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	**090078**		
Inspector Name & Submit Date	Patti Johnson, 4-28-2009		
Sr. Eng Review/Date	D. Lykken 5/1/09		
Operator Information			
Name of Operator:	**Georgia Pacific Consumer Products (Camas) LLC**	**OP ID #:**	**31096**
Name of Unit(s):	**GP Camas Mill**		
Records Location:	**GP Camas Mill**		
Date(s) of Last Review:	**December 14, 2005**	**Inspection Date**	**April 6, 2009 through April 8, 2009**

Inspection Summary:

The 2009 Camas incident was a partial valve closure on William's line, but the valve closure effected GP. Manual Chapter 2 was revised a result of this incident. A copy of manual Emergency section is in clock room. The check list is on page 26 and is for all emergencies. There is a special 3-1-09 letter updating the manual prior to training. The gas line is going from operations Dept to maintenance Dept because that is more practical and efficient operation.

All rules and regulations that do not apply (are not deemed applicable) to GP Camas, are listed in GP Camas Mill Operations, Maintenance and Procedures Manual Policy Statements. It is located in the O&M just before Section 1.

AT GP all covered tasks procedures are in the OQ, which is Section 6 in the O&M

HQ Address:		**System/Unit Name & Address:**	
Georgia Pacific Consumer Products (Camas) LLC **401 NE Adams St.** **Camas, WA 986087**		**N/A**	
Co. Official:	**Steven Young**	**Phone No.:**	**360 834 8322**
Phone No.:	**360 834 8322**	**Fax No.:**	
Fax No.:		**Emergency Phone No.:**	**360 834 8414**
Emergency Phone No.:	**360 834 8414**		

Persons Interviewed	Title	Phone No.
Roy Rogers	**Consultant**	**503 860 7435**
Steven Young	**Environment Manager**	**360 834 8322**
Greg Collins	**Optimizer**	**360 827 2155**

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GAS SYSTEM OPERATIONS		
Gas Supplier: Williams		
Operating Pressure(s):	**MAOP (Within last year)**	**Actual Operating Pressure** (At time of Inspection)
Feeder: **250**	**250**	**240**
Town:		
Other:		
Does the operator have any transmission pipelines? **Yes**		

Pipe Specifications:			
Year Installed (Range)	**1993**	Pipe Diameters (Range)	**10"**
Material Type	**Steel**	Line Pipe Specification Used	**API 5L**
Mileage	**1.6**	SMYS %	**10.4%**

49 CFR PART 191 & CHAPTER 480-93 WAC

		REPORTING PROCEDURES	S	U	N/A	N/C
1.	480-93-180 (1)	Telephonic reports to **NRC (800-424-8802)** 191.5 **Section 2.6.3 All corrected and verified in new manual** • **192.5 Wrong name of Office of Pipeline Safety, it is PHMSA not RSPA-corrected** • **192.7Wrong address of PHMSA-corrected** • **Anne has blackberry not pager - corrected** • **Anne blackberry number is incorrect, correct number is 360-870-4927 (see WUTC web site) corrected** • **Anne office phone number is wrong it is 664-1254-corrected** • **Dave has blackberry you only have office number-corrected** • **Dave blackberry number is 481-3709-corrected** • **191.5 requires 5 items missing # of fatalities or injuries-to be added**	x			
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)4512 Section **2.6.1.2** • **PV page 17 left most of 480-93-200(4)(c) missing wording** • **PV page 17 missed 480-93-200(5) not in manual states "Each gas pipeline company must submit a supplemental report if required information becomes available after the thirty-day report is submitted." Ok will make (5)** • **PV page 17 (5), is 480-93-200(6) is five days not forty five days, GP Will change**				
3.		(a) Results in a fatality or personal injury requiring hospitalization; **480-93-200 Section 2.6.1.2.a**	x			
4.		(b) Results in damage to the property of the operator and others of a combined total exceeding fifty thousand dollars; **Section 2.6.1.2.b this reference ok pg 15** • **PV page 15 UTC total is $50,000 NOT $5,000, it used to be 480-93-200 (1)(b) GP corrected in new manual**	x			
5.		(c) Results in the evacuation of a building, or high occupancy structures or areas **Section 2.6.1.2.c**	x			
6.		(d) Results in the unintentional ignition of gas; **Section 2.6.1.2.d**	x			
7.		(e) Results in the unscheduled interruption of service furnished by any operator to twenty-five or more distribution customers; **Section 2.6.1.2.e, although this is NA to Camas**	x			

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		REPORTING PROCEDURES	S	U	N/A	N/C
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; **Section 2.6.1.2.f William's takes care of relief system and has double relief. GP has no regulations equipment.**	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 **Section 2.6.1.2.g**	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. **Section 2.6.1.2.h Ok to have in here but this has been taken out of WAC? 04-27-09 GP removed this from new O&M**	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) **2.6.1.2.2 &** **2.6.3 – PV phone numbers wrong, address of DOT wrong – 4-27 corrected and verified**	x			
12.		(a) The uncontrolled release of gas for more than two hours; **Section 2.6.1.2.2a**	x			
13.	480-93-180 (1)	b) The taking of a high pressure supply or transmission pipeline or a major distribution supply pipeline out of service; **Section 2.6.1.2.2b**	x			
14.		(c) A pipeline or system operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or **Section 2.6.1.2.2c**	x			
15.		(d) A pipeline or system pressure exceeding the MAOP. **Section 2.6.1.2.2d**	x			
16.		Annual reports; (DOT Form F 7100.1) 191.11 191.11 *(a) Except as provided in paragraph (b) of this section, each operator of a distribution pipeline system shall submit an annual report for that system on Department of Transportation Form RSPA F 7100.1-1. This report must be submitted each year, not later than March 15, for the preceding calendar year.* **Section 3.8.3**	x			
17.		30 day written incident (federal) reports; (DOT Form F 7100.2) 191.15(a) **Section 2.6.1 P2**	x			
18.		Supplemental incident reports 191.15(b) **Section 2.6.2.4.m –something wrong page 18 is blank – formatting problem corrected (m changed to (6)) and verified.**	x			
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) **Section 2.6.1.2 (4)**	x			
20.	480-93-180 (1)	Written report within 45 days of receiving the failure analysis of any incident or hazardous condition due to construction defects or material failure 480-93-200(5) (eff 6/02/05) **Section 2.6.2.5 - no 2.6.2.4.m something wrong page 18 is blank** **Will be changed to 5 days on pages 17 -- 22-4-27-2009 verified.**	x			
21.		Annual Report (DOT Form PHMSA F-7100.2-1) 191.17(a) **Section 3.8.3**	x			
		Annual Reports filed no later than March 15 for the proceeding calendar year 480-93-200(6) (eff 6/02/05) **Section 3.8.3 OK**				
22.		• 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) • **Section 2.6.3 bottom**	x			

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		REPORTING PROCEDURES	S	U	N/A	N/C
23.	480-93-180 (1)	• Annual Damage Prevention Statistics Report (eff 6/02/05) including the following; 480-93-200(6)(b)(i) thru (iii) (eff 6/02/05) • **Section 3.7.1** • Each gas pipeline company must file with the commission the following annual reports no later than March 15 for the preceding calendar year: • (b) A report titled, "Damage Prevention Statistics." The Damage Prevention Statistics report must include in detail the following information: • (i) Number of gas-related one-call locate requests completed in the field; OK • (ii) Number of third-party damages incurred; and OK • (iii) Cause of damage, where cause of damage is classified as one of the following: OK • (A) Inaccurate locate; OK • (B) Failure to use reasonable care; OK • (C) Excavated prior to a locate being conducted; or OK • (D) Excavator failed to call for a locate. OK	x			
24.		Annual report on construction defects or material failures 480-93-200(6)(c) (eff 6/02/05) • (c) A report detailing all construction defects and material failures resulting in leakage. Each gas pipeline company must categorize the different types of construction defects and material failures anticipated for their system. The report must include the following: (i) Types and numbers of construction defects; and (ii) Types and numbers of material failures. • **Section 3.8.20**	x			
25.		Providing updated emergency contact information to the Commission and appropriate officials 480-93-200(7) (eff 6/02/05) *(8) Each gas pipeline company must file with the commission, and with appropriate officials of all municipalities where gas pipeline companies have facilities, the names, addresses, and telephone numbers of the responsible officials of the gas pipeline company who may be contacted in the event of an emergency. In the event of any changes in such personnel, the gas pipeline company must immediately notify the commission and municipalities.* **Section 3.8.21 and 2.3.1 (page 5) underlined**	x			
26.		Providing daily construction and repair activities reports 480-93-200(8) (eff 6/02/05) **Section 3.8.22**	x			
27.		Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form (when required) 480-93-200(9) (eff 6/02/05) **Drug & Alcohol plan XIII.D.1 (less than 50)**	x			
28.		Safety related condition reports (SRCR) 191.23 **Section 2.6.2**	x			
29.		Filing the SRCR within 5 days of determination, but not later than 10 days after discovery 191.25 **Section 2.6.2**	x			

Comments:

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		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 **NA no customers**			x	
31.		Conversion to Service - Any pipelines previously used in service not subject to Part 192? 192.14 **NA no customers**			x	

