

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

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

Inspection Report			
Docket Number	PG-090077		
Inspector Name & Submit Date	Patricia Johnson, 11/19/09		
Sr. Eng Name & Review/Date	D. Lykken 11/21/09		
Operator Information			
Name of Operator:	Avista Utilities	OP ID #:	31232
Name of Unit(s):	Colville		
Records Location:	Colville		
Date(s) of Last (unit) Inspection:	June 25 to 27, 2007	Inspection Date(s):	10/12-16/09

Inspection Summary:

Avista has transmission in district – 47 miles over 27% SYMS

NOTE: For right of ways, Avista has a 5 year rotation and RWs are monitored by Leak Survey.

NOTE: Calibration in Colville was above and beyond because even throw away gauges are checked for accuracy. In 2009, Avista started calibrating their own equipment and this procedure was not in the O&M yet. Suggest reviewing procedure at next inspection.

On 2 and 5 lb meter sets, there is not an Avista tag. I was unable to identify meter numbers during pre field. Avista stated that number on flange or id tag. The one we fielded had tag to close to building to see and the number was not on the flange. Review WAC 480-90-328 in next inspection. This is not a safety concern but we need to be able to identify meters

The proximity rule states (1) Each gas pipeline company must submit a written request and receive commission approval prior to: operating. Therefore building built after line install are not proximity consideration

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HQ Address: E 1411 Mission Spokane, WA 99220		System/Unit Name & Address: 230 E Birch Ave, Colville, WA 99114	
Co. Official:	Mike Faulkenbury	Phone No.:	1-(509) 684-6434
Phone No.:	509-495-8499	Fax No.:	
Fax No.:		Emergency Phone No.:	1-509-489-0500
Emergency Phone No.:			

Persons Interviewed	Title	Phone No.
Kris Brisko	Pipeline Safety Engr	
Bill Gest	Gas Leak Survey	
Sonia Johnson	Compliance Tech for W Region	
Ken Sampson	Gas Serviceman	
Shawn Gallagher	Colville Manager	
Marshall Law	Gas Leak Survey	
Gary Douglas	Cp Foreman	
Rich Inouye	Pressure Control man	
Bob Larson	Cathodic Protection Technician	

Pressure Control man

WUTC staff conducted an abbreviated procedures inspection on 192 O&M and WAC items that changed since the last inspection. This checklist focuses on Records and Field items per a routine standard inspection.			
(check one below and enter appropriate date)			
<input checked="" type="checkbox"/>	Team inspection was performed (Within the past five years.) or,	Date:	5/2007
<input type="checkbox"/>	Other WUTC Inspector reviewed the O & M Manual (Since the last yearly review of the manual by the operator.)	Date:	

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GAS SYSTEM OPERATIONS

Gas Supplier	Williams		
Services:	Residential 3344 Commercial 653 Industrial 9 Other		
Number of reportable safety related conditions last year	0	Number of deferred leaks in system	0
Number of <u>non-reportable</u> safety related conditions last year	0	Number of third party hits last year	275 With corrected definition of damage. Avista cannot break down per district
Miles of transmission pipeline within unit (total miles and miles in class 3 & 4 areas)	47	Miles of main within inspection unit (total miles and miles in class 3 & 4 areas)	175 total, 105 is class 3, no class 4
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:	500 MAOP on transmission	same	485
Town:	All towns 60 MAOP	same	Vary from 25 to 55
Other:			
Does the operator have any transmission pipelines?	Yes, 47 miles		
Compressor stations? Use Attachment	NO		

Pipe Specifications:

Year Installed (Range)	1966 to current	Pipe Diameters (Range)	½ to 8"
Material Type	Steel and pe	Line Pipe Specification Used	API 5L
Mileage	175 miles main, 82 miles of 8" this includes 47 miles is transmission	SMYS %	27% on Kettle Falls line, varies but that is max on line

Operator Qualification Field Validation

Important: Per OPS, the OQ Field Inspection Protocol Form (Rev 3, Feb 08) shall be used by the inspector as part of this standard inspection. When completed, the inspector will upload this information into the PHMSA OQ Database (OQDB) located at <http://primis.phmsa.dot.gov/oqdb/home.oq> **Date Completed 10-15-2009**

REPORTING RECORDS

			S	U	N/A	N/C
1.	191.5	Any incidents requiring telephonic reporting to the NRC (800-424-8802) 8-13-09 None for Colville, None for Avista	X			
2.	191.23	Filing the Safety Related Condition Report within 5 days of determination, but not later than 10 days after discovery 8-13-09 None for Colville, None for Avista	X			

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REPORTING RECORDS			S	U	N/A	N/C
3.	192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports None for Colville, None for Avista	X			
4.	480-93-200(1)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 2 hours) for events which results in;				
5.	480-93-200(1)(a)	A fatality or personal injury requiring hospitalization; None for Avista	X			
6.	480-93-200(1)(b)	Damage to property of the operator and others of a combined total exceeding fifty thousand dollars; None for Avista	X			
7.	480-93-200(1)(c)	The evacuation of a building, or high occupancy structures or areas; None for Colville	X			
8.	480-93-200(1)(d)	The unintentional ignition of gas; None for Colville	X			
9.	480-93-200(1)(e)	The unscheduled interruption of service furnished by any operator to twenty five or more distribution customers; None for Colville	X			
10.	480-93-200(1)(f)	A pipeline pressure exceeding the MAOP plus ten percent or the maximum pressure allowed by proximity considerations outlined in WAC 480-93-020; None for Colville.	X			
11.	480-93-200(1)(g)	Is significant, in the judgment of the operator, even though it does not meet the criteria of (a) through (f) of this subsection; None for Colville	X			
12.	480-93-200(2)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for;				
13.	480-93-200(2)(a)	The uncontrolled release of gas for more than two hours; None for Colville	X			
14.	480-93-200(2)(b)	The taking of a high pressure supply or transmission pipeline or a major distribution supply gas pipeline out of service; None for Colville	X			
15.	480-93-200(2)(c)	A gas pipeline operating at low pressure dropping below the safe operating conditions of attached appliances and gas equipment; or None for Colville	X			
16.	480-93-200(2)(d)	A gas pipeline pressure exceeding the MAOP One, 11-5, 007 letter address exceeding the MAOP by 3 psig at Reg Station 562	X			
17.	480-93-200(4)	Did written incident reports (within 30 days of telephonic notice) include the following				
18.	480-93-200(4)(a)	Name(s) and address(es) of any person or persons injured or killed, or whose property was damaged; 10-13-09 Included on all 30 day reports	X			
19.	480-93-200(4)(b)	The extent of injuries and damage; 10-13-09 Included on all 30 day reports	X			
20.	480-93-200(4)(c)	A description of the incident or hazardous condition including the date, time, and place, and reason why the incident occurred. If more than one reportable condition arises from a single incident, each must be included in the report; 10-13-09 Included on all 30 day reports	X			

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REPORTING RECORDS			S	U	N/A	N/C
21.	480-93-200(4)(d)	A description of the gas pipeline involved in the incident or hazardous condition, the system operating pressure at that time, and the MAOP of the facilities involved; 10-13-09 Included on all 30 day reports	X			
22.	480-93-200(4)(e)	The date and time the gas pipeline company was first notified of the incident; 10-13-09 Included on all 30 day reports	X			
23.	480-93-200(4)(f)	The date and time the ((operators')) gas pipeline company's first responders arrived on-site; 10-13-09 Included on all 30 day reports	X			
24.	480-93-200(4)(g)	The date and time the gas ((facility)) pipeline was made safe; 10-13-09 Included on all 30 day reports	X			
25.	480-93-200(4)(h)	The date, time, and type of any temporary or permanent repair that was made; 10-13-09 Included on all 30 day reports	X			
26.	480-93-200(4)(i)	The cost of the incident to the ((operator)) gas pipeline company; 10-13-09 Included on all 30 day reports	X			
27.	480-93-200(4)(j)	Line type; 10-13-09 Included on all 30 day reports	X			
28.	480-93-200(4)(k)	City and county of incident; and 10-13-09 Included on all 30 day reports	X			
29.	480-93-200(4)(l)	Any other information deemed necessary by the commission. 10-13-09 Included on all 30 day reports	X			
30.	480-93-200(5)	Submit a supplemental report if required information becomes available 10-13-09 Yes, Avista would	X			
31.	480-93-200(6)	Written report within 5 days of receiving the failure analysis of any incident or hazardous condition due to construction defects or material failure Colville has not had any.	X			
32.	480-93-200(7)	Annual Reports filed with the commission no later than March 15 for the proceeding calendar year				
33.	480-93-200(7)(a)	A copy of PHMSA F-7100.1-1 and F-7100.2-1 annual report required by U.S. Department of Transportation, PHMSA/Office of Pipeline Safety Yes,	X			
34.	480-93-200(7)(b)	Damage Prevention Statistics Report including the following; Yes				
35.	480-93200(7)(b)(i)	Number of gas-related one-call locate requests completed in the field; Yes	X			
36.	480-93-200(7)(b)(ii)	Number of third-party damages incurred; and After Pullman inspection, they way Avista counted was changed to included rewrap etc.	X			
37.	480-93-200(7)(b)(iii)	Cause of damage, where cause of damage is classified as one of the following: (A) Inaccurate locate; (B) Failure to use reasonable care; (C) Excavated prior to a locate being conducted; or (D) Excavator failed to call for a locate. Yes	X			

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REPORTING RECORDS			S	U	N/A	N/C
38.	480-93-200(7)(c)	Reports detailing all construction defects and material failures resulting in leakage. Categorizing the different types of construction defects and material failures. The report must include the following: (i) Types and numbers of construction defects; and (ii) Types and numbers of material failures. Yes	X			
39.	480-93-200(8)	Providing updated emergency contact information to the commission and appropriate officials of all municipalities where gas pipeline companies have facilities Reviewed letter dated 4-9-07 to Alan Ruthbun and email dated 5-15-09 with emergency contact information to the commission	X			
40.	480-93-200(9)	Providing by email, reports of daily construction and repair activities no later than 10:00 a.m. Yes, spot checked since pre field	X			
41.	480-93-200(10)	Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form when required Yes, reviewed annual	X			

Comments:

CUSTOMER and EXCESS FLOW VALVE INSTALLATION NOTIFICATION			S	U	N/A	N/C
42.	192.16	New customers notified, within 90 days , of their responsibility for those service lines not maintained by the operator	X			
43.	192.381	Does the excess flow valve meet the performance standards prescribed under §192.381?	X			
44.	192.383	Does the operator have a voluntary installation program for excess flow valves and does the program meet the requirements outlined in §192.383? Are records adequate? Mandatory by Avista	X			
45.	192.383	If no voluntary program for EFV installations, are customers notified in accordance with §192.383? Are records adequate?	X			

CONSTRUCTION RECORDS			S	U	N/A	N/C
46.	480-93-013	OQ records for personnel performing New Construction covered tasks	X			
47.	192.225	Test Results to Qualify ing Procedures Note: Welding procedures have not changed since 2007, last revision date was 4-2006. Scott reviewed in 2007	X			
48.	192.227	Welder Qualification Rich Inouye there from Avista. He does testing	X			
49.	480-93-080(1)(a)(iv)	Appendix C Welders re-qualified 2/Yr (7.5Months) Rich Inouye Avista does not do Appendix C Welding. Use API 1104, Use API 1104 for new construction and repair			X	
50.	480-93-080(2)	Plastic pipe joiners re-qualified 1/Yr (15 Months) See question 51 and 52	X			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
51.	480-93-080(2)(b)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period Reviewed For Colville reviewed records for Ken Sampson, Pe joining-electro fusion, pe joining-Manual Butt Fusion, pe joining – Mechanical Couplings, Pe joining Mechanical Service Tee; AND Contactor Reesa & Sons Construction – employees with certification for all includes Michael Ressa, Chris Salo, Terry Salo and Dallas Willey for Pe joining-electro fusion, pe joining-Manual Butt Fusion, pe joining – Mechanical Couplings, Pe joining Mechanical Service Tee. Harry Dotts (is not qualified to electro fusion or butt fusion),	x			
52.	480-93-080(2)(c)	Tracking Production Joints or Re-qualify joiners 1/Yr (12Months) Avista both re qualifies and tracks so if OQ Date is late they are still in compliance. Reviewed Avista uses for Plastic Pipe Field Joint Tracking form, Reviewed Ken Sampson and for contractors Mike Ressa, Dallas Willey and Terry Salo	x			
53.	480-93-115(2)	Test leads on casings (without vents) installed after 9/05/1992 No casings in Colville without vent.	x			
54.	480-93-115(3)	Sealing ends of casings or conduits on transmission lines and mains In O&M, but no casing installed in Colville since at least 2007	x			
55.	480-93-115(4)	Sealing ends (nearest building wall) of casings or conduits on services Colville has approx 10, Conduit is mapped (even for under drive). O&M Section 3.42 page 5 of 5.	x			
56.	192.241(a)	Visual Weld Inspector Training/Experience Reviewed OQ – Visual Inspection of the weld for company. Ken Sampson qualified on 2-6-09. The contractor Mike Ressa, and his personnel Rich Kroiss, Terry Salo were qualified and expiration date was 2-6-09 . However, Avista very clearly used the definition of annual in the WA WAC so they are not technically expired until 12-31-09 . Bart Nelson the welder is not qualified to visual inspect his own welds	x			
57.	192.243(b)(2)	Nondestructive Technician Qualification No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
58.	192.243(c)	NDT procedures No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
59.	192.243(f)	Total Number of Girth Welds No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
60.	192.243(f)	Number of .. s Inspected by NDT No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
61.	192.243(f)	Number of Welds Rejected No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
62.	192.243(f)	Disposition of each Weld Rejected No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
63.	192.303	Construction Specifications For transmission No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures. For O&M annually updated	x			
64.	192.325	Underground Clearance No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
65.	192.327	Amount, location, cover of each size of pipe installed In O&M, annually updated	x			
66.	480-93-160(1)	Report filed 45 days prior to construction or replacement of transmission pipelines ≥ 100 feet in length Commission would be notified per O&M. No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
67.	480-93-160(2)	Did report describe the proposed route and the specifications for the pipeline and must include, but is not limited to the following items: Report would if written, however, No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
68.	480-93-160(2)(a)	Description and purpose of the proposed pipeline; No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
69.	480-93-160(2)(b)	Route map showing the type of construction to be used throughout the length of the line, and delineation of class location as defined in 49 CFR Part 192.5, and incorporated boundaries along the route. No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
70.	480-93-160(2)(c)	Location and specification of principal valves, regulators, and other auxiliary equipment to be installed as a part of the pipeline system to be constructed No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
71.	480-93-160(2)(d)	MAOP for the gas pipeline being constructed; No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
72.	480-93-160(2)(e)	Location and construction details of all river crossings or other unusual construction requirements encountered en route. No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
73.	480-93-160(2)(f)	Proposed corrosion control program to be followed inc specs for coating and wrapping, and method to ensure the integrity of the coating using holiday detection equipment; No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
74.	480-93-160(2)(g)	Welding specifications; and No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			
75.	480-93-160(2)(h)	Bending procedures to be followed if needed. No construction on Transmission line since 1983. If Avista was going to, Engr would handle and follow O&M procedures.	x			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
76.	480-93-170(1)	Commission notified 2 day's prior to pressure testing pipelines with an MAOP producing a hoop stress \geq 20% SMYS? No laterals on HP line tested to 20% smys This is correct statement per Kris	x			
77.	480-93-170(7)	<p>Pressure tests records at a minimum include required information listed under 480-93-170(a-h)</p> <p>(a) Gas pipeline company's name; (b) Employee's name; (c) Test medium used; (d) Test pressure; (e) Test duration; (f) Line pipe size and length; (g) Dates and times; and (h) Test results.</p> <p>Reviewed Main extension, located at 170 Highway 20E, installed 695 ft of 6", 925 ft of 2" and 220 ft of 3/4 pe.</p> <p><u>AOC 1.</u> A probable violation of WAC 480-93-170 (7) was written in the Pullman inspection. In the Pullman Letter of intent, Avista committed to modify pressure test documentation to include those items as outlined in WAC 480-93-170 (7). Pipeline Safety staff accepted the Avista commitment. In the Colville inspection, conducted shortly after the Pullman inspection, missing pressure test information was also found at the following locations.</p> <ol style="list-style-type: none"> 1. A pressure test of the entire main extension at Coxy Nook Rd in Chewelah WA was completed and the pressure sticker properly filled out on 7-8-09. On 9-8-09, Spokane employees, added approximately 10 feet of 2 inch steel pipe in order to remove an existing valve and install a new valve to complete the job. The employee added information and signed the original pressure test sticker, rather than complete a second pressure test sticker. It is not clear that a second pressure test was conducted. 2. On the service card for a service installation at 490 W 2nd, there was no (a) no company name, (c) the test medium was not identified, (g) pressure test times were not noted and (h) there was no test results. 3. On the service card for a service installation at 2235 Alm, Chewelah, there was no (a) no company name, (c) the test medium was not identified, (g) pressure test times were not noted and (h) there was no test results. 4. Avista replaced an isolated main in the alley between 8th and 9th in Colville, and tied existing services over. The pressure test sticker for the main does not have (g) the times of the test. 5. Avista installed gas main and services to the Pheasant Ridge Development. The times of day were missing on the pressure sticker. 		X		

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CONSTRUCTION RECORDS			S	U	N/A	N/C
78	480-93-170(9)	Individual pressure test records maintained for single installations where multiple pressure tests were performed? Yes, an example is Pheasant Ridge. See above	x			
78.		Pressure Testing Equipment checked for accuracy/intervals (Manufacturers Rec or Operators schedule) 2007 Reviewed certificate of Calibration for 0-500 gauge SN 800823 expired 4-19-2008. Was inspected 6-10-2008 and it expired 6-10-2009, 2009 done on 3-27-2009 Each Avista district started calibrating their own gauges. 0-500 gauge, SN 800823 was calibrated on 3-7-09 and expires 3-27-2010. 2008 Reviewed certificate of Calibration for 30 psig gauge (30 psig does not say 30, but can tell from what it was tested to it was 30), SN 00574 , expired 4-24-2009, tested 3-12-09 and expiration 3-12-2010 2008 Reviewed certification of Calibration for Manometer digital , SN MI-1681 expired 4-19-2008, calibrated by McCune on 6-10-2008 and expired 6-10-2009, Colville first inspection was 3-27-09 and expires 3-27-2010 . However SN and manometer name not on form. The missing SN and manometer make it hard to read can tell it was manometer by measured in inches.				

