (1)(a) may be waived by notifying the commission by telephone prior to performing the test. 480-93-170(1)(c) 			X	
245.		Minimum test pressure for any steel service line or main, must be determined by multiplying the intended MAOP by a factor determined in accordance with the table located in 49 CFR § 192.619 (a)(2)(ii). 480-93-170(2) <i>Notes: The test pressure is 1.5 times 150 psig.</i>	X			
246.	480-93-180(1)	Re-testing of service lines broken, pulled, or damaged, resulting in the interruption of gas supply to the customer, must be pressure tested from the point of damage to the service termination valve prior to being placed back into service. 480-93-170(4)			X	
247.		Maintain records of all pressure tests performed for the life of the pipeline and document information as listed under 480-93-170(7) (a-h).	X			
248.		Maintain records of each test where multiple pressure tests are performed on a single installation. 480-93-170(9)			X	
249.		Pressure testing equipment must be maintained, tested for accuracy, or calibrated, in accordance with the manufacturer's recommendations. 480-93-170(10)	X			
250.		<ul style="list-style-type: none"> When there are no manufacturer's recommendations, then tested at an appropriate schedule determined by the operator. 	X			
251.	<ul style="list-style-type: none"> Test equipment must be tagged with the calibration or accuracy check expiration date. 	X				

Documentation Reviewed:		
-------------------------	--	--

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Document Title	Document/Section Number	Revision Date

Comments:

SUBPART K – UPRATING

Notes: This hydrogen line will not be uprated.

			S	U	N/A	N/C
		Provisions for meeting the minimum requirements for increasing maximum allowable operating pressure (uprating) for pipelines.				
252.	480-93-180(1)	General requirements. 192.553 (a) thru (d)			X	
253.		Uprating to a pressure that will produce a hoop stress of 30 % or more of SMYS in steel pipelines. 192.555 (a) thru (e)			X	
254.		Uprating: Steel pipelines to a pressure that will produce a hoop stress less than 30 % of SMYS: (plastic, iron, and ductile iron pipelines.) 192.557 (a) thru (d)			X	

WAC 480-93-155 – UPRATING

Notes: This hydrogen line will not be uprated.

			S	U	N/A	N/C
255.	480-93-180(1)	Notification of uprate and submission of written plan 480-93-155 (1)			X	
256.		Content of written plan... 480-93-155 (1) (a) thru (j)			X	
257.		Uprates must be based on a previous or current pressure test that will substantiate the intended MAOP. 480-93-155 (2)			X	

Documentation Reviewed:

Document Title	Document/Section Number	Revision Date

Comments:

SUBPART L - OPERATIONS

S U N/A N/C

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART L - OPERATIONS			S	U	N/A	N/C
258.	480-93-180(1) / 192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months) 192.605(a)	X			
259.		Availability of construction records, maps, operating history to operating personnel 192.605(b)(3)	X			
260.		Start up and shut down of the pipeline to assure operation within MAOP plus allowable buildup 192.605(b)(5)	X			
261.		Periodic review of personnel work – effectiveness of normal O&M procedures 192.605(b)(8)	X			
262.		Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapors or gas, and making available when needed at the excavation, emergency rescue equipment, including a breathing apparatus and a rescue harness and line 192.605(b)(9)	X			
263.		Routine inspection and testing of pipe-type or bottle-type holders 192.605(b)(10) <i>Notes: There are no pipe-type or bottle-type holders.</i>			X	
264.		Responding promptly to a report of a gas odor inside or near a building, unless the operator's emergency procedures under §192.615(a) (3) specifically apply to these reports. 192.605(b)(11) <i>Notes: The operator is not a LDC.</i>			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART L – OPERATIONS ABNORMAL OPERATING PROCEDURES – TRANSMISSION LINES						
			S	U	N/A	N/C
		Procedures for responding to, investigating, and correcting the cause of: 192.605(c)(1)				
265.	480-93-180(1) / 192.605(a)	• Unintended closure of valves or shut downs 192.605(c)(1)(i) <i>Notes: The valve is located on the hydrogen supplier's line in Weyerhaeuser property.</i>			X	
266.		• Increase or decrease in pressure or flow rate outside of normal operating limits 192.605(c)(1)(ii) <i>Notes: The relief valve set pressure is 70 psig on the supplier's line.</i>			X	
267.		• Loss of communications 192.605(c)(1)(iii) <i>Notes: The operator communicates with hydrogen supplier by land line and by cell phone as a back-up.</i>	X			
268.		• The operation of any safety device 192.605(c)(1)(iv) <i>Notes: The pressure relief valve is located on the hydrogen supplier piping.</i>			X	
269.		• Malfunction of a component, deviation from normal operations or personnel error 192.605(c)(1)(v)	X			
270.		Checking variations from normal operation after abnormal operations ended at sufficient critical locations 192.605(c)(2)	X			
271.		Notifying the responsible operating personnel when notice of an abnormal operation is received 192.605(c)(3)	X			
272.		Periodic review of personnel work – effectiveness of abnormal operation procedures 192.605(c)(4)	X			