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 **Section 4.6**	x			
		For **new** plastic pipe, qualified for use under this part if: 192.59(a)				
33.	480-93-180 (1)	• 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) **N/A no plastic in system**			x	
		For **used** plastic pipe, qualified for use under this part if: 192.59(b)				
34.		• 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) **N/A no plastic in system**			x	
35.	480-93-180 (1)	*Marking of Materials 192.63* *(a) Except as provided in paragraph (d) of this section, each valve, fitting, length of pipe, and other component must be marked-* *(1) As prescribed in the specification or standard to which it was manufactured, except that thermoplastic fittings must be marked in accordance with ASTM D 2513; or* *(2) To indicate size, material, manufacturer, pressure rating, and temperature rating, and as appropriate, type, grade, and model.* *(b) Surfaces of pipe and components that are subject to stress from internal pressure may not be field die stamped.* *(c) If any item is marked by die stamping, the die must have blunt or rounded edges that will minimize stress concentrations.* *(d) Paragraph (a) of this section does not apply to items manufactured before November 12, 1970, that meet all of the following:* *(1) The item is identifiable as to type, manufacturer, and model.* *(2) Specifications or standards giving pressure, temperature, and other appropriate criteria for the use of items are readily available.* **Section 4.6 pg 4-5**	x			

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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 **See design documentation in the back of chapter 7 --04-27-2009 verified in Section 7 under Construction specifications**	x			
37.		Design formula for steel pipe. 192.105(a) **See design documentation in the back of chapter 7 --04-27-2009 verified in Section 7 under Construction specifications**	x			
38.		Yield strength (S) for steel pipe. 192.107 **See design documentation in the back of chapter 7 --04-27-2009 verified in Section 7 under Construction specifications**				
39.	480-93-180 (1) 480-93-180 (1)	Nominal wall thickness (t) for steel pipe. 192.109 (a) & (b) (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….. (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. **4.6 API 5L PSL2**	x			
40.		Design factor (F) for steel pipe. 192.111 **See design documentation in the back of chapter 7 --04-27-2009 verified in Section 7 under Construction specifications**				
41.		(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. Class 1 **0.72**, Class 2 **0.60**, Class 3 **0.50**, Class 4 **0.40** **See design documentation in the back of chapter 7 --04-27-2009 verified in Section 7 under Construction specifications (Pipeline is designated as class location III ie design factor is always .50)**	x			

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		SUBPART C – PIPE DESIGN				
42.		(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: (1) Crosses the right-of-way of an unimproved public road, without a casing; (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; (3) Is supported by a vehicular, pedestrian, railroad, or pipeline bridge; or (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. **N/A no class 1**			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. **N/A no class 1**			x	
44.		(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- (1) Steel pipe in a compressor station, regulating station, or measuring station, and (2) Steel pipe, including a pipe riser, on a platform located offshore or in inland navigable waters. **N/A no class 1**			x	
45.		Longitudinal joint factor (E) for steel pipe. 192.113 **See design documentation in the back of chapter 7 (1992 ERW pipe E=1)**	x			
46.	480-93-180 (1)	Temperature derating factor (T) for steel pipe. 192.115 **See design documentation in the back of chapter 4 (nominal temp is 55deg F T=1)**	x			
		For Plastic Pipe				
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 **N/A no pe pipe**			x	
48.		For assuring that the design limitations for plastic pipe are not exceeded. 192.123 (a) thru (e) **N/A no pe pipe**			x	

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.	480-93-180 (1)	General requirements.... 192.143 **Chapter 7 Const. Spec. 15480 Part 2 Materials**	x			

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		SUBPART D – DESIGN OF PIPELINE COMPONENTS	S	U	N/A	N/C
50.		Qualifying metallic components. 192.144 (a) & (b) **Section 4.6 & Const. Spec. 15480 Part 2 Materials & 4.7 bot of par 1**	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) *192.145* *a) Except for cast iron and plastic valves, each valve must meet the minimum requirements of API 6D (incorporated by reference, see §192.7), or to a national or international standard that provides an equivalent performance level. A valve may not be used under operating conditions that exceed the applicable pressure- temperature ratings contained in those requirements.* *(b) Each cast iron and plastic valve must comply with the following:* *(1) The valve must have a maximum service pressure rating for temperature that equal or exceed the maximum service temperature.* *(2) The valve must be tested as part of the manufacturing, as follows:* *(i) With the valve in the fully open position, the shell must be tested with no leakage to a pressure at least 1.5 times the maximum service rating.* *(ii) After the shell test, the seat must be tested to a pressure no less than 1.5 times the maximum service pressure rating. Except for swing check valves, test pressure during the seat test must be applied successively on each side of the closed valve with the opposite side open. No visible leakage is permitted.* *(iii) After the last pressure test is completed, the valve must be operated through its full travel to demonstrate freedom from interference.* *(c) Each valve must be able to meet the anticipated operating conditions.* *(d) No valve having shell components made of ductile iron may be used at pressures exceeding 80 percent of the pressure ratings for comparable steel valves at their listed temperature. However, a valve having shell components made of ductile iron may be used at pressures up to 80 percent of the pressure ratings for comparable steel valves at their listed temperature, if:* *(1) The temperature -adjusted service pressure does not exceed 1,000 p.s.i. (7 MPa) gage; and* *(2) Welding is not used on any ductile iron component in the fabrication of the valve shells or their assembly.* *(e) No valve having pressure containing parts made of ductile iron may be used in the gas pipe components of compressor stations.* **Section 4.6, does not list individually but is complete**	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) **Section 4.6**	x			
53.		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) **Section 1.1 passed pigs during commissioning – designed and built to be pigged.**	x			
54.		Components fabricated by welding. 192.153 (a) thru (d) **N/A none**			x	
55.		Welded branch connections. 192.155 **N/A none**			x	
56.		Flexibility. 192.159 *Each pipeline must be designed with enough flexibility to prevent thermal expansion or contraction from causing excessive stresses in the pipe or components, excessive bending or unusual loads at joints, or undesirable forces or moments at points of connection to equipment, or at anchorage or guide points.* **No double fixed end point locations; flexibility is gain at one end and free moving supports.**	x			
57.		Supports and Anchors 192.161(a) (a) thru (f) **Chapter 7, Const. Spec. 15480 Part 3.09**	x			

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		SUBPART D – DESIGN OF PIPELINE COMPONENTS	S	U	N/A	N/C
		Compressor Stations **GP DOES NOT HAVE A COMPRESSOR STATION**				
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.	480-93-180 (1)	Compressor stations: Pressure limiting devices. 192.169 (a) & (b)			x	
62.		Compressor stations: Additional safety equipment. 192.171 (a) thru (e)			x	
63.		Compressor stations: Ventilation. 192.173			x	
64.		Pipe-type and bottle-type holders. 192.175			x	
65.		Additional provisions for bottle-type holders. 192.177			x	
66.	480-93-180 (1)	Transmission line valves.192.179 (a) thru (d)			x	
67.		Distribution line valves. 192.181(a) thru (c)			x	
68.	480-93-180 (1)	Vaults: Structural design requirements 192.183 (a) thru (c)			x	
69.		Vaults: Accessibility 192.185 (a) thru (c)			x	
70.		Vaults: Sealing, venting, and ventilation. 192.187 (a) thru (c)			x	
71.		Vaults: Drainage and waterproofing 192.189 (a) thru (c)			x	
72.		Design pressure of plastic fittings 192.191 (a) & (b)			x	
73.		Valve installation in plastic pipe. 192.193			x	
74.		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)			x	
76.	480-93-180 (1)	Except for rupture discs, each pressure relief or pressure limiting device must: 192.199 (a) thru (h)			x	
77.		Required capacity of pressure relieving and limiting stations. 192.201(c)			x	
78.		Instrument, Control, and Sampling Pipe and Components 192.203(a) & (b)			x	

Comments:

Camas does not have a compressor station.

		SUBPART E – WELDING OF STEEL IN PIPELINES WAC 480-93-080 – WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION	S	U	N/A	N/C
79.	480-93-180(1)	Welding procedures must be qualified under **Section 5 of API 1104** (19th ed.1999, 10/31/01 errata) or **Section IX of ASME Boiler and Pressure Code** (2001 ed.) by destructive test. .225(a) **Section 4.7.3**	x			
80.		Retention of welding procedure – details and test .225(b)				
81.		Welders must be qualified by **Section 6 of API 1104** (19th ed.1999, 10/31/01 errata) or **Section IX of ASME Boiler and Pressure Code** (2001 ed.) See exception in .227(b). .227(a) **Section 4.7.3**	x			
82.		Welders may be qualified under **section I of Appendix C** to weld on lines that operate at < **20% SMYS.** .227(b) **No Appendix C welding, see upfront disclosure letter**	x			