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CONSTRUCTION RECORDS			S	U	N/A	N/C
79.	480-93-170(10)	<p>2008 Reviewed certification of Calibration for 0-600 gauge SN MI-1847 expired 4-19-2008, 09 from McCune expired 6-10-09, the Colville tested 3-27-09 and it expires 3-27-10</p> <p>2008 Reviewed certification of Calibration for 0500 psig gauge, SN 708544, expires 4-19-2008, on the 09 record calibrated 6-10-08 and expired 6-10-09. Then again on 3-27-09 and expires on 3-27-10</p> <p>Marsh 0-600 , document correct and it is physically in office</p> <p>This was very confusing during the inspection. In 2009 Avista started calibrating its own gauges instead of sending them out. Colville was instructed to send all of their gauges to Spokane. Colville took this statement literally and sent all gauges to Spokane, including the 200 psig throw away gauges. The Spokane employee calibrated the gauges that needed calibration and verified the accuracy of the 200 psig gauges he had been sent. He engraved the calibration date on the 200 psig gauges and also sent an inventory of 200 psig No Shock gauges back to Colville. Each of these gauges were numbered given id numbers and calibrated on 4-7-09 with an expiration date of 4-7-10. The 200psig gauges have one date, no SN, one engraved date, no cross references for any of the 200 psig, they buy in bulk and have no way to identify which is which. There are 3 200 psig gauges. One of them a March 200 is disposable and tossed and replaced with 200 psig No shock One of the March 200 psig is still in use. The 3rd 200 psig gauge is a Wika and they cannot find. Assuming it has been tossed. ok</p> <p>THE LONG and the short of this is that both the Colville and Spokane employees exceeded the expectations by verifying the accuracy of the throw away gauges and tracking them.</p> <p>New calibration procedure is not yet in O&M, but will be shortly and Kris said she is going to eliminate all calibration paper and use just gauges engraved dates.</p>	x			
80.	480-93-175(2)	<p>Study prepared and approved prior to moving and lowering of metallic pipelines > 60 psig (over 2")</p> <p>No studies in Colville for 2007, 2008 or 2009. Colville has lowered main but it was within the limits of 480-93-175(2). Please note that special leak surveys were conducted anyway.</p>	x			
81.	480-93-175(4)	<p>Leak survey within 30 days of moving or lowering pipelines ≤ 60 psig</p> <p>3 2" mains lowered all within 480-93-175(2) requirements but had special leak survey conducted anyway. Very Good</p>	x			

Comments:

1. 192.353- Avista Colville does have inside sets, all vented outside - ok
 - (a) Each meter and service regulator, whether inside or outside a building, must be installed in a readily accessible location and be protected from corrosion and other damage, including, if installed outside a building, vehicular damage that may be anticipated. However, the upstream regulator in a series may be buried. **1 O&M SECT 2.22 PG 3 OF 16, 10 FEET FROM FRESH AIR INTAKE.**
 - (b) Each service regulator installed within a building must be located as near as practical to the point of service line entrance. **1 ANY INSTALLED IN BUILDING, FIELD SEE SECTION SECT 2.22 PG 4 OF 16, METER ROOM INSTALLATION**

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
82.	192.517(a)	Pressure Testing (operates at or above 100 psig) – useful life of pipeline Yes, in District office for distribution and HP/Transmission kept in Spokane.	x			
83.	192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months) Update are on first page of O&M for the current manual. Avista process has the employees who review and request change, as well as federal registers, drafts etc. Kept by compliance person.	x			
84.	192.605(b)(3)	Availability of construction records, maps, operating history to operating personnel <ul style="list-style-type: none"> • O&M in every truck. Observed on truck • Manger has O&M in office, Dispatch comes out of Spokane so NA in Colville • One Go book (is computer and it has all forms and all computer maps), Observed on truck. Contractor, Mike Reesa keeps set of 11x17 maps with him at all times and these are updated annually.. 	x			
85.	480-93-018(3)	Records, including maps and drawings updated within 6 months of completion of construction activity? Reviewed in Pullman	x			
86.	192.605(b)(8)	Periodic review of personnel work – effectiveness of normal O&M procedures Greens are trouble orders and reviewed by managers. Bill Baker randomly conducts crew inspection (hasn't done any 2009). Blues reviewed with leak self audit	x			
87.	192.609	Class Location Study (If pipeline operating at >40% of SMYS) NA, Avista highest is 27% SMYS	x			
88.	192.614	Damage Prevention (Miscellaneous) 1. Reviewed Avista WA State Excavator Notification for 2008, there are approx 66 for Colville, 5 for Addy, 0 for Arden, 25 for Chewelah, 13 for Valley, 12 for Kettle 2. A post card to all Farmers regarding lines thru farm fields. Ken locates and stakes as often as necessary 3. Reviewed packet of information sent to WA Excavator notification group- it includes a Call before you Dig reminder, the Contractor Safety Underground brochure, and a Contractors Safety Brochure. - HAVE Copies	x			
89.	192.615(b)(1)	Location Specific Emergency Plan Is Part of O&M, back half of manual Gas Emergency service and Handbook (GESH) : in trucks and Managers office and an Emergency Operating Plan (EOP) it contains local public officials etc	x			
90.	192.615(b)(2)	Emergency Procedure training, verify effectiveness of training Did Mock emergency drill in Colville in 2006. Specifically in Clayton all local emergency people were involved. Reviewed the 9-13-06 scenario, 9-13-06 Disaster Drill de brief, and roaster, and lessons learned, best practices and agencies involved. Last one done in state was 8-13-09 in Medical Lake	x			
91.	192.615(b)(3)	Employee Emergency activity review, determine if procedures were followed. See above for drills. The manager review of greens (trouble calls). This is an electronic review. Only one contract crew in Colville	x			
92.	192.615(c)	Liaison Program with Public Officials See EOP book Emergency Operating procedures with local public officials	x			

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C	
93.	192.616	Public Awareness Program – SAME AS PULLMAN’S					
94.	192.616(e&f)	Documentation properly and adequately reflects implementation of operator’s Public Awareness Program requirements - Stakeholder Audience identification, message type and content, delivery method and frequency, supplemental enhancements, program evaluations, etc. (i.e. contact or mailing rosters, postage receipts, return receipts, audience contact documentation, etc. for emergency responder, public officials, school superintendents, program evaluations, etc.). See table below:	x				
95.		Operators in existence on June 20, 2005, must have completed their written programs no later than June 20, 2006. See 192.616(a) and (j) for exceptions.					
96.		API RP 1162 Baseline* Recommended Message Deliveries					
97.		Stakeholder Audience (LDC’s)					
		Baseline Message Frequency (starting from effective date of Plan)					
		Residence Along Local Distribution System					Annual- Done as bill stuffer, news paper, radio spots.
		LDC Customers					Twice annually-same
		Emergency Officials					Annual-reviewed letter, emergency official letter and brochures
		Public Officials					3 years- reviewed letter last one sent in 2008
Excavator and Contractors	Annual – Reviewed list of contractors and brochures and buy advertising and have brochures with slide FAQs						
98.		* Refer to API RP 1162 for additional requirements, including general program recommendations, supplemental requirements, recordkeeping, program evaluation, etc.					
99.	192.616(g)	The program conducted in English and any other languages commonly understood by a significant number of the population in the operator's area. Use both English and Spanish	x				
100.	192.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617 1. On blues (leaks) the cause is identified. Reviewed 2. Reviewed 2 Gas Material Failure reports First no location on report just internal report regarding a valve installed in 1992. The valve stem turned 360 degrees, Failure review showed that person servicing valve did not know about valve stops. Second: failure was broken service tee cap at 1285 Peachcrest, threads on cap broke allowing gas to seep out. Failure Review noted this was identified as a recognized by industry. COPIES	x				
101.	192.619	Maximum Allowable Operating Pressure (MAOP) Procedure by Engr, MAOP established with every pressure test, most distribution is 60 MAOP	x				
102.	480-93-015(1)	Odorization of Gas – Concentrations adequate Reviewed Odorizer is located at Indian Trail in Spokane. It is a considered a Spokane record not Colville’s.	x				

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103.	480-93-015(2)	<p>Monthly Odorant Sniff Testing Note from Jan –Mar used Baracrak and only did one sniff test at end of line for whole system and Mar –Dec used DTEX Reviewed 2008 Sniff test form called Monthly Odorometer Reads and this form used for Jan thru March. Starting in March did duplicate read using the DTEX at this time Avista required that he do reads in every town. On the DTEX .40 or below is ok. In Kettle Falls at 415 S Larch, 4-21-08, TDL .1; 5-19-08 Threshold TDL .08, 6-24-2008, .03, 6-24-08 Note: was going to use 1151 Hwy on 395 the generating plant as a site but because of rotting fuel and tower to many other odors at this site so it was abandoned and abandoned noted on Annual Odorant Sampling Test Point Review. Good Method. Back to Reads – 415 Larch, Kettle, 2 reads .02 and .10 then on 8-25-08 and .04 and .03. 9-22-08, .24 and .04, 10-27-08 .05 and .09, 11-24-08 .04 and .03: In Dec starting taking reads at multiply location 415 Larch, Kettle. 12-22-08, .01 and .06, 154 395, Colville, 12-22-08.01: 3060 3rd Valley 12-22-08 .03, 2501 Sand Canyon Rd Chewelah 12-22-08 .02 location chosen at extremities of system. See O&M 4.18, directions to choose location is on Annual Odorant Sampling Test Point Review direction dated 12-10-08</p> <p>Reviewed 2009 annual Odorant Sampling Test Point Review and no changes of location made for year. 1-26-09 reads acceptable to much to type while they are waiting, 2-23-09, 3-23 and 3-24, 4-27-09, 5-28-09, 6-22-09, 7-28-2009, 8-24-09, and to date 9-21-09.</p>	x			
104.	480-93-015(3)	<p>Prompt action taken to investigate and remediate odorant concentrations not meeting the minimum requirements Yes, if required. None to review</p>	x			
105.	480-93-015(4)	<p>Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) Reviewed Bacharach model odor meter SN 6624 calibrated 10-18-07 due 10-18-08 and done 7-30-09 due 7-30-10. This is currently the back up for the DTEX</p>	x			

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106.	480-93-124	<p>Pipeline markers attached to bridges or other spans inspected? 1/yr(15 months) Markers- HP markers reviewed on marker map</p> <ol style="list-style-type: none"> 1. DR 162. Between there and 395 is RR crossing, no markers. Does it cross there? 10-23-09 reviewed map , ok 2. DR 504 to 395 skimpy in places but 10-23-09 reviewed map ok 3. Hallerwood Dev markers ok 4. DR 504 to sign 64 where pavement ends markers end. Then down dirt rd markers start and then stop at sign 63 – 10-23-09 reviewed map ok 5. On Skidmore from Haller no markers to DR. (markers ok other direction to Hallerwood Way) 10-23-09 reviewed map ok 6. Inadequate markers on Haller Creek from Orin Rice Rd to 500 Haller Creek – No markers on Haller Creek - distribution . NOTE: markers are shown on their marker map layer 7. Inadequate markers both directions from DR 544, there is sign 67 with casing vent (near Haller Creek from Orin) – On Orin Rice pe ok but feels skimpy 10-23-09 reviewed map ok 8. in kettle where does line cross RR, has to somewhere , on Juniper and 395 it is a casing. I didn't see it. AVISTA DOES NOT PATROL AT DISTRIBUTION RAILROAD CROSSINGS 9. Colville, First and RR tracks no markers near DR in bldg – 10-23-09 reviewed map ok But I didn't see, Avista thought they may be overgrown 10. No markers going either direction from DR 539, 1st marker after curve going toward Valley Westside Rd - 10-23-09 reviewed map ok markers are in field 11. How is Panorama Mobile Home Park feed. Could not follow makers. Markers stop just past Mantz Richie Rd 10-23-09 reviewed map ok 12. Greenwood Loop has main, last marker just before RR and bridge, where does it come from 10-23-09 reviewed map ok Then sign #74 at Reed and Green Wood Loop No marker at Deer Meadow Way and Greenwood loop, 10-23-09 reviewed map ok no distribution, transmission crossed there A test station no marker 10-23-09 reviewed map ok, Avista stated test station broken off close to ground. 	x			

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107.		<p>MARKERS CONT</p> <p>13. Start at DR 162, from 395 past DR 162 marker on left and down about ¼ mile is bridge with makers on right. Which side is gas on – Reviewed. there is no Crossing at this location, main goes cross country and can't keep markers on farming land. 10-14-09 Fielded this site, line goes cross country. Can't keep markers on farming land.</p> <p>14. No markers at intersection of Townsend Sackman and Arden Hill, 10-23-09 reviewed map ok ON GIS MAP BUT SKIMPY Gate 504-1 is just down Arden Hill</p> <ul style="list-style-type: none"> • Gas on Townsend Sackman • Then sign 64 on Arden • Sign 65 on Townsend Sackman • No marker from sign 64 to 1025 Townsend Sackman, then on test station by driveway • No markers from 1025 Townsend to 1064 Townsend Sackman or DR 506 <p>15. No marker on valve across street from DR at NW Alloy Plant in Addy During pre field found no marker above ground at DR. , informed signs had been order, 8-14-09 Colville office received signs</p> <p>16. No marker at the Valley Addy Grifford Rd. RR tracks. Appears gas in rd but no markers –10-23-2009 No gas there. goes cross country before curve before RR Fielded 10-14-09</p> <p>17. Barricaded valve down from Steinmetz Rd DR#502 No valve # on it, does it need one. This is reg station isolation valve. No gas carrying pipe 10-23-09 reviewed map ok, Also moody vents extended down at this location.</p> <p>18. Just pas DR#502 is gas on bridge 10-23-09 reviewed map ok NO gas there</p>	x			

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108.	<p>MARKERS CONT</p> <p>18. Just pas DR#502 is gas on bridge 10-23-09 reviewed map ok NO gas there</p> <p>19. Coming off 395 onto Duncan Rd gas a RR crossing?? No markers AND no markers on bridge there 10-23-09 reviewed map ok NO GAS</p> <p>20. On Duncan at DR#528, no markers during pre field, Avista had order singes and they arrived 8-14-09. Fielded this site 10-14-09</p> <p>21. From 395 on Blue Creek Rd is RR tracks with one marker on one side, does line cross RR 10-23-09 reviewed map ok</p> <p>22. Near DR 162, Arden and 395 does gas cross 395? Does gas go under RR tracks between 162 and 395. No markers there 10-23-09 reviewed map ok There is one casing with sign and marker. This casing goes from one side of 395 under 395 and RR.</p> <p>23. Hull Rd (Maybe Hall Rd) and 395 is there gas on Hall, if so no bridge crossing markers near 395 (only way gas can go it appears). 10-23-09 reviewed map ok end at bridge Main abandoned markers not 10-23-09 reviewed map ok OR does gas go S(to Spokane) from 395 and Hull? No markers there. 10-23-09 reviewed map ok NO GAS There are marker and test station down Hull – this could e feed from Old Arden Hwy OR at the bridge on Old Arde Hwy between Hull and Elm Tree. There are n Markers, there are meters - 10-23-09 reviewed map ok determined to be on HULL</p> <p>24. No Markers from DR 511 to 1570 Zimmer, at 1570 Zimmer is marker and test station and meterless riser on barn. 10-23-09 reviewed map ok Main not in road goes cross country</p> <p>25. DR across street from valve 3566 at NW alloy, no sign, sideway vent No sign no marker during pre field, markers had been ordered, they arrived 8-14-09 same day as fielded this is DR 509</p> <p>26. NW Alloy near DR only one maker to block valve and none toward Gifford Addy etc 10-23-09 reviewed map ok</p>	x			

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109.	480-93-124	<p>MARKERS CONT near NW alloy on Hutchinson where 8" crosses no markers 10-23-09 reviewed map ok No gas goes other direction</p> <p>28. DR 721 Deer Lake Station, casing both side Deer Lake rw ok. At same site in the back of DR 721 is valve inside a separate fence. This DR is Spokane not Colville</p> <p>29 Makers do not go to 395 on Roitz rd, they stop where pavement ends, from DR529 10-23-09 reviewed map ok Main stops before 395</p> <p>30. By sign 41 no markers on RW in either direction. Does Avista put markers on HP line other than rd etc because it flies and for that have large numbered sig ns 10-23-09 reviewed map ok Transmission just crosses Rd</p> <p>31 From sign 42 on Skok Rd no markers one way and only one marker the other 10-23-09 reviewed map ok ends before 395</p> <p>32 3345 Jackel Rd no markers from sign 10-23-09 reviewed map ok no intermediate in area</p> <p>33. DR #107 Valley Station no signs in RW, 2 sideway vents 10-23-09 reviewed map ok Main jogs so can't see from #107</p> <p>Markers ok 1. At Pendorille Loop and Old Arden Hwy and both directions from Pendorille loop 480-93-124(5) was AOC 4 in Pullman</p>	x			
110.	480-93-124(4)	<p>(7) Each gas pipeline company must have records such as maps or drawings sufficient to indicate class locations and other areas where pipeline markers are required. Reviewed marker maps – They were GISed in 2005 due to be done in 2010 again</p>	x			
111.	480-93-124(5)	<p>Markers reported missing or damaged replaced within 45 days? These are noted during HP Patrol and replaced quickly. Reviewed HP Gas Patrolling Report Follow up section 6-26-09 form noted broken sign post and it was replaced 6-27-09</p>	x			
112.	480-93-140(2)	<p>Service regulators and associated safety devices tested during initial turn-on Do about 30 in a year for district. Reviewed 3 for Colville. Reviewed Work Order 148215860 at 325 E 7th Colville and 197236273 at 641 S Alder, Colville and 197224730 located at 230 E Birch. This report includes exposed pipe, pressure test and manometer. Notes what meter removed and new one installed. Records meter number, pressure, flow rate and lockup.</p>	x			
113.	480-93-155(1)	<p>Up-rating of system MAOP to >60 psig? Procedures and specifications submitted 45 days prior? No up rating in Colville system in 2007, 2008 or 2009</p>	x			

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114.		<p>Reported gas leaks promptly investigated? Graded in accordance with 480-93-186? Records retained?</p> <p>10-12-09 Bill's Leak Survey inspection – Reviewed the only 2009 leak #129 at 978 Hwy 395 N on 6-26-09, have copy. Good. Heath identified a mapping GIS error that error was corrected prior to exit meeting. The form had cast iron pipe checked but it was a cast steel cap used for the repair. I have copy of corrected form.</p> <p>Reviewed 2, 2008 leaks #s 523 300 E Main Chewelah, on 5-19-09 no drawing but on the diagram of a meter set the meter set part was circled, leak on meter set and no indication of leak so they did a 30 day recheck to ensure it was ok and #788 at the intersection Columbia and Oak, no drawing but circled part of meter set . leak in valve box and did recheck either side of valve box</p> <p>Trouble orders, we reviewed electronically. These are called greens and there is hard copy in office to back up electronic records. NOTE: no total number for Colville, only state wide total is available. 190 between 08 and 09</p>	x			
115.	480-93-185(1)	<p>CONT</p> <p>8-24-08 205 5th Kettle, customer saw bubbling on meter while watering no odor</p> <p>10-29-08, Old Kettle Highway 25 S, blowing gas auger dug into line, call received from 911, On this one, the received time was before the dispatch time because of notification from several places. Arrived on site at 11:21 , Did bar holes at site and from break back to main, grade 1, used CGI Colville 08 and it is a Rover –at this time did not use for ppm - repaired and tested 10-29-09, replaced 2 ft of ¾ inch pe, name of contractor, operator name, and information . On map bar hole locations and readings noted, and pressure test noted.</p> <p>Trouble order #785233230, 1-12-09, at Carpet next to Wall mart in Colville, notified by Fire Dept and 395 shut down. On site 7:40, gas secured at 9:05 and waited couple hrs for backhoe to make repairs, grade 1, caused by ice chuck falling on meter, all on meter and even go back to the main with bar holes. Did one bar hole</p> <p>Hit idle service, WO # 638226277, at 150 W 7th Kettle, called by fire/ police, fire dept bend over and duck tapped and left site. Contractor installing sewer line, hit idle gas service. Notified 11:14 ON SITE 12:55, If they do not response within 60 minutes they write explanation of WO, grade 1 until Avista gets there to secure, used CGI 95. On map the bar hole on map . with repair symbols</p> <p>Colville does not defer any leaks.</p>	x			
116.	480-93-185(3)(a)	<p>Leaks originating from a foreign source. Take appropriate action to protect life and property regarding the pipeline company's own facilities, and;</p> <p>10-12-09 Bill's Leak Survey inspection found none – In the past Heath has found foreign leaks but not in 2008 or 2009</p> <p>None by Colville Dist in area for 2007 , 2008 or 2009</p>	x			
117.	480-93-185(3)(b)	<p>Leaks originating from a foreign source reported promptly/notification by mail. Records retained?</p> <p>10-12-09 Bill's Leak Survey inspection-NA</p> <p>None for Colville district for 2007, 2008 or 2009</p>	x			

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118.	480-93-186(1)	Leak evaluations: Location and/or magnitude of a leak, the gas pipeline company must assign one of the leak grades defined in WAC 480-93-18601 to establish the leak repair priority. 10-12-09 Bill's Leak Survey inspection-2008 AND 2009 leaks were graded properly See 3rd party damage review above	x			
119.	480-93-186(2)	Leak evaluations: Determine and document the perimeter of the leak area. Was investigation extended to inside the building if leak extended to building wall? Reviewed 10-12-09 Bill's Leak Survey inspection- ON Leak ticket 788 perimeter identified and there was a 30 day recheck Reviewed jobs and maps for all leaks in Question 116. Excellent system. Bar holes, reads, etc on job and on map.	x			
120.	480-93-186(3)	Leak evaluations: Are follow-up inspections performed within 30 days of a leak repair? <i>(3) The gas pipeline company must check the perimeter of the leak area with a combustible gas indicator. The gas pipeline company must perform a follow-up inspection on all leak repairs with residual gas remaining in the ground as soon as practical, but not later than thirty days following the repair.</i> Reviewed 10-12-09 Bill's Leak Survey inspection-Yes on 2009 # 523 and 2008 #788 See 480-93-185(1) above for Colville District with 30 day rechecks.	x			
121.	480-93-186(4)	Leak evaluations: Grade 1 and 2 leaks (if any), downgraded once to a grade 3 without physical repair? 10-12-09 Bill's Leak Survey inspection- NA Colville does not defer leaks therefore Colville hasn't downgraded any leaks	x			
122.	480-93-187	Gas leak records: at a minimum include required information listed under 480-93-187(1-13) Avista did not have 480-93-187 (13) Unique identification numbers (such as serial numbers) of leak detection equipment. On Leak ticket 523, it states a FI unit was used actually a Rover was used and there was no serial number. I reviewed the calibration record for the Rover and it was calibrated on 6-23-09 and 7-27-09, the Rover was in calibration when it was used. Currently Rover is not an option to use on the form, so he marked FI unit. This form is suppose to note types of equipment not specific pieces of equipment, so until Kris got answer from engineering (on 10-15-09) it appeared the Rover was not supposed to be used. Avista is hoping to get this form electronic by next year-	x			
123.	480-93-188(1)	Gas leak surveys From forms it appears Avista leak surveys above all WAC requirements.	x			

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124.	480-93-188(2)	Gas detection instruments tested for accuracy/intervals (Mfct recommended or monthly not to exceed 45 days) Bill's Leak Survey – Every am Heath start a form called Consultants weekly resume for Avista Utilities. Do every day per Avista contract. The FI is used is noted on every Leak Survey map. The CGI is noted on the Leak Survey Location Report when a leak is found and the calibration information is included on the Consultants weekly resume for Avista utilities. This is a Heath form. Reviewed Certificate of Calibration for Gas Analyzer, DTEX, SN 39875 model DX-1000G on 11-29-07 Due 12-28-09. Reviewed Bacharach model odor meter SN 6624 calibrated 10-18-07 due 10-18-08 and done 7-30-09 due 7-30-10. This is currently the back up for the DTEX	x			
125.	480-93-188(3)	Leak survey frequency (Refer to Table Below)				
High Occupancy Structures Leak Survey Since this code went into effect In Colville a new Kidney dialysis business went into an existing building on Garden Homes Drive. It did not have curb valve, but because of seriousness of business, a curb valve was installed. This goes above and beyond the WAC. 2. While working on Kidney Dialysis building they noticed a large medical ctr nearby and added a service valve to that preexisting service 3. Assisted Living Center on Hudesman Lane also had curb valve installed						
126.	480-93-188(4)(a)	Special leak surveys - Prior to paving or resurfacing, following street alterations or repairs Special leak Survey 1. The Resurfacing and grade improvements on 395. The vibration and rollers are heavy when on dirt above main. - - No resurfacing above main in 395. No special leak surveys required	x			
127.	480-93-188(4)(b)	Special leak surveys - areas where substructure construction occurs adjacent to underground gas facilities, and damage could have occurred none	x			
128.	480-93-188(4)(c)	Special leak surveys - Unstable soil areas where active gas lines could be affected none	x			
129.	480-93-188(4)(d)	Special leak surveys - areas and at times of unusual activity, such as earthquake, floods, and explosions none	x			
130.	480-93-188(4)(e)	Special leak surveys - After third-party excavation damage to services, operators must perform a gas leak survey from the point of damage to the service tie-in Reviewed Leak Location Report #788 for road improvement at Columbia and Oak	x			
131.	480-93-188(5)	Gas Survey Records Bill's Leak Survey - Reviewed the 5 items in 188 (5) All on map. The instrument is cross referenced to the Consultant weekly resume for Avista utilities. This report is filled out daily per contract not weekly as form title implies No leak survey for 3 rd party damage because they do bar holes	x			

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132.	480-93-188(6)	Leak program - Self Audits Reviewed Internal Self Audit of Leak Records for 2008. They fill Out periodically - Self audit does not require them to look for patterns and week spots in the system. I did not review continuing surveillance. Will next time	x															
133.	192.709	Patrolling (Transmission Lines) (Refer to Table Below) .705 Reviewed HP Flying Patrol.	x															
<table border="1"> <thead> <tr> <th>Class Location</th> <th>At Highway and Railroad Crossings</th> <th>At All Other Places</th> </tr> </thead> <tbody> <tr> <td align="center">1 and 2</td> <td align="center">2/yr (7½ months)</td> <td align="center">1/yr (15 months)</td> </tr> <tr> <td align="center">3</td> <td align="center">4/yr (4½ months)</td> <td align="center">2/yr (7½ months)</td> </tr> <tr> <td align="center">4</td> <td align="center">4/yr (4½ months)</td> <td 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)				
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134.	192.709	Leak Surveys (Transmission Lines) (Refer to Table Below) .706 Reviewed the Leak Survey maps, its walked. Flying is for patrol – overbuilds, landslides etc																
<table border="1"> <thead> <tr> <th>Class Location</th> <th>Required</th> <th>Not Exceed</th> </tr> </thead> <tbody> <tr> <td align="center">1 and 2</td> <td align="center">1/yr</td> <td align="center">15 months</td> </tr> <tr> <td align="center">3</td> <td align="center">2/yr</td> <td align="center">7½ months</td> </tr> <tr> <td align="center">4</td> <td align="center">4/yr</td> <td align="center">4½ months</td> </tr> </tbody> </table>			Class Location	Required	Not Exceed	1 and 2	1/yr	15 months	3	2/yr	7½ months	4	4/yr	4½ months				
Class Location	Required	Not Exceed																
1 and 2	1/yr	15 months																
3	2/yr	7½ months																
4	4/yr	4½ months																
		<p>For transmission Patrols – Use For Gas Patrolling Report Colville transmission numbers start with sign #36 However when flown the plane lands at Chewelah which is approx sign 50, someone else does the inspection from 36 to 50 and notifies Ken if there is an issued. If there are no issues the patrol is noted on Spokane’s Gas Patrol form. Ken fly’s from Chewelah north. Reviewed 2008 Gas Patrol form from mile marker 40 to mile marker 83. It says no markers missing - It says stickers are missing – HAVE COPY.</p> <p>For 2009 flying patrol – Spokane sent Gas Patrol report from marker 43 to 50 because of work that needed to be done.</p> <p>Flown once a year and driven once a year.</p> <p>Reviewed driving patrol. HAVE copies of flying and patrols</p>	x															
135.	192.603(b)	Patrolling Business District (4 per yr/4½ months) Avista does not patrol at distribution Railroad crossings only bridges. 192.721 requires (a) The frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage, and the consequent hazards to public safety (b) Mains in places or on structures where anticipated physical movement or external loading could cause failure or leakage must be patrolled – Does not say must distribution patrols of railroads are required, even though vibration, loading could be problem. Examples in kettle line cross RR, on Juniper and 395 it is a casing O&M 5.15 PAGE 3	x															

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
136.	192.603(b)	Patrolling Outside Business District (2 per yr/7½ months) 192.721(b)(2) (b) <i>Mains in places or on structures where anticipated physical movement or external loading could cause failure or leakage must be patrolled -</i> Reviewed Quarterly Inspection Checklist for Bridge crossings and other piping for 2007 (all 4 quarters), 2008 (all 4 quarters) and 2009 3 quarters. Avista has one bridge crossing called Arden Bridge Crossing. Avista does not do quarterly patrols at RR crossing even though vibration, loading could affect the line.	x			
137.	192.603(b)	Leakage Survey - Outside Business District (5 years) 192.723(b)(1) Last one done was in 2005, this was inspected in 2007. So not reviewed in this inspection	x			
138.	192.603(b)	Tests for Reinstating Service Lines 192.725 For 3rd party reinstating reviewed above. Whenever a service line is de energized it is reinstated as if it is a new service line. EFV is example	x			
139.	192.603(b)/.727(g)	Abandoned Pipelines; Underwater Facility Reports 192.727 NA to Colville			x	
140.	192.709 Same Moody issue	Pressure Limiting and Regulating Stations (1 per yr/15 months) .739 No fracture in Colville, all stations have reliefs (some are token reliefs-just make noise) Reviewed for 2008 and 2009 , In Colville district has 39. Colville District has 10 farm taps and 3 HP services. DR 100, 102, 103, 104, 107, Note they have token reliefs. With monitor systems when the worker monitor fails and the 2nd reg starts the token relief makes noise and someone reports it. Good thing Reviewed atmos corrosion inspection with atmos corrosion portion of inspection	x			
141.	192.709	NOTE: Individual single service Farms taps and HP services that are cut at the meter are being mapped now. There are 3 farm tap on riser in Colville. Pressure Limiting and Regulator Stations – Capacity (1 per yr/15 months) .743 192.743a) NOTE: Pressure calculations remain the same unless farm tap is physically redesigned OK . Every year Engr in Spokane reviews the sheets to ensure no changes have been made. Reviewed Spokane Capacity Study Book for Colville For Any rebuild or major construction at district reg station or farm tap an inlet and out let valve installed	x			

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
142.	192.709	<p>Valve Maintenance – Transmission (1 per yr/15 months) .745 Transmission Valves are identified as Emergency Valves and are on same schedule. Cannot separate the 2.</p> <p>There are approx 116 valves,</p> <p>AFM Compliance List Manager, Has all inspection information as well as map with valve on it. These are done on the tough book computers in the field. Hard copy slowly going away. In the form if dates are about to be missed there is a flagging system (color coded) So district will be notified if they are going late. There is always a back up spread sheet with the same information. It is a double check. If valve can't be turned and valve inspection marked as failed, a wo will be generated and sent to dispatcher application as an order and dispatched to go book (serviceman)</p> <p>Reviewed VA (emergency main line) Valve 3547 done by Mike Reesa on 7-17-2008 and 6-17-09</p> <p>Reviewed VE emergency zone, isolates zone VE 3545, inspected 6-16-08, by Mike Ressa, turned, is pe valve (know because label on map) The map will go back to valve properties will all valve information, mauf, installation date and purpose. Excellent maps. Valve properties also states EOP zones the valve is used for.</p> <p>VM is HOS curb valve , VM4166, he turned valve, painted lid and took center line verified. Done 6-20-08 and 6-22-09 by Mike Ressa</p> <p>O&M 2.14 identified VE, VI, VX, VA, VM, VP, VY, VC and VS valves and inspection of each.</p>	x			
143.	192.709	<p>Valve Maintenance – Distribution (1 per yr/15 months) .747 O&M 2.14 pg 5 specifies all valve main. Distribution valves are included above with transmission.</p> <p>Avista tries to inspect all valves that are not EOP or transmission annually.</p>	x			
144.	480-93-100(3)	<p>Service valve maintenance (1 per yr/15 months) SEE VM above. Did VM 4166</p>	x			
145.	192.709	<p>Vault maintenance (>200 cubic feet)(1 per yr/15 months) .749 No Vaults in Colville</p>	x			
146.	192. 603(b)	<p>Welding – Procedure 192.225(b)</p>	x			
147.	192. 603(b)	<p>Welding – Welder Qualification 192.227/.229 Ressa crew member, Bart Nelson is only welder in Colville. Reviewed Weld Coupon Test Report test on 4-7-08 and expires 4-11-08, and tested on 10-14-08 and 10-11-08 and 4-8-09 and expires 4-11-09 and will do test while Rich is in Colville today.</p>	x			
148.	192. 603(b)	<p>NDT – NDT Personnel Qualification .243(b)(2) No NDT OQ even thought Avista has transmission, Section 3.12 if work were required on transmission Avista would get qualified contractor to do. Avista Spokane has NDT contractors on 12 line but that does not effect Colville</p>	x			
149.	192.709	<p>NDT Records (pipeline life) .243(f) NONE for Colville</p>	x			

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
150.	192.709	Repair: pipe (pipeline life); Other than pipe (5 years) NONE for Colville	x			

Comments:

192.741 ok, In Colville all telemetry except in the winter charts used to monitor gas system pressures.

CORROSION CONTROL RECORDS			S	U	N/A	N/C
151.	192.453	CP procedures (design, installation, operation, and maintenance) carried out by qualified personnel Bob Larson, CP Technician. NACE certified. See Pullman inspection doc. Gary Nelson is his supervisor and Jan Shea works Spokane and both are NACE certified. Bob Larson does all of WA except Spokane.	x			
152.	192.455(a)(1)	Pipeline coatings meet requirements of 192.461 (<i>for buried pipelines installed after 7/31/71</i>) Wax Tape coating called Trenton and is fairly new. This tapes wraps and unwraps easily and is designed for both above and below ground fittings. Cold applied tape (not official name) used on underground joints all the time because it does not require premier. Avista has a gray tape called Tapecoat Priemerless when the temperature gets below 32 degrees a premier must be applied first, this is used for both above and below ground. Note: in the past used on all above ground now wax tape used below ground. As the OQ test, I observed this being applied.	x			
153.	192.455(a)(2)	CP system installed on and operating within 1 yr of completion of pipeline construction (<i>after 7/31/71</i>) CP applied immediately after any construction is true company wide.	x			

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CORROSION CONTROL RECORDS		S	U	N/A	N/C	
		<p>Annual Pipe-to-soil Monitoring (1 per yr/15 months) for short sections (10% per year; all in 10 years) Test stations for 06, 07 and 08</p> <p>1. Kettle Falls line and Chewelah used to be included not removed. NOTE many test stations on HP, but read only a few (never all) for test reads. They have many test stations and they are used to isolate problems when identified or suspected</p> <p>2. All cities/towns use the same meter set annually as a test station.</p> <ul style="list-style-type: none"> • Colville has 15 service • Kettle Falls has 10 services • Arden no steel therefore no test stations • Addy no steel therefore no test stations • Valley no steel therefore no test stations • Chewelah has 8 test sites • Kettle Falls HP has 53 test stations <p>Test stations at all casings</p> <ul style="list-style-type: none"> • Kettle Falls HP line has 37 casing • Chewelah has one casing • Colville has 2 casings • Kettle Falls has 2 casings • Valley no steel therefore no test stations • Arden no steel therefore no test stations • Addy no steel therefore no test stations 		x		

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
		<p>10% year isolated services This task is going to CP department, before each district did the inspection. In 2003 the district made a list of isolated service and CP person did the reads on 10 percent. In 2008 and 2009 the isolated services that were supposed to be read were literally replaced and therefore removed from the list. Also, In 2009 10 percent of the isolated services were replaced but in addition Avista took reads on an addition 10 percent. Reads taken in 2009 in Addy have 3 took one read, In Chewelah had 41 took 5 reads, one was low filled out WO and district fixed in 90 days. Reviewed. In Colville had 59 isolated service left and cp tech read 7. All reads ok, In Kettle Falls has 25 cp tech read 4, all ok. In valley there are 3 and took one read. Since inspection one of the 3 in Valley has been replaced therefore Valley has 2 isolated risers.</p> <p>Annual isolated mains (100 ft) - There are no isolated mains greater 100 ft. The ones less that 100 feet are in services and counted above</p> <p>Rectifiers 1. HP line has 2 rectifiers – Reviewed 2007 and 2008 Rectifier Reads/pipe to soil Forms. They include reads from 2 sites away from rectifier to ensure it operating correctly. They also include a 100 mv shift at the rectifier. These reads are above the anode bed.</p> <ul style="list-style-type: none"> • HP sites are Chewelah and Addy reviewed • In Colville has one reviewed • Kettle Falls has one reviewed, on this order they has low read. investigation showed that home owner shorted system. Wo 1279 was written and this was corrected on 10-3-08 <p>2. Colville has one rectifier 3. Kettle falls has one rectifier 4. Chewelah has one rectifier This is a total of 5 rectifiers</p>	x			
154.	192.465(a)	<p>Annual Pipe-to-soil Monitoring (1 per yr/15 months) for short sections (10% per year; all in 10 years) SEE ABOVE</p>	x			
155.	192.491	<p>Maps or Records .491(a) A combination of maps and records are used the GIS maps show rectifiers and on maps # 1 is rectifier (usually rectifier is #1, numbers can change depending on location) , and all sites are numbered and cross referenced to forms and on map shows the site address</p>	x			
156.	192.491	<p>Examination of Buried Pipe when exposed .459 Reviewed Exposed Steel Piping CP Field Report and Cathodic Protection Work Orders for 2007 and 2008 that show exposed pipe. For 2008 there are 29, 2 were low reads and the CP WO showing remediation was attached. Done within 90 days. The Exposed pipe report does not identify why the pipe was exposed. These can be cross referenced to the job by using the date..</p> <p>For 2009, 18 to date. In 2009 the form was revise to include additional information and make it easier for personnel to fill out</p>	x			
157.	480-93-110(8)	<p>CP test reading on all exposed facilities where coating has been removed Yes see above reviewed</p>	x			
158.	192.491	<p>Annual Pipe-to-soil monitoring (1 per yr/15 months) .465(a) See Above</p>	x			

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
159.	192.491	Rectifier Monitoring (6 per yr/2½ months) .465(b) Reviewed above – To ensure accuracy of inspection. The cp tech goes to 2 points almost at the end of the system to verify cp read. This is a good practice. This was also addressed in cp question above	x			
160.	192.491	Interference Bond Monitoring – Critical (6 per yr/2½ months) .465(c) Colville district does not have any	x			
161.	192.491	Interference Bond Monitoring – Non-critical (1 per yr/15 months) .465(c) Colville district does not have any	x			
162.	480-93-110(2)	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) .465(d) Reviewed home owner short on isolated SEE ABOVE For 2008 Reviewed Cathodic Protection Work Order. The cp techs copy of the exposed pipe low read reports. When a low read is found the person who finds it calls and IVR phone number and informs the cp tech. This greatly decreases repair times and keeps remediation within 90 day. This is excellent cross reference system so cp is always aware of field conditions.	x			
163.	480-93-110(3)	CP equipment/ instrumentation maintained, tested for accuracy, calibrated, and operated in accordance with manufactures recommendations, or at appropriate schedule determined by gas company if no recommendation. <ul style="list-style-type: none"> Reviewed 2007 and 2008 calibration record for the volt meter and half cell. This list includes all voltmeter and half cells but only reviewed Bob Larson, cp tech and Colville's service men Sam Sampson and Mike Ressa for both years. 	x			
164.	192.491	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) .465(e) Avista does not have unprotected in WA.	x			
165.	192.491	Electrical Isolation (Including Casings) .467 SEE above list of casings – A short is 100mv or less , NACE requirements are 10. Avista exceeds this requirement. NO shorts on casings in system a. Dist Reg 104 - Reviewed casing information reads -1.521 and -.401 in 2008, 2 nd casing there is ok b. DR 162 – casing has pe pipe so no read required. Casing pipe is still bare steel c. by sign 65 – called Arden Hill -1.505 and -3.85 d. at DR 501, by sign #66 – Hallow Rd -1.573 and -.235 e. DR 544, by sign 67 called Orin Rice, -1.548 and -.558 f. Spanish Prairie Rd and 395, casing and test station casing has 6" pe pipe so no read required. Casing pipe is bare steel g. by sign 60 -1.624 and -.173 h. DR 530 1699 Blue Creek and Duncan, could not find. Saw casing DOES line go under barn -1.674 and -.472, Does not go under barn For Station 107, Station 509, Station 567, Station 528. and Station 569 the new signs came in on 8/14	x			
166.	480-93-110(5)	Casings inspected/tested annually not to exceed fifteen months See question above for reads. Reviewed annual casing reads, this forms all isolated etc SEE Above	x			

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
167.	480-93-110(5)(a)	Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods All casing in Colville District have test leads.	x			
168.	480-93-110(5)(b)	Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days None in 2008 or 2009 none in Colville District. if one was found procedure would be to write WO, test it, dig up both ends if possible and check out. If problem not found, turn it over to leak survey and it would be surveyed twice a year	x			
169.	480-93-110(5)(c)	Casing shorts cleared when practical None in Colville District	x			
170.	480-93-110(5)(d)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months That is Avista procedure but have none in Colville district	x			
171.	192.491	Interference Currents .473 None in Colville District	x			
172.	192.491	Internal Corrosion; Corrosive Gas Investigation .475(a) None in Colville District, The exposed pipe form includes an area for internal corrosion inspection.	x			
173.	192.491	Internal Corrosion; Internal Surface Inspection; Pipe Replacement .475(b) None in Colville District, The exposed pipe form includes an area for internal corrosion inspection	x			
174.	192.491	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months) .477 None in Colville District, The exposed pipe form includes an area for internal corrosion inspection	x			
175.	192.491	Atmospheric Corrosion Control Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore) .481 <i>(b) During inspections the operator must give particular attention to pipe at soil-to-air interfaces, under thermal insulation, under disbonded coatings, at pipe supports, in splash zones, at deck penetrations, and in spans over water. (c) If atmospheric corrosion is found during an inspection, the operator must provide protection against the corrosion as required by Sec. 192.479.</i> AOC 2. During atmospheric corrosion inspections, Avista must conduct a thorough investigation to determine there is no corrosion. For example, a thorough investigation would require, where necessary, an examination of the pipe under surface oxidation, under disbonded coating and above and below the ground at soil to air interfaces where there is disbonded, loose, cracked or missing wrap and/ or bare pipe. For the atmospheric corrosion inspection the meter less risers will be on separate list from atmos list but may be done together. Meter less risers were done separately this time on go book laptops, next time might be incorporated together. In Colville all done In the future Meterless risers and reg atmos will be together		x		
176.	192.491	Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions .483/.485	x			

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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
177.	192.161	Supports and anchors Wood support at church of Latter Day Saints mtr 53644, cust piping exposed between A/C units, vent pointed into fresh air intake- During pre field it was noted that the metal frame was holding a wooden block to support the meter (meter would have fallen thru if not for the wood block). Angle iron slats were added to support the meter. Wood left to prevent cp problems	x			
178.	480-93-080(1)(d)	Welding procedures located on site where welding is performed? Trucks (serviceman and contractor) have O&M's in truck. Serviceman also has computer O&M with forms.	x			
179.	480-93-080(1)(b)	Use of testing equipment to record and document essential variables	x			
180.	480-93-080(2)(a)	Plastic procedures located on site where fusing is performed?	x			
181.	480-93-080(3)	Identification and qualification cards/certificates w/name of welder/joiner, their qualifications, date of qualification and operator whose qualification procedures were followed.	x			
182.	480-93-013	Personnel performing "New Construction" covered tasks OQ qualified?	x			
183.	480-93-015(1)	Odorization	x			
184.	480-93-018(5)	Updated records, inc maps and drawings made available to appropriate operations personnel? Yes, O&M on trucks and office. Maps sent with jobs. Avista has computer maps in truck. Contractor has hard copy maps in their truck	x			
185.	192.179	Valve Protection from Tampering or Damage	x			
186.	192.455	Pipeline coatings meet requirements of 192.461 <i>(for buried pipelines installed after 7/31/71)</i>	x			
187.	192.463	Levels of cathodic protection All pre field reads good and all reads taken for services and casings good during field portion of inspection	x			
188.	192.465	Rectifiers	x			
189.	192.467	CP - Electrical Isolation	x			
190.	192.479	Pipeline Components exposed to the atmosphere Avista does have some issues with documenting atmospheric corrosion that will not affect the safety of the facility before the next inspection. This is AOC	x			
191.	192.481	Atmospheric Corrosion: monitoring	x			
192.	192.491	Test Stations – Sufficient Number .469 More than adequate. They have more than necessary in this rural area to help find shorts when needed.	x			
193.	480-93-115(2)	Casings – Test Leads (casings w/o vents installed after 9/05/1992)	x			
194.	480-93-115(2)	Mains or transmission lines installed in casings/conduit. Are casing ends sealed?	x			
195.	480-93-115(4)	Service lines installed in casings/conduit. Are casing ends nearest to building walls sealed?	x			
196.	192.605(a)	Appropriate parts of manuals kept at locations where O&M activities are conducted	x			
197.	192.605	Knowledge of Operating Personnel	x			
198.	480-93-124	Pipeline markers installed During pre field listed many areas with markers. All except one was ok and this was due to a mapping error that was corrected before the inspection was completed.	x			

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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
199.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days? Markers replaced when missing	x			
200.	192.707	Warning Signs Signs were missing during pre field. During the inspection I was told they had been ordered. They came into the shop the last day of the inspection, I saw them.	x			
201.	192.719	Pre-pressure Tested Pipe (Markings and Inventory)	x			
202.	192.195	Overpressure protection designed and installed where required?	x			
203.	192.739	Pressure Limiting and Regulating Devices (Mechanical)	x			
204.	192.743	Pressure Limiting and Regulating Devices (Capacities)	x			
205.	192.355	Customer meters and regulators. Protection from damage	x			
206.	192.355(c)	Pits and vaults: Able to support vehicular traffic where anticipated. No vaults in Colville	x			
207.	480-93-140	Service regulators installed, operated and maintained per state/fed regs and manufacturers recommended practices?	x			
208.	480-93-178(2)	Plastic Pipe Storage facilities – Maximum Exposure to Ultraviolet Light (2yrs)	x			
209.	480-93-178(4)	Minimum Clearances from other utilities. For parallel lines a minimum of twelve inches. Where a minimum twelve inches of separation is not possible, must take adequate precautions, such as inserting the plastic pipeline in conduit, to minimize any potential hazards.	x			
210.	480-93-178(5)	Minimum Clearances from other utilities. For perpendicular lines a minimum of six inches of separation from the other utilities. Where a minimum six inches of separation is not possible, must take adequate precautions, such as inserting the plastic pipeline in conduit, to minimize any potential hazards	x			
211.	480-93-178(6)	Are there Temporary above ground PE pipe installations currently? none	x			
212.	480-93-178(6)(a)	If yes, is facility monitored and protected from potential damage? NA because none			x	
213.	480-93-178(6)(b)	If installation exceeded 30 days, was commission staff notified prior to exceeding the deadline?	x			
214.	192.745	Valve Maintenance (Transmission) Excellent valve documentation system	x			
215.	192.747	Valve Maintenance (Distribution)	x			

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Pipeline Safety Advisory Bulletins:

OPS, PHMSA ADB-08-02 dated 3/04/2008 Notice to Owners and Operators of Gas Pipelines to Consider the Potential Failure Modes for Mechanical Couplings Used for Joining and Pressure Sealing Pipe Joints

Due to variables related to age of couplings, specific procedures and installation practices, and conditions specific to certain regions of the country, it is difficult to cite common criteria affecting all failures that operators should address. To ensure compliance with 49 CFR Part 192, PHMSA advises operators of gas distribution pipelines using mechanical couplings to take the 7 measures outlined in this notice.

OPS, PHMSA DB-06-03 dated 11/17/2006 Notice to Operators of Natural Gas and Hazardous Liquid Pipelines to Accurately Locate and Mark Underground Pipelines Before Excavation Activities Commence Near the Pipelines

Excavation damage continues to be one of the three leading causes of pipeline damage. PHMSA continues to find pipeline operators damaging regulated pipelines, production and gathering pipelines, and other utilities adjacent to where construction and maintenance is being performed. This damage jeopardizes the safety of excavators, pipeline employees, construction personnel, and others in the vicinity of the excavation. To guard the integrity of buried pipelines and prevent injury, death, and property and environmental damage, PHMSA advises pipeline operators to take the 15 damage prevention measures outlined in this notice.

OPS, PHMSA ADB-06-01 dated 1/17/06 Integrate Operator Qualification Regulations into Excavation Activities

Although excavation is not explicitly addressed in 49 CFR parts 192 and 195, excavation is considered a covered task under the pipeline operator qualifications regulations. These regulations require that pipeline operators and contractors be qualified to perform pipeline excavation activities. This advisory reminds operators to ensure all procedures and processes to perform excavation and backfilling are followed. Only qualified personnel must oversee all marking, trenching, and backfilling operations.

Attachment 1

Distribution Operator Compressor Station Inspection

Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked
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216.	.605(b)	COMPRESSOR STATION PROCEDURES	S	U	N/A	N/C
217.		.605(b)(6) Maintenance procedures, including provisions for isolating units or sections of pipe and for purging before returning to service			X	
218.		.605(b)(7) Starting, operating, and shutdown procedures for gas compressor units			X	
219.		.731 Inspection and testing procedures for remote control shutdowns and pressure relieving devices (1 per yr/15 months), prompt repair or replacement			X	
220.		.735 (a) Storage of excess flammable or combustible materials at a safe distance from the compressor buildings			X	
221.		(b) Tank must be protected according to NFPA #30			X	
222.		.736 Compressor buildings in a compressor station must have fixed gas detection and alarm systems(must be performance tested), unless:			X	
223.		• 50% of the upright side areas are permanently open, or			X	
224.		• It is an unattended field compressor station of 1000 hp or less			X	

225.	.709	.731(a) Compressor Station Relief Devices (1 per yr/15 months)			X	
226.		.731(c) Compressor Station Emergency Shutdown (1 per yr/15 months)			X	
227.		.736(c) Compressor Stations – Detection and Alarms (Performance Test)			X	

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

Attachment 1

Distribution Operator Compressor Station Inspection

Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked
If an item is marked U, N/A, or N/C, an explanation must be included in this report.

Comments:

COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
(Note: Facilities may be "Grandfathered")						
228.	.163	(c) Main operating floor must have (at least) two (2) separate and unobstructed exits			X	
229.		Door latch must open from inside without a key			X	
230.		Doors must swing outward			X	
231.		(d) Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit			X	
232.		Each gate located within 200 ft of any compressor plant building must open outward			X	
233.		When occupied, the door must be opened from the inside without a key			X	
234.		(e) Does the equipment and wiring within compressor stations conform to the National Electric Code, ANSI/NFPA 70?			X	
235.	.165	(a) If applicable, are there liquid separator(s) on the intake to the compressors?			X	
236.		(b) Do the liquid separators have a manual means of removing liquids?			X	
237.		If slugs of liquid could be carried into the compressors, are there automatic dumps on the separators, Automatic compressor shutdown devices, or high liquid level alarms?			X	
238.	.167	(a) ESD system must:				
239.		- Discharge blowdown gas to a safe location			X	
240.		- Block and blow down the gas in the station			X	
241.		- Shut down gas compressing equipment, gas fires, electrical facilities in compressor building and near gas headers			X	
242.		- Maintain necessary electrical circuits for emergency lighting and circuits needed to protect equipment from damage			X	
243.		ESD system must be operable from at least two locations, each of which is:				
244.		- Outside the gas area of the station			X	
245.		- Not more than 500 feet from the limits of the station			X	
246.		- ESD switches near emergency exits?			X	
247.		(b) For stations supplying gas directly to distribution systems, is the ESD system configured so that the LDC will not be shut down if the ESD is activated?			X	
248.		(c) Are ESDs on platforms designed to actuate automatically by...				
249.		- For unattended compressor stations, when:				
250.		▪ The gas pressure equals MAOP plus 15%?			X	
251.		▪ An uncontrolled fire occurs on the platform?			X	
252.		- For compressor station in a building, when				
253.		▪ An uncontrolled fire occurs in the building?			X	
254.	▪ Gas in air reaches 50% or more of LEL in a building with a source of ignition (facility conforming to NEC Class 1, Group D is not a source of ignition)?			X		

Attachment 1

Distribution Operator Compressor Station Inspection

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 If an item is marked U, N/A, or N/C, an explanation must be included in this report.

COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
(Note: Facilities may be “Grandfathered”)						
255.	.171	(a) Does the compressor station have adequate fire protection facilities? If fire pumps are used, they must not be affected by the ESD system.			X	
256.		(b) Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?			X	
257.		(c) Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?			X	
258.		(d) Are the gas compressor units equipped to automatically stop fuel flow and vent the engine if the engine is stopped for any reason?			X	
259.		(e) Are the mufflers equipped with vents to vent any trapped gas?			X	
260.	.173	Is each compressor station building adequately ventilated?			X	
261.	.457	Is all buried piping cathodically protected?			X	
262.	.481	Atmospheric corrosion of aboveground facilities			X	
263.	.603	Does the operator have procedures for the start-up and shut-down of the station and/or compressor units?			X	
264.		Are facility maps current/up-to-date?			X	
265.	.615	Emergency Plan for the station on site?			X	
266.	.619	Review pressure recording charts and/or SCADA			X	
267.	.707	Markers			X	
268.	.731	Overpressure protection – relief’s or shutdowns			X	
269.	.735	Are combustible materials in quantities exceeding normal daily usage, stored a safe distance from the compressor building?			X	
270.		Is aboveground oil or gasoline storage tanks protected in accordance with NFPA standard No. 30?			X	
271.	.736	Gas detection – location			X	

Comments:
 No Compressor Station in District