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART – L CHANGE in CLASS LOCATION PROCEDURES		S	U	N/A	N/C
273.	480-93-180(1) / 192.605(a) Class location study 192.609 <i>Notes: The class location for the hydrogen line is 1 and it is not likely to change at least in the near future.</i>	X			
274.	Confirmation or revision of MAOP 192.611	X			

SUBPART – L CONTINUING SURVEILLANCE PROCEDURES		S	U	N/A	N/C
275.	192.613 Procedures for surveillance and required actions relating to change in class location, failures, leakage history, corrosion, substantial changes in CP requirements, and unusual operating and maintenance conditions 192.613(a)	X			
276.	192.613 Procedures requiring MAOP to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition 192.613(b) <i>Notes: The pipeline will be shut down in such case.</i>			X	

SUBPART – L DAMAGE PREVENTION PROGRAM PROCEDURES		S	U	N/A	N/C
277.	480-93-180(1) / 192.605(a)	Participation in a qualified one-call program, or if available, a company program that complies with the following:	X		
278.		Identify persons who engage in excavating .614(c)(1)	X		
279.		Provide notification to the public in the One Call area .614(c)(2)	X		
280.		Provide means for receiving and recording notifications of pending excavations .614(c)(3)	X		
281.		Provide notification of pending excavations to the members .614(c)(4)	X		
282.		Provide means of temporary marking for the pipeline in the vicinity of the excavations .614(c)(5)	X		
283.		Provides for follow-up inspection of the pipeline where there is reason to believe the pipeline could be damaged .614(c)(6)	X		
284.		Inspection must be done to verify integrity of the pipeline .614(c)(6)(i)	X		
285.		After blasting, a leak survey must be conducted as part of the inspection by the operator .614(c)(6)(ii) <i>Notes: No blasting is expected adjacent to the pipeline.</i>			X

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

--

SUBPART – L EMERGENCY PROCEDURES			S	U	N/A	N/C
286.	480-93-180(1) / 192.615	Receiving, identifying, and classifying notices of events which require immediate response by the operator .615(a)(1)	X			
287.		Establish and maintain communication with appropriate public officials regarding possible emergency .615(a)(2)	X			
288.		Prompt response to each of the following emergencies: .615(a)(3)	X			
289.		(i) Gas detected-inside a building <i>Notes: The operator is not a LDC.</i>			X	
290.		(ii) Fire located near a pipeline	X			
291.		(iii) Explosion near a pipeline	X			
292.		(iv) Natural disaster	X			
293.		Availability of personnel, equipment, instruments, tools, and material required at the scene of an emergency .615(a)(4)	X			
294.		Actions directed towards protecting people first, then property .615(a)(5)	X			
295.		Emergency shutdown or pressure reduction to minimize hazards to life or property .615(a)(6)	X			
296.	480-93-180(1) / 192.615	Making safe any actual or potential hazard to life or property .615(a)(7)	X			
297.		Notifying appropriate public officials required at the emergency scene and coordinating planned and actual responses with these officials .615(a)(8)	X			
298.		Instructions for restoring service outages after the emergency has been rendered safe .615(a)(9) <i>Notes: The operator is not a LDC.</i>			X	
299.		Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action .615(b)(1)	X			
300.		Training appropriate employees as to the requirements of the emergency plan and verifying effectiveness of training .615(b)(2)	X			
301.		Reviewing activities following emergencies to determine if the procedures were effective .615(b)(3)	X			
302.	Establish and maintain liaison with appropriate public officials, such that both the operator and public officials are aware of each other's resources and capabilities in dealing with gas emergencies .615(c) <i>Notes: The Plant Manager is a member of the Local Emergency Planning Committee (LEPC).</i>	X				

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART – L PUBLIC AWARENESS PROCEDURES			S	U	N/A	N/C
303.	480-93-180(1) / 192.605(a)	Public Awareness Program in accordance with API RP 1162 [HQ clearinghouse review after June 20, 2006] Amdt 192-99 pub. 5/19/05, eff. 06/20/05 .616(a)	X			
304.		The program conducted in English and in other languages commonly understood by a significant number and concentration of the non-English speaking population in the operator's area. .616(g)	X			

SUBPART – L FAILURE INVESTIGATION PROCEDURES			S	U	N/A	N/C
305.	480-93-180(1) / 192.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART – L MAOP PROCEDURES			S	U	N/A	N/C									
306.	480-93-180(1) / 192.605(a)	Establishing MAOP so that it is commensurate with the class location .619	X												
307.		MAOP cannot exceed the lowest of the following:													
308.		• Design pressure of the weakest element; .619(a)(1)	X												
309.		• Test pressure divided by applicable factor .619(a)(2) <i>Notes: The test pressure was 225 psig and the MAOP is 150 psig. The factor is 1.5.</i>	X												
310.	480-93-180(1) / 192.605(a)	• The highest actual operating pressure to which the segment of line was subjected during the 5 years preceding the applicable date in second column, unless the segment was tested according to .619(a)(2) after the applicable date in the third column or the segment was updated according to subpart K. .619(a)(3)													
<table border="1"> <thead> <tr> <th>Pipeline segment</th> <th>Pressure date</th> <th>Test date</th> </tr> </thead> <tbody> <tr> <td>-- Onshore transmission line that was a gathering line not subject to this part before March 15, 2006.</td> <td>March 15, 2006, or date line becomes subject to this part, whichever is later.</td> <td>5 years preceding applicable date in second column.</td> </tr> <tr> <td>All other pipelines.</td> <td>July 1, 1970.</td> <td>July 1, 1965.</td> </tr> </tbody> </table>		Pipeline segment	Pressure date	Test date	-- Onshore transmission line that was a gathering line not subject to this part before March 15, 2006.	March 15, 2006, or date line becomes subject to this part, whichever is later.	5 years preceding applicable date in second column.	All other pipelines.	July 1, 1970.	July 1, 1965.			X		
Pipeline segment		Pressure date	Test date												
-- Onshore transmission line that was a gathering line not subject to this part before March 15, 2006.	March 15, 2006, or date line becomes subject to this part, whichever is later.	5 years preceding applicable date in second column.													
All other pipelines.	July 1, 1970.	July 1, 1965.													
311.	480-93-180(1) / 192.605(a)	• Maximum safe pressure determined by operator. .619(a)(4)			X										
312.		• Overpressure protective devices must be installed if .619(a)(4) is applicable .619(b)			X										
313.		• The requirements on pressure restrictions in this section do not apply in the following instance. An operator may operate a segment of pipeline found to be in satisfactory condition, considering its operating and maintenance history, at the highest actual operating pressure to which the segment was subjected during the 5 years preceding the applicable date in the second column of the table in paragraph (a)(3) of this section. An operator must still comply with § 192.611 .619(c)			X										
314.		MAOP - High Pressure Distribution Systems .621 <i>Notes: The operator is not a LDC.</i>			X										
315.	Max./Min. Allowable Operating Pressure - Low Pressure Distribution Systems .623 <i>Notes: The operator is not a LDC.</i>			X											

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

WAC 480-93-015 ODORIZATION PROCEDURES			S	U	N/A	N/C
<i>Notes: The hydrogen gas is not odorized.</i>						
316.		Odorization of gas at the proper concentration in air 480-93-015 (1)			X	
317.	480-93-180(1)	Use of odorant testing instrumentation/Monthly testing interval 480-93-015 (2) (eff 6/02/05)			X	
318.		Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) 480-93-015 (3) (eff 6/02/05)			X	
319.	480-93-180(1)	Records maintained for usage, odorant tests performed and equipment calibration (5yrs) 480-93-015(4) (eff 6/02/05)			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART – L TAPPING PIPELINES UNDER PRESSURE PROCEDURES			S	U	N/A	N/C
320.	480-93-180(1)	Hot taps must be made by a qualified crew NDT testing is suggested prior to tapping the pipe. Reference API RP 2201 for Best Practices. .627				
		<i>Notes: The operator has the flexibility to shut the line down without shutting down the plant. It can make up the lost hydrogen supply by using more natural gas through the 4" natural gas supply line from Weyerhaeuser.</i>			X	

Washington Utilities and Transportation Commission Standard Inspection Report for Intrastate Gas Systems Operations and Maintenance Procedures and Plan Review

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.

SUBPART – L PIPELINE PURGING PROCEDURES			S	U	N/A	N/C
321.	480-93-180(1)	Purging of pipelines must be done to prevent entrapment of an explosive mixture in the pipeline .629	X			
322.	480-93-180(1)	(a) Lines containing air must be properly purged.	X			
323.	480-93-180(1)	(b) Lines containing gas must be properly purged	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART – M MAINTENANCE PROCEDURES			S	U	N/A	N/C
324.	480-93-180(1)	Each segment of pipeline that becomes unsafe must be replaced, repaired, or removed from Service .703(b)	X			
325.	480-93-180(1)	Hazardous leaks must be repaired promptly .703(c)	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART - M TRANSMISSION LINES - PATROLLING & LEAKAGE SURVEY PROCEDURES			S	U	N/A	N/C												
326.	480-93-180(1) /192.605(b)	Patrolling ROW conditions .705(a)																
327.		Maximum interval between patrols of lines: .705 (b)																
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Class Location</th> <th style="width: 25%;">At Highway and Railroad Crossings</th> <th style="width: 25%;">At All Other Places</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 and 2</td> <td style="text-align: center;">2/yr (7½ months)</td> <td style="text-align: center;">1/yr (15 months)</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">4/yr (4½ months)</td> <td style="text-align: center;">2/yr (7½ months)</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">4/yr (4½ months)</td> <td style="text-align: center;">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)	X			
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)																
328.	Leakage surveys – 1 year/15 months .706	X																
329.	Leak detector equipment survey requirements for lines transporting un-odorized gas (N/A - All pipelines in WA require odorization)																	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

WAC 480-93-185 GAS LEAK INVESTIGATION			S	U	N/A	N/C
		Procedures for the prompt investigation of any notification of a leak, explosion, or fire, which may involve gas pipelines or other gas facilities.				
330.	480-93-180(1)	<ul style="list-style-type: none"> received from any outside source such as a police or fire department, other utility, contractor, customer, or the general public 480-93-185(1) 	X			
331.	480-93-180(1)	<ul style="list-style-type: none"> Grade leak in accordance with WAC 480-93-186, and take appropriate action 480-93-185(1) <i>Notes: The leak will be repaired immediately by the operator.</i> 			X	
332.	480-93-180(1)	<ul style="list-style-type: none"> retain the leak investigation record for the life of the pipeline. 480-93-185(1) 	X			
333.	480-93-180(1)	Prevent removal of any suspected gas facility until the commission or the lead investigative authority has designated the release of the gas facility and keep the facility intact until directed by the lead investigative authority 480-93-185(2)	X			
334.	480-93-180(1)	Taking appropriate action when leak indications originating from a foreign source. Notification requirements. 480-93-185(3)	X			

WAC 480-93-186 LEAK EVALUATION			S	U	N/A	N/C
335.	480-93-180(1)	Grade leaks as defined in WAC 480-93-18601 to establish the leak repair priority. 480-93-186(1) <i>Notes: The leak will be repaired immediately by the operator.</i>			X	
336.	480-93-180(1)	procedure for evaluating the concentration and extent of gas leakage 480-93-186(2) <i>Notes: The leak will be repaired immediately by the operator.</i>			X	
337.	480-93-180(1)	Use of a combustible gas indicator to check the perimeter of a leak area. Follow-up inspection on repaired leaks no later than thirty days following repair. 480-93-186(3) <i>Notes: The operator will use cut-out for repair (no leak clamps).</i>			X	
338.	480-93-180(1)	Grade 1 and 2 leaks downgraded once to Grade 3 leak without a physical repair. After downgrade, repair must be made not to exceed twenty-one months 480-93-186(4) <i>Notes: The leak will be repaired immediately by the operator.</i>			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

WAC480-93187 GAS LEAK RECORDS		S	U	N/A	N/C
	Gas leak records must contain, at a minimum, the criteria outlined in 480-93-187 (1-13)				
339.	480-93-180(1) 1) Date and time the leak was detected, investigated, reported, and repaired, and the name of the employee(s) conducting the investigation; 2) Location of the leak (sufficiently described to allow ready location by other qualified personnel); 3) Leak grade; 4) Pipeline classification (e.g., distribution, transmission, service); 5) If reported by an outside party, the name and address of the reporting party; 6) Component that leaked (e.g., pipe, tee, flange, valve); 7) Size and material that leaked (e.g., steel, plastic, cast iron); 8) Pipe condition; 9) Type of repair; 10) Leak cause; 11) Date pipe installed (if known); 12) Magnitude and location of CGI readings left; and 13) Unique identification numbers (such as serial numbers) of leak detection equipment.	X			

Document Title	Document/Section Number	Revision Date

Comments:

WAC 480-93-188 GAS LEAK SURVEYS		S	U	N/A	N/C
340.	gas leak surveys using a gas detection instrument covering areas listed in 480-93-188(1)(a-e)	X			
341.	Gas detection instruments tested for accuracy/intervals (Mfct rec or monthly not to exceed 45 days) 480-93-188(2) eff 6/2/05	X			
342.	Surveys conducted according to the minimum frequencies outlined under 480-93-188(3)(a-d)	X			
343.	480-93-180(1) Surveys conducted under the following circumstances outlined under 480-93-188(4)(a-e)	X			
344.	Survey records must be kept for a minimum of five years and contain information required under 480-93-188(5)(a-f)	X			
345.	Self audits as necessary, but not to exceed three years between audits and meet the criteria outlined under 480-93-188(6)(a-e)	X			

Document Title	Document/Section Number	Revision Date

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Comments:

PIPELINE MARKERS PROCEDURES			S	U	N/A	N/C
346.	480-93-180(1)	Placement of markers - railroad, road, irrigation and drainage ditch crossings... 480-93-124 (1) (eff 6/02/05)	X			
347.		Placement of markers - Separation/Other locations... 480-93-124 (3) (eff 6/02/05) & 192.707			X	
348.		Installed at each end of bridges or other spans / Inspected 1/YR (15 Months) 480-93-124 (3)			X	
349.		Markers reported missing or damaged replaced within 45 days? 480-93-124(4) (eff 6/02/05)	X			
350.		Surveys of pipeline markers – Not to exceed 5/YR Records 10/Yrs minimum 480-93-124(5) (eff 6/02/05)	X			
351.		Maintain maps, drawings or other records indicating class locations and other areas where pipeline markers are required 480-93-124(6) (eff 6/02/05)	X			

Document Title	Document/Section Number	Revision Date

Comments:

SUBPART - M TRANSMISSION RECORD KEEPING PROCEDURES			S	U	N/A	N/C
352.	480-93-180(1) / 192.605 (b)	Records must be maintained... .709	X			
353.		(a) Repairs to the pipe – life of system	X			
354.		(b) Repairs to “other than pipe” – 5 years	X			
355.		(c) Operation (Sub L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next one	X			

SUBPART - M TRANSMISSION LINE FIELD REPAIR PROCEDURES			S	U	N/A	N/C
Imperfections and Damages						
356.	480-93-180(1) / 192.605 (b)	Repairs of imperfections and damages on pipelines operating above 40% SMYS <i>Notes: The MAOP of 150 psig produces a hoop stress of 1775 psig. It is 5% SMYS (35,000 psig).</i>				
357.		• Cut out a cylindrical piece of pipe and replace with pipe of ≥ design strength .713(a)(1)			X	
358.		• Use of a reliable engineering method .713(a)(2)			X	
359.		Reduce operating pressure to a safe level during the repair .713(b) <i>Notes: The line will be shut down during the repair.</i>			X	
Permanent Field Repair of Welds						
360.	480-93-180(1) / 192.605 (b)	Welds found to be unacceptable under §192.241(c) must be repaired by: .715				
361.		(a) Taking the line out of service and repairing in accordance with §192.245:	X			
362.		• Cracks longer than 8% of the weld length (except offshore) must be removed	X			

Washington Utilities and Transportation Commission Standard Inspection Report for Intrastate Gas Systems Operations and Maintenance Procedures and Plan Review

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.

SUBPART - M		S	U	N/A	N/C
TRANSMISSION LINE FIELD REPAIR PROCEDURES					
363.	<ul style="list-style-type: none"> For each weld that is repaired, the defect must be removed down to clean metal and the pipe preheated if conditions demand it 	X			
364.	<ul style="list-style-type: none"> Repairs must be inspected to ensure acceptability 	X			
365.	<ul style="list-style-type: none"> Crack repairs or defect repairs in previously repaired areas must be done in accordance with qualified written welding procedures <i>Notes: The defects will be removed instead of being repaired.</i> 			X	
366.	(b) If the line remains in service, the weld may be repaired in accordance with §192.245 if:				
367.	<ul style="list-style-type: none"> The weld is not leaking (1) <i>Notes: The line will be shut down for repair.</i> 			X	
368.	<ul style="list-style-type: none"> The pressure is reduced to produce a stress that is 20% of SMYS or less (2) 			X	
369.	<ul style="list-style-type: none"> Grinding is limited so that 1/8 inch of pipe weld remains (3) 			X	
370.	<ul style="list-style-type: none"> If the weld cannot be repaired in accordance with (a) or (b) above, a full encirclement welded split sleeve must be installed (c) 			X	
Permanent Field Repair of Leaks					
371.	Field repairs of leaks must be made as follows: .717				
372.	<ul style="list-style-type: none"> Replace by cutting out a cylinder and replace with pipe similar or of greater design (a) 	X			
373.	<ul style="list-style-type: none"> Install a full encirclement welded split sleeve of an appropriate design unless the pipe is joined by mechanical couplings and operates at less than 40% SMYS (b)(1) <i>Notes: The operator will not use sleeve for repairs. The only acceptable repair is by cut out.</i> 			X	
374.	<ul style="list-style-type: none"> A leak due to a corrosion pit may be repaired by installing a bolt on leak clamp (b)(2) <i>Notes: The operator will not use clamps for repairs. The only acceptable repair is by cut out.</i> 			X	
375.	<ul style="list-style-type: none"> For a corrosion pit leak, if a pipe is not more than 40,000 psi SMYS, the pits may be repaired by fillet welding a steel plate. The plate must have rounded corners and the same thickness or greater than the pipe, and not more than 1/2D of the pipe size (b)(3) <i>Notes: The only acceptable repair method is by cutting out the defect.</i> 			X	
376.	<ul style="list-style-type: none"> Submerged offshore pipe or pipe in inland navigable waterways may be repaired with a mechanically applied full encirclement split sleeve of appropriate design (b)(4) <i>Notes: The hydrogen line is onshore and not crossing inland navigable waterways.</i> 			X	
377.	<ul style="list-style-type: none"> Apply reliable engineering method (b)(5) <i>Notes: The line will be cut out and replaced.</i> 			X	
Testing of Repairs					
378.	Replacement pipe must be pressure tested to meet the requirements of a new pipeline .719(a)				
379.	(b) For lines of 6-inch diameter or larger and that operate at 20% of more of SMYS, the repair must be nondestructively tested in accordance with §192.241(c) <i>Notes: The line operates at 5% SMYS.</i>			X	

Document Title	Document/Section Number	Revision Date
Comments:		

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART - M DISTRIBUTION SYSTEM PATROLLING & LEAKAGE SURVEY PROCEDURES			S	U	N/A	N/C
<i>Notes: The operator is not a LDC.</i>						
380.	480-93-180(1) / 192.605 (b)	Frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage (i.e., consider cast iron, weather conditions, known slip areas, etc.) .721(a)			X	
381.		Patrolling surveys are required in business districts at intervals not exceeding 4½ months, but at least four times each calendar year .721 (b)(1)			X	
382.		Patrolling surveys are required outside business districts at intervals not exceeding 7½ months, but at least twice each calendar year .721 (b)(2)			X	
383.		Periodic leak surveys determined by the nature of the operations and conditions. .723 (a)& (b)			X	
384.		In business districts as specified, 1/yr (15 months) .723(b)(1)			X	
385.		Outside of business districts as specified, once every 5 calendar years/63 mos.; for unprotected lines subject to .465(e) where electrical surveys are impractical, once every 3 years/39 mos. .723 (b)(2)			X	

SUBPART - M TEST REQUIREMENTS FOR REINSTATING SERVICE LINES			S	U	N/A	N/C
<i>Notes: The operator is not a LDC.</i>						
386.	480-93-180(1) / 192.605 (b)	Except for .725(b), disconnected service lines must be tested the same as a new service line. .725(a)			X	
387.		Service lines that are temporarily disconnected must be tested from the point of disconnection, the same as a new service line, before reconnect. See code for exception to this. .725(b)			X	

Document Title	Document/Section Number	Revision Date

Comments:

SUBPART - M ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES			S	U	N/A	N/C
388.	480-93-180(1) / 192.605 (b)	Operator must disconnect both ends, purge, and seal each end before abandonment or a period of deactivation where the pipeline is not being maintained. Offshore abandoned pipelines must be filled with water or an inert material, with the ends sealed .727(b)	X			
389.		Except for service lines, each inactive pipeline that is not being maintained under Part 192 must be disconnected from all gas sources/supplies, purged, and sealed at each end. .727 (c)	X			
390.		Whenever service to a customer is discontinued, do the procedures indicate one of the following: .727(d)				
391.		The valve that is closed to prevent the flow of gas to the customer must be provided with a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator .727(d) (1)			X	
392.		A mechanical device or fitting that will prevent the flow of gas must be installed in the service line or in the meter assembly .727(d)(2)			X	
393.		The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed .727(d) (3)			X	
394.		If air is used for purging, the operator shall ensure that a combustible mixture is not present after purging .727 (e)			X	
395.		Operator must file reports upon abandoning underwater facilities crossing navigable waterways, including offshore facilities. .727(g)			X	

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Document Title	Document/Section Number	Revision Date

Comments:

SUBPART - M PRESSURE LIMITING and REGULATING STATION PROCEDURES			S	U	N/A	N/C						
<i>Notes: There are no pressure limiting stations, relief devices, and pressure regulating stations on the jurisdictional section of this pipeline.</i>												
396.	480-93-180(1) / 192.605 (b)	Inspection and testing procedures for pressure limiting stations, relief devices, pressure regulating stations and equipment (1 per yr/15 months) .739(a)			X							
397.		In good mechanical condition .739(a) (1)			X							
398.		Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed .739(a)(2)			X							
399.		Set to control or relieve at correct pressures consistent with .201(a), except for .739(b). .739(a) (3)			X							
400.		Properly installed and protected from dirt, liquids, other conditions that may prevent proper oper. .739(a)(4)			X							
401.		For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi gage or more739(b)										
402.	480-93-180(1) / 192.605 (b)	<table border="1"> <tr> <td>If MAOP produces hoop stress that</td> <td>Then the pressure limit is:</td> </tr> <tr> <td>Is greater than 72 percent of SMYS</td> <td>MAOP plus 4 percent</td> </tr> <tr> <td>Is unknown as a percent of SMYS</td> <td>A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP</td> </tr> </table>	If MAOP produces hoop stress that	Then the pressure limit is:	Is greater than 72 percent of SMYS	MAOP plus 4 percent	Is unknown as a percent of SMYS	A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP			X	
If MAOP produces hoop stress that		Then the pressure limit is:										
Is greater than 72 percent of SMYS		MAOP plus 4 percent										
Is unknown as a percent of SMYS	A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP											
403.	480-93-180(1) / 192.605 (b)	Pressure limiting and regulating stations: Telemetering or recording gages 192.741(a) thru (c)			X							
404.		Testing of Relief Devices .743 (a) thru (c)			X							

Document Title	Document/Section Number	Revision Date

Comments:

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART - M			S	U	N/A	N/C
VALVE AND VAULT MAINTENANCE PROCEDURES						
<i>Notes: There are no valves and vaults for this pipeline.</i>						
405.	480-93-180(1) / 192.605 (b)	Written valve maintenance program detailing the valve selection process, inspection, maintenance, and operating procedures. The written program must detail which valves will be maintained under 49 CFR § 192.745, 49 CFR § 192.747, and 480-93-100. 480-93-100(1) (eff 06/02/05)			X	
Transmission Valves						
406.	480-93-180(1) / 192.605 (b)	Inspect and partially operate each transmission valve that might be required during an emergency (1 per yr/15 months) .745(a)			X	
407.		Prompt remedial action required, or designate alternative valve .745(b)			X	
Distribution Valves						
408.	480-93-180(1) / 192.605 (b)	Check and service each valve that may be necessary for the safe operation of a distribution system (1 per yr/15 months) .747(a)			X	
409.		Prompt remedial action required, or designate alternative valve .747(b)			X	
Service Valves						
410.	480-93-180(1) / 192.605 (b)	Written service valve installation and maintenance program detailing the valve selection process, inspection, maintenance, and operating procedures. Does the program consider the criteria listed under 480-93-100(2)(a-f)? (eff. 06/02/05)			X	
411.		Service valve maintenance (1 per yr/15 months) 480-93-100(3) (eff. 06/02/05)			X	
412.		Service valve installation and maintenance program fully implemented by 6/01/07? 480-93-100(4) (eff. 06/02/05)			X	
Vaults						
413.	480-93-180(1) / 192.605 (b)	Inspection of vaults greater than 200 cubic feet (1 per yr/15 months) .749			X	

SUBPART - M			S	U	N/A	N/C
PREVENTION of ACCIDENTAL IGNITION PROCEDURES						
414.	480-93-180(1) / 192.605 (b)	Reduce the hazard of fire or explosion by: 192.751 (a) thru (c)	X			

Document Title	Document/Section Number	Revision Date

Comments:

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

SUBPART - M CAULKED BELL AND SPIGOT JOINTS PROCEDURES			S	U	N/A	N/C
<i>Notes: The operator only uses welding for the pipeline.</i>						
415.		Cast-iron caulked bell and spigot joint repair: .753				
416.	480-93-180(1) / 192.605 (b)	<ul style="list-style-type: none"> When subject to more than 25 psig, sealed with mechanical clamp, or sealed with material/device which does not reduce flexibility, permanently bonds, and seals and bonds as prescribed in §192.753(a)(2)(iii) .753(a) 			X	
417.		<ul style="list-style-type: none"> When subject to 25 psig or less, joints, when exposed for any reason, must be sealed by means other than caulking .753(b) 			X	

SUBPART - M PROTECTING CAST-IRON PIPELINE PROCEDURES			S	U	N/A	N/C
<i>Notes: The operator does not have cast-iron pipe.</i>						
418.	480-93-180(1) / 192.605 (b)	Operator has knowledge that the support for a segment of a buried cast-iron pipeline is disturbed must provide protection. .755				
419.		<ul style="list-style-type: none"> Vibrations from heavy construction equipment, trains, trucks, buses or blasting? .755(a) 			X	
420.		<ul style="list-style-type: none"> Impact forces by vehicles? .755(b) 			X	
421.		<ul style="list-style-type: none"> Earth movement? .755(c) 			X	
422.		<ul style="list-style-type: none"> Other foreseeable outside forces which might subject the segment of pipeline to a bending stress .755(d) 			X	
423.		Provide permanent protection for the disturbed section as soon as feasible .755(e)			X	

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

Comments:

SUBPART N — QUALIFICATION of PIPELINE PERSONNEL			S	U	N/A	N/C
Date of last UTC staff OQ plan review 1/26/2009						
424.	192.801 192.809	Any revisions to plan since last review? Yes No X If yes, review revisions made.	X			
425.	480-93-180(1)	Have "New Construction" activities been identified and included in the operator's covered task list? 480-93-013 (eff 6/02/05)	X			

Documentation Reviewed:		
Document Title	Document/Section Number	Revision Date

**Washington Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
Operations and Maintenance Procedures and Plan Review**

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.

Comments:

FILING REQUIREMENTS for DESIGN, SPECIFICATION, and CONSTRUCTION			S	U	N/A	N/C
<i>Notes: The operator will have no new construction for this pipeline.</i>						
426.	480-93-180(1)	Submittal of construction procedures, designs, and specifications used for each pipeline facility prior to operating the pipeline. All procedures must detail the acceptable types of materials, fittings, and components for the different types of facilities in the operator's system. 480-93-017(1)			X	
427.	480-93-180(1)	Construction plans not conforming with a gas company's existing and accepted construction procedures, designs, and specifications on file with the commission, submitted to the commission for review at least forty-five days prior to the initiation of construction activity. 480-93-017(2)			X	

MAPS, DRAWINGS, and RECORDS of GAS FACILITIES			S	U	N/A	N/C
428.	480-93-180(1)	Records updated no later than 6 months from completion of construction activity and made available to appropriate personnel. 480-93-018(3)	X			

PROXIMITY CONSIDERATIONS			S	U	N/A	N/C
<i>Notes: The MAOP of this line is 150 psig.</i>						
429.	480-93-180(1)	Each operator must submit a written request and receive commission approval prior to: 480-93-20(1)			X	
		Operating any gas pipeline facility at greater than five hundred psig that is within five hundred feet of any of the following places: 480-93-20 (1)(a)				
430.	480-93-180(1)	<ul style="list-style-type: none"> A building that is in existence or under construction prior to the date authorization for construction is filed with the commission, and that is not owned and used by the petitioning operator in its gas operations; or : 480-93-20 (1)(a)(i) 			X	
431.	480-93-180(1)	<ul style="list-style-type: none"> A high occupancy structure or area that is in existence or under construction prior to the date authorization for construction is filed with the commission; or : 480-93-20(1)(a)(ii) 			X	
432.	480-93-180(1)	<ul style="list-style-type: none"> A public highway, as defined in RCW 81.80.010(3). 480-93-20 (1)(a)(iii) 			X	
433.	480-93-180(1)	Operating any gas pipeline facility at greater than two hundred fifty psig, up to and including five hundred psig, that is operated within one hundred feet of either of the following places: 480-93-20(1)(b)	S	U	N/A	N/C
434.	480-93-180(1)	<ul style="list-style-type: none"> A building that is in existence or under construction prior to the date authorization for construction is filed with the commission, and that is not owned and used by the petitioning operator in its gas operations; or : 480-93-20(1)(b)(i) 			X	
435.	480-93-180(1)	<ul style="list-style-type: none"> A high occupancy structure or area that is in existence or under construction prior to the date authorization for construction is filed with the commission. : 480-93-20(1)(b)(ii) 			X	
436.	480-93-180(1)	For proposed new construction, document evidence to demonstrate that it is not practical to select an alternate route that will avoid areas or which demonstrates that the operator has considered future development of the area and has designed their pipeline facilities accordingly. 480-93-20(2)			X	