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			S	U	N/A	N/C
		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)				
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) **N/A, NO TWO INCH**			x	
84.		• Nominal **two-inch** or smaller below ground butt welds 480-93-080(1)(a)(ii) **N/A, NO TWO INCH**			x	
85.	480-93-180(1)	• Nominal **four-inch** or smaller above ground manifold and meter piping operating at 10 psig or less. 480-93-080(1)(a)(iii) **N/A, NO FOUR INCH**			x	
86.		• **Appendix C Welders re-qualified 2/Yr (7.5Months) 480-93-080(1)(a)(iv)**			x	
87.		Use of testing equipment to record and document essential variables 480-93-080(1)(b) (eff 6/02/05) **Section 4.7.1**	x			
88.		Qualified written welding procedures must be located on-site where welding is being performed 480-93-080(1)(d) **Section 4.7.3**	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) **Section 4.7.3 and 4.8 paragraph 3 says weld qualification doc must bbe attached to the onsite procedure/process safety plan**	x			
90.		To weld on compressor station piping and components, a welder must successfully complete a destructive test .229(a) *(a) No welder whose qualification is based on nondestructive testing may weld compressor station pipe and components.* **N/A – No compressor station**			x	
91.	480-93-180(1)	Welder must have used welding process within the preceding **6 months** .229(b) *b) No welder may weld with a particular welding process unless, within the preceding 6 calendar months, he has engaged in welding with that process.* **N/A-No compressor station**			x	
92.		A welder qualified under .227(a)… .229(c) 192.229 (c) A welder qualified under §192.227(a) -- (1) May not weld on pipe to be operated at a pressure that produces a hoop stress of 20 percent or more of 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 (incorporated by reference, see §192.7). Alternatively, welders may maintain an ongoing qualification status by performing welds tested and found acceptable under the above acceptance criteria at least twice each calendar year, but at intervals not exceeding 7½ months. A welder qualified under an earlier edition of a standard listed in §192.7 of this part may weld but may not requalify under that earlier edition; and (2) May not weld on pipe to be operated at a pressure that produces a hoop stress of less than 20 percent of SMYS unless the welder is tested in accordance with paragraph (c)(1) of this section or requalifies under paragraph (d)(1) or (d)(2) of this section. **N/A**				
93.		• (1)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) • **N/A Pipeline less that 20% SYMS**			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) • **N/A**			x	
		Welders qualified under .227(b) may not weld unless: .229(d) *(d) A welder qualified under §192.227(b) may not weld unless -*	S	U	N/A	N/C

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

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		(1) Within the preceding 15 calendar months, but at least once each calendar year, the welder has requalified under §192.227(b) or *(2) Within the preceding 7 1/2 calendar months, but at least twice each calendar year, the welder has had--* *(i) A production weld cut out, tested, and found acceptable in accordance with the qualifying test; or* *(ii) For welders who work only on service lines 2 inches (51 millimeters) or smaller in diameter, two sample welds tested and found acceptable in accordance with the test in section III of Appendix C of this part.* **N/A – GP line is less than 20% SYMS but they treat it as transmission therefore cannot use 227(b)**				
95.		• Re-qualified within **1 year/15 months**, or .229(d)(1) • **N/A**			x	
96.		Welding operation must be protected from weather .231 **NA**			x	
97.	480-93-180(1)	Welding operation must be protected from weather .231 **Section 4.7.1**	x			
98.		Miter joints (**consider pipe alignment**) .233 **Section 4.7 not permitted**	x			
99.		Welding preparation and joint alignment .235 **Section 4.7 & API 1104**	x			
100.		Visual inspection must be conducted by an individual qualified by appropriate training and experience to ensure: .241(a) thru (c) *a) Visual inspection of welding must be conducted by an individual qualified by appropriate training and experience to ensure that:* *(1) The welding is performed in accordance with the welding procedure; and* *(2) The weld is acceptable under paragraph (c) of this sect ion.* *(b) The welds on a pipeline to be operated at a pressure that produces a hoop stress of 20 percent or more of SMYS must be nondestructively tested in accordance with §192.243, except that welds that are visually inspected and approved by a qualified welding inspector need not be nondestructively tested if:* *(1) The pipe has a nominal diameter of less than 6 inches(152 millimeters); or* *(2) The pipeline is to be operated at a pressure that produces a hoop stress of less than 40 percent of SMYS and the welds are so limited in number that nondestructive testing is impractical.* *(c) The acceptability of a weld that is nondestructively tested or visually inspected is determined according to the standards in Section 9 of API Standard 1104 (incorporated by reference, see §192.7). However, if a girth weld is unacceptable under those standards for a reason other than a crack, and if Appendix A to API 1104 applies to the weld, the acceptability of the weld may be further determined under that appendix.* **Section 4.8**	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) **Section 4.8 & NDT procedure in appendix of Chapter 4**	x			
102.		Repair or removal of defects.245 (a) thru (c) **4.2 actually s/b 4-2 through 4.4.5**	x			
		• Sleeve Repair – low hydrogen rod (**Best Practices –ref. API 1104 App. B, In Service Welding) Section 4.2- Low hydrogen rod not there, Roy is forwarding question to Pat Terry-will let me know Pat Terry is ensuring that it is in the welding procedure. Terry called back said they use 60-10 for root pass ad 70-18 low hydrogen and keep it heated for all other passes**				

Comments:

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

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		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) **Plastic Pipe Not Approved See Policy Statement for rules deemed NA**				
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) **Plastic Pipe Not Approved**			x	
105.		Each solvent cement joint on plastic pipe must comply with the following: .281(b) **Plastic Pipe Not Approved**			x	
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) **Plastic Pipe Not Approved**			x	
107.		• The solvent cement must conform to ASTM Designation: D 2513. .281(b)(2) **Plastic Pipe Not Approved**			x	
108.		• The joint may not be heated to accelerate the setting of the cement. .281(b)(3) **Plastic Pipe Not Approved**			x	
109.	480-93-180(1)	Each heat-fusion joint on plastic pipe must comply with the following: .281(c) **Plastic Pipe Not Approved**				
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) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**			x	
112.		• 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) **Plastic Pipe Not Approved**			x	
113.		• Heat may not be applied with a torch or other open flame. .281(c)(4)				
114.		Each adhesive joint on plastic pipe must comply with the following: .281(d) **Plastic Pipe Not Approved**				
115.		• The adhesive must conform to ASTM Designation: D 2517. .281(d)(1) **Plastic Pipe Not Approved**			x	
116.		• The materials and adhesive must be compatible with each other. .281(d)(1) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**			x	
119.		• A rigid internal tubular stiffener, other than a split tubular stiffener, must be used in conjunction with the coupling. .281(e)(2) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**				

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

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122.	480-93-180(1)	• 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) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**			x	
124.		• 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) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**			x	
126.	480-93-180(1)	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 **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**				
128.		• Use an apparatus for the test as specified in ASTM D 638 (except for conditioning). .283(b)(1) **Plastic Pipe Not Approved**			x	
129.		• 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) **Plastic Pipe Not Approved**			x	
130.		• The speed of testing is 0.20 in. (5.0 mm) per minute, plus or minus 25 percent. .283(b)(3) **Plastic Pipe Not Approved**			x	
131.		• 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) **Plastic Pipe Not Approved**			x	
132.		• 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) **Plastic Pipe Not Approved**			x	
133.		• Each specimen that fails at the grips must be retested using new pipe. .283(b)(6) **Plastic Pipe Not Approved**			x	
134.		• 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) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**			x	

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

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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) **Plastic Pipe Not Approved**			x	
137.		No person may make a plastic pipe joint unless that person has been qualified under the applicable joining procedure by: .285(a) **Plastic Pipe Not Approved**				
138.		• Appropriate training or experience in the use of the procedure; and .285(a)(1) **Plastic Pipe Not Approved**			x	
139.	480-93-180(1)	• 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) **Plastic Pipe Not Approved**			x	
140.		The specimen joint must be: .285(b)				
141.		• 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) **Plastic Pipe Not Approved**			x	
142.		• In the case of a heat fusion, solvent cement, or adhesive joint; .285(b)(2) **Plastic Pipe Not Approved**			x	
143.	480-93-180(1)	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) **Plastic Pipe Not Approved**			x	
144.		Examined by ultrasonic inspection and found not to contain flaws that may cause failure; or .285(b)(2)(ii) **Plastic Pipe Not Approved**			x	
145.		Cut into at least three longitudinal straps, each of which is: .285(b)(2)(iii) **Plastic Pipe Not Approved**			x	
146.		Visually examined and found not to contain voids or discontinuities on the cut surfaces of the joint area; and .285(b)(2)(iii)(A) **Plastic Pipe Not Approved**			x	
147.		Deformed by bending, torque, or impact, and if failure occurs, it must not initiate in the joint area. .285(b)(2)(iii)(B) **Plastic Pipe Not Approved**			x	
148.		A person must be requalified under an applicable procedure, if during any 12-month period that person: .285(c) **Plastic Pipe Not Approved**				
149.	480-93-180(1)	• Does not make any joints under that procedure; or .285(c)(1) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**			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) **Plastic Pipe Not Approved**			x	
		Plastic pipe joiners re-qualified **1/Yr (15 Months)** 480-93-080 (2) (eff 6/02/05)				
152.		• Qualified written plastic joining procedures must be located on-site where plastic joining is being performed. 480-93-080(2)(a) **Plastic Pipe Not Approved**			x	
153.	480-93-180(1)	• Plastic pipe joiners re-qualified if no production joints made during any 12 month period 480-93-080(2)(b) (eff 6/02/05) **Plastic Pipe Not Approved**			x	
154.		• Tracking production joints or re-qualify joiners **1/Yr (12Months)** 480-93-080(2)(c) (eff 6/02/05) **Plastic Pipe Not Approved**			x	
155.	480-93-180(1) /	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			x	

	192.273(b)	evaluating the acceptability of plastic pipe joints made under the applicable joining procedure. .287 **Plastic Pipe Not Approved**				

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 **Section 7 Construction Specifications - 04-27-2009 verified**	x			
157.		Inspection of each transmission line and main during construction 192.305 **Section 7 Construction Specifications - 04-27-2009 verified**	x			
158.		Inspection of materials 192.307 **Section 7 Construction Specifications - 04-27-2009 verified**	x			
159.		Repair of steel pipe 192.309 (a) thru (e) **4.4.3**			x	
160.		Repair of plastic pipe. 192.311 **N/A**			x	
161.		Bends and elbows. 192.313 (a) thru (c) **N/A No field bends only 3R ftgs**			x	
162.		Wrinkle bends in steel pipe. 192.315 (a) & (b) **N/A**			x	
163.		Protection from hazards 192.317 (a) thru (c) **Chapter 1 &non buoyant and deep at xing. 12 pipes will not float but 16 inch will. GP's 10" pipe is concrete coated so there is no scowering damage to the pipe from the river. Only hazard is deep water way, the pipe has concrete wrap and is non buoyant**	x			
164.		Installation of Pipe in a ditch 192.319 (a) thru (c) **Construction Spec 3.03, reviewed - Section 7 Construction Specifications - 04-27-2009 verified**	x			
165.		Installation of plastic pipe. 192.321 (a) thru (h) **N/A**			x	
480-93-178 WAC PROTECTION OF PLASTIC PIPE			**S**	**U**	**N/A**	**N/C**
166.	480-93-180(1)	Procedures for the storage, handling, and installation of plastic pipelines in accordance with the latest applicable manufacturers recommended practices. 480-93-178(1) eff 6/02/06) **NO Plastic Pipe - Not Approved**			x	
167.		Stated acceptable time limit for maximum cumulative ultraviolet light exposure 480-93-178 (2) eff 6/02/06) **NO Plastic Pipe - Not Approved**			x	
168.		Separation requirements when installing plastic pipelines parallel to other underground utilities 480-93-178 (4) eff 6/02/06) **NO Plastic Pipe - Not Approved**			x	
169.		Separation requirements when installing plastic pipelines perpendicular to other underground utilities 480-93-178 (5) eff 6/02/06) **NO Plastic Pipe - Not Approved**			x	
170.		Casings 192.323 (a) thru (d) **Section 3.3.13 & Construction specification 3.15**	x			
171.		Casing of pipelines. 480-93-115 (1) thru (4)	x			

		Section 3.3.13 & 3.3.6.3				
172.		Underground clearance. 192.325 (a) thru (d). **Chapter 7 Construction Spec 3.03**	x			
173.		Cover. 192.327 (a) thru (g) Chapter 7 **Construction Spec 3.03**	x			

Comments:

SUBPART H - CUSTOMER METERS, SERVICE REGULATORS, and SERVICE LINES						
		No services, meters or pressure regulators are associated with the GP Camas Transmission Pipeline.	**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) **No Services**			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) **No Services**			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) **No Services**			x	
		480-93-140 WAC SERVICE REGULATORS	**S**	**U**	**N/A**	**N/C**
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) **No Services**			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) **No Services**			x	
179.	480-93-180 (1)	Minimum service line installation requirements as prescribed under **192.361 (a) thru (g)** **No Services**			x	
180.		Location of service-line valves as prescribed under **192.365 (a) thru (c)** **No Services**			x	
181.		General requirements for locations of service-line connections to mains and use of compression fittings **192.367 (a) thru (b)(2)** **No Services**			x	
182.		Connections of service lines to cast iron or ductile iron mains. 192.369 (a) thru (b) **No Services**			x	
183.		Provisions for new service lines not in use 192.379 (a) thru (c) **No Services**			x	
184.		Excess flow valve performance standards 192.381 (a) thru (e) **No Services**			x	
185.		Excess flow valve customer notification. 192.383 (a) thru (f) **No Services**			x	

Utilities and Transportation Commission
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Operations and Maintenance Procedures and Plan Review

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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 **Section 3.3**	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) **Section 3.3.1**	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) **No Aluminum – Not approved See Policy exception Statement**	x			
189.	480-93-180(1)	All effectively coated steel transmission pipelines installed prior to **August 1, 1971**, must be cathodically protected .457 (a) **Section 3.3.1 & 3.3.2** **installed in 1993**	x			
190.	480-93-180(1)	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) **N/A Constructed in 1993**	x			
191.		Written procedures explaining how cathodic protection related surveys, reads, and tests will be conducted. 480-93-110(4) (eff 6/02/05) **OQ-014, chapter 6 refers reader to OQ book**	x			
192.		Examination of buried pipeline when exposed: if corrosion is found, further investigation is required .459 **Section 3.3.4**	x			
193.		Recording the condition of all underground metallic facilities each time the facilities are exposed. 480-93-110(6) (eff 6/02/05) **Section 3.3.1**	x			
194.		CP test reading on all exposed facilities where coating has been removed 480-93-110(8) (eff 6/02/05) **Section 3.3.4**	x			

Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
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		SUBPART I - CORROSION CONTROL	S	U	N/A	N/C
195.	480-93-180(1)	Procedures must address the protective coating requirements of the regulations. External coating on the steel pipe must meet the requirements of this part. .461 **Section 3.3.2** This was PV 9 2005 inspection and is **ok** *192.605 (1) Operating, maintaining, and repairing the pipeline in accordance with each of the requirements of this subpart and Subpart M of this part.* *192.461* *(a) Each external protective coating, whether conductive or insulating, applied for the purpose of external corrosion control must-* *(1) Be applied on a properly prepared surface;* *(2) Have sufficient adhesion to the metal surface to effectively resist under film migration of moisture;* *(3) Be sufficiently ductile to resist cracking;* *(4) Have sufficient strength to resist damage due to handling and soil stress; and,* *(5) Have properties compatible with any supplemental cathodic protection.* *(b) Each external protective coating which is an electrically insulating type must also have low moisture absorption and high electrical resistance.* *(c) Each external protective coating must be inspected just prior to lowering the pipe into the ditch and backfilling, and any damage detrimental to effective corrosion control must be repaired.* *(d) Each external protective coating must be protected from damage resulting from adverse ditch conditions or damage from supporting blocks.* *(e) If coated pipe is installed by boring, driving, or other similar method, precautions must be taken to minimize damage to the coating during installation.* **Section 3.3.2**	S	U	N/A	N/C
196.		Cathodic protection level according to **Appendix D** criteria .463 **Section 3.3.3 and OQ14**	x			
197.		Pipe-to-soil monitoring (**1 per yr/15 months**) .465(a) **Section 3.3.6.1 and OQ14**	x			
198.		Rectifier monitoring (**6 per yr/2½ months**) .465(b) **Section 3.3.6.2 and OQ14**	x			
199.		Interference bond monitoring (**as required**) .465(c) **Section 3.3.6.2 and OQ14**	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) **Section 3.3.9**	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) **No bare or ineffective coatings in system**	x			
202.		Sufficient test stations to determine CP adequacy .469 **Section 3.3.11, 18 test stations in 1.8 miles (every 500 feet)**	x			
203.		Test lead maintenance .471 **Section 3.3.12**				
204.		Interference currents .473 **Section 3.3.13**	x			
205.		Proper procedures for transporting corrosive gas? .475(a) **Section 3.3.8, No corrosive gas**	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) **Section 3.3.8**	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) **Section 3.3.8**	x			
208.		Internal corrosion control coupon (or other suit. Means) monitoring (**2 per yr/7½ months**) .477 **No coupons in system**	x			

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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
209.	480-93-180(1)	Each exposed pipe must be cleaned and coated (see exceptions under **.479(c)**) .479(a) **Section 3.3.6.4**	x			
210.		Offshore splash zones and soil-to-air interfaces must be coated **does not allow us to change the program to print anything else. 3.3.7**	x			
211.		• Coating material must be suitable .479(b) • **Section 3.3.7**	x			
212.		Coating is not required where operator has proven that corrosion will: .479(c)				
213.		1. Only be a light surface oxide, or .479(c)(1) 2. **Section 3.3.6.4 & 4.3.3**	x			
214.		3. Not affect safe operation before next scheduled inspection .479(c)(2) **Section 3.3.6.4**	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) **Section 3.3.6.4**	x			
216.		Atmospheric corrosion control monitoring (**1 per 3 yrs/39 months onshore; 1 per yr/15 months offshore**) .481(a) **Section 3.3.6.4 and 4.3.4**	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) **Section 3.3.6.4 - 04-27-2009 verified all items in O&M**	x			
218.		Protection must be provided if atmospheric corrosion is found (**per §192.479**) .481(c) **Section 3.3.6.4**	x			
219.	480-93-180(1)	Replacement and required pipe must be coated and cathodically protected (see code for exceptions) .483 **Section 3.3.1 & 3.3.2**	x			
220.		Procedures to replace pipe or reduce the **MAOP** if general corrosion has reduced the wall thickness? .485(a) **Section 4.3.1**	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 **Section 4.3.1**	x			
222.		Procedures to use **Rstreng** or **B-31G** to determine remaining wall strength? .485(c) **Section 4.3.2**	x			
223.		Remedial measures (distribution lines other than cast iron or ductile iron) .487 **N/A**	x			
224.		Remedial measures (cast iron and ductile iron pipelines) .489 **N/A**	x			
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) **Section 3.3.15**	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) **Section 3.3.6.3**	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) **Casing installed in 1993 w/TL**			x	
229.		Possible shorted conditions – Perform confirmatory follow-up inspection within **90** days 480-93-110(5)(b) (eff 6/02/05) **Section 3.3.6.3**	x			
230.		Casing shorts cleared when practical 480-93-110(5)(c) (eff 6/02/05) **Section 3.3.6.3**	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) **Section 3.3.6.3**	x			
232.		CP Test Equipment and Instruments checked for accuracy/intervals (Mfct Rec or Opr Sched) 480-93-110(3) (eff 6/02/05) **Section 3.3.16**	x			

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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. (a) No person may operate a new segment of pipeline, or return to service a segment of pipeline that has been relocated or replaced, until- (1) It has been tested in accordance with this subpart and §192.619 to substantiate the maximum allowable operating pressure; and (2) Each potentially hazardous leak has been located and eliminated. (b) The test medium must be liquid, air, natural gas, or inert gas that is- (1) Compatible with the material of which the pipeline is constructed; (2) Relatively free of sedimentary materials; and, (3) Except for natural gas, nonflammable. (c) Except as provided in §192.505(a), if air, natural gas, or inert gas is used as the test medium, the following maximum hoop stress limitations apply: Maximum hoop stress allowed as percentage of SMYS Class location Natural Gas Air or inert gas 1 80 80 2 30 75 3 30 50 4 30 40 (d) Each joint used to tie in a test segment of pipeline is excepted from the specific test requirements of this subpart, but each non-welded joint must be leak tested at not less than its operating pressure. **Section 4.8**	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) **10.8% SMYS Section 4.8**	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) **Section 4.8 (3)**	x			
236.		Test requirements for pipelines to operate below 100 psig. 192.509 (a) & (b) **N/A, MAOP 250 psi, system typically runs at 240 psig**	x			
237.		Test requirements for service lines. 192.511 (a) thru (c) **N/A, No service lines**	x			
238.		Test requirements for plastic pipelines. 192.513 (a) thru (d) **N/A, No plastic in system or approved**	x			
239.		Environmental protection and safety requirements. 192.515 (a) & (b) (a) In conducting tests under this subpart, each operator shall insure that every reasonable precaution is taken to protect its employees and the general public during the testing. Whenever the hoop stress of the segment of the pipeline being tested will exceed 50 percent of SMYS, the operator shall take all practicable steps to keep persons not working on the testing operation outside of the testing area until the pressure is reduced to or below the proposed maximum allowable operating pressure. (b) The operator shall insure that the test medium is disposed of in a manner that will	x			

		minimize damage to the environment. **Section 4.8.1, 4.9.1 and Construction manual Section 01400 part O** **No cross reference to the Construction manual in O&M**				
240.		Records 192.517 Refer also to 480-93-170 (7) (a-h) below. **Section 4.8.6**	x			

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) **Section 4.8.1**	x			
242.		• 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) • **Section 4.8.1.b**	x			
243.		• 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) • **Section 4.8.1.b**	x			
244.		• 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) **Section 4.8.1.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) **Section 4.8.2**	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) **N/A No distribution**	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). **Section 4.8.6**	x			
248.		Maintain records of each test where multiple pressure tests are performed on a single installation. 480-93-170(9) **Section 4.8.7**	x			
249.		Pressure testing equipment must be maintained, tested for accuracy, or calibrated, in accordance with the manufacturer's recommendations.480-93-170(10) **Section 4.8.8**	x			
250.		• When there are no manufacturer's recommendations, then tested at an appropriate schedule determined by the operator. • **Section 4.8.8**	x			
251.		• Test equipment must be tagged with the calibration or accuracy check expiration date. **Section 4.8.8**	x			

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Comments:

SUBPART K - UPRATING						
		Provisions for meeting the minimum requirements for increasing maximum allowable operating pressure (uprating) for pipelines. **Section 3.6**	S	U	N/A	N/C
252.	480-93-180(1)	General requirements. 192.553 (a) thru (d) *(a) Pressure increases. Whenever the requirements of this subpart require that an increase in operating pressure be made in increments, the pressure must be increased gradually, at a rate that can be controlled, and in accordance with the following:* *(1) At the end of each incremental increase, the pressure must be held constant while the entire segment of the pipeline that is affected is* ***checked for leaks****.* *(2) Each leak detected must be* ***repaired*** *before a further pressure increase is made, except that a leak determined not to be potentially hazardous need not be repaired, if it is monitored during the pressure increase and it does not become potentially hazardous.* *(b) Records. Each operator who uprates a segment of pipeline shall retain for the life of the segment a record of each investigation required by this subpart, of all work performed, and of each pressure test conducted, in connection with the uprating. (c) Written plan. Each operator who uprates a segment of pipeline shall* ***establish a written*** *procedure that will ensure that each applicable requirement of this subpart is complied with.* *(d) Limitation on increase in maximum allowable operating pressure. Except as provided in §192.555 (c), a new maximum allowable operating pressure established under this subpart may not exceed the maximum that would be allowed under §§ 192.619 and 192.621 for a new segment of pipeline constructed of the same materials in the same location. However, when uprating a steel pipeline, if any variable necessary to determine the design pressure under the design formula (§192.105) is unknown, the MAOP may be increased as provided in §192.619(a)(1).* **Section 3.6, This line was tested to 1220 producing a MAOP of 800 but only operates at 250. Would never uprate already tested to highest level.** **Initial hydro test to 1200 producing an MAOP of 800 psig.**	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) *(a) Unless the requirements of this section have been met, no person may subject any segment of a steel pipeline to an operating pressure that will produce a hoop stress of 30 percent or more of SMYS and that is above the established maximum allowable operating pressure.* *(b) Before increasing operating pressure above the previously established maximum allowable operating pressure the operator shall:* *(1) Review the design, operating, and maintenance history and previous testing of the segment of pipeline and determine whether the proposed increase is safe and consistent with the requirements of this part; and* *(2) Make any repairs, replacements, or alterations in the segment of pipeline that are necessary for safe operation at the increased pressure.* *(c) After complying with paragraph (b) of this section, an operator may increase the maximum allowable operating pressure of a segment of pipeline constructed before September 12, 1970, to the highest pressure that is permitted under §192.619, using as test pressure the highest pressure to which the segment of pipeline was previously subjected (either in a strength test or in actual operation).* *(d) After complying with paragraph (b) of this section, an operator that does not qualify under paragraph (c) of this section may increase the previously established maximum allowable operating pressure if at least one of the following requirements is met:* *(1) The segment of pipeline is successfully tested in accordance with the requirements of this*	x			

		SUBPART K - UPRATING				
		part for a new line of the same material in the same location. *(2) An increased maximum allowable operating pressure may be established for a segment of pipeline in a Class 1 location if the line has not previously been tested, and if:* *(i) It is impractical to test it in accordance with the requirements of this part;* *(ii) The new maximum operating pressure does not exceed 80 percent of that allowed for a new line of the same design in the same location; and,* *(iii) The operator determines that the new maximum allowable operating pressure is consistent with the condition of the segment of pipeline and the design requirements of this part.* *(e) Where a segment of pipeline is uprated in accordance with paragraph (c) or (d)(2) of this section, the increase in pressure must be made in increments that are equal to:* *(1) 10 percent of the pressure before the uprating; or* *(2) 25 percent of the total pressure increase, whichever produces the fewer number of increments.* **Section *3.6***				
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) *(a) Unless the requirements of this section have been met, no person may subject:* *(1) A segment of steel pipeline to an operating pressure that will produce a hoop stress less than 30 percent of SMYS and that is above the previously established maximum allowable operating pressure; or* *(2) A plastic, cast iron, or ductile iron pipeline segment to an operating pressure that is above the previously established maximum allowable operating pressure.* *(b) Before increasing operating pressure above the previously established maximum allowable operating pressure, the operator shall:* *(1) Review the design, operating, and maintenance history of the segment of pipeline;* *(2) Make a leakage survey (if it has been more than 1 year since the last survey) and repair any leaks that are found, except that a leak determined not to be potentially hazardous need not be repaired, if it is monitored during the pressure increase and it does not become potentially hazardous;* *(3) Make any repairs, replacements, or alterations in the segment of pipeline that are necessary for safe operation at the increased pressure;* *(4) Reinforce or anchor offsets, bends and dead ends in pipe joined by compression couplings or bell spigot joints to prevent failure of the pipe joint, if the offset, bend, or dead end is exposed in an excavation;* *(5) Isolate the segment of pipeline in which the pressure is to be increased from any adjacent segment that will continue to be operated at a lower pressure; and,* *(6) If the pressure in main or service lines, or both, is to be higher than the pressure delivered to the customer, install a service regulator on each service line and test each regulator to determine that it is functioning. Pressure may be increased as necessary to test each regulator, after a regulator has been installed on each pipeline subject to the increased pressure.* *(c) After complying with paragraph (b) of this section, the increase in maximum allowable operating pressure must be made in increments that are equal to 10 p.s.i. (69 kPa) gage or 25 percent of the total pressure increase, whichever produces the fewer number of increments. Whenever the requirements of paragraph (b)(6) of this section apply, there must be at least two approximately equal incremental increases.* *(d) If records for cast iron or ductile iron pipeline facilities are not complete enough to determine stresses produced by internal pressure, trench loading, rolling loads, beam stresses, and other bending loads, in evaluating the level of safety of the pipeline when operating at the proposed increased pressure, the following procedures must be followed:* *(1) In estimating the stress, if the original laying conditions cannot be ascertained, the operator shall assume that cast iron pipe was supported on blocks with tamped backfill and that ductile iron pipe was laid without blocks with tamped backfill.* *(2) Unless the actual maximum cover depth is known, the operator shall measure the actual cover in at least three places where the cover is most likely to be greatest and shall use the greatest cover measured.* *(3) Unless the actual nominal wall thickness is known, the operator shall determine the wall thickness by cutting and measuring coupons from at least three separate pipe lengths of*	x			

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		SUBPART K - UPRATING				
		pipeline s. The coupons must be cut from pipe lengths in areas where the cover depth is most likely to be the greatest. The average of all measurements taken must be increased by the allowance indicated in the following table: **Section 3.6**				
		WAC 480-93-155 - UPRATING				
255.		Notification of uprate and submission of written plan 480-93-155 (1) **Section 3.6**	x			
256.	480-93-180(1)	Content of written plan… 480-93-155 (1) (a) thru (j) *(a) A list of all affected gas pipeline facilities, including pipes, **fittings**, valves, and other affected equipment, with the manufacturer's specified maximum operating pressure limits, their specified minimum yield strength (SMYS) at the intended MAOP, and any other applicable specifications or limitations; (b) **Original design** and construction standards; (c) **Original pressure** test records; (d) Previous **operating pressures** identifying the dates and lengths of time at that pressure; (e) **Records** of all leaks, regardless of cause, and the dates and methods of repair; (f) **Where** the pipeline is being uprated to a MAOP that produces a hoop stress of twenty percent or more of the SMYS, records of the original welding standards and welders; (g) **Maintenance records** of all affected regulator stations and system relief valves for the past three years or three most recent inspections, whichever is longer; (h) **Where applicable, relief** valve capacities at the proposed MAOP compared to regulator flow capacities, with calculations; (i) **Cathodic protection readings of the affected gas pipeline and facilities, including rectifier readings, for the past** three years or three most recent inspections, whichever is longer; and (j) Any additional information that **the commission may** deem necessary to evaluate the pressure increase.* **Section 3.6 a thru i**	x			
257.		Uprates must be based on a previous or current pressure test that will substantiate the intended MAOP. 480-93-155 (2) **Section 3.6 bottom of page Line already tested to maximum**	x			

Comments:

		SUBPART L - OPERATIONS	S	U	N/A	N/C
258.		0				
259.		Availability of construction records, maps, operating history to operating personnel 192.605(b)(3) **Section 6.1 Manual is located in Maintenance for maintenance employee and MERT from emergency response. All Maps are in O&M. Line is 1.8 miles long**	x			
260.	480-93-180(1) / 192.605(a)	Start up and shut down of the pipeline to assure operation within **MAOP** plus allowable buildup 192.605(b)(5) **OQ 012**	x			
261.		Periodic review of personnel work – effectiveness of normal O&M procedures 192.605(b)(8) **Section 6.5**	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) **Section 2.3.3.5.6**	x			

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		SUBPART L - OPERATIONS	S	U	N/A	N/C
263.		Routine inspection and testing of pipe-type or bottle-type holders 192.605(b)(10) **N/A No pipe type or bottle type holders**			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) **Section 2.3.3.3 and 2.3.3.5.1**	x			

Comments:

		SUBPART L – OPERATIONS ABNORMAL OPERATING PROCEDURES – TRANSMISSION LINES				
		Procedures for responding to, investigating, and correcting the cause of: 192.605(c)(1)	S	U	N/A	N/C
265.	480-93-180(1) / 192.605(a)	• Unintended closure of valves or shut downs 192.605(c)(1)(i) • **This was pv 2 in 2005 inspection** **OQ 001 Under pressurization of pipeline**	x			
266.		• Increase or decrease in pressure or flow rate outside of normal operating limits 192.605(c)(1)(ii) • **OQ 3.3.1, above 245 psig is abnormal condition and 250 is exceeding MAOP**	x			
267.		• Loss of communications 192.605(c)(1)(iii) • **NA. No GP valves have no telemetry, all manual valves, Williams does telemetry valves.**			x	
268.		• The operation of any safety device 192.605(c)(1)(iv) • **Section 2.3.3.5.**	x			
269.		• Malfunction of a component, deviation from normal operations or personnel error 192.605(c)(1)(v) • **OQ -001**	x			
270.		Checking variations from normal operation after abnormal operations ended at sufficient critical locations 192.605(c)(2) **OQ -001**	x			
271.		Notifying the responsible operating personnel when notice of an abnormal operation is received 192.605(c)(3) **OQ -001 and 2.3.3**	x			
272.		Periodic review of personnel work – effectiveness of abnormal operation procedures 192.605(c)(4) **OQ Program Plan, which is included in Section 6 along with training etc. GP reviews personnel work on public r/w when the is public r/w work**	x			

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		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 **OQ -006**	x			
274.		Confirmation or revision of MAOP 192.611 **Section 3.5, 5th bullet on pg 3-19 and last bullet is MAOP**	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) **Section 3.5** *192.605(b)(1) Operating, maintaining, and repairing the pipeline in accordance with each of the requirements of this subpart and Subpart M of this part.* *THIS WAS 2005 PV 3,* *192.613(a)* *Each operator shall have a procedure for continuing surveillance of its facilities to determine and take appropriate action concerning changes in class location, failures, leakage history, corrosion, substantial changes in cathodic protection requirements, and other unusual operating and maintenance conditions.*	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) **Section 3.5**	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: **Section 3.7, 811 is mentioned in public notice**	x			
278.		Identify persons who engage in excavating .614(c)(1) **Section 3.7, have lists**	x			
279.		Provide notification to the public in the One Call area .614(c) (2) **Section 3.7**	x			
280.		Provide means for receiving and recording notifications of pending excavations .614(c) (3) **Section 3.7**	x			
281.		Provide notification of pending excavations to the members .614(c) (4) **Section 3.7 pg 3-24 GP supplement their contractor list (list started in 1992) with yellow pages**	x			
282.		Provide means of temporary marking for the pipeline in the vicinity of the excavations .614(c) (5) **Section 3.7**	x			
283.		Provides for follow-up inspection of the pipeline where there is reason to believe the pipeline could be damaged 614(c) (6) (6) Provide as follows for inspection of pipelines that an operator has reason to believe could be damaged by excavation activities: (i) The inspection must be done as frequently as necessary during and after the activities to verify the integrity of the pipeline; and (ii) In the case of blasting, any inspection must include leakage surveys. **Section 3.7**	x			
284.		Inspection must be done to verify integrity of the pipeline .614(c)(6)(i) **Section 3.7**	x			
285.		After blasting, a leak survey must be conducted as part of the inspection by the operator .614(c)(6)(ii) **Section 3.7 & OQ-002**	x			

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Comments:

		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) **Section 2.3.3**	x			
287.		Establish and maintain communication with appropriate public officials regarding possible emergency .615(a)(2) **Section 2.3.3.3 and P1/P2/P3**	x			
288.		Prompt response to each of the following emergencies: .615(a)(3) **Section 2.1.1.b**	x			
289.		(i) Gas detected inside a building **Section 2.4.2**	x			
290.		(ii) Fire located near a pipeline **Section 2.4.5**	x			
291.		(iii) Explosion near a pipeline **Section 2.4.4**	x			
292.		(iv) Natural disaster **Section 3.2.2 last bullet & Q-006**	x			
293.		Availability of personnel, equipment, instruments, tools, and material required at the scene of an emergency .615(a)(4) **Section 2.3.1**	x			
294.		Actions directed towards protecting people first, then property .615(a)(5) **Section 2.3.3.5.1** *(1) Operating, maintaining, and repairing the pipeline in accordance with each of the requirements of this subpart and Subpart M of this part.* ***THIS WAS 2005 PV 4 AND SEE 192.615(a)(5)***	x			
295.		Emergency shutdown or pressure reduction to minimize hazards to life or property .615(a)(6) **Section 2.3.3.5.4**	x			
296.	480-93-180(1) / 192.615	Making safe any actual or potential hazard to life or property .615(a)(7) **Section 2.3.3.5.1**	x			
297.		Notifying appropriate public officials required at the emergency scene and coordinating planned and actual responses with these officials .615(a)(8) **Section 2.3.3.3**	x			
298.		Instructions for restoring service outages after the emergency has been rendered safe .615(a)(9) **Section 4.11.2.3**	x			
299.		Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action .615(b)(1) **Section 3.5 last paragraph**	x			
300.		Training appropriate employees as to the requirements of the emergency plan and verifying effectiveness of training .615(b)(2) **Annual training and MERT training**	x			
301.		Reviewing activities following emergencies to determine if the procedures were effective .615(b)(3) **Section 2.7.3**	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) **Section 2.3.1 paragraph 5**	x			

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		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) **Yes**	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) **Yes (English is the primary language)**	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 **Section 2.7.2.3 & 2.7.2.4**	x			

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 **Chapter 1 page 3 of 13 WUTC Approved MAOP 250psi/ USDOT MAOP 800PSI**	x			
307.		**MAOP** cannot exceed the lowest of the following: **Section 1**				
308.		• Design pressure of the weakest element; .619(a)(1) **Section 1**	x			
309.		• Test pressure divided by applicable factor .619(a)(2) **Section 1**	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 uprated according to subpart K. .619(a)(3) **N/A**	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) • **Section 1 page 3 of 13 WUTC**	x			
312.		• Overpressure protective devices must be installed if .619(a)(4) is applicable .619(b) **Section 1 page 3 of 13 NONE – Provided by Williams**	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) • **N/A**			x	
314.		MAOP - High Pressure Distribution Systems .621 **N/A Transmission only**			x	

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

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315.		Max./Min. Allowable Operating Pressure - Low Pressure Distribution Systems .623 **N/A Transmission only**			x	

Comments:

		WAC 480-93-015 ODORIZATION PROCEDURES	S	U	N/A	N/C
316.	480-93-180(1)	Odorization of gas at the proper concentration in air 480-93-015 (1) **Section 3.1.2**	x			
317.		Use of odorant testing instrumentation/Monthly testing interval 480-93-015 (2) (eff 6/02/05) **Section 3.1.2**	x			
318.		Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) 480-93-015 (3) (eff 6/02/05) **Section 3.1.2**	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) **Section 3.1.2 All GP gas odorized for Willamette Valley and provided by Williams is odorized by NW Natural.**	x			

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 **Section 4.13**	x			

		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 **Section 4.11.2 & OQ-012**	x			
322.	480-93-180(1)	(a) Lines containing air must be properly purged. **Section 4.11.2 & OQ-012**	x			
323.	480-93-180(1)	(b) Lines containing gas must be properly purged **Section 4.11.2 & OQ-012**	x			

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

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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) **OQ-007 & End of CH 4 Summary or Repair Methods**	x			
325.	480-93-180(1)	Hazardous leaks must be repaired promptly .703(c) **Section 2.1.1 & OQ-009**	x			

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) **Section 3.1**	x			
327.		Maximum interval between patrols of lines: .705 (b)	x			

Class Location	At Highway and Railroad Crossings	At All Other Places	3.1.1
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 **Section 3.1.1**	x			
329.		Leak **detector equipment** survey requirements for lines transporting **un-odorized** gas (N/A - All pipelines in WA require odorization) **N/A**				

		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. **Section 2.3.1**				
330.	480-93-180(1)	• received from any outside source such as a police or fire department, other utility, contractor, customer, or the general public 480-93-185(1) • **Section 2.3.3**	x			
331.	480-93-180(1)	• Grade leak in accordance with WAC 480-93-186, and take appropriate action 480-93-185(1) • **Section 2.1.1**	x			
332.	480-93-180(1)	• Retain the leak investigation record for the life of the pipeline. 480-93-185(1) • **Section 3.2.4**	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			

		Section 2.7.1				
334.	480-93-180(1)	Taking appropriate action when leak indications originating from a foreign source. Notification requirements. 480-93-185(3) **Section 3.2.3**	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) **Section 2.1.1**	x			
336.	480-93-180(1)	procedure for evaluating the concentration and extent of gas leakage 480-93-186(2) **Section 3.2.2**	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) **Section 3.2.2 page 3-8**	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) **Section 2.1.2 NOTE at end of section**	x			

Comments:

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) **Section 3 Gas Leak and Repair Report in appendix**				
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			

Comments:

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

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		WAC 480-93-188 GAS LEAK SURVEYS	S	U	N/A	N/C
340.	480-93-180(1)	gas leak surveys using a gas detection instrument covering areas listed in 480-93-188(1)(a-e) **Section 3.2.2**	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 **Section 3.2.5**	x			
342.		Surveys conducted according to the minimum frequencies outlined under 480-93-188(3)(a-d) **Section 3.2.5**	x			
343.		Surveys conducted under the following circumstances outlined under 480-93-188(4)(a-e) **Section 3.2.2 end of section**	x			
344.		Survey records must be kept for a minimum of five years and contain information required under 480-93-188(5)(a-f) **Section 3.2.4**	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) **Section 3.2.4 second paragraph**	x			
346.		Must fully implement subsection (3)(a) of this section no later than 6/01/07. 480-93-188(7) **Section 3.2.2 Annual regardless of district type**	x			

Comments:

		PIPELINE MARKERS PROCEDURES	S	U	N/A	N/C
347.	480-93-180(1)	Placement of markers - railroad, road, irrigation and drainage ditch crossings… 480-93-124 (1) (eff 6/02/05) **Section 3.4**	x			
348.		Placement of markers - Separation/Other locations… 480-93-124 (2) (eff 6/02/05) & 192.707 **Section 3.4**	x			
349.		Installed at each end of bridges or other spans / Inspected **1/YR (15 Months)** 480-93-124 (3) **Section 3.4**	x			
350.		Markers reported missing or damaged replaced within **45 days?** 480-93-124(4) (eff 6/02/05) **Section 3.4 at end**	x			
351.		Surveys of pipeline markers – Not to exceed **5/YR** Records 10/Yrs minimum 480-93-124(5) (eff 6/02/05) **Section 3.1.1 & 3.4**	x			
352.		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) **Inspection form in back of Chapter 3**	x			

Document Title	Document/Section Number	Revision Date

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

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		SUBPART - M TRANSMISSION LINE FIELD REPAIR PROCEDURES	S	U	N/A	N/C
		Imperfections and Damages				
353.	480-93-180(1) / 192.605 (b)	Repairs of imperfections and damages on pipelines operating above **40% SMYS** ***192.713*** ***(a) Each imperfection or damage that impairs the serviceability of pipe in a steel transmission line operating at or above 40 percent of SMYS must be-*** ***(1) Removed by cutting out and replacing a cylindrical piece of pipe; or*** ***(2) Repaired by a method that reliable engineering tests and analyses show can permanently restore the serviceability of the pipe.*** ***(b) Operating pressure must be at a safe level during repair operations.***				
354.		• Cut out a cylindrical piece of pipe and replace with pipe of ≥ design strength .713(a)(1) • **Section 4.2**	x			
355.		• Use of a reliable engineering method .713(a)(2) • **Section 4.4.3 & 4.4.5**	x			
356.		Reduce operating pressure to a safe level during the repair .713(b) **Section 4.4.3- RSTRENG**	x			
		Permanent Field Repair of Welds				
357.		Welds found to be unacceptable under §192.241(c) must be repaired by: .715				
358.		(a) Taking the line out of service and repairing in accordance with **§192.245:** **Section 4.2,** ***192.245*** ***(a) Each weld that is unacceptable under §192.241(c) must be removed or repaired. Except for welds on an offshore pipeline being installed from a pipeline vessel, a weld must be removed if it has a crack that is more than 8 percent of the weld length.*** ***(b) Each weld that is repaired must have the defect removed down to sound metal and the segment to be repaired must be preheated if conditions exist which would adversely affect the quality of the weld repair. After repair, the segment of the weld that was repaired must be inspected to ensure its acceptability.*** ***(c) Repair of a crack, or of any defect in a previously repaired area must be in accordance with written weld repair procedures that have been qualified under §192.225. Repair procedures must provide that the minimum mechanical properties specified for the welding procedure used to make the original weld are met upon completion of the final weld repair.***	x			
359.	480-93-180(1) / 192.605 (b)	• Cracks longer than **8%** of the weld length (except offshore) must be removed • **Section 4.2** • **THIS WAS 2005 PV 7**	x			
360.		• For each weld that is repaired, the defect must be removed down to clean metal and the pipe preheated if conditions demand it • **Section 4.2** • **This was PV 6 in 2005 inspection**	x			
361.		• Repairs must be inspected to ensure acceptability • **Section 4.8**	x			
362.		• Crack repairs or defect repairs in previously repaired areas must be done in accordance with qualified written welding procedures • **Section 4.7.2**	x			
363.		(b) If the line remains in service, the weld may be repaired in accordance with **§192.245** if:				
364.		• The weld is not leaking (1) • **Section 4.2 Paragraph 2**	x			
365.		• he pressure is reduced to produce a stress that is **20% of SMYS or less** (2) • **Section 4.2 Paragraph 3 Shut in System and blow down.**	x			
366.		• Grinding is limited so that **⅛ inch** of pipe weld remains (3) • **Section 4.2 Paragraph 2**	x			

Utilities and Transportation Commission
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Operations and Maintenance Procedures and Plan Review

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		SUBPART - M TRANSMISSION LINE FIELD REPAIR PROCEDURES	S	U	N/A	N/C
367.		• If the weld cannot be repaired in accordance with **(a) or (b)** above, a full encirclement welded split sleeve must be installed (c) **Section 4.2 Paragraph 2**	x			
		Permanent Field Repair of Leaks				
368.		Field repairs of leaks must be made as follows: .717				
369.		• Replace by cutting out a cylinder and replace with pipe similar or of greater design (a) • **Section 4.3.1** • PV 8 in 2005 inspection	x			
370.	480-93-180(1) / 192.605 (b)	• 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) **Mechanical couplings are not permitted see Policy statement for rules not deemed applicable see Section 4.3.1 for bold on clamp**	x			
371.		• A leak due to a corrosion pit may be repaired by installing **a bolt on leak clamp** (b)(2) **Section 4.3.1**	x			
372.	480-93-180(1) / 192.605 (b)	• 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. Section 4.3.4 patches not permitted** • The plate must have **rounded corners** and the same **thickness or greater** than the pipe, and **not more than ½D** of the pipe size (b)(3)	x			
373.		• 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) **Section 4.3.1**	x			
374.		• Apply reliable engineering method (b)(5) **Section 4.3.1**	x			
		Testing of Repairs				
375.	480-93-180(1) / 192.605 (b)	Replacement pipe must be pressure tested to meet the requirements of a new pipeline .719(a) **Section 4.2 Paragraph 5**				
376.		(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) Section 4.8**	x			

		SUBPART - M DISTRIBUTION SYSTEM PATROLLING & LEAKAGE SURVEY PROCEDURES	S	U	N/A	N/C
377.	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) **Section 3.1 & 3.1.7**	x			
378.		Patrolling surveys are required in business distri **Section 3.1.1 Actual Bi-monthly**	x			
379.		Patrolling surveys are required outside business districts at intervals not exceeding 7½ months, but at least twice each calendar year .721 (b)(2) **Section 3.1.1 Actual Bi-monthly**	x			
380.		Periodic leak surveys determined by the nature of the operations and conditions. .723 (a)& (b) **Section 3.2.2 end of section**	x			
381.		In business districts as specified, **1/yr (15 months)** .723(b)(1) **Section 3.2.2 for entire system**	x			
382.		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) **Section 3.2.2 for entire system**	x			

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Operations and Maintenance Procedures and Plan Review

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		SUBPART - M TEST REQUIREMENTS FOR REINSTATING SERVICE LINES	S	U	N/A	N/C
383.	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) **N/A no services**			x	
384.		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) **Section 4.14.2**			x	
385.		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) **Section 4.14.1**			x	

Comments:

		SUBPART - M ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES	S	U	N/A	N/C
386.	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) **Section 4.14.2**	x			
387.		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) **Section 4.14.1**	x			
388.		Whenever service to a customer is discontinued, do the procedures indicate one of the following: .727(d) **N/A No Services**				
389.		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) **N/A No Services**			x	
390.		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) **N/A No Services**			x	
391.		The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed .727(d) (3) **N/A No Services**			x	
392.		If air is used for purging, the operator shall ensure that a combustible mixture is not present after purging .727 (e) **N/A No Services**			x	
393.		Operator must file reports upon abandoning underwater facilities crossing navigable waterways, including offshore facilities. .727(g) **N/A No Services**			x	

Comments:

Utilities and Transportation Commission
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Operations and Maintenance Procedures and Plan Review

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		SUBPART - M PRESSURE LIMITING and REGULATING STATION PROCEDURES	S	U	N/A	N/C
394.	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) **The GP Pipeline does not have any pressure regulation or pressure limiting devices on the pipeline. Devices are owned and maintained by Williams Pipeline**			x	
395.		In good mechanical condition .739(a) (1) **N/A No Regulators**			x	
396.		Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed .739(a)(2) **N/A No Regulators**			x	
397.		Set to control or relieve at correct pressures consistent with .201(a), except for .739(b). .739(a)(3) **N/A No Regulators**			x	
398.		Properly installed and protected from dirt, liquids, other conditions that may prevent proper oper. .739(a)(4) **N/A No Regulators**			x	
399.		For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi gage or more . . . .739(b) **N/A No Regulators**				
400.	480-93-180(1) / 192.605 (b)	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	
401.	480-93-180(1) / 192.605 (b)	Pressure limiting and regulating stations: Telemetering or recording gages 192.741(a) thru (c) **N/A No Regulators**			x	
402.		**N/A No Regulators**			x	

Comments:

		SUBPART - M VALVE AND VAULT MAINTENANCE PROCEDURES	S	U	N/A	N/C
403.	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) **Section 3.1.5 on page 3-5, OQ 13 for emergency shut off**	x			
		Transmission Valves				

Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
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404.	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) **Section 3.1.5 paragraph 2** *(a) Each transmission line valve that might be required during any emergency must be inspected and partially operated at intervals not exceeding 15 months, but at least once each calendar year.*	x			
405.		Prompt remedial action required, or designate alternative valve .745(b) **Section 3.1.5 paragraph 8** *(b) Each operator must take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve.*	x			
		Distribution Valves				
406.	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) **N/A Transmission only**			x	
407.		Prompt remedial action required, or designate alternative valve .747(b) **N/A Transmission only**			x	
		Service Valves	**S**	**U**	**N/A**	**N/C**
408.	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) **N/A Transmission only**			x	
409.		Service valve maintenance **(1 per yr/15 months)** 480-93-100(3) (eff. 06/02/05) **N/A Transmission only**			x	
410.		Service valve installation and maintenance program fully implemented by 6/01/07? 480-93-100(4) (eff. 06/02/05) **N/A Transmission only**			x	
		Vaults				
411.	480-93-180(1) / 192.605 (b)	Inspection of vaults greater than **200 cubic feet (1 per yr/15 months)** .749 **N/A Vault at Valve #2 is less than 200CUFT**			x	

			S	**U**	**N/A**	**N/C**
		SUBPART - M **PREVENTION of ACCIDENTAL IGNITION PROCEDURES**				
412.	480-93-180(1) / 192.605 (b)	Reduce the hazard of fire or explosion by: 192.751 (a) thru (c) *192.751: Each operator shall take steps to minimize the danger of accidental ignition of gas in any structure or area where the presence of gas constitutes a hazard of fire or explosion, including the following:(a) When a hazardous amount of gas is being vented into open air, each potential source of ignition must be removed from the area and a fire extinguisher must be provided.(b) Gas or electric welding or cutting may not be performed on pipe or on pipe components that contain a combustible mixture of gas and air in the area of work.(c) Post warning signs, where appropriate.* **Section 4.9 - welding or cutting not to be preformed,** **Section 4.9 and 2.3.1- fire extinguisher must be provided**	x			

Comments:

Utilities and Transportation Commission
Standard Inspection Report for Intrastate Gas Systems
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S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked

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		SUBPART - M CAULKED BELL AND SPIGOT JOINTS PROCEDURES	S	U	N/A	N/C
413.	480-93-180(1) / 192.605 (b)	Cast-iron caulked bell and spigot joint repair: .753				
414.		• 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) • **N/A No cast iron pipe**			x	
415.		• When subject to 25 psig or less, joints, when exposed for any reason, must be sealed by means other than caulking .753(b) • **N/A No cast iron pipe**			x	

		SUBPART - M PROTECTING CAST-IRON PIPELINE PROCEDURES	S	U	N/A	N/C
416.	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 **N/A No cast iron pipe**				
417.		• Vibrations from heavy construction equipment, trains, trucks, buses or blasting? .755(a) • **N/A No cast iron pipe**			x	
418.		• Impact forces by vehicles? .755(b) • **N/A No cast iron pipe**			x	
419.		• Earth movement? .755(c) • **N/A No cast iron pipe**			x	
420.		• Other foreseeable outside forces which might subject the segment of pipeline to a bending stress .755(d) • **N/A No cast iron pipe**			x	
421.		Provide permanent protection for the disturbed section as soon as feasible .755(e) **N/A No cast iron pipe**			x	

Comments:

		SUBPART N — QUALIFICATION of PIPELINE PERSONNEL	S	U	N/A	N/C
Date of last UTC staff OQ plan review 10-4-2004, docket 040561						
422.	192.801 192.809	Any revisions to plan since last review? Yes No X If yes, review revisions made.	x			
423.	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) **No, no new construction since 1993**	x			

Comments:

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

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		FILING REQUIREMENTS for DESIGN, SPECIFICATION, and CONSTRUCTION	S	U	N/A	N/C
424.	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) **Section 4.16**	x			
425.	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) **Section 4.16 (1)**	x			

		MAPS, DRAWINGS, and RECORDS of GAS FACILITIES	S	U	N/A	N/C
426.	480-93-180(1)	Records updated no later then **6 months** from completion of construction activity and made available to appropriate personnel. 480-93-018(3) **Section 1.3.2**	x			

		PROXIMITY CONSIDERATIONS	S	U	N/A	N/C
427.	480-93-180(1)	Each operator must submit a written request and receive commission approval prior to: 480-93-20(1) **Section 4.16 (3) N/A MAOP ≤ 250 psi**			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) **Section 4.16 (3) N/A MAOP ≤ 250 psi**				
428.	480-93-180(1)	• 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) **Section 4.16 (3) N/A MAOP ≤ 250 psi**			x	
429.	480-93-180(1)	• 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) • **Section 4.16 (3) N/A MAOP ≤ 250 psi**			x	
430.	480-93-180(1)	• A public highway, as defined in RCW 81.80.010(3). 480-93-20 (1)(a)(iii) • **Section 4.16 (3) N/A MAOP ≤ 250 psi**			x	
431.	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) **Section 4.16 (3) N/A MAOP ≤ 250 psi**	S	U	N/A	N/C
432.	480-93-180(1)	• 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) • **Section 4.16 (3) N/A MAOP ≤ 250 psi**			x	
433.	480-93-180(1)	• 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) • **Section 4.16 (3) N/A MAOP ≤ 250 psi**			x	
434.	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) **Section 4.16 (3) N/A MAOP ≤ 250 psi**			x	