

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 Chief Engineer within **30 days** from completion of the inspection.

Inspection Report			
Inspection Number	ID/Docket	8161	
Inspector Name & Submit Date	Darren Tinnerstet and Dave Cullom		
Sr. Eng Name & Review/Date	Joe Subsits, 2//4/2021		
Operator Information			
Name of Operator:	Augean RNG	OP ID #:	TBD
Name of Unit(s):	Headquarters		
Records Location:	Records reviewed remotely		
Date(s) of Last Review:	N/A	Inspection Date	12-16-20 and 1-20-21

<p>Inspection Summary:</p> <p>This technical assistance inspection included a review of Augean RNG’s O&M manual.</p> <p>There were no probable violations or areas of concern.</p> <p>The system, once the line pipe is installed, will start at the digester located at the George Deruyter & Sons Dairy 5121 Dekker Rd, Outlook, WA 98938 and end at the Williams Gate also located on Dekker Rd. There is a non jurisdictional compressor located at the dairy’s digester and a jurisdictional compressor is located at the Williams Northwest Pipeline injection site.</p>

HQ Address:		System/Unit Name & Address:	
Augean RNG Project LLC c/o Brightmark 235 Pine St., Suite 1100 San Francisco, CA 94104		Augean RNG Project LLC – Dekker Rd	
Co. Official:	Matt Atkins	Phone No.:	Brandon Casas 509-840-7023
Phone No.:	509-840-7023	Fax No.:	Brandon Casas 509-840-7023
Fax No.:	N/A	Emergency Phone No.:	N/A
Emergency Phone No.:	509-840-7023		N/A
Persons Interviewed	Title	Phone No.	
Steven Hernandez	Denver Operations Manager	o: (720) 647-3147 c: (318) 349-1952	

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GAS SYSTEM OPERATIONS		
Gas Supplier: Bio Gas – The supplier is a local dairy		
Operating Pressure(s):	MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder: N/A	125 (Design)	N/A – Not operational
Town: N/A	N/A	N/A – Not operational
Other:		
Does the operator have any transmission pipelines? Yes		

Pipe Specifications:			
Year Installed (Range)	March 2020(ongoing)	Pipe Diameters (Range)	4”and 6” (2 lines)
Material Type	HDPE PE4710 line pipe and X-42 compressor pipe	Line Pipe Specification Used	ASTM D-2513 and (API5L for Compressor)
Mileage	8.08 miles per OPID request information	SMYS %	Line pipe is PE. SMYS for PE material is N/A

49 CFR PART 191 & CHAPTER 480-93 WAC

REPORTING PROCEDURES		S	U	N/A	N/C	
1.	480-93-180 (1)	Immediate Notice of certain incidents to NRC (800) 424-8802 , or electronically at http://www.nrc.uscg.mil/nrchp.html , and additional report if significant new information becomes available. Operator must have a written procedure for calculating an initial estimate of the amount of product released in an accident. (Amdt. 192-115, 75 FR 72878, November 26, 2010, eff. 1/1/2011). .191.5 ***Notes – Pipeline Operations, Maintenance & Emergency Manual (OM) Section 19.13	X			
2.		Reports (except SRCR and offshore pipeline condition reports) must be submitted electronically to PHMSA at http://portal.phmsa.dot.gov/pipeline unless an alternative reporting method is authorized IAW with paragraph (d) of this section. (Amdt. 191-115, 75 FR 72878, November 26, 2010, eff. 1/1/2011). 191.7 ***Notes - O&M Section 19.14***	X			
3.		Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9144 (Within 2 hours) for events which; 480-93-200(1) 7 ***Notes – O&M Section 19.13***				
4.		(a) Results in a fatality or personal injury requiring hospitalization; ***Notes – O&M Section 19.13***	X			
5.		(b) Results in damage to the property of the operator and others of a combined total exceeding fifty thousand dollars; ***Notes – O&M Section 19.13***	X			
6.		(c) Results in the evacuation of a building, or high occupancy structures or areas***Notes – O&M Section 19.13***	X			
7.		(d) Results in the unintentional ignition of gas; ***Notes – O&M Section 19.13***	X			
8.		(e) Results in the unscheduled interruption of service furnished by any operator to twenty-five or more distribution customers; ***Notes – O&M Section 19.13***	X			

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REPORTING PROCEDURES			S	U	N/A	N/C
9.		(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 ; ***Notes – O&M Section 19.13***	X			
10.		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 ***Notes – O&M Section 19.13***	X			
11.	480-93-180 (1)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for; 480-93-200(2) ***Notes - O&M Section 19.13	X			
12.		(a) The uncontrolled release of gas for more than two hours; ***Notes – O&M Section 19.13***	X			
13.		b) The taking of a high pressure supply or transmission pipeline or a major distribution supply pipeline out of service; ***Notes – O&M Section 19.13***	X			
14.		(c) A pipeline or system operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or ***Notes – O&M Section 19.13***	X			
15.		(d) A pipeline or system pressure exceeding the MAOP. ***Notes – O&M Section 19.13***	X			
16.		30 day written incident (federal) reports; (DOT Form F 7100.1) 191.9(a) For Transmission & Gathering Lines; (DOT Form F 7100.2) 191.15(a)30-day follow-up written report Submittal must be electronically to http://portal.phmsa.dot.gov/pipeline (Amdt. 192-115, 75 FR 72878, November 26, 2010, eff. 1/1/2011). ***Notes – O&M Section 19.13***	X			
17.		Supplemental incident reports 191.15(c) ***Notes – O&M Section 19.13***	X			
18.		Written incident reports filed with the commission (within 30 days); and include the following; 480-93-200(4) (a) thru (g) ***Notes - O&M Section 19.14***	X			
19.	480-93-180 (1)	Supplemental reports filed with the commission 480-93-200(5) ***Notes - O&M Section 19.14***	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(6) ***Notes - O&M Section 19.13 (currently states within five days of completion or receipt of report)***	X			
21.		Annual Report (DOT Form PHMSA F-7100.2-1) For Transmission & Gathering 191.17(a) Complete and submit DOT Form PHMSA F 7100-2.1 by March 15 of each calendar year for the preceding year. (NOTE: June 15, 2013 for the year 2012). ***Notes - O&M Section 4.4***	X			
22.		Filing Reports of Damage to Gas Pipeline Facilities to the commission. (eff 4/1/2013) (Via the commission’s Virtual DIRT system or on-line damage reporting form) 480-93-200(7) ***Notes - O&M Section 18.10***				
23.		Does the operator report to the commission the requirements set forth in RCW 19.122.053(3) (a) through (n) 480-93-200(7)(a) ***Notes - O&M Section 18.10***	X			
24.		Does the operator report the name, address, and phone number of the person or entity that the company has reason to believe may have caused damage due to excavations conducted <u>without facility locates</u> first being completed? 480-93-200(7)(b) ***Notes - O&M Section 18.10***	X			

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REPORTING PROCEDURES			S	U	N/A	N/C
25.	480-93-180 (1)	Does the operator retain all damage and damage claim records it creates related to damage events reported under 93-200(7)(b), including photographs and documentation supporting the conclusion that a facilities locate was not completed? 480-93-200(7)(c) Note: Records maintained for two years and made available to the commission upon request. ***Notes - O&M Section 18.10***	X			
26.		Does the operator provide the following information to excavators who damage gas pipeline facilities? 480-93-200(8) ***Notes - O&M Section 18.10***				
27.		<ul style="list-style-type: none"> Notification requirements for excavators under RCW 19.122.050(1) 200(8)(a) 	X			
28.		<ul style="list-style-type: none"> A description of the excavator's responsibilities for reporting damages under RCW 19.122.053; and 200(8)(b) ***Notes - O&M Section 18.10*** 	X			
29.		<ul style="list-style-type: none"> Information concerning the safety committee referenced under RCW 19.122.130, including committee contact information, and the process for filing a complaint with the safety committee. 200(8)(c) ***Notes - O&M Section 18.10*** 	X			
30.		Reports to the commission only when the operator or its contractor observes or becomes aware of the following activities... <ul style="list-style-type: none"> An excavator digs within thirty-five feet of a transmission pipeline, as defined by RCW 19.122.020(26) without first obtaining a facilities locate; (200(9)(a) A person intentionally damages or removes marks indicating the location or presence of gas pipeline facilities. 200(9)(b) ***Notes - O&M Section 18.10***	X			
		Annual Reports filed with the commission no later than March 15 for the proceeding calendar year 480-93-200(10) ***Notes - O&M Section 4.4***				
31.		A copy of PHMSA form F-7100.1-1 or F-7100.2-1 annual report required by the PHMSA/OPS 480-93-200(10)(a)	X			
32.		Annual report on construction defects or material failures 480-93-200(10)(b) ***Notes – Added to O&M Section 4.4***	X			
33.		Providing updated emergency contact information to the Commission and appropriate officials 480-93-200(11) ***Notes - O&M Section 19.11***	X			
34.	480-93-180 (1)	Providing daily construction and repair activities reports 480-93-200(12) ***Notes – added to Section 4.17***	X			
35.		Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form (when required) 480-93-200(13) ***Notes – Added to Section 4.17***	X			
36.		Each operator must obtain an OPID, validate its OPIDs, and notify PHMSA of certain events at http://portal.phmsa.dot.gov/pipeline 191.22 ***Notes - O&M Section 4.10 & 4.11***	X			
37.		Safety related condition reports (SRCR) 191.23 ***Notes - O&M Section 14.1***	X			

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REPORTING PROCEDURES			S	U	N/A	N/C
38.		<p>Filing the SRCR within 5 days of determination, but not later than 10 days after discovery 191.25; 49 U.S.C. 60139, Subsection (b)(2)</p> <p>Note: Operators of gas transmission pipelines that if the pipeline pressure exceeds maximum allowable operating pressure (MAOP) plus the build-up, owner/operator must report the exceedance to PHMSA <u>on or before the fifth day</u> following the date on which the exceedance occurs. ***Notes - O&M Section 14.1***</p> <p>The report should be titled “Gas Transmission MAOP Exceedance” and provide the following information:</p> <ul style="list-style-type: none"> • The name and principal address of the operator, date of the report, name, job title, and business telephone number of the person submitting the report. • The name, job title, and business telephone number of the person who determined the condition exists. • The date the condition was discovered and the date the condition was first determined to exist. • The location of the condition, with reference to the town/city/county and state or offshore site, and as appropriate, nearest street address, offshore platform, survey station number, milepost, landmark, and the name of the commodity transported or stored. <p>The corrective action taken before the report was submitted and the planned follow-up or future corrective action, including the anticipated schedule for starting and concluding such action.</p>	X			
39.	192.605(d)	<p>Does the process include instructions enabling personnel who perform operation and maintenance activities to recognize conditions that may potentially be safety-related conditions? ***Notes - O&M Section 14.1***</p>	X			

Required Submission of Data to the National Pipeline Mapping System Under the Pipeline Safety Improvement Act of 2002			S	U	N/A	N/C
49 U.S.C. 60132, Subsection (b) ADB-08-07		<p>Updates to NPMS: Operators are required to make update submissions every 12 months if any system modifications have occurred. Go to http://www.npms.phmsa.dot.gov/submission/ to review existing data on record. <u>Also report no modifications if none have occurred since the last complete submission.</u> Include operator contact information with all updates. ***Notes - O&M Section 4.12***</p>	X			
RCW 81.88.080		<p>Pipeline Mapping System: Has the operator provided accurate maps (or updates) of pipelines, operating over two hundred fifty pounds per square inch gauge, to specifications developed by the commission sufficient to meet the needs of first responders? ***Notes – No pipelines over 250 psig***</p>			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
40.	480-93-180 (1)	Procedures for notifying new customers, within 90 days , of their responsibility for those selections of service lines not maintained by the operator. §192.16 ***Notes - O&M Section 4.7, but N/A for Augean***			X	
41.		Conversion to Service - Any pipelines previously used in service not subject to Part 192? 192.14 ***Notes - O&M Section 3.5, but N/A for Augean***			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				
42.	480-93-180 (1)	For steel pipe, manufactured in accordance with and meet the listed specification found under Appendix B 192.55 ***Notes - O&M Section 20.19 contains material specifications***	X			
		For new plastic pipe, qualified for use under this part if: 192.59(a)				
43.	480-93-180 (1)	<ul style="list-style-type: none"> • It is manufactured in accordance with a listed specification; and 192.59(a)(1) • It is resistant to chemicals with which contact may be anticipated. 192.59(a)(2) ***Notes - O&M Section 15.27***	X			
		For used plastic pipe, qualified for use under this part if: 192.59(b)				
44.	480-93-180 (1)	<ul style="list-style-type: none"> • It was manufactured in accordance with a listed specification; 192.59(b)(1) • It is resistant to chemicals with which contact may be anticipated; 192.59(b)(2) • It has been used only in natural gas service. 192.59(b)(3)(4) • Its dimensions are still within the tolerances of the specification to which it was manufactured; and, 192.59(b) • It is free of visible defects. 192.59(b)(5) ***Notes - O&M Section 15.27***	X			
45.		Marking of Materials 192.63 ***Notes - O&M Section 4.18 contains marking of materials***	X			

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

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SUBPART C – PIPE DESIGN					
46.		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 ***Notes – This is in O&M 20.13***	X		
47.		Design formula for steel pipe. 192.105(a) ***Notes – This is in O&M 20.13***	X		
48.		Yield strength (S) for steel pipe. 192.107 ***Notes – This is in O&M 20.14***	X		
49.		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. ***Notes – This is in O&M 20.15***	X		
50.		Design factor (F) for steel pipe. 192.111 ***Notes – This is in O&M 20.16***			
51.	480-93-180 (1)	(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 ***Notes – This is in O&M 20.16***	X		
52.	480-93-180 (1)	(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. ***Notes – This is in O&M 20.16***	X		
53.		(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. ***Notes – This is in O&M 20.16***	X		

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SUBPART C – PIPE DESIGN				
54.		(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. ***Notes – This is in O&M 20.16***	X	
55.		Longitudinal joint factor (E) for steel pipe. 192.113 ***Notes – This is in O&M 20.17***	X	
56.	480-93-180 (1)	Temperature derating factor (T) for steel pipe. 192.115 ***Notes – This is in O&M 20.18***	X	
For Plastic Pipe				
57.	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 ***Notes – This is in O&M 15.19 and 17.9***	X	
58.		For assuring that the design limitations for plastic pipe are not exceeded. 192.123 (a) thru (e) ***Notes – There is no 192.123***		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				
59.		General requirements.... 192.143 ***Notes – This is in O&M 20.3***	X			
60.		Qualifying metallic components. 192.144 (a) & (b) ***Notes – This is in O&M 20.4***	X			
61.		For steel valves; meeting the minimum requirements of API 6D, or other standard that provides an equivalent performance level. 192.145 (a) thru (e) ***Notes – This is in O&M 20.5***	X			
62.	480-93-180 (1)	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) ***Notes – This is in O&M 20.6***	X			
63.		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) ***Notes – This is in O&M 20.8 and 15.6***	X			

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SUBPART D – DESIGN OF PIPELINE COMPONENTS			S	U	N/A	N/C
64.		Components fabricated by welding. 192.153 (a) thru (d) ***Notes – This is in O&M 16.19. The code is a-c***	X			
65.		Welded branch connections. 192.155 ***Notes – This is in O&M 16.20***	X			
66.		Flexibility. 192.159 ***Notes – This is in O&M 16.21***	X			
67.		Supports and Anchors 192.161(a) (a) thru (f) ***Notes – This is in O&M 20.10***	X			
Compressor Stations						
68.		Compressor stations: Design and construction. 192.163 (a) thru (e) ***Notes – This is in O&M Section 6.2***	X			
69.	480-93-180 (1)	Compressor stations: Liquid removal. 192.165 (a) & (b) ***Notes – This is in O&M Section 6.3***	X			
70.		Compressor stations: Emergency shutdown. 192.167 (a) thru (c) ***Notes – This is in O&M Section 6.9***	X			
71.		Compressor stations: Pressure limiting devices. 192.169 (a) & (b) ***Notes – This is in O&M Section 6.4***	X			
72.		Compressor stations: Additional safety equipment. 192.171 (a) thru (e) ***Notes – This is in O&M Section 6.10***	X			
73.	480-93-180 (1)	Compressor stations: Ventilation. 192.173 ***Notes – This is in O&M Section 6.11***	X			
74.		Pipe-type and bottle-type holders. 192.175 ***Notes – This is in O&M Section 9.11***	X			
75.		Additional provisions for bottle-type holders. 192.177 ***Notes – This is in O&M Section 9.11***	X			
76.		Transmission line valves. 192.179 (a) thru (d) ***Notes – This is in O&M Section 11.6***	X			
77.	480-93-180 (1)	Distribution line valves. 192.181(a) thru (c) ***Notes - No assets of this type in the system***			X	
78.		Vaults: Structural design requirements 192.183 (a) thru (c) ***Notes - No assets of this type in the system***			X	
79.		Vaults: Accessibility 192.185 (a) thru (c) ***Notes - No assets of this type in the system***			X	
80.	480-93-180 (1)	Vaults: Sealing, venting, and ventilation. 192.187 (a) thru (c) ***Notes - No assets of this type in the system***			X	
81.		Vaults: Drainage and waterproofing 192.189 (a) thru (c) ***Notes - No assets of this type in the system***			X	
82.		Design pressure of plastic fittings 192.191 (a) & (b) ***Notes – 191 is Reserved in the code***	—	—	X	—
83.		Valve installation in plastic pipe. 192.193 ***Notes – This is in O&M Section 11.8***	X			
84.	480-93-180 (1)	Protection against accidental over-pressuring 192.195 (a) & (b) ***Notes - O&M Section 9.4	X			
85.		Control of the pressure of gas delivered from high-pressure distribution systems. 192.197 (a) thru (c) ***Notes - No assets of this type in the system***			X	

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SUBPART D – DESIGN OF PIPELINE COMPONENTS			S	U	N/A	N/C
86.		Except for rupture discs, each pressure relief or pressure limiting device must: 192.199 (a) thru (h) ***Notes - O&M Section 9.7 1-8***	X			
87.		Required capacity of pressure relieving and limiting stations. 192.201(c) ***Notes - O&M Section 9.1***	X			
88.		Instrument, Control, and Sampling Pipe and Components 192.203(a) & (b) ***Notes - This is in O&M Section 20.11***	X			

Comments:

SUBPART E – WELDING OF STEEL IN PIPELINES			S	U	N/A	N/C
WAC 480-93-080 – WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION						
89.		Welding procedures must be qualified under Section 5 of API 1104 or Section IX of ASME Boiler and Pressure Code (2001 ed.) by destructive test. Amdt. 192-103 pub 06/09/06, eff. 07/10/06. .225(a) ***Notes - O&M Section 16.3***	X			
90.	480-93-180(1)	Retention of welding procedure – details and test .225(b) ***Notes - O&M Section 16.3***	X			
91.		Welders must be qualified by Section 6 of API 1104 (20th edition 2007, including errata 2008) or Section IX of the ASME Boiler and Pressure Vessel Code (2007 edition, July 1, 2007) , except that a welder qualified under an earlier edition than currently listed in 192.7 may weld, but may not requalify under that earlier edition. (Amdt 192-114 Pub. 8/11/10 eff. 10/01/10). ***Notes - O&M Section 16.4***	X			
92.		Welders may be qualified under section I of Appendix C to weld on lines that operate at < 20% SMYS . .227(b) ***Notes - O&M Section 16.4*** ***Notes - No Appendix C welders used on this system***	X			
		Oxyacetylene welders may qualify under 49 CFR § 192 Appendix C, but may only weld the following size pipe: 480-93-080(1)(a)	S	U	N/A	N/C
93.	480-93-180 (1)	<ul style="list-style-type: none"> Nominal two-inch or smaller branch connections to nominal six-inch or smaller main or service pipe. 480-93-080(1)(a)(i) ***Notes - No Appendix C welders used on this system*** 			X	
94.	480-93-180(1)	<ul style="list-style-type: none"> Nominal two-inch or smaller below ground butt welds 480-93-080(1)(a)(ii) ***Notes - No Appendix C welders used on this system*** 			X	
95.		<ul style="list-style-type: none"> Nominal four-inch or smaller above ground manifold and meter piping operating at 10 psig or less. 480-93-080(1)(a)(iii) ***Notes - No Appendix C welders used on this system*** 			X	
96.		<ul style="list-style-type: none"> Appendix C Welders re-qualified 2/Yr (7.5Months) 480-93-080(1)(a)(iv) ***Notes - O&M Section 16.5*** ***Notes - No Appendix C welders used on this system*** 	X			
97.		Use of testing equipment to record and document essential variables 480-93-080(1)(b) (eff 6/02/05) *** This should be 1(c), but this is done in API 1104 a-f 20th Edition for the procedure.*** ***Notes – This is in O&M Section 16.4***	X			
98.		Qualified written welding procedures must be located on-site where welding is being performed 480-93-080(1)(d) ***Notes – This is in O&M Section 16 Header Table***	X			

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99.		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) ***Notes – This is in O&M Section 16.4 in the WAC portion #3***	X			
100.	480-93-180(1)	To weld on compressor station piping and components, a welder must successfully complete a destructive test .229(a) ***Notes - O&M Section 16.5***	X			
101.		Welder must have used welding process within the preceding 6 months .229(b) ***Notes - O&M Section 16.5***	X			
102.		A welder qualified under .227(a)... .229(c)				
103.		<ul style="list-style-type: none"> May not weld on pipe that operates at \geq 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 ***Notes - O&M Section 16.5***exceeding 7½ months; may not requalify under an earlier referenced edition. .229(c)(1) 	X			
104.		<ul style="list-style-type: none"> 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)***Notes - O&M Section 16.5*** 	X			
		Welders qualified under .227(b) may not weld unless: .229(d)	S	U	N/A	N/C
105.	480-93-180(1)	<ul style="list-style-type: none"> Re-qualified within 1 year/15 months, or .229(d)(1) ***Notes - O&M Section 16.5*** 	X			
106.		<ul style="list-style-type: none"> Within 7½ months but at least twice per year had a production weld pass a qualifying test .229(d)(2) ***Notes - O&M Section 16.5*** 	X			
107.		Welding operation must be protected from weather .231 ***Notes - O&M Section 16.9***	X			
108.		Miter joints (consider pipe alignment) .233 ***Notes - O&M Section 16.7***	X			
109.		Welding preparation and joint alignment .235 ***Notes - O&M Section 16.7***	X			
110.		Visual inspection must be conducted by an individual qualified by appropriate training and experience to ensure: .241(a) thru (c) ***Notes - O&M Section 16.11***	X			
111.		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) ***Notes - O&M Section 16.12***	X			
112.	Repair or removal of defects.245 (a) thru (c) ***Notes - O&M Section 16.13***	X				
		<ul style="list-style-type: none"> Sleeve Repair – low hydrogen rod (Best Practices –ref. API 1104 App. B, In Service Welding) 				

Comments:

SUBPART F - JOINING OF PIPELINE MATERIALS OTHER THAN BY WELDING			S	U	N/A	N/C
WAC 480-93-080 – WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION						
113.		Joining of plastic pipe .281 ***Notes - O&M Section 16.14***				
114.		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) ***Notes - O&M Section 16.14***	X			
115.		Each solvent cement joint on plastic pipe must comply with the following: .281(b)	X			

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		Notes - O&M Section 16.14				
116.	480-93-180(1)	<ul style="list-style-type: none"> The mating surfaces of the joint must be clean, dry, and free of material which might be detrimental to the joint. .281(b)(1) ***Notes - O&M Section 16.14*** 	X			
117.		<ul style="list-style-type: none"> The solvent cement must conform to ASTM Designation: D 2513. .281(b)(2) ***Notes - O&M Section 16.14*** 	X			
118.		<ul style="list-style-type: none"> The joint may not be heated to accelerate the setting of the cement. .281(b)(3) ***Notes - O&M Section 16.14*** 	X			
119.		Each heat-fusion joint on plastic pipe must comply with the following: .281(c) ***Notes - O&M Section 16.14				
120.		<ul style="list-style-type: none"> 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) ***Notes - O&M Section 16.14*** 	X			
121.		<ul style="list-style-type: none"> 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) ***Notes - O&M Section 16.14*** 	X			
122.		<ul style="list-style-type: none"> 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) ***Notes - O&M Section 16.14*** 	X			
123.		<ul style="list-style-type: none"> Heat may not be applied with a torch or other open flame. .281(c)(4) ***Notes - O&M Section 16.14*** 	X			
124.		Each adhesive joint on plastic pipe must comply with the following: .281(d) ***Notes - O&M Section 16.14***				
125.		<ul style="list-style-type: none"> The adhesive must conform to ASTM Designation: D 2517. .281(d)(1) ***Notes - O&M Section 16.14*** 	X			
126.		<ul style="list-style-type: none"> The materials and adhesive must be compatible with each other. .281(d)(1) ***Notes - O&M Section 16.14*** 	X			
127.		Each compression type mechanical joint on plastic pipe must comply with the following: .281(e) ***Notes - O&M Section 16.14***				
128.		<ul style="list-style-type: none"> The gasket material in the coupling must be compatible with the plastic. .281(e)(1) ***Notes - O&M Section 16.14*** 	X			
129.	<ul style="list-style-type: none"> A rigid internal tubular stiffener, other than a split tubular stiffener, must be used in conjunction with the coupling. .281(e)(2) ***Notes - O&M Section 16.14*** 	X				
130.	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)					
131.	The burst test requirements of– .283(a)(1) ***Notes - O&M Section 16.15***					
132.	<ul style="list-style-type: none"> 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) ***Notes - O&M Section 16.15*** 	X				

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133.	480-93-180(1)	<ul style="list-style-type: none"> 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) ***Notes - O&M Section 16.15*** 	X			
134.		<ul style="list-style-type: none"> Electrofusion fittings for polyethylene pipe and tubing: paragraph 9.1 (Minimum Hydraulic Burst Pressure Test), paragraph 9.2 (Sustained Pressure Test), paragraph 9.3 (Tensile Strength Test), or paragraph 9.4 (Joint Integrity Tests) of ASTM Designation F1055. .283(a)(1)(iii) 	X			
135.		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) ***Notes - O&M Section 16.15***	X			
136.		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) ***Notes - O&M Section 16.15***	X			
137.		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) ***Notes - O&M Section 16.15***				
138.		<ul style="list-style-type: none"> Use an apparatus for the test as specified in ASTM D 638 (except for conditioning). .283(b)(1) ***Notes - O&M Section 16.15*** 	X			
139.	480-93-180(1)	<ul style="list-style-type: none"> The specimen must be of such length that the distance between the grips of the apparatus and the end of the stiffener does not affect the joint strength. .283(b)(2) ***Notes - O&M Section 16.15*** 	X			
140.		<ul style="list-style-type: none"> The speed of testing is 0.20 in. (5.0 mm) per minute, plus or minus 25 percent. .283(b)(3) ***Notes - O&M Section 16.15*** 	X			
141.		<ul style="list-style-type: none"> Pipe specimens less than 4 inches (102 mm) in diameter are qualified if the pipe yields to an elongation of no less than 25 percent or failure initiates outside the joint area. .283(b)(4) ***Notes - O&M Section 16.15*** 	X			
142.		<ul style="list-style-type: none"> Pipe specimens 4 inches (102 mm) and larger in diameter shall be pulled until the pipe is subjected to a tensile stress equal to or greater than the maximum thermal stress that would be produced by a temperature change of 100° F (38° C) or until the pipe is pulled from the fitting. If the pipe pulls from the fitting, the lowest value of the five test results or the manufacturer's rating, whichever is lower must be used in the design calculations for stress. .283(b)(5) ***Notes - O&M Section 16.15*** 	X			
143.		<ul style="list-style-type: none"> Each specimen that fails at the grips must be retested using new pipe. .283(b)(6) ***Notes - O&M Section 16.15*** 	X			
144.		<ul style="list-style-type: none"> Results pertain only to the specific outside diameter, and material of the pipe tested, except that testing of a heavier wall pipe may be used to qualify pipe of the same material but with a lesser wall thickness. .283(b)(7) ***Notes - O&M Section 16.15*** 	X			
145.		A copy of each written procedure being used for joining plastic pipe must be available to the persons making and inspecting joints. .283(c) ***Notes - O&M Section 16.15***	X			

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146.		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) ***Notes - O&M Section 16.15	X			
147.		No person may make a plastic pipe joint unless that person has been qualified under the applicable joining procedure by: .285(a) ***Notes - O&M Section 16.16***				
148.		<ul style="list-style-type: none"> Appropriate training or experience in the use of the procedure; and .285(a)(1) ***Notes - O&M Section 16.16*** 	X			
149.	480-93-180(1)	<ul style="list-style-type: none"> Making a specimen joint from pipe sections joined according to the procedure that passes the inspection and test set forth in paragraph (b) of this section. .285(a)(2) ***Notes - O&M Section 16.16*** 	X			
150.		The specimen joint must be: .285(b)				
151.		<ul style="list-style-type: none"> Visually examined during and after assembly or joining and found to have the same appearance as a joint or photographs of a joint that is acceptable under the procedure; and .285(b)(1) ***Notes - O&M Section 16.16*** 	X			
152.		<ul style="list-style-type: none"> In the case of a heat fusion, solvent cement, or adhesive joint; .285(b)(2)***Notes - O&M Section 16.16*** 	X			
153.	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) ***Notes - O&M Section 16.16***	X			
154.		Examined by ultrasonic inspection and found not to contain flaws that may cause failure; or .285(b)(2)(ii) ***Notes - O&M Section 16.16***	X			
155.		Cut into at least three longitudinal straps, each of which is: .285(b)(2)(iii) ***Notes - O&M Section 16.16***	X			
156.		Visually examined and found not to contain voids or discontinuities on the cut surfaces of the joint area; and .285(b)(2)(iii)(A) ***Notes - O&M Section 16.16***	X			
157.		Deformed by bending, torque, or impact, and if failure occurs, it must not initiate in the joint area. .285(b)(2)(iii)(B) ***Notes - O&M Section 16.16***	X			
158.		A person must be requalified under an applicable procedure, if during any 12-month period that person: .285(c)				
159.	480-93-180(1)	• Does not make any joints under that procedure; or .285(e)(1) ***Notes - There is no e1 in the code***	—	—	X	—
160.		• 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(e)(2)) ***Notes - There is no e2***	—	—	X	—
161.		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) ***Notes - O&M Section 16.16***	X			
		Plastic pipe joiners re-qualified 1/Yr (15 Months) 480-93-080 (2) ***Notes - O&M Section 16.16				
162.		<ul style="list-style-type: none"> Qualified written plastic joining procedures must be located on-site where plastic joining is being performed. 480-93-080(2)(a) ***Notes - O&M Section 16.4 Header Table and Item 2*** 	X			
163.	480-93-180(1)	<ul style="list-style-type: none"> Plastic pipe joiners re-qualified if no production joints made during any 12 month period 480-93-080(2)(b) (eff 6/02/05) ***Notes - O&M Section 16.4 Header Table and Item 2*** 	X			

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164.		<ul style="list-style-type: none"> Tracking production joints or re-qualify joiners 1/Yr (12Months) 480-93-080(2)(c) (eff 6/02/05) ***Notes - O&M Section 16.4 Header Table and Item 2*** 	X			
165.	480-93-180(1) / 192.273(b)	No person may carry out the inspection of joints in plastic pipes required by §§192.273(c) and 192.285(b) unless that person has been qualified by appropriate training or experience in evaluating the acceptability of plastic pipe joints made under the applicable joining procedure. .287 ***Notes - O&M Section 16.17***	X			

Comments:

SUBPART G – CONSTRUCTION REQUIREMENTS for TRANSMISSION LINES and MAINS			S	U	N/A	N/C
166.		Compliance with specifications or standards. 192.303 ***Notes - O&M Section 20.2***	X			
167.		Inspection of each transmission line and main during construction 192.305 ***Notes - O&M Section 16 in the Header.***	X			
168.	480-93-180(1)	Inspection of materials 192.307 ***Notes - O&M Section 15 Table***	X			
169.		Repair of steel pipe 192.309 (a) thru (e) ***Notes - O&M Section 15.27***	X			
170.		Repair of plastic pipe. 192.311 ***Notes - O&M Section 15.14***	X			
171.		Bends and elbows. 192.313 (a) thru (c) ***Notes - O&M Section 15.15***	X			
172.		Wrinkle bends in steel pipe. 192.315 (a) & (b) ***Notes - O&M Section 15.16***	X			
173.		Protection from hazards 192.317 (a) thru (c) ***Notes - O&M Section 15.17***	X			
174.		Installation of Pipe in a ditch 192.319 (a) thru (c) ***Notes - O&M Section 15.18***	X			
175.		Installation of plastic pipe. 192.321 (a) thru (h) ***Notes - O&M Section 15.19***	X			
480-93-178 WAC PROTECTION OF PLASTIC PIPE			S	U	N/A	N/C
176.	480-93-180(1)	Procedures for the storage, handling, and installation of plastic pipelines in accordance with the latest applicable manufacturer's recommended practices. 480-93-178(1) ***Notes - O&M Section 15.27***	X			
177.		Stated acceptable time limit for maximum cumulative ultraviolet light exposure 480-93-178 (2) ***Notes - O&M Section 20.21***	X			
178.		Separation requirements when installing plastic pipelines parallel to other underground utilities 480-93-178 (4) ***Notes - O&M Section 15.21***	X			
179.		Separation requirements when installing plastic pipelines perpendicular to other underground utilities 480-93-178 (5) ***Notes - O&M Section 15.21***	X			
180.		Casings 192.323 (a) thru (d) ***Notes - O&M Section 15.20***	X			
181.		Casing of pipelines. 480-93-115 (1) thru (4) ***Notes - O&M Section 15.20***	X			
182.		Underground clearance. 192.325 (a) thru (d). ***Notes - O&M Section 15.21***	X			
183.		Cover. 192.327 (a) thru (g) ***Notes - O&M Section 15.22***	X			

Comments:

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SUBPART H - CUSTOMER METERS, SERVICE REGULATORS, and SERVICE LINES				S	U	N/A	N/C
184.		Meters and service regulators installed at locations as prescribed under 192.353 (a) thru (d)			X		
185.	480-93-180 (1)	Service regulator vents and relief vents installed and protected from damage. Vaults housing meters and regulators protected from loading due to vehicular traffic. 192.355 (a) thru (c)			X		
186.	480-93-180 (1)	Meters and regulators installed to minimize stresses and insure that potential releases vent to outside atmosphere. 192.357 (a) thru (d)			X		
480-93-140 WAC				S	U	N/A	N/C
SERVICE REGULATORS							
187.	480-93-180	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)			X		
188.	(1)	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)			X		
189.	480-93-180 (1)	Minimum service line installation requirements as prescribed under 192.361 (a) thru (g)			X		
190.		Location of service-line valves as prescribed under 192.365 (a) thru (c)			X		
191.		General requirements for locations of service-line connections to mains and use of compression fittings 192.367 (a) thru (b)(2)			X		
192.		Connections of service lines to cast iron or ductile iron mains. 192.369 (a) thru (b)			X		
193.		Provisions for new service lines not in use 192.379 (a) thru (c)			X		
194.		EFV performance requirements §192.381 (a) thru (e)			X		
195.		Excess flow valves, does the program must meet the requirements outlined in §192.38?			X		
196.		Customer notification in accordance with §192.383.			X		

Comments:
*****Notes Items 184-186 – NO meters, regulators, or service lines.*****
*****Notes Items 187-196 – NO service regulators.*****

SUBPART I - CORROSION CONTROL				S	U	N/A	N/C
197.	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 ***Notes - O&M Section 10 General***	X				
198.		Written procedures explaining how cathodic protection related surveys, reads, and tests will be conducted. 480-93-110(4) ***Notes - O&M Section 10.5 ***	X				
199.		Recording the condition of all underground metallic facilities each time the facilities are exposed. 480-93-110(6) ***Notes - O&M Section 10.4 ***	X				
200.		CP test reading on all exposed facilities where coating has been removed 480-93-110(8) (eff 6/02/05) ***Notes - O&M Section 10.4 ***	X				

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SUBPART I - CORROSION CONTROL			S	U	N/A	N/C
201.	480-93-180(1)	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) 480-93-110(2) ***Notes - O&M Section 10.13***	X			
202.		Electrical surveys (closely spaced pipe to soil) on bare/unprotected lines, cathodically protect active corrosion areas (1 per 3 years/39 months) .465(e) ***Notes – New installation – no bare unprotected pipe. Active corrosion areas is discussed in 10.4***			X	
203.		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) ***Notes - O&M Section 192.475 Form is used to document.***	X			
204.		Written atmospheric corrosion control monitoring program. The program must have time frames for completing remedial action. 480-93-110(9) (eff 6/02/05) ***Notes - O&M Section 10.10 and 10.12 for remedial***	X			
205.		Remedial measures (cast iron and ductile iron pipelines) .489 ***Notes - No Cast iron or ductile iron***			X	
206.		Records retained for <u>each</u> cathodic protection test, survey, or inspection required by 49 CFR Subpart I, and chapter 480-93 WAC. 480-93-110 ***Notes - O&M Section 4.6***	X			
WAC 480-93-110 Corrosion Requirements			S	U		N/C
207.	480-93-180(1)	Casings inspected/tested annually not to exceed fifteen months 480-93-110(5) ***Notes - O&M Section 10.16***	X			
208.		Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods 480-93-110(5)(a) ***Notes – No casings installed prior to 1992.***			X	
209.		Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days 480-93-110(5)(b) ***Notes - O&M Section 10.13 and 10.16***	X			
210.		Casing shorts cleared when practical 480-93-110(5)(c) ***Notes - O&M Section 10.16***	X			
211.		Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months 480-93-110(5)(d) ***Notes - O&M Section 10.16***	X			
212.		CP Test Equipment and Instruments checked for accuracy/intervals (Mfct Rec or Opr Sched) 480-93-110(3) ***Notes - O&M Section 10.19***	X			

Comments:

SUBPART J – TEST REQUIREMENTS			S	U	N/A	N/C
213.	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. ***Notes - O&M Section 17.1***	X			
214.		Strength test requirements for steel pipeline to operate at a hoop stress of 30 percent or more of SMYS. 192.505 (a) thru (e) ***Notes - O&M Section 17.3***	X			
215.		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) ***Notes - O&M Section 17.5***Notes – MAOP is 125psig. -DCC)	X			
216.		Test requirements for pipelines to operate below 100 psig. 192.509 (a) & (b) ***Notes - O&M Section 17.6***	X			

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217.		Test requirements for service lines. 192.511 (a) thru (c) ***Notes – the operator does not have any of these assests***			X	
218.		Test requirements for plastic pipelines. 192.513 (a) thru (d) ***Notes - O&M Section 17.9	X			
219.		Environmental protection and safety requirements. 192.515 (a) & (b) ***Notes - O&M Section 17.2***	X			
220.		Records 192.517 Refer also to 480-93-170 (7) (a-h) below. ***Notes - O&M Section 17.7 Records in Section 4.2***	X			

Comments:
Items 214-215 – No steel pipeline.
Item 217 – No service lines.

WAC 480-93-170 PRESSURE TEST PROCEDURES			S	U	N/A	N/C
221.		Notification in writing, to the commission, at least three 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) ***Notes - O&M Section 17.10***	X			
222.		<ul style="list-style-type: none"> In Class 3 or Class 4 locations, as defined in 49 CFR § 192.5, or within one hundred yards of a building, must be at least eight hours in duration. 480-93-170(1)(a) ***Notes - O&M Section 17.10*** 	X			
223.	480-93-180(1)	<ul style="list-style-type: none"> When the test medium is to be a gas or compressible fluid, each operator must notify the appropriate public officials so that adequate public protection can be provided for during the test. 480-93-170(1)(b) ***Notes - O&M Section 17.10*** 	X			
224.		<ul style="list-style-type: none"> In an emergency situation where it is necessary to maintain continuity of service, the requirements of subsection (1) of this section and subsection (1)(a) may be waived by notifying the commission by telephone prior to performing the test. 480-93-170(1)(c) ***Notes - O&M Section 17.10*** 	X			
225.		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) ***Notes - O&M Section 17.10***	X			
226.		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) ***Notes - O&M Section 17.10***	X			
227.		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). ***Notes - O&M Section 17.10***	X			
228.	480-93-180(1)	Maintain records of each test where multiple pressure tests are performed on a single installation. 480-93-170(9) ***Notes - O&M Section 17.10***	X			
229.		Pressure testing equipment must be maintained, tested for accuracy, or calibrated, in accordance with the manufacturer's recommendations. 480-93-170(10) ***Notes - O&M Section 17.10***	X			
230.		<ul style="list-style-type: none"> When there are no manufacturer's recommendations, then tested at an appropriate schedule determined by the operator. 	X			

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231.		<ul style="list-style-type: none"> Test equipment must be tagged with the calibration or accuracy check expiration date. 	X			
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Comments:

SUBPART K - UPRATING						
		Provisions for meeting the minimum requirements for increasing maximum allowable operating pressure (uprating) for pipelines.	S	U	N/A	N/C
232.		General requirements. 192.553 (a) thru (d) ***Notes - O&M Section 9.12***	X			
233.	480-93-180(1)	Uprating to a pressure that will produce a hoop stress of 30 % or more of SMYS in steel pipelines. 192.555 (a) thru (e) ***Notes - O&M Section 9.12***	X			
234.		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) ***Notes - O&M Section 9.12***	X			
WAC 480-93-155 - UPRATING						
235.		Notification of uprate and submission of written plan 480-93-155 (1) ***Notes - O&M Section 9.13***	X			
236.	480-93-180(1)	Content of written plan... 480-93-155 (1) (a) thru (j) ***Notes - O&M Section 9.15 a-j***	X			
237.		Uprates must be based on a previous or current pressure test that will substantiate the intended MAOP. 480-93-155 (2) ***Notes - O&M Section 9.15***	X			

Comments:

SUBPART L - OPERATIONS						
			S	U	N/A	N/C
238.	480-93-180(1) / 192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months) 192.605(a) Note: Including review of OQ procedures as suggested by PHMSA - ADB-09-03 dated 2/7/09 ***Notes - O&M Section 2.1***	X			
239.		Availability of construction records, maps, operating history to operating personnel 192.605(b)(3) ***Notes - O&M Section 4.2***	X			

Comments:

SUBPART – L DAMAGE PREVENTION PROGRAM PROCEDURES						
			S	U	N/A	N/C
240.		Damage Prevention (Operator Internal Performance Measures)	S	U	N/A	N/C
241.		Does the operator have a quality assurance program in place for monitoring the locating and marking of facilities? Do operators conduct regular field audits of the performance of locators/contractors and take action when necessary? (CGA Best Practices, Best Practice 4-18. Recommended only, not required) ****Notes – No they do not.****	X			

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242.		Does operator include performance measures in facility locating services contracts with corresponding and meaningful incentives and penalties? ****Notes – No they do not. ****	X			
243.		Do locate contractors address performance problems for persons performing locating services through mechanisms such as re-training, process change, or changes in staffing levels? ****Notes – They do not plan to use locate contractors. ****	X			
244.		Does the operator periodically review the Operator Qualification plan criteria and methods used to qualify personnel to perform locates? ***Notes – This is in Task 19. The plan is reviewed annually ***	X			
245.		Review operator locating and excavation <u>procedures</u> for compliance with state law and regulations ***Notes - O&M Section 18.4 ***	X			
246.		Are locates are being made within the timeframes required by state law and regulations? Examine record sample. ****Notes – O&M Section 18.1 ****	X			
247.		Are locating and excavating personnel properly <u>qualified</u> in accordance with the operator’s Operator Qualification plan and with federal and state requirements? ****Notes – Reviewed in OQ plan. Task 19 ****	X			
248.		Informational purposes only. Not Required. Does the pipeline operator voluntarily submit pipeline damage statistics into the UTC Damage Information Reporting Tool (DIRT)? Operator may register at https://identity.damagereporting.org/cgareg/control/login.do Y N ****Notes – No data – Not yet operating ****				X
249.		PHMSA Areas of Emphasis:				
		<ul style="list-style-type: none"> Does the operator have directional drilling/boring procedures which include taking actions necessary to protect their facilities from the dangers posed by drilling and other trenchless technologies? ***Notes - O&M Section 18.9*** 	X			
250.		<ul style="list-style-type: none"> Does the operator review records of accidents and failures due to excavation damage to ensure causes of failures are addressed to minimize the possibility of recurrence? ****Notes – No data – Not yet operating ****				X

Comments:

SUBPART – L FAILURE INVESTIGATION PROCEDURES			S	U	N/A	N/C
251.	480-93-180(1) / 192.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617 ***Notes - O&M Section 19.17 ***	X			

Comments:

WAC 480-93-015 ODORIZATION PROCEDURES			S	U	N/A	N/C
252.		Use of odorant testing instrumentation/Monthly testing interval 480-93-015 (2) ***Notes - O&M Section 7.10 ***	X			
253.		Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) 480-93-015 (3) ***Notes - O&M Section 7.10 ***	X			

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254.	480-93-180(1)	Records maintained for usage, odorant tests performed and equipment calibration (5yrs) 480-93-015(4) ***Notes - O&M Section 7.10 Records 4.4 item 4.***	X			
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Comments:
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SUBPART – L PIPELINE PURGING PROCEDURES			S	U	N/A	N/C
255.	480-93-180(1)	(a) Lines containing air must be properly purged. ***Notes - O&M Section 15.6-15.11***	X			
256.	480-93-180(1)	(b) Lines containing gas must be properly purged ***Notes - O&M Section 15.6-15.11***	X			

Comments:

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.				
257.	480-93-180(1)	<ul style="list-style-type: none"> received from any outside source such as a police or fire department, other utility, contractor, customer, or the general public 480-93-185(1) ***Notes - O&M Section 7.8*** 	X			
258.	480-93-180(1)	<ul style="list-style-type: none"> Grade leak in accordance with WAC 480-93-186, and take appropriate action 480-93-185(1) ***Notes - O&M Section 7.8*** 	X			
259.	480-93-180(1)	<ul style="list-style-type: none"> retain the leak investigation record for the life of the pipeline. 480-93-185(1) ***Notes - O&M Section 7.11*** 	X			
260.	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) ***Notes - O&M Section 7.11***	X			
261.	480-93-180(1)	Taking appropriate action when leak indications originating from a foreign source. Notification requirements. 480-93-185(3) ***Notes - O&M Section 7.11***	X			

WAC 480-93-186 LEAK EVALUATION			S	U	N/A	N/C
262.	480-93-180(1)	Grade leaks as defined in WAC 480-93-18601 to establish the leak repair priority. 480-93-186(1) ***Notes - O&M Section 7.8***	X			
263.	480-93-180(1)	Procedure for evaluating the concentration and extent of gas leakage 480-93-186(2) Note: Including third-party damage where there is a possibility of multiple leaks and underground migration into nearby buildings. ***Notes - OMM Section 7.9***	X			

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264.	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) ***Notes - O&M Section 7.8***	X			
265.	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) ***Notes - O&M Section 7.8***	X			

Comments:

WAC 480-93-187 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)				
266.	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. ***Notes - O&M Section 7.12***	X			

Comments:

WAC 480-93-188			S	U	N/A	N/C
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GAS LEAK SURVEYS					
267.	480-93-180(1)	gas leak surveys using a gas detection instrument covering areas listed in 480-93-188(1)(a-e) ***Notes - O&M Section 7.6***	X		
268.		Gas detection instruments tested for accuracy/intervals (Mfct rec or monthly not to exceed 45 days) 480-93-188(2) ***Notes - O&M Section 7.6***	X		
269.		Surveys conducted according to the minimum frequencies outlined under 480-93-188(3)(a-d) ***Notes - O&M Section 7.6***	X		
270.		Surveys conducted under the following circumstances outlined under 480-93-188(4)(a-e) *** O&M Section 7.6***	X		
271.		Survey records must be kept for a minimum of five years and contain information required under 480-93-188(5)(a-f) ***Notes - O&M Section 7.6***	X		
272.		Self audits as necessary, but not to exceed three years between audits and meet the criteria outlined under 480-93-188(6)(a-e) ***Notes - O&M Section 7.6***	X		

Comments:

SUBPART - M						
VALVE AND VAULT MAINTENANCE PROCEDURES						
			S	U	N/A	N/C
Service Valves			S	U	N/A	N/C
273.	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)?			X	
274.		Service valve maintenance (1 per yr/15 months) 480-93-100(3)			X	
275.		Service valve installation and maintenance program fully implemented by 6/01/07? 480-93-100(6)			X	

Comments:
Items 273-275 – *Notes – The operator does not have any of these assests - No service valves. *****

SUBPART N — QUALIFICATION of PIPELINE PERSONNEL						
Date of last UTC staff OQ plan review						
			S	U	N/A	N/C
276.	480-93-180(1)	Have “New Construction” activities been identified and included in the operator’s covered task list? 480-93-013 ***Notes – OQ Manual task list contains this.***	X			

Comments:
 Item 276 – No new construction.

FILING REQUIREMENTS for DESIGN, SPECIFICATION, and CONSTRUCTION						
			S	U	N/A	N/C
277.	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) ***Notes - O&M Section 4.3***	X			

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278.	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) ***Notes - O&M Section 4.3***	X			
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MAPS, DRAWINGS, and RECORDS of GAS FACILITIES			S	U	N/A	N/C
279.	480-93-180(1)	Records updated no later than 6 months from completion of construction activity and made available to appropriate personnel. 480-93-018(3) ***Notes - O&M Section 4.3***	X			

PROXIMITY CONSIDERATIONS			S	U	N/A	N/C
280.	480-93-180(1)	Each operator must submit a written request and receive commission approval prior to: 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) <ul style="list-style-type: none"> • A building that is in existence or under construction prior to the date authorization for construction is filed with the commission, and that is not owned and used by the petitioning operator in its gas operations; or : 480-93-20 (1)(a)(i) • 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) • A public highway, as defined in RCW 81.80.010(3). 480-93-20 (1)(a)(iii) ***Notes - O&M Section 9.10***	X			
281.	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) <ul style="list-style-type: none"> • A building that is in existence or under construction prior to the date authorization for construction is filed with the commission, and that is not owned and used by the petitioning operator in its gas operations; or: 480-93-20(1)(b)(i) • 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) 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) ***Notes - O&M Section 9.10***	X			

Comments:

Attachment 1
Alternative Maximum Allowable Operating Pressure

For additional guidance refer to <http://primis.phmsa.dot.gov/maop/faqs.htm>

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For FAQs refer to <http://primis.phmsa.dot.gov/maop/faqs.htm>

Recent PHMSA Advisory Bulletins (Last 2 years)

<u>Number</u>	<u>Date</u>	<u>Subject</u>
ADB-2013-07	July 12, 13	Potential for Damage to Pipeline Facilities Caused by Flooding
ADB-2012-10	Dec 5, 12	Using Meaningful Metrics in Conducting Integrity Management Program Evaluations
ADB-2012-09	Oct 11, 12	Communication During Emergency Situations
ADB-2012-08	Jul 31, 12	Inspection and Protection of Pipeline Facilities After Railway Accidents
ADB-12-07	Jun 11, 12	Mechanical Fitting Failure Reports
ADB-12-06	May 7, 12	Verification of Records establishing MAOP and MOP
ADB-12-05	Mar 23, 12	Cast Iron Pipe (Supplementary Advisory Bulletin)
ADB -12-04	Mar 21, 12	Implementation of the National Registry of Pipeline and Liquefied Natural Gas Operators
ADB-12-03	Mar 6, 12	Notice to Operators of Driscopipe 8000 High Density Polyethylene Pipe of the Potential for Material Degradation
ADB-11-05	Sep 1, 11	Potential for Damage to Pipeline Facilities Caused by the Passage of Hurricanes
ADB-11-04	Jul 27, 11	Potential for damage to pipeline facilities caused by severe flooding.

For more PHMSA Advisory Bulletins, go to <http://phmsa.dot.gov/pipeline/regs/advisory-bulletin>