

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

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

Inspection Report			
Inspection ID/Docket Number	6747		
Inspector Name & Submit Date	Dave Cullom and Derek Norwood 8/11/16		
Chief Eng Name & Review/Date	Joe Subsits, 8/11/16		
Operator Information			
Name of Operator:	Puget Sound Energy	OP ID #:	22189
Name of Unit(s):	Puget Sound Energy - King Co. East		
Records Location:	Bellevue, Georgetown (Seattle)		
Date(s) of Last (unit) Inspection:	September 30-Oct 3, 2014 October 6- 9, 2014 October 14-15, 2014	Inspection Date(s):	June 13-16 (records) July 25-28 (field) August 1, 2016 (records)

Inspection Summary:

This standard inspection consisted of a records review and field verification of PSE’s facilities for the East King County unit. Leak survey records, CP records, valve inspections, bridge and slide patrols, odorant checks, equipment calibrations, pressure control records, and additional compliance records for drug and alcohol were reviewed. The UTC also performed spot field checks for one week in the field for operator qualification verification and to verify records through field data collection.

PSE’s service provider, Surveys and Analysis (SNA), performed leak surveys from Feb 2013 – March 2014. PSE was able to obtain map change records back to April 2014. The map change records before April were not recoverable by PSE from the service provider. PSE’s new service provider HydroMax started to leak survey in Feb 2016 thru 2017 and is conducting a complete resurvey of all service areas during this time period.

The following areas of concern of Title 49 CFR Part 192 and WAC 480-93 were noted as a result of the 2016 inspection of the Puget Sound Energy – East King County unit. The inspection included a random selection of records, operation and maintenance (O&M), emergency response, inventory, and field inspection of the pipeline facilities.

1. 49 CFR §192.747 Valve maintenance: Distribution systems.

(a) Each valve, the use of which may be necessary for the safe operation of a distribution system, must be checked and serviced at intervals not exceeding 15 months, but at least once each calendar year.

(b) Each operator must take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve.

Finding(s):

During the field portion of the inspection, an emergency section valve, VA-04267, was found inoperable by one person. It is unknown if the valve can be operated by two people or if the valve is completely inoperable. Please provide documentation of any remedial action taken to ensure this valve operates as intended during an emergency. If two gas first response personnel are needed to operate a valve, please provide documentation that demonstrates that two personnel will be dispatched, in the event of an emergency, to each location that requires two individuals to safely complete the task.

1. WAC 480-93-110 Corrosion control

(2) Each gas pipeline company must complete remedial action within ninety days to correct any cathodic protection deficiencies known and indicated by any test, survey, or inspection. An additional thirty days may be allowed for remedial action if due to circumstances

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beyond the gas pipeline company's control the company cannot complete remedial action within ninety days. Each gas pipeline company must be able to provide documentation to the commission indicating that remedial action was started in a timely manner and that all efforts were made to complete remedial action within ninety days. (Examples of circumstances allowing each gas pipeline company to exceed the ninety-day time frame include right of way permitting issues, availability of repair materials, or unusually long investigation or repair requirements).

Finding(s):

During the field portion of the inspection, we obtained low readings at the following locations:

- 7/26/2016 -712mV CSE PSP (galvanic/on) at 19207 37th Ave in Lake Forest Park, WA.
- 7/27/2016 -611mV CSE PSP (on) and -493mV CSE PSP (off) at 16536 121st Ave SE, Renton, WA.

HQ Address: 355 110th Ave. NE Bellevue, WA 98004		System/Unit Name & Address: 355 110th Ave. NE Bellevue, WA 98004	
Co. Official: Booga K. Gilbertson Phone No.: 425-462-3843 Fax No.: Emergency Phone No.:		Phone No.: Fax No.: Emergency Phone No.:	
Persons Interviewed	Title	Phone No.	
Gary Swanson	Maintenance Program Coordinator	260-716-2632	
Stephanie Silva	Gas Compliance Program Manager	425-462-3923	
Angela Wingate	Quality Control Project Manager	206-716-2627	
Monica Ferguson	Regulatory Compliance	425-462-3087	
Signe Lippert	Supervisor Maintenance Programs	206-766-2630	
Georgia Savoy	Resource Coordinator	800-225-5773	
Heidi Brewer	Resource Coordinator	800-225-5773	
Brett Conrad	Senior Project Manager	425-456-2914	
Iren Kletsy	Engineer	425-456-2323	
Chuck Smythe	Pressure Control Tech	206-716-2738	
John Macauley	Pressure Control Tech	206-716-2738	
Mike Cowin	Corrosion Control Tech	206-716-2738	
Steve Dickison	Supervisor of Pressure Control North	206-716-2738	

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 type="checkbox"/>	Team inspection was performed (Within the past five years.) or,	Date:	
<input checked="" type="checkbox"/>	Other WUTC Inspector reviewed the O & M Manual (Since the last yearly review of the manual by the operator.)	Date:	10/29/2015
<input checked="" type="checkbox"/>	OQ Program Review (PHMSA Form 14)	Date:	11/13/2014

GAS SYSTEM OPERATIONS

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GAS SYSTEM OPERATIONS			
Gas Supplier		Williams	
Services: Residential 258,829 Commercial 7,438 Industrial 1409 Other 0			
Number of reportable safety related conditions last year		0	
Number of <u>non-reportable</u> safety related conditions last year		0	
Number of deferred leaks in system		554	
Number of third party hits last year		980 system wide	
Miles of transmission pipeline within unit (total miles and miles in class 3 & 4 areas) N/A per operator in 2016 3.6 miles class 3 per 2014 audit		Miles of main within inspection unit (total miles and miles in class 3 & 4 areas) 4651.2 PSE did not have a response and does not quantify miles of main in class 3&4.	
Operating Pressure(s):		MAOP (Within last year)	Actual Operating Pressure (At time of Inspection)
Feeder:	RS-2659 Black Diamond Gate	500 psig	Please review field data collection form for actual site pressures
Town:	RS-2701 Kent Limit Station	500 psig inlet 250 psig outlet	Please review field data collection form for actual site pressures
Other:	RS-2739	250 inlet 45 psig outlet	Please review field data collection form for actual site pressures
Does the operator have any transmission pipelines?		Yes, but not part of this inspection	
Compressor stations? Use Attachment 1.		No	

Pipe Specifications:			
Year Installed (Range)	1921-2016	Pipe Diameters (Range)	.5 – 20 inch
Material Type	STW, MPE, PE, HDPE	Line Pipe Specification Used	API 5L ASTM D-2513
Mileage	4651.2	SMYS %	<20%

Operator Qualification Field Validation
Important: Per OPS, the OQ Field Inspection Protocol Form (Rev 4, May 2007) 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/Uploaded Will upload after QC by Chief Engineer.

Integrity Management Field Validation
Important: Per PHMSA, IMP Field Verification Form (Rev 6/18/2012) shall be used by the inspector as part of this standard inspection. When completed, the inspector will upload this information into the PHMSA IM Database (IMDB) located at http://primis.phmsa.dot.gov/gasimp/home.gim Date Completed/Uploaded: Not a transmission audit N/A

PART 199 Drug and Alcohol Testing Regulations and Procedures				S	U	NA	NC
Subparts A - C	Drug & Alcohol Testing & Misuse Prevention Program – Use PHMSA Form #13, Rev 3/19/2010. Do not ask the company to have a drug and alcohol expert available for this portion of your inspection.			X			

REPORTING RECORDS			S	U	N/A	N/C
1.	49 U.S.C. 60132, Subsection (b)	For Gas Transmission Pipelines and LNG Plants. Submission of Data to the National Pipeline Mapping System Under the Pipeline Safety Improvement Act of 2002 Updates to NMPS: Operators are required to make update submissions every 12 months if any system modifications have occurred. <u>If no modifications have occurred since the last complete submission (including operator contact information), send an email to ops@rspa.dot.gov stating that fact.</u> Include operator contact information with all updates. ****Notes - NPMS submittal 3/10/16 for pipelines and LNG facilities****	X			

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REPORTING RECORDS			S	U	N/A	N/C
2.	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			
3.	191.5	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. ***Notes – Product release is part of the RPE program***	X			
4.	191.7	Reports (except SRCR and offshore pipeline condition reports) must be submitted electronically to PHMSA at http://portal.phmsa.dot.gov/pipeline at unless an alternative reporting method is authorized IAW with paragraph (d) of this section.	X			
5.	191.15(a)	30-day follow-up written reports to PHMSA (Form F7100.2) Submittal must be electronically to http://pipelineonlinereporting.phmsa.dot.gov	X			
6.	191.15(c)	Supplemental report (to 30-day follow-up)	X			
7.	191.17	Complete and submit DOT Form PHMSA F 7100-2.1 by March 15 of each calendar year for the preceding year. (NOTE: June 15, 2011 for the year 2010).	X			
8.	191.22	Each operator must obtain an OPID, validate its OPIDs, and notify PHMSA of certain events at http://portal.phmsa.dot.gov/pipeline	X			
9.	191.23	Filing the Safety Related Condition Report (SRCR)	X			
10.	191.25 49 U.S.C. 60139, Subsection (b)(2)	Filing the SRCR within 5 days of determination, but not later than 10 days after discovery. 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. The report should be titled “Gas Transmission MAOP Exceedance” and provide the following information: <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. • 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. 	X			
11.	.605(d)	Instructions to enable operation and maintenance personnel to recognize potential Safety Related Conditions	X			
12.	191.27	Offshore pipeline condition reports – filed within 60 days after the inspections	X			
13.	192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports	X			
14.	480-93-200(1)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9144 (Within 2 hours) for events which results in;				
15.	480-93-200(1)(a)	A fatality or personal injury requiring hospitalization;	X			
16.	480-93-200(1)(b)	Damage to property of the operator and others of a combined total exceeding fifty thousand dollars;	X			
17.	480-93-200(1)(c)	The evacuation of a building, or high occupancy structures or areas;	X			
18.	480-93-200(1)(d)	The unintentional ignition of gas;	X			
19.	480-93-200(1)(e)	The unscheduled interruption of service furnished by any operator to twenty five or more distribution customers;	X			

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20.	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;	X			
21.	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;	X			
22.	480-93-200(2)	Telephonic Reports to UTC Pipeline Safety Incident Notification 1-888-321-9146 (Within 24 hours) for;				
23.	480-93-200(2)(a)	The uncontrolled release of gas for more than two hours;	X			
24.	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;	X			
25.	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	X			
26.	480-93-200(2)(d)	A gas pipeline pressure exