

**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 ID/Docket Number	7251		
Inspector Name & Submit Date	Scott Anderson 4/20/2017 Lead: Anthony Dorrough		
Sr. Eng Name & Review/Date	Joe Subsits, 4/26/17		
Operator Information			
Name of Operator:	Avista Utilities	OP ID #:	31323
Name of Unit(s):	Headquarters		
Records Location:	1411 East Mission, PO Box 3727, Spokane, WA 99220		
Date(s) of Last Review:	4/11/2012	Inspection Date	Office 2/23/17-3/30/17 On-site 4/18/17

<p>Inspection Summary:</p> <p>This was an inspection of Avista Utilities Gas Standards Manual (GSM) and their Gas Emergency Standards Handbook(GESH).</p>
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HQ Address: 1411 East Mission PO Box 3727 Spokane, WA 99220		System/Unit Name & Address: N/A	
Co. Official:	Heather Rosentrater	Phone No.:	N/A
Phone No.:	509-495-4430	Fax No.:	N/A
Fax No.:		Emergency Phone No.:	N/A
Emergency Phone No.:			N/A
Persons Interviewed	Title	Phone No.	
Randy Bareither	Pipeline Safety Engineer	509-495-8716	
Karen Cash	Compliance Manager	509-495-2856	

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GAS SYSTEM OPERATIONS			
Gas Supplier		Williams NW Pipeline	
Operating Pressure(s):		MAOP (Within last year)	
Feeder: Multiple		Multiple	
Town:			
Other:			
Does the operator have any transmission pipelines? Yes			

Pipe Specifications:			
Year Installed (Range)	1956-present	Pipe Diameters (Range)	½”-24”
Material Type	DuPont Adyl-A, Polyethylene, steel	Line Pipe Specification Used	
Mileage	3401 dist., 123 trans.	SMYS %	24%

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 Telephonic incident reporting manual	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 GESH Sec. 13, Pg. 7-8/GSM Spec. 4.14	X			
3.		Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9144 (Within 2 hours) for events which; 480-93-200(1) Telephonic incident reporting manual/GESH SEC. 13 pg 8				
4.		(a) Results in a fatality or personal injury requiring hospitalization;	X			
5.		(b) Results in damage to the property of the operator and others of a combined total exceeding fifty thousand dollars;	X			
6.		(c) Results in the evacuation of a building, or high occupancy structures or areas	X			
7.		(d) Results in the unintentional ignition of gas;	X			
8.		(e) Results in the unscheduled interruption of service furnished by any operator to twenty-five or more distribution customers;	X			
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 ;	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	X			
11.		Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9144 (Within 24 hours) for; 480-93-200(2) GESH Sec. 13, Pg. 7-8	X			
12.		(a) The uncontrolled release of gas for more than two hours;	X			
13.		b) The taking of a high pressure supply or transmission pipeline or a major distribution supply pipeline out of service;	X			
14.		(c) A pipeline or system operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or	X			
15.		(d) A pipeline or system pressure exceeding the MAOP.	X			

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REPORTING PROCEDURES			S	U	N/A	N/C
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). GESH Sec. 13, Pg. 7-8	X			
17.		Supplemental incident reports 191.15(c) GESH Sec. 13, Pg. 7-8	X			
18.		Written incident reports filed with the commission (within 30 days); and include the following; 480-93-200(4) (a) thru (g) GESH Sec. 13, Pg. 7-8	X			
19.	480-93-180 (1)	Supplemental reports filed with the commission 480-93-200(5) GESH Sec. 13, Pg. 7-8	X			
20.		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) GESH Sec. 2, Pg. 18	X			
21.	480-93-180 (1)	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. <i>(NOTE: June 15, 2013 for the year 2012).</i> GSM SPEC. 4.14	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)				
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) GSM SPEC.4.13, 4.14	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</u> <u>facility locates</u> first being completed? 480-93-200(7)(b) GSM SPEC.4.13, 4.14	X			
25.		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) GSM SPEC.4.13, 4.14 Note: Records maintained for two years and made available to the commission upon request.	X			
26.	480-93-180 (1)	Does the operator provide the following information to excavators who damage gas pipeline facilities? 480-93-200(8)				
27.		<ul style="list-style-type: none"> • Notification requirements for excavators under RCW 19.122.050(1) 200(8)(a) GSM SPEC.4.13, 4.14 	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) GSM SPEC.4.13, 4.14 	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) GSM SPEC.4.13, 4.14 	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) GSM SPEC.4.13, 4.14 	X			
		Annual Reports filed with the commission no later than March 15 for the proceeding calendar year 480-93-200(10)				
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) GSM SPEC. 4.14	X			
32.		Annual report on construction defects or material failures 480-93-200(10)(b) GSM SPEC. 4.14	X			
33.		Providing updated emergency contact information to the Commission and appropriate officials 480-93-200(11) GESH Sec. 13, Pg. 2	X			
34.	480-93-180 (1)	Providing daily construction and repair activities reports 480-93-200(12) GSM SPEC. 4.19	X			
35.		Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form (when required) 480-93-200(13) GSM SPEC. 4.14	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 GSM SPEC. 4.14	X			

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REPORTING PROCEDURES			S	U	N/A	N/C
37.		Safety related condition reports (SRCR) 191.23 GSM SPEC. 4.12	X			
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 on or before the fifth day following the date on which the exceedance occurs.</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. GSM SPEC. 4.12</p>	X			
39.	192.605(d)	Does the process include instructions enabling personnel who perform operation and maintenance activities to recognize conditions that may potentially be safety-related conditions? GSM SPEC. 4.12	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		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. Also report no modifications if none have occurred since the last complete submission. Include operator contact information with all updates. GSM SPEC. 4.14	X			
RCW 81.88.080		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?			X	

Comments:
RCW 81.88.080. Per WAC 480-93-180 this is not required to be in the O&M manual.

49 CFR PART 192 SUBPART A – GENERAL CHAPTER 480-93 WAC – GAS COMPANIES---SAFETY			S	U	N/A	N/C
40.		Procedures for notifying new customers, within 90 days , of their responsibility for those selections of service lines not maintained by the operator. §192.16 GSM SEC. 4.22	X			
41.	480-93-180 (1)	Conversion to Service - Any pipelines previously used in service not subject to Part 192? 192.14 GSM SPEC. 2.12	X			

Comments:

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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 GSM SPEC. 2.12	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) GSM SPEC. 2.13 	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) 			X	
45.		Marking of Materials 192.63 GSM SPEC. 2.12, 2.13	X			

Comments:

44. Avista does not use used plastic pipe.

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
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 GSM SPEC. 2.12	X			
47.		Design formula for steel pipe. 192.105(a) GSM SPEC. 2.12	X			
48.		Yield strength (S) for steel pipe. 192.107 GSM SPEC. 2.12	X			
49.	480-93-180 (1)	Nominal wall thickness (t) for steel pipe. 192.109 (a) & (b)				
	480-93-180 (1)	(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. GSM SPEC. 2.12	X			
50.		Design factor (F) for steel pipe. 192.111				

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SUBPART C – PIPE DESIGN					
51.		(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 GSM SPEC. 2.12	X		
52.		(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. GSM SPEC. 2.12	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. GSM SPEC. 2.12	X		
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.			X
55.		Longitudinal joint factor (E) for steel pipe. 192.113 GSM SPEC. 2.12	X		
56.	480-93-180 (1)	Temperature derating factor (T) for steel pipe. 192.115 GSM SPEC. 2.12	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 GSM SPEC. 2.13	X		
58.		For assuring that the design limitations for plastic pipe are not exceeded. 192.123 (a) thru (e) GSM SPEC. 2.13	X		

Comments:

54. Avista does not have any compressor stations or offshore platforms.

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.	480-93-180 (1)	General requirements.... 192.143 GSM SPEC. 2.12	X				
60.		Qualifying metallic components. 192.144 (a) & (b) GSM SPEC. 2.13	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) GSM SPEC. 2.14	X				
62.		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) GSM SPEC. 2.13	X				

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SUBPART D – DESIGN OF PIPELINE COMPONENTS			S	U	N/A	N/C
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) GSM SPEC. 2.12	X			
64.		Components fabricated by welding. 192.153 (a) thru (d) GSM SPEC. 2.12	X			
65.		Welded branch connections. 192.155 GSM SPEC. 2.13	X			
66.		Flexibility. 192.159 GSM SPEC. 2.13	X			
67.		Supports and Anchors 192.161(a) (a) thru (f) GSM SPEC. 2.12	X			
Compressor Stations						
68.	480-93-180 (1)	Compressor stations: Design and construction. 192.163 (a) thru (e)			X	
69.		Compressor stations: Liquid removal. 192.165 (a) & (b)			X	
70.		Compressor stations: Emergency shutdown. 192.167 (a) thru (c)			X	
71.	480-93-180 (1)	Compressor stations: Pressure limiting devices. 192.169 (a) & (b)			X	
72.		Compressor stations: Additional safety equipment. 192.171 (a) thru (e)			X	
73.		Compressor stations: Ventilation. 192.173			X	
74.		Pipe-type and bottle-type holders. 192.175			X	
75.		Additional provisions for bottle-type holders. 192.177			X	
76.	480-93-180 (1)	Transmission line valves.192.179 (a) thru (d) GSM SPEC. 2.14	X			
77.		Distribution line valves. 192.181(a) thru (c) GSM SPEC. 2.14	X			
78.	480-93-180 (1)	Vaults: Structural design requirements 192.183 (a) thru (c) GSM SPEC. 2.42			X	
79.		Vaults: Accessibility 192.185 (a) thru (c) GSM SPEC. 2.42			X	
80.		Vaults: Sealing, venting, and ventilation. 192.187 (a) thru (c) GSM SPEC. 2.42			X	
81.		Vaults: Drainage and waterproofing 192.189 (a) thru (c) GSM SPEC. 2.42			X	
82.		Design pressure of plastic fittings 192.191 (a) & (b) GSM SPEC. 2.13	X			
83.		Valve installation in plastic pipe. 192.193 GSM SPEC. 2.14, 5.13	X			
84.		Protection against accidental over-pressuring 192.195 (a) & (b) GSM SPEC. 2.23	X			
85.		Control of the pressure of gas delivered from high-pressure distribution systems. 192.197 (a) thru (c) GSM SPEC. 2.23	X			
86.	480-93-180 (1)	Except for rupture discs, each pressure relief or pressure limiting device must: 192.199 (a) thru (h) GSM SPEC. 2.23	X			
87.		Required capacity of pressure relieving and limiting stations. 192.201(c) GSM SPEC. 2.23	X			
88.		Instrument, Control, and Sampling Pipe and Components 192.203(a) & (b) GSM SPEC. 2.23	X			

Comments:

68-73. Avista does not have compressor stations.

74-75. Avista does not have pipe-type and bottle type holders.

78-81. Although there is a specification for this in Avista’s manual, they do not have any vaults in their WA system.

SUBPART E – WELDING OF STEEL IN PIPELINES

S	U	N/A	N/C
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WAC 480-93-080 – WELDER & PLASTIC JOINER IDENTIFICATION and QUALIFICATION					
89.	480-93-180(1)	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) GSM SPEC. 3.22	X		
90.		Retention of welding procedure – details and test .225(b) GSM SPEC. 3.22	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). GSM SPEC. 3.22	X		
92.		Welders may be qualified under section I of Appendix C to weld on lines that operate at < 20% SMYS . .227(b) GSM SPEC. 3.22	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) 			X
94.		<ul style="list-style-type: none"> Nominal two-inch or smaller below ground butt welds 480-93-080(1)(a)(ii) 			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) 			X
96.	480-93-180(1)	<ul style="list-style-type: none"> Appendix C Welders re-qualified 2/Yr (7.5Months) 480-93-080(1)(b) 			X
97.		Use of testing equipment to record and document essential variables 480-93-080(1)(c) (eff 6/02/05) GSM SPEC. 3.22	X		
98.		Qualified written welding procedures must be located on-site where welding is being performed 480-93-080(1)(e) GSM SPEC. 3.22	X		
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) GSM SPEC. 3.22	X		
100.	480-93-180(1)	To weld on compressor station piping and components, a welder must successfully complete a destructive test .229(a)			X
101.		Welder must have used welding process within the preceding 6 months .229(b) GSM SPEC. 3.22	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 exceeding 7½ months; may not requalify under an earlier referenced edition. .229(c)(1) GSM SPEC. 3.22 	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) GSM SPEC. 3.22 	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) GSM SPEC. 3.22 	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) GSM SPEC. 3.22 	X		
107.		Welding operation must be protected from weather .231 GSM SPEC. 3.22	X		
108.		Miter joints (consider pipe alignment) .233			X
109.		Welding preparation and joint alignment .235 GSM SPEC. 3.22	X		
110.		Visual inspection must be conducted by an individual qualified by appropriate training and experience to ensure: .241(a) thru (c) GSM SPEC. 3.22	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) GSM SPEC. 3.22	X		
112.		Repair or removal of defects .245 (a) thru (c) GSM SPEC. 3.22	X		

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	<ul style="list-style-type: none"> • Sleeve Repair – low hydrogen rod (Best Practices –ref. API 1104 App. B, In Service Welding) 				
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Comments:

93-96. Avista does not have Appendix C welders, nor do they OA weld.
100. Avista does not have compressor stations.
108. Avista does not allow miter joints see GSM SEC. 3.22.

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				
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) GSM SPEC. 3.23	X			
115.		Each solvent cement joint on plastic pipe must comply with the following: .281(b)			X	
116.		<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) 			X	
117.		<ul style="list-style-type: none"> • The solvent cement must conform to ASTM Designation: D 2513. .281(b)(2) 			X	
118.		<ul style="list-style-type: none"> • The joint may not be heated to accelerate the setting of the cement. .281(b)(3) 			X	
119.		Each heat-fusion joint on plastic pipe must comply with the following: .281(c)				
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) GSM SPEC. 3.23 	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) GSM SPEC. 3.23 	X			
122.	480-93-180(1)	<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) GSM SPEC. 3.24 	X			
123.		<ul style="list-style-type: none"> • Heat may not be applied with a torch or other open flame. .281(c)(4) GSM SPEC. 3.23 	X			
124.		Each adhesive joint on plastic pipe must comply with the following: .281(d)				
125.		<ul style="list-style-type: none"> • The adhesive must conform to ASTM Designation: D 2517. .281(d)(1) 			X	
126.		<ul style="list-style-type: none"> • The materials and adhesive must be compatible with each other. .281(d)(1) 			X	
127.		Each compression type mechanical joint on plastic pipe must comply with the following: .281(e)				
128.		<ul style="list-style-type: none"> • The gasket material in the coupling must be compatible with the plastic. .281(e)(1) GSM SPEC. 2.13 	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) GSM SPEC. 2.13 	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)				
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) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	X			
133.		<ul style="list-style-type: none"> • Thermosetting plastic pipe: paragraph 8.5 (Minimum Hydrostatic Burst Pressure) or 	X			

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		paragraph 8.9 (Sustained Static Pressure Test) of ASTM D2517; or .283(a)(1)(ii) GSM SPEC. 2.13, 3.23, 3.24, 3.25				
134.	480-93-180(1)	<ul style="list-style-type: none"> Electrofusion fittings for polyethylene pipe and tubing: paragraph 9.1 (Minimum Hydraulic Burst Pressure Test), paragraph 9.2 (Sustained Pressure Test), paragraph 9.3 (Tensile Strength Test), or paragraph 9.4 (Joint Integrity Tests) of ASTM Designation F1055. .283(a)(1)(iii) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25	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)				
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) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	X			
139.		<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) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	X			
143.		<ul style="list-style-type: none"> Each specimen that fails at the grips must be retested using new pipe. .283(b)(6) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	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) GSM SPEC. 3.23	X			
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)			X	
147.		No person may make a plastic pipe joint unless that person has been qualified under the applicable joining procedure by: .285(a)				
148.		<ul style="list-style-type: none"> Appropriate training or experience in the use of the procedure; and .285(a)(1) GSM SPEC. 3.23 	X			
149.		<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) GSM SPEC. 3.23 	X			
150.		The specimen joint must be: .285(b)				
151.	480-93-180(1)	<ul style="list-style-type: none"> Visually examined during and after assembly or joining and found to have the same appearance as a joint or photographs of a joint that is acceptable under the procedure; and .285(b)(1) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	X			

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152.	480-93-180(1)	<ul style="list-style-type: none"> In the case of a heat fusion, solvent cement, or adhesive joint; .285(b)(2) GSM SPEC. 2.13, 3.23, 3.24, 3.25 	X			
153.		Tested under any one of the test methods listed under §192.283(a) GSM SPEC. 2.13, 3.23, 3.24, 3.25 applicable to the type of joint and material being tested; .285(b)(2)(i)	X			
154.		Examined by ultrasonic inspection and found not to contain flaws that may cause failure; or .285(b)(2)(ii) GSM SPEC. 2.13, 3.23, 3.24, 3.25	X			
155.		Cut into at least three longitudinal straps, each of which is: .285(b)(2)(iii) GSM SPEC. 2.13, 3.23, 3.24, 3.25	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25	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) GSM SPEC. 2.13, 3.23, 3.24, 3.25	X			
158.		A person must be requalified under an applicable procedure, if during any 12-month period that person: .285(c)				
159.	<ul style="list-style-type: none"> Does not make any joints under that procedure; or .285(c)(1) 			X		
160.	<ul style="list-style-type: none"> Has 3 joints or 3 percent of the joints made, whichever is greater, under that procedure that are found unacceptable by testing under §192.513. .285(c)(2) 			X		
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) GSM SPEC. 3.23	X				
Plastic pipe joiners re-qualified 1/Yr (15 Months) 480-93-080 (2)						
162.	480-93-180(1)	<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) GSM SPEC. 3.23 	X			
163.		<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) 			X	
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) GSM SPEC. 3.23 	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 GSM SPEC. 3.13, 3.23	X			

Comments:

115-118, 125-126. Avista does not allow solvents to be used in joining plastic pipe see GSM SPEC. 3.13.
146. Avista does not use plastic pipes or fittings manufactured before July 1, 1980.
160. Avista follows the federal code for unacceptable plastic joints, where they only allow one unacceptable joint.
159, 163. Avista requalifies plastic joiners yearly.

SUBPART G – CONSTRUCTION REQUIREMENTS for TRANSMISSION LINES and MAINS			S	U	N/A	N/C
166.	480-93-180(1)	Compliance with specifications or standards. 192.303 GSM SPEC. 3.12, 3.13	X			
167.		Inspection of each transmission line and main during construction 192.305 GSM SPEC. 3.12, 3.13	X			
168.		Inspection of materials 192.307 GSM SPEC. 3.12, 3.13	X			
169.		Repair of steel pipe 192.309 (a) thru (e) GSM SPEC. 3.32	X			
170.		Repair of plastic pipe. 192.311 GSM SPEC. 3.33	X			
171.		Bends and elbows. 192.313 (a) thru (c) GSM SPEC. 3.12	X			
172.		Wrinkle bends in steel pipe. 192.315 (a) & (b)			X	
173.		Protection from hazards 192.317 (a) thru (c) GSM SPEC. 3.12	X			
174.		Installation of Pipe in a ditch 192.319 (a) thru (c) GSM SPEC. 3.12, 3.13, 3.15	X			
175.		Installation of plastic pipe. 192.321 (a) thru (h) GSM SPEC. 3.13	X			

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480-93-178 WAC			S	U	N/A	N/C
PROTECTION OF PLASTIC PIPE						
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) GSM SPEC. 3.13	X			
177.		Stated acceptable time limit for maximum cumulative ultraviolet light exposure 480-93-178 (2) GSM SPEC. 3.13	X			
178.		Separation requirements when installing plastic pipelines parallel to other underground utilities 480-93-178 (4) GSM SPEC. 3.15	X			
179.		Separation requirements when installing plastic pipelines perpendicular to other underground utilities 480-93-178 (5) GSM SPEC. 3.15	X			
180.		Casings 192.323 (a) thru (d) GSM SPEC. 3.42	X			
181.		Casing of pipelines. 480-93-115 (1) thru (4) GSM SPEC. 3.42	X			
182.		Underground clearance. 192.325 (a) thru (d). GSM SPEC. 3.15	X			
183.		Cover. 192.327 (a) thru (g) GSM SPEC. 3.15	X			

Comments:

172. Avista does not allow wrinkle bends.

SUBPART H - CUSTOMER METERS, SERVICE REGULATORS, and SERVICE LINES						
			S	U	N/A	N/C
184.	480-93-180 (1)	Meters and service regulators installed at locations as prescribed under 192.353 (a) thru (d) GSM SPEC. 2.22	X			
185.		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) GSM SPEC. 2.22	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) GSM SPEC. 2.22	X			
480-93-140 WAC			S	U	N/A	N/C
SERVICE REGULATORS						
187.	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) GSM SPEC. 2.22	X			
188.		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) GSM SPEC. 5.12	X			
189.	480-93-180 (1)	Minimum service line installation requirements as prescribed under 192.361 (a) thru (g) GSM SPEC. 3.15, 3.16	X			
190.		Location of service-line valves as prescribed under 192.365 (a) thru (c) GSM SPEC. 2.14	X			
191.		General requirements for locations of service-line connections to mains and use of compression fittings 192.367 (a) thru (b)(2) GSM SPEC. 3.16	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) GSM SPEC. 3.16	X			
194.		EFV performance requirements §192.381 (a) thru (e) GSM SPEC. 2.14, 3.16	X			
195.		Excess flow valves, does the program must meet the requirements outlined in §192.38? GSM SPEC. 3.16	X			
196.	Customer notification in accordance with §192.383. GSM SPEC. 3.16	X				

Comments:

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192. Avista does not have cast or ductile iron in their system.

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 GSM SPEC. 2.32	X				
198.	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) GSM SPEC. 2.32	X				
199.	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)			X		
200.	480-93-180(1)	Adequate guidance included for the installation of aluminum in a submerged or buried pipeline? .455(e)			X		
201.	480-93-180(1)	All effectively coated steel transmission pipelines installed prior to August 1, 1971 , must be cathodically protected .457 (a) GSM SPEC. 2.32	X				
202.	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. .If 457 (b)			X		
203.		Written procedures explaining how cathodic protection related surveys, reads, and tests will be conducted. 480-93-110(4) GSM SPEC. 5.14	X				
204.		Examination of buried pipeline when exposed: if corrosion is found, further investigation is required .459 GSM SPEC. 3.32, 3.44, 5.14	X				
205.		Recording the condition of all underground metallic facilities each time the facilities are exposed. 480-93-110(6) GSM SPEC. 3.32, 3.44, 5.14	X				
206.		CP test reading on all exposed facilities where coating has been removed 480-93-110(8) (eff 6/02/05) GSM SPEC. 3.32, 3.44, 5.14	X				
207.		Procedures must address the protective coating requirements of the regulations. External coating on the steel pipe must meet the requirements of this part. .461	S	U	N/A	N/C	
208.		Cathodic protection level according to Appendix D criteria .463 GSM SPEC. 5.14	X				
209.		Pipe-to-soil monitoring (1 per yr/15 months) .465(a) GSM SPEC. 5.14	X				
210.		Rectifier monitoring (6 per yr/2½ months) .465(b) GSM SPEC. 5.14	X				
211.		Interference bond monitoring (as required) .465(c) GSM SPEC. 5.14	X				
212.		Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) 480-93-110(2) GSM SPEC. 2.32, 5.14	X				
213.		480-93-180(1)	Electrical surveys (closely spaced pipe to soil) on bare/unprotected lines, cathodically protect active corrosion areas (1 per 3 years/39 months) .465(e)			X	
214.		Electrical Isolation .467(a-e) GSM SPEC. 2.32, 5.14	X				
215.		Sufficient test stations to determine CP adequacy .469 GSM SPEC. 2.32, 5.14	X				
216.	Test lead maintenance .471 GSM SPEC. 2.32, 5.14	X					
217.	Interference currents .473 GSM SPEC. 2.32, 5.14	X					
218.	Proper procedures for transporting corrosive gas? .475(a)			X			
219.	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) GSM SPEC. 5.14	X					
220.	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) GSM SPEC. 5.14	X					

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SUBPART I - CORROSION CONTROL			S	U	N/A	N/C
221.	480-93-180(1)	Systems to reduce internal corrosion Amdt 192- (no number) Pub. 4/23/07, eff. 5/23/07 (a) New construction .476			X	
222.		(b) Exceptions – offshore pipeline and systems replaced before 5/23/07			X	
223.		(c) Evaluate impact of configuration changes to existing systems			X	
224.		Internal corrosion control coupon (or other suit. Means) monitoring (2 per yr/7½ months) .477			X	
225.		Each exposed pipe must be cleaned and coated (see exceptions under .479(c)) .479(a) GSM SPEC. 2.12, 5.14	X			
226.		Offshore splash zones and soil-to-air interfaces must be coated			X	
227.		• Coating material must be suitable .479(b) GSM SPEC. 2.12	X			
228.		Coating is not required where operator has proven that corrosion will: .479(c)				
229.		1. Only be a light surface oxide, or .479(c)(1)			X	
230.		2. Not affect safe operation before next scheduled inspection .479(c)(2)			X	
231.		Written atmospheric corrosion control monitoring program. The program must have time frames for completing remedial action. 480-93-110(9) (eff 6/02/05) GSM SPEC. 5.20	X			
232.		Atmospheric corrosion control monitoring (1 per 3 yrs/39 months onshore; 1 per yr/15 months offshore) .481(a) GSM SPEC. 5.15, 5.20	X			
233.		Special attention required at soil/air interfaces, thermal insulation, under dis-bonded coating, pipe supports, splash zones, deck penetrations, spans over water .481(b) GSM SPEC. 5.20	X			
234.		Protection must be provided if atmospheric corrosion is found (per §192.479) .481(c) GSM SPEC. 5.20	X			
235.	480-93-180(1)	Replacement and required pipe must be coated and cathodically protected (see code for exceptions) .483 GSM SPEC. 2.12, 2.32	X			
236.		Procedures to replace pipe or reduce the MAOP if general corrosion has reduced the wall thickness? .485(a) GSM SPEC. 3.32 table, 4.12	X			
237.		Procedures to replace/repair pipe or reduce MAOP if localized corrosion has reduced wall thickness (unless reliable engineering repair method exists)? .485(b) GSM SPEC. 4.12	X			
238.		Procedures to use Rstreng or B-31G to determine remaining wall strength? .485(c) GSM SPEC. 3.32	X			
239.		Remedial measures (distribution lines other than cast iron or ductile iron) .487 GSM SPEC. 3.32 table	X			
240.		Remedial measures (cast iron and ductile iron pipelines) .489			X	
241.		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 GSM SPEC. 5.14	X			
242.		Corrosion control maps and record retention (pipeline service life or 5 yrs) .491 GSM SPEC. 5.14	X			
WAC 480-93-110 Corrosion Requirements			S	U	N/A	N/C
243.	480-93-180(1)	Casings inspected/tested annually not to exceed fifteen months 480-93-110(5) GSM SPEC. 5.14	X			
244.		Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods 480-93-110(5)(a) GSM SPEC. 5.14	X			
245.		Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days 480-93-110(5)(b) GSM SPEC. 5.14	X			
246.		Casing shorts cleared when practical 480-93-110(5)(c) GSM SPEC. 5.14	X			
247.		Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months 480-93-110(5)(d) GSM SPEC. 5.14	X			
248.	CP Test Equipment and Instruments checked for accuracy/intervals (Mfct Rec or Opr Sched) 480-93-110(3) GSM SPEC. 5.14	X				

Comments:

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199-200. Avista does not have Aluminium in their system.
 202, 213. Avista does not have bare or unprotected pipe.
 218, 221-224. Avista does not have corrosive gas.
 222, 226. Avista does not have any offshore pipe.
 229-230. Avista does not have any uncoated pipe. See GSM 2.12 pg. 15.
 240. Avista does not have cast or ductile iron pipe.

SUBPART J – TEST REQUIREMENTS			S	U	N/A	N/C
249.	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. GSM SPEC. 3.18	X			
250.		Strength test requirements for steel pipeline to operate at a hoop stress of 30 percent or more of SMYS. 192.505 (a) thru (e) GSM SPEC. 3.18	X			
251.		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) GSM SPEC. 3.18	X			
252.		Test requirements for pipelines to operate below 100 psig. 192.509 (a) & (b) GSM SPEC. 3.18	X			
253.		Test requirements for service lines. 192.511 (a) thru (c) GSM SPEC. 3.18	X			
254.		Test requirements for plastic pipelines. 192.513 (a) thru (d) GSM SPEC. 3.18	X			
255.		Environmental protection and safety requirements. 192.515 (a) & (b) GSM SPEC. 3.18	X			
256.		Records 192.517 Refer also to 480-93-170 (7) (a-h) below. GSM SPEC. 3.18	X			

Comments:

WAC 480-93-170 PRESSURE TEST PROCEDURES			S	U	N/A	N/C
257.	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) GSM SPEC. 3.18	X			
258.		<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) 	X			
259.		<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) 	X			
260.		<ul style="list-style-type: none"> • In an emergency situation where it is necessary to maintain continuity of service, the requirements of subsection (1) of this section and subsection (1)(a) may be waived by notifying the commission by telephone prior to performing the test. 480-93-170(1)(c) 	X			
261.		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) GSM SPEC. 3.18	X			
262.	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) GSM SPEC. 3.18	X			
263.		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). GSM SPEC. 3.18	X			
264.		Maintain records of each test where multiple pressure tests are performed on a single installation. 480-93-170(9) GSM SPEC. 3.18	X			
265.		Pressure testing equipment must be maintained, tested for accuracy, or calibrated, in accordance with the manufacturer's recommendations. 480-93-170(10) GSM SPEC. 5.10, 5.21	X			
266.		<ul style="list-style-type: none"> • When there are no manufacturer's recommendations, then tested at an appropriate schedule determined by the operator. GSM SPEC. 5.10, 5.21 	X			

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267.		<ul style="list-style-type: none"> Test equipment must be tagged with the calibration or accuracy check expiration date. GSM SPEC. 5.10, 5.21 	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
268.	480-93-180(1)	General requirements. 192.553 (a) thru (d) GSM SPEC. 4.17	X			
269.		Uprating to a pressure that will produce a hoop stress of 30 % or more of SMYS in steel pipelines. 192.555 (a) thru (e) GSM SPEC. 4.17	X			
270.		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) GSM SPEC. 4.17	X			
WAC 480-93-155 - UPRATING						
271.	480-93-180(1)	Notification of uprate and submission of written plan 480-93-155 (1) GSM SPEC. 4.17	X			
272.		Content of written plan... 480-93-155 (1) (a) thru (j) GSM SPEC. 4.17	X			
273.		Uprates must be based on a previous or current pressure test that will substantiate the intended MAOP. 480-93-155 (2) GSM SPEC. 4.17	X			

Comments:

SUBPART L - OPERATIONS						
			S	U	N/A	N/C
274.	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 GSM SPEC. 1.4	X			
275.		Availability of construction records, maps, operating history to operating personnel 192.605(b)(3) GSM SPEC. 4.11	X			
276.		Start up and shut down of the pipeline to assure operation within MAOP plus allowable buildup 192.605(b)(5) GSM SPEC. 4.15	X			
277.		Periodic review of personnel work – effectiveness of normal O&M procedures 192.605(b)(8) GSM SPEC. 4.61	X			
278.		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) GSM SPEC. 3.17	X			
279.		Routine inspection and testing of pipe-type or bottle-type holders 192.605(b)(10)				X
280.		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) GESH SEC. 2, GSM SEC. 5.11	X			
281.	Implementing the applicable control room management procedures required by 192.631. (Amdt. 192- 112, 74 FR 63310, December 3, 2009, eff. 2/1/2010). .605(b)(12) GSM SPEC. 4.51	X				

Comments:

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279. Avista does not pipe-type or bottle-type holders.

SUBPART L – OPERATIONS						
ABNORMAL OPERATING PROCEDURES – TRANSMISSION LINES						
			S	U	N/A	N/C
		Procedures for responding to, investigating, and correcting the cause of: 192.605(c)(1)				
282.	480-93-180(1) / 192.605(a)	<ul style="list-style-type: none"> • Unintended closure of valves or shut downs 192.605(c)(1)(i) 			X	
283.		<ul style="list-style-type: none"> • Increase or decrease in pressure or flow rate outside of normal operating limits 192.605(c)(1)(ii) 			X	
284.		<ul style="list-style-type: none"> • Loss of communications 192.605(c)(1)(iii) 			X	
285.		<ul style="list-style-type: none"> • The operation of any safety device 192.605(c)(1)(iv) 			X	
286.		<ul style="list-style-type: none"> • Malfunction of a component, deviation from normal operations or personnel error 192.605(c)(1)(v) 			X	
287.		Checking variations from normal operation after abnormal operations ended at sufficient critical locations 192.605(c)(2)			X	
288.		Notifying the responsible operating personnel when notice of an abnormal operation is received 192.605(c)(3)			X	
289.		Periodic review of personnel work – effectiveness of abnormal operation procedures 192.605(c)(4)			X	

Comments:
 282-289. Per 192.605(c)(5), this section does not apply to Avista.

SUBPART – L CHANGE in CLASS LOCATION PROCEDURES			S	U	N/A	N/C
290.	480-93-180(1) / 192.605(a)	Class location study - Does the process include a requirement that the operator conduct a study whenever an increase in population density indicates a change in the class location of a pipeline segment operating at a hoop stress that is more than 40% SMYS? 192.609 (a-f) GSM SPEC. 4.16	X			
291.		Confirmation or revision of MAOP - Does the process include a requirement that the MAOP of a pipeline segment be confirmed or revised within 24 months whenever the hoop stress corresponding to the established MAOP is determined not to be commensurate with the existing class location? 192.611 Final Rule Pub. 10/17/08, eff. 12/22/08. GSM SPEC. 4.16	X			

SUBPART – L CONTINUING SURVEILLANCE PROCEDURES			S	U	N/A	N/C
292.	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) GSM SPEC. 4.11	X			
293.	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) GSM SPEC. 4.11	X			

SUBPART – L DAMAGE PREVENTION PROGRAM PROCEDURES			S	U	N/A	N/C
294.	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: GSM SPEC. 4.13				
295.		Identify persons who engage in excavating .614(c)(1) GSM SPEC. 4.13	X			
296.		Provide notification to the public in the One Call area .614(c) (2) GSM SPEC. 4.13	X			
297.		Provide means for receiving and recording notifications of pending excavations .614(c) (3) GSM SPEC. 4.13	X			
298.		Provide notification of pending excavations to the members .614(c) (4) GSM SPEC. 4.13	X			
299.		Provide means of temporary marking for the pipeline in the vicinity of the excavations .614(c)	X			

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		(5) GSM SPEC. 4.13				
300.		Provides for follow-up inspection of the pipeline where there is reason to believe the pipeline could be damaged .614(c) (6) 1. Is the inspection done as frequently as necessary during and after the activities to verify the integrity of the pipeline? 2. In the case of blasting, does the inspection include leakage surveys? GSM SPEC. 4.13	X			
301.		Damage Prevention (Operator Internal Performance Measures)	S	U	N/A	N/C
302.		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)			X	
303.		Does operator include performance measures in facility locating services contracts with corresponding and meaningful incentives and penalties?			X	
304.		Do locate contractors address performance problems for persons performing locating services through mechanisms such as re-training, process change, or changes in staffing levels?			X	
305.		Does the operator periodically review the Operator Qualification plan criteria and methods used to qualify personnel to perform locates?			X	
306.		Review operator locating and excavation <u>procedures</u> for compliance with state law and regulations.			X	
307.		Are locates are being made within the timeframes required by state law and regulations? Examine record sample.			X	
308.		Are locating and excavating personnel properly <u>qualified</u> in accordance with the operator’s Operator Qualification plan and with federal and state requirements?			X	
309.		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			X	
310.		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? 			X	
311.		<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? 			X	

Comments:

301-311. This recommended practice was not checked during this inspection.

SUBPART – L EMERGENCY PROCEDURES			S	U	N/A	N/C
312.	480-93-180(1) / 192.615	Receiving, identifying, and classifying notices of events which require immediate response by the operator .615(a)(1) Note: Including third-party damage GESH SEC. 1	X			
313.		Establish and maintain communication with appropriate public officials regarding possible emergency .615(a)(2) GESH SEC. 1	X			
314.		Prompt response to each of the following emergencies: .615(a)(3) GESH SEC. 1	X			
315.		(i) Gas detected inside a building GESH SEC. 1	X			
316.		(ii) Fire located near a pipeline GESH SEC. 1	X			
317.		(iii) Explosion near a pipeline GESH SEC. 1	X			
318.		(iv) Natural disaster GESH SEC. 1	X			
319.		Availability of personnel, equipment, instruments, tools, and material required at the scene of an emergency .615(a)(4) GESH SEC. 4	X			
320.		Actions directed towards protecting people first, then property .615(a)(5)	X			

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		Note: Including third-party damage where there is a possibility of multiple leaks and underground migration into nearby buildings. GESH SEC. 1, 13				
321.		Emergency shutdown or pressure reduction to minimize hazards to life or property .615(a)(6) GESH SEC. 5	X			
322.	480-93-180(1) / 192.615	Making safe any actual or potential hazard to life or property .615(a)(7) GESH SEC. 4	X			
323.		Notifying appropriate public officials required at the emergency scene and coordinating planned and actual responses with these officials .615(a)(8) GESH SEC. 13	X			
324.		Instructions for restoring service outages after the emergency has been rendered safe .615(a)(9) GESH SEC. 5	X			
325.		Investigating accidents and failures as soon as possible after emergency .615(a)(10) GESH SEC. 2, 4, 17	X			
326.		Actions required to be taken by a controller during an emergency in accordance with 192.631. (Amdt. 192-112, 74 FR 63310, December 3, 2009, eff. 2/1/2010). .615(a)(11) CRM Manual	X			
327.		Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action .615(b)(1) GESH SEC. 4	X			
328.		Training appropriate employees as to the requirements of the emergency plan and verifying effectiveness of training .615(b)(2) GESH SEC. 4	X			
329.		Reviewing activities following emergencies to determine if the procedures were effective .615(b)(3) GESH SEC. 4	X			
330.		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)(1-4); ADB-05-03 GESH SEC. 4	X			

Comments:

SUBPART – L PUBLIC AWARENESS PROGRAM PROCEDURES			S	U	N/A	N/C
(Also in accordance with API RP 1162)						
331.		Public Awareness Program in accordance with API RP 1162 (Amdt 192-99 pub. 5/19/05, eff. 06/20/05 and Amdt 192 – not numbered pub 12/13/07 eff. 12/13/07). .616 PA PLAN				
332.		The operators program must specifically include provisions to educate the public, appropriate government organizations, and persons engaged in excavation related activities on: .616(d)	X			
333.		(1) Use of a one-call notification system prior to excavation and other	X			
334.		(2) Possible hazards associated with unintended releases from a gas pipeline facility;	X			
335.		(3) Physical indications of a possible release;	X			
336.		(4) Steps to be taken for public safety in the event of a gas pipeline release;	X			
337.		Does program include activities to advise affected municipalities, school districts, businesses, and residents of pipeline facility locations. .616(e)	X			
338.		The operator's program and the media used must be comprehensive enough to reach all areas the operator transports gas. .616(f)	X			
339.	480-93-180(1) / 192.605(a)	Is the program conducted in English and any other languages commonly understood by a significant number of the population? .616(g)	X			
340.		Operations of a master meter			X	
341.		Operators of a Master Meter or petroleum gas system (unless the operator transports gas as a primary activity) must develop/implement a written procedure to provide it's customers public awareness messages twice annually: .616(j) (1) A description of the purpose and reliability of the pipeline; (2) An overview of the hazards of the pipeline and prevention measures used; (3) Information about damage prevention; (4) How to recognize and respond to a leak; and (5) How to get additional information.			X	
342.		IAW API RP 1162, the operator's program should be reviewed for effectiveness within four years of the date the operator's program was first completed. <u>For operators in existence on June</u>	X			

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		<u>20, 2005</u> , who must have completed their written programs no later than June 20, 2006, the first evaluation is due no later than June 20, 2010 . .616(h)				
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SUBPART – L FAILURE INVESTIGATION PROCEDURES			S	U	N/A	N/C
343.	480-93-180(1) / 192.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617 GESH SEC 13, pg. 4, GSM SPEC. 4.11	X			

Comments:
340-341. Avista does not operate Master Meters.

SUBPART – L MAOP PROCEDURES			S	U	N/A	N/C												
Note: If the operator is operating under a Special Permit, a Waiver or 192.620, the inspector needs to review the special conditions of the Special Permit, Waiver or refer to Attachment 1 for additional .620 requirements.																		
344.	480-93-180(1)	Establishing MAOP so that it is commensurate with the class location .619 GSM SEC. 4.15, 4.16	X															
345.	192.605(a)	MAOP cannot exceed the lowest of the following:																
346.		• Design pressure of the weakest element; .619(a)(1) GSM SEC. 4.15	X															
347.		• Test pressure divided by applicable factor .619(a)(2) GSM SEC. 4.15	X															
348.	480-93-180(1) / 192.605(a)	<ul style="list-style-type: none"> 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. Note: For gathering line related compliance deadlines and additional gathering line requirements, refer to Part 192 including this amendment. .619(a)(3) <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pipeline segment</th> <th style="text-align: center;">Pressure date</th> <th style="text-align: center;">Test date</th> </tr> </thead> <tbody> <tr> <td>-- Onshore gathering line that first became subject to this part (other than § 192.612) after April 13, 2006.</td> <td>March 15, 2006, or date line becomes subject to this part, whichever is later.</td> <td>5 years preceding applicable date in second column.</td> </tr> <tr> <td>Offshore gathering lines.</td> <td>July 1, 1976.</td> <td>July 1, 1971.</td> </tr> <tr> <td>All other pipelines.</td> <td>July 1, 1970.</td> <td>July 1, 1965.</td> </tr> </tbody> </table> <p style="text-align: center;">GSM SEC. 4.15</p>	Pipeline segment	Pressure date	Test date	-- Onshore gathering line that first became subject to this part (other than § 192.612) after April 13, 2006.	March 15, 2006, or date line becomes subject to this part, whichever is later.	5 years preceding applicable date in second column.	Offshore gathering lines.	July 1, 1976.	July 1, 1971.	All other pipelines.	July 1, 1970.	July 1, 1965.	X			
Pipeline segment	Pressure date	Test date																
-- Onshore gathering line that first became subject to this part (other than § 192.612) after April 13, 2006.	March 15, 2006, or date line becomes subject to this part, whichever is later.	5 years preceding applicable date in second column.																
Offshore gathering lines.	July 1, 1976.	July 1, 1971.																
All other pipelines.	July 1, 1970.	July 1, 1965.																
349.		• Maximum safe pressure determined by operator. .619(a)(4) GSM SEC. 4.15	X															
350.		• Overpressure protective devices must be installed if .619(a)(4) is applicable .619(b) GSM SEC. 4.15	X															
351.	480-93-180(1) / 192.605(a)	<ul style="list-style-type: none"> 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. Amdt 192-102 pub. 3/15/06, eff. 04/14/06. Note: For gathering line related compliance deadlines and additional gathering line requirements, refer to Part 192 including this amendment. .619(c) GSM SEC. 4.15 	X															
352.		Refer to Attachment 1 for additional Alternative MAOP requirements. (Amdt. 192- 107, 73 FR 62147, October 17, 2008, eff. 11/17/2008). .620																
353.		MAOP - High Pressure Distribution Systems .621	X															

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		Note: New PA-11 design criteria is incorporated into 192.121 & .123 (Final Rule Pub. 12/24/08) GSM SEC. 4.15				
354.		Max./Min. Allowable Operating Pressure - Low Pressure Distribution Systems .623			X	

Comments:
354. Avista does not have low pressure distribution systems.

WAC 480-93-015 ODORIZATION PROCEDURES			S	U	N/A	N/C
355.		Odorization of gas at the proper concentration in air 480-93-015 (1) 192.625(a-f) GSM SEC. 4.18	X			
356.	480-93-180(1)	Use of odorant testing instrumentation/Monthly testing interval 480-93-015 (2) GSM SEC. 4.18, 5.23	X			
357.		Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) 480-93-015 (3) GSM SEC. 4.18, 5.23	X			
358.		Records maintained for usage, odorant tests performed and equipment calibration (5yrs) 480-93-015(4) GSM SEC. 4.18	X			

Comments:

SUBPART – L TAPPING PIPELINES UNDER PRESSURE PROCEDURES			S	U	N/A	N/C
359.	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 GSM SPEC. 4.31 table	X			

SUBPART – L PIPELINE PURGING PROCEDURES			S	U	N/A	N/C
360.	480-93-180(1)	Purging of pipelines must be done to prevent entrapment of an explosive mixture in the pipeline .629 GSM SEC. 3.17	X			
361.	480-93-180(1)	(a) Lines containing air must be properly purged. GSM SEC. 3.17	X			
362.	480-93-180(1)	(b) Lines containing gas must be properly purged GSM SEC. 3.17	X			

Comments:

SUBPART – M MAINTENANCE PROCEDURES			S	U	N/A	N/C
363.	480-93-180(1)	Each segment of pipeline that becomes unsafe must be replaced, repaired, or removed from Service .703(b) GSM SEC. 3.32, 3.33	X			
364.	480-93-180(1)	Hazardous leaks must be repaired promptly .703(c) GSM SPEC. 5.11, GESH SEC. 2 grade 1 leak	X			

Comments:

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* CONTROL ROOM MANAGEMENT PROCEDURES (Amdt. 192-112, 74 FR 63310, December 3, 2009, eff. 2/1/2010)		S	U	N/A	N/C	
.605(a)	.631(a)	(1) This section applies to each operator of a pipeline facility with a controller working in a control room who monitors and controls all or part of a pipeline facility through a SCADA system, except where an operator's activities are limited to: (ii) Transmission without a compressor station, the operator must have and follow written procedures that implement only paragraphs (d) (regarding fatigue), (i) (regarding compliance validation), and (j) (regarding compliance and deviations) of this section.				
	.631(a)	.605(b)(12) Each operator must have and follow written control room management procedures. <i>NOTE: An operator must develop the procedures no later than August 1, 2011 and implement the procedures no later than February 1, 2013.</i>				
	.631(b)	The operator's program must define the roles and responsibilities of a controller during normal, abnormal and emergency conditions including a definition of:				
		(1)	Controller's authority and responsibility. CRM SEC. 2	X		
		(2)	Controller's role when an abnormal operating condition is detected. CRM SEC. 2	X		
		(3)	Controller's role during an emergency CRM SEC. 2	X		
		(4)	A method of recording shift change responsibilities between controllers. CRM SEC. 2	X		
	.631(c)	The operator's program must provide its controllers with the information, tools, processes and procedures necessary to perform each of the following:				
		(1)	Implement sections 1, 4, 8,9,11.2, and 11.3 of API RP 1165 whenever a SCADA System is added, expanded or replaced. CRM SEC. 3	X		
		(2)	Conduct point-to-point verification between SCADA displays and related equipment when changes that affect pipeline safety are made. CRM SEC. 3	X		
		(3)	Test and verify any internal communications plan – at least once a year NTE 15 months. CRM SEC. 3	X		
		(4)	Test any backup SCADA system at least once each year but NTE 15 months. CRM SEC. 3	X		
		(5)	Establish and implement procedures for when a different controller assumes responsibility. CRM SEC. 3	X		
	.631(d)	Each operator must implement and follow methods to reduce the risk associated with controller fatigue, including:				
		(1)	Establishing shift lengths and schedule rotations that provide time sufficient to achieve eight hours of continuous sleep. CRM SEC. 5	X		
		(2)	Educating controllers and supervisors in fatigue mitigation strategies. CRM SEC. 5	X		
		(3)	Training of controllers and supervisors to recognize the effects of fatigue. CRM SEC. 5	X		
		(4)	Establishing a maximum limit on controller hours-of-service. CRM SEC. 5	X		
	.631(e)	Each operator must have a written alarm management plan including these provisions:				
		(1)	Reviewing alarms using a process that ensures that they are accurate and support safe operations. CRM SEC. 6	X		
		(2)	Identifying at least once a year, points that have been taken off SCADA scan or have had alarms inhibited, generated false alarms, or have had forced or manual values for periods of time exceeding that required for maintenance activities. CRM SEC. 6	X		
		(3)	Verifying the alarm set-point values and alarm descriptions once each year NTE 15 months. CRM SEC. 6	X		
		(4)	Reviewing the alarm management plan at least once every calendar year NTE 15 months. CRM SEC. 6	X		

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CONTROL ROOM MANAGEMENT PROCEDURES (Amdt. 192-112, 74 FR 63310, December 3, 2009, eff. 2/1/2010)		S	U	N/A	N/C
*					
	(5) Monitoring the content and volume of activity being directed to and required of each controller once each year NTE 15 months. CRM SEC. 6	X			
	(6) Addressing deficiencies identified through implementation of 1-5 of this section. CRM SEC. 6	X			
	.631(f) Each operator must assure that changes that could affect control room operations are coordinated with the control room personnel by performing the following:				
	(1) Establishing communications between controllers, management and field personnel when implementing physical changes to the pipeline. CRM SEC. 7	X			
	(2) Requiring field personnel to contact the control room when emergency conditions exist and when field changes could affect control room operations. CRM SEC. 7	X			
	(3) Seeking control room or management participation in planning prior to implementation of significant pipeline changes. CRM SEC. 7	X			
	.631(g) Each operator must assure that lessons learned from its experience are incorporated in to its procedures by performing the following:				
	(1) Reviewing reportable incidents to determine if control room actions contributed to the event and correcting any deficiencies. CRM SEC. 8	X			
	(2) Including lessons learned from the operator’s training program required by this section.	X			
	.631(h) Each operator must establish a controller training program and review its contents once a year NTE 15 months which includes the following elements:				
	(1) Responding to abnormal operating conditions (AOCs). CRM SEC. 9	X			
	(2) Using a computerized simulator or other method for training controllers to recognize AOCs CRM SEC. 9	X			
	(3) Training controllers on their responsibilities for communication under the operator’s emergency response procedures. CRM SEC. 9	X			
	(4) Training that provides a working knowledge of the pipeline system, especially during AOCs. CRM SEC. 9	X			
	(5) Providing an opportunity for controllers to review relevant procedures for infrequently used operating setups. CRM SEC. 9	X			

SUBPART - M		S	U	N/A	N/C											
TRANSMISSION LINES - PATROLLING & LEAKAGE SURVEY PROCEDURES																
365.	Patrolling ROW conditions .705(a) GSM SPEC. 5.15	X														
366.	Maximum interval between patrols of lines: .705 (b) GSM SPEC. 5.15															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Class Location</th> <th style="width: 40%;">At Highway and Railroad Crossings</th> <th style="width: 35%;">At All Other Places</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 and 2</td> <td style="text-align: center;">2/yr (7½ months)</td> <td style="text-align: center;">1/yr (15 months)</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">4/yr (4½ months)</td> <td style="text-align: center;">2/yr (7½ months)</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">4/yr (4½ months)</td> <td style="text-align: center;">4/yr (4½ months)</td> </tr> </tbody> </table>	Class Location	At Highway and Railroad Crossings	At All Other Places	1 and 2	2/yr (7½ months)	1/yr (15 months)	3	4/yr (4½ months)	2/yr (7½ months)	4	4/yr (4½ months)	4/yr (4½ months)	X		
Class Location	At Highway and Railroad Crossings	At All Other Places														
1 and 2	2/yr (7½ months)	1/yr (15 months)														
3	4/yr (4½ months)	2/yr (7½ months)														
4	4/yr (4½ months)	4/yr (4½ months)														
367.	Leakage surveys – 1 year/15 months .706 GSM SPEC. 5.11	X														
368.	Leak detector equipment survey requirements for lines transporting un-odorized gas (N/A - All pipelines in WA require odorization)															

WAC 480-93-185		S	U	N/A	N/C
GAS LEAK INVESTIGATION					
	Procedures for the prompt investigation of any notification of a leak, explosion, or fire, which may involve gas pipelines or other gas facilities.				
369.	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) GESH SEC. 2 	X			

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370.	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) GESH SEC. 2 	X			
371.	480-93-180(1)	<ul style="list-style-type: none"> retain the leak investigation record for the life of the pipeline. 480-93-185(1) 	X			
372.	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) GESH SEC. 17	X			
373.	480-93-180(1)	Taking appropriate action when leak indications originating from a foreign source. Notification requirements. 480-93-185(3) GESH SEC. 2	X			

WAC 480-93-186 LEAK EVALUATION			S	U	N/A	N/C
374.	480-93-180(1)	Grade leaks as defined in WAC 480-93-18601 to establish the leak repair priority. 480-93-186(1) GESH SEC. 2	X			
375.	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. GESH SEC. 2	X			
376.	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) GESH SEC. 2	X			
377.	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) GESH SEC. 2	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)				
378.	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. GESH SEC. 2	X			

Comments:

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WAC 480-93-188 GAS LEAK SURVEYS			S	U	N/A	N/C
379.	480-93-180(1)	gas leak surveys using a gas detection instrument covering areas listed in 480-93-188(1)(a-e) GSM SPEC. 5.11	X			
380.		Gas detection instruments tested for accuracy/intervals (Mfct rec or monthly not to exceed 45 days) 480-93-188(2) GSM SPEC. 5.11	X			
381.		Surveys conducted according to the minimum frequencies outlined under 480-93-188(3)(a-d) GSM SPEC. 5.11	X			
382.		Surveys conducted under the following circumstances outlined under 480-93-188(4)(a-e) GSM SPEC. 5.11	X			
383.		Survey records must be kept for a minimum of five years and contain information required under 480-93-188(5)(a-f) GSM SPEC. 5.11	X			
384.		Self audits as necessary, but not to exceed three years between audits and meet the criteria outlined under 480-93-188(6)(a-e) GSM SPEC. 5.11	X			

Comments:

PIPELINE MARKERS PROCEDURES			S	U	N/A	N/C
385.	480-93-180(1)	Placement of markers - railroad, road, irrigation and drainage ditch crossings... 480-93-124 (1) GSM SPEC. 5.15	X			
386.		Placement of markers - Separation/Other locations... 480-93-124 (2) & 192.707 GSM SPEC. 5.15	X			
387.		Installed at each end of bridges or other spans / Inspected 1/YR (15 Months) 480-93-124 (3) GSM SPEC. 5.15	X			
388.		Markers reported missing or damaged replaced within 45 days? 480-93-124(4) GSM SPEC. 5.15	X			
389.		Surveys of pipeline markers – Not to exceed 5/YR Records 10/Yrs minimum 480-93-124(5) GSM SPEC. 5.15	X			
390.		Maintain maps, drawings or other records indicating class locations and other areas where pipeline markers are required 480-93-124(6) GSM SPEC. 5.15	X			

Comments:

SUBPART - M TRANSMISSION RECORD KEEPING PROCEDURES			S	U	N/A	N/C
391.	480-93-180(1) / 192.605 (b)	Records must be maintained... 709 GSM SPEC. 3.32	X			
392.		(a) Repairs to the pipe – life of system GSM SPEC. 3.32	X			
393.		(b) Repairs to “other than pipe” – 5 years GSM SPEC. 3.32, 5.12, 5.13, 5.14	X			
394.		(c) Operation (Sub L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next one GSM SPEC. 5.11-5.15	X			

SUBPART - M TRANSMISSION LINE FIELD REPAIR PROCEDURES			S	U	N/A	N/C
Imperfections and Damages						
395.	480-93-180(1) / 192.605 (b)	Repairs of imperfections and damages on pipelines operating above 40% SMYS				
396.		<ul style="list-style-type: none"> Cut out a cylindrical piece of pipe and replace with pipe of \geq design strength .713(a)(1) 			X	

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SUBPART - M			S	U	N/A	N/C
TRANSMISSION LINE FIELD REPAIR PROCEDURES						
397.		<ul style="list-style-type: none"> Use of a reliable engineering method .713(a)(2) 			X	
398.		Reduce operating pressure to a safe level during the repair .713(b)			X	
Permanent Field Repair of Welds						
399.		Welds found to be unacceptable under §192.241(c) must be repaired by: .715				
400.	480-93-180(1) / 192.605 (b)	(a) Taking the line out of service and repairing in accordance with §192.245: GSM SPEC. 3.22, 3.32	X			
401.		<ul style="list-style-type: none"> Cracks longer than 8% of the weld length (except offshore) must be removed 	X			
402.		<ul style="list-style-type: none"> For each weld that is repaired, the defect must be removed down to clean metal and the pipe preheated if conditions demand it 	X			
403.		<ul style="list-style-type: none"> Repairs must be inspected to ensure acceptability 	X			
404.		<ul style="list-style-type: none"> Crack repairs or defect repairs in previously repaired areas must be done in accordance with qualified written welding procedures 	X			
405.		(b) If the line remains in service, the weld may be repaired in accordance with §192.245 if: GSM SPEC. 3.22, 3.32				
406.		<ul style="list-style-type: none"> The weld is not leaking (1) 	X			
407.		<ul style="list-style-type: none"> he pressure is reduced to produce a stress that is 20% of SMYS or less (2) 	X			
408.		<ul style="list-style-type: none"> Grinding is limited so that ¼ inch of pipe weld remains (3) 	X			
409.		<ul style="list-style-type: none"> If the weld cannot be repaired in accordance with (a) or (b) above, a full encirclement welded split sleeve must be installed (c) 	X			
Permanent Field Repair of Leaks						
410.		Field repairs of leaks must be made as follows: .717				
411.	480-93-180(1) / 192.605 (b)	<ul style="list-style-type: none"> Replace by cutting out a cylinder and replace with pipe similar or of greater design (a) GSM SPEC. 3.32 	X			
412.		<ul style="list-style-type: none"> Install a full encirclement welded split sleeve of an appropriate design unless the pipe is joined by mechanical couplings and operates at less than 40% SMYS (b)(1) GSM SPEC. 3.32 	X			
413.		<ul style="list-style-type: none"> A leak due to a corrosion pit may be repaired by installing a bolt on leak clamp (b)(2) GSM SPEC. 3.32 	X			
414.	480-93-180(1) / 192.605 (b)	<ul style="list-style-type: none"> For a corrosion pit leak, if a pipe is not more than 40,000 psi SMYS, the pits may be repaired by fillet welding a steel plate. The plate must have rounded corners and the same thickness or greater than the pipe, and not more than ½D of the pipe size (b)(3) GSM SPEC. 3.32 	X			
415.		<ul style="list-style-type: none"> Submerged offshore pipe or pipe in inland navigable waterways may be repaired with a mechanically applied full encirclement split sleeve of appropriate design (b)(4) 			X	
416.		<ul style="list-style-type: none"> Apply reliable engineering method (b)(5) GSM SPEC. 3.32 	X			
Testing of Repairs						
417.	480-93-180(1) / 192.605 (b)	Replacement pipe must be pressure tested to meet the requirements of a new pipeline .719(a)				
418.		(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) GSM SPEC. 3.32	X			

SUBPART - M			S	U	N/A	N/C
DISTRIBUTION SYSTEM PATROLLING & LEAKAGE SURVEY PROCEDURES						
419.	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) GSM SPEC. 5.15	X			
420.		Patrolling surveys are required in business districts at intervals not exceeding 4½ months, but at	X			

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		least four times each calendar year .721 (b)(1) GSM SPEC. 5.15				
421.		Patrolling surveys are required outside business districts at intervals not exceeding 7½ months, but at least twice each calendar year .721 (b)(2) GSM SPEC. 5.15	X			
422.		Periodic leak surveys determined by the nature of the operations and conditions. .723 (a)& (b) GSM SPEC. 5.11	X			
423.		In business districts as specified, 1/yr (15 months) .723(b)(1) GSM SPEC. 5.11	X			
424.		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) GSM SPEC. 5.11	X			

SUBPART - M			S	U	N/A	N/C
TEST REQUIREMENTS FOR REINSTATING SERVICE LINES						
425.	480-93-180(1) /	Except for .725(b), disconnected service lines must be tested the same as a new service line. .725(a) GSM SPEC. 3.18, 5.11, 5.17	X			
426.	192.605 (b)	Service lines that are temporarily disconnected must be tested from the point of disconnection, the same as a new service line, before reconnect. See code for exception to this. .725(b) GSM SPEC. 3.18, 5.11	X			

Comments:

395-397. Avista does not operate any pipelines above 40% SMYS.
415. Avista does not operate any transmission mains under inland navigable waters.

SUBPART - M			S	U	N/A	N/C
ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES						
427.		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) GSM SPEC. 5.16	X			
428.		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) GSM SPEC. 5.16	X			
429.		Whenever service to a customer is discontinued, do the procedures indicate one of the following: .727(d)				
430.	480-93-180(1) / 192.605 (b)	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) GSM SPEC. 5.16	X			
431.		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) GSM SPEC. 5.16	X			
432.		The customer’s piping must be physically disconnected from the gas supply and the open pipe ends sealed .727(d) (3) GSM SPEC. 5.16	X			
433.		If air is used for purging, the operator shall ensure that a combustible mixture is not present after purging .727 (e) GSM SPEC. 5.16	X			
434.		Abandoned vaults filled with suitable compacted materials .727(f) GSM SPEC. 5.16			X	
435.		Operator must file reports upon abandoning underwater facilities crossing navigable waterways, including offshore facilities. .727(g) GSM SPEC. 5.16	X			

Comments:

434. Avista does not have any vaults in their WA system. See GSM SPEC. 5.16

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.605(b)		SUBPART - M COMPRESSOR STATION PROCEDURES	S	U	N/A	N/C
.605(b)(6)	Maintenance procedures, including provisions for isolating units or sections of pipe and for purging before returning to service				X	
.605(b)(7)	Starting, operating, and shutdown procedures for gas compressor units				X	
.731	Inspection and testing procedures for remote control shutdowns and pressure relieving devices (1 per yr/15 months), prompt repair or replacement				X	
.735	(a) Storage of excess flammable or combustible materials at a safe distance from the compressor buildings				X	
	(b) Tank must be protected according to NFPA #30 ; Amdt 192-103 pub. 06/09/06 eff. 07/10/06.				X	
.736	Compressor buildings in a compressor station must have fixed gas detection and alarm systems (must be performance tested), unless:				X	
	▪ 50% of the upright side areas are permanently open, or				X	
	▪ It is an unattended field compressor station of 1000 hp or less				X	

SUBPART - M PRESSURE LIMITING and REGULATING STATION PROCEDURES			S	U	N/A	N/C						
436.	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) GSM SPEC. 5.10, 5.12	X									
437.		In good mechanical condition .739(a) (1) GSM SPEC. 5.12	X									
438.		Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed .739(a)(2) GSM SPEC. 5.12, 2.23	X									
439.		Set to control or relieve at correct pressures consistent with .201(a), except for .739(b). .739(a) (3) GSM SPEC. 5.12, 2.23	X									
440.		Properly installed and protected from dirt, liquids, other conditions that may prevent proper oper. .739(a)(4) GSM SPEC. 5.12, 2.23	X									
441.		For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi gage or more739(b)										
442.	480-93-180(1) / 192.605 (b)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">If MAOP produces hoop stress that</td> <td style="text-align: center;">Then the pressure limit is:</td> </tr> <tr> <td style="text-align: center;">Is greater than 72 percent of SMYS</td> <td style="text-align: center;">MAOP plus 4 percent</td> </tr> <tr> <td style="text-align: center;">Is unknown as a percent of SMYS</td> <td style="text-align: center;">A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP GSM SPEC. 2.23</td> </tr> </table>	If MAOP produces hoop stress that	Then the pressure limit is:	Is greater than 72 percent of SMYS	MAOP plus 4 percent	Is unknown as a percent of SMYS	A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP GSM SPEC. 2.23	X			
If MAOP produces hoop stress that	Then the pressure limit is:											
Is greater than 72 percent of SMYS	MAOP plus 4 percent											
Is unknown as a percent of SMYS	A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP GSM SPEC. 2.23											
443.	480-93-180(1) / 192.605 (b)	Pressure limiting and regulating stations: Telemetering or recording gages 192.741(a) thru (c) GSM SPEC. 2.23, 2.25	X									
444.		Testing of Relief Devices - Procedures for ensuring, either by testing or a review of calculations, at intervals not exceeding 15 months, but at least once each calendar year, that the capacity of each pressure relief device at pressure limiting stations and pressure regulating stations has sufficient capacity, and for installing a new or additional device if a relief device is determined to have insufficient capacity. .743 (a) thru (c) GSM SPEC. 5.12, 2.23	X									

Comments:
192.605(b). Avista does not have compressor stations in their WA system.

SUBPART - M VALVE AND VAULT MAINTENANCE PROCEDURES			S	U	N/A	N/C
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445.	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) GSM SPEC. 5.13, 2.14	X			
Transmission Valves						
446.	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) GSM SPEC. 5.10, 5.13	X			
447.		Prompt remedial action required, or designate alternative valve .745(b) GSM SPEC. 5.13	X			
Distribution Valves						
448.	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) GSM SPEC. 5.13	X			
449.		Prompt remedial action required, or designate alternative valve .747(b) GSM SPEC. 5.13	X			
Service Valves			S	U	N/A	N/C
450.	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)? GSM SPEC. 5.13, 2.14	X			
451.		Service valve maintenance (1 per yr/15 months) 480-93-100(3) GSM SPEC. 5.13	X			
452.		Service valve installation and maintenance program fully implemented by 6/01/07? 480-93-100(6) GSM SPEC. 5.13	X			
Vaults						
453.	480-93-180(1) / 192.605 (b)	Inspection of vaults greater than 200 cubic feet (1 per yr/15 months) .749	X			

SUBPART - M			S	U	N/A	N/C
PREVENTION of ACCIDENTAL IGNITION PROCEDURES						
454.	480-93-180(1) / 192.605 (b)	Reduce the hazard of fire or explosion by: (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. 192.751 (a) thru (c) GSM SPEC. 3.17	X			

Comments:
453. Avista does not have any vaults in their WA system. See GSM SPEC. 5.14

SUBPART - M			S	U	N/A	N/C
CAULKED BELL AND SPIGOT JOINTS PROCEDURES						
455.		Cast-iron caulked bell and spigot joint repair: .753				
456.	480-93-180(1) / 192.605 (b)	<ul style="list-style-type: none"> When subject to more than 25 psig, sealed with mechanical clamp, or sealed with material/device which does not reduce flexibility, permanently bonds, and seals and bonds as prescribed in §192.753(a)(2)(iii) .753(a) 			X	
457.		<ul style="list-style-type: none"> When subject to 25 psig or less, joints, when exposed for any reason, must be sealed by means other than caulking .753(b) 			X	

SUBPART - M			S	U	N/A	N/C
PROTECTING CAST-IRON PIPELINE PROCEDURES						
458.	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				
459.		<ul style="list-style-type: none"> Vibrations from heavy construction equipment, trains, trucks, buses or blasting? .755(a) 			X	

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460.		• Impact forces by vehicles? .755(b)			X	
461.		• Earth movement? .755(c)			X	
462.		• Other foreseeable outside forces which might subject the segment of pipeline to a bending stress .755(d)			X	
463.		Provide permanent protection for the disturbed section as soon as feasible .755(e)			X	

Comments:
455-457. Avista does not have caulked bell and spigot joints.
458-463. Avista does not have cast-iron in their system.

SUBPART N — QUALIFICATION of PIPELINE PERSONNEL			S	U	N/A	N/C
Date of last UTC staff OQ plan review 9/30/2014						
464.	192.801 192.809	Any revisions to plan since last review? Yes X No If yes, review revisions made. See GSM SPEC. 1 update section	X			
465.	480-93-180(1)	Have “New Construction” activities been identified and included in the operator’s covered task list? 480-93-013 GSM SPEC. 4.31	X			

Comments:

FILING REQUIREMENTS for DESIGN, SPECIFICATION, and CONSTRUCTION			S	U	N/A	N/C
466.	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) GSM SPEC. 1.4, 4.11	X			
467.	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) GSM SPEC. 1.4, 4.11	X			

MAPS, DRAWINGS, and RECORDS of GAS FACILITIES			S	U	N/A	N/C
468.	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) GSM SPEC. 4.11	X			

PROXIMITY CONSIDERATIONS			S	U	N/A	N/C
469.	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) GSM 	X			

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		SPEC. 2.12				
470.	480-93-180(1)	<p>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)</p> <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) <p>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) GSM SPEC. 2.12</p>	X			

Comments:

Attachment 1
Alternative Maximum Allowable Operating Pressure

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

192.620	Alternative MAOP Procedures and Verifications	S	U	N/A	N/C								
	The alternative MAOP is calculated by using different factors in the same formulas used for calculating MAOP in §192.619. In determining the alternative design pressure under §192.105 use a design factor determined in accordance with §192.111(b), (c), or (d), or, if none of these apply in accordance with:												
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding-right: 20px;">Class Location</td> <td>Alternative Design Factor (F)</td> </tr> <tr> <td style="padding-right: 20px;">1</td> <td>0.80</td> </tr> <tr> <td style="padding-right: 20px;">2</td> <td>0.67</td> </tr> <tr> <td style="padding-right: 20px;">3</td> <td>0.56</td> </tr> </table>	Class Location	Alternative Design Factor (F)	1	0.80	2	0.67	3	0.56				
Class Location	Alternative Design Factor (F)												
1	0.80												
2	0.67												
3	0.56												
.620(a)	(1) Establish alternative MAOP commensurate with class location – no class 4			X									
	(2) MAOP cannot exceed the lowest of the following:												
	(i) Design pressure of the weakest element			X									
	(ii) Test pressure divided by applicable factor			X									
.620(b)	(2) Pipeline constructed of steel pipe meeting additional requirements in §192.112.			X									
	(3) SCADA system with remote monitoring and control			X									
	(4) Additional construction requirements described in §192.328			X									
	(5) No mechanical couplings			X									
	(6) No failures indicative of systemic material fault – if previously operated at lower MAOP			X									
	(7) 95% of girth welds have NDT			X									
					X								
.620(c)	(1) PHMSA notified 180 days before operating at alternative MAOP			X									
	(2) Senior Executive signatures and copy to PHMSA			X									
	(4) Strength test per §192.505 or certify previous strength test			X									

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192.620	Alternative MAOP Procedures and Verifications	S	U	N/A	N/C
	(6) Construction tasks treated as covered tasks for Operator Qualification			X	
	(7) Records maintained for life of system			X	
	(8) Class location change anomaly remediations			X	
.620(d)	(1) Threat matrix developed consistent with §192.917			X	
	(2) Recalculate the potential impact circle per §192.903 and implement public education per §192.616			X	
	(3) Responding to an emergency in an HCA				
	(i) Identify HCAs using larger impact circle			X	
	(ii) Check personnel response times			X	
	(iii) Verify remote valve abilities			X	
	(iv) Verify line break valve control system			X	
	(4) Protect the right-of-way:				
	(i) ROW patrols 12 per year not to exceed 45 days			X	
	(ii) Plan to identify and mitigate unstable soil			X	
	(iii) Replace loss of cover if needed			X	
	(iv) Use line-of-sight markers per §192.707			X	
	(v) Review damage prevention program in light of national consensus practices			X	
	(vi) ROW management plan to protect against excavation activities			X	
	(5) Control Internal Corrosion:				
	(i) Program to monitor gas constituents			X	
	(ii) Filter separators if needed			X	
	(iii) Gas Monitoring equipment used			X	
	(iv) Cleaning pigs, inhibitors, and sample accumulated liquids				
.620(d)	(v) Limit CO ₂ , H ₂ S, and water in the gas stream			X	
	(vi) Quarterly program review based on monitoring results			X	
	(6) (i) Control interference that can impact external corrosion			X	
	(ii) Survey to address interference currents and remedial actions			X	
	(7) Confirm external corrosion control through indirect assessment			X	
	(i) Assess adequacy of CIS and perform DCVG or ACVG within 6 months				
	(ii) Remediate damage with IR drop > 35%			X	
	(iii) Integrate internal inspection results with indirect assessment			X	
	(iv) Periodic assessments for HCAs			X	
	(A-C) Close interval surveys, test stations at ½ mile intervals, and integrate results				
	(8) Cathodic Protection			X	
	(i) Complete remediations within 6 months of failed reading				
	(ii) Confirm restoration by a close interval survey			X	
	(iii) Cathodic protection system operational within 12 months of construction completion			X	
	(9) Baseline assessment of integrity			X	
	(i)(A) Geometry tool run within 6 months of service				
	(i)(B) High resolution MFL tool run within 3 years of service			X	
	(ii) Geometry and MFL tool 2 years prior to raising pressure for existing lines			X	

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192.620	Alternative MAOP Procedures and Verifications	S	U	N/A	N/C
	(iii) If short portions cannot accommodate tools, use direct assessment per §192.925, 927, 929 or pressure testing			X	
(10)	Periodic integrity assessments			X	
	(i) Frequency for assessments determined as if all segments covered by Subpart O				
	(ii) Inspect using MFL tool or direct assessment per §192.925, 927, 929 or pressure testing.			X	
(11)	Repairs			X	
	(i)(A) Use of the most conservative calculation for anomaly remaining strength				
	(B) Tool tolerances taken into consideration			X	
	(ii) Immediate repairs for:			X	
	(A) Dents meeting 309(b) criteria				
	(B) Defects meeting immediate criteria in §192.933(d)			X	
	(C) Calculated failure pressure ratio less than 1.25 for .67 design factor			X	
	(D) Calculated failure pressure ratio less than 1.4 for .56 design factor			X	
	(iii) Repairs within 1 year for:			X	
	(A) Defects meeting 1 year criteria in 933(d)				
	(B) Calculated failure pressure ratio less than 1.25 for .80 design factor			X	
	(C) Calculated failure pressure ratio less than 1.50 for .67 design factor			X	
	(D) Calculated failure pressure ratio less than 1.80 for .56 design factor			X	
	(iv) Evaluate defect growth rate for anomalies with > 1 year repair interval and set repair interval			X	
.620(e)	(1) Provide overpressure protection to a max of 104% MAOP			X	
	(2) Procedure for establishing and maintaining set points for SCADA			X	

Comments:

192.620. Avista does not employ alternative MAOP.

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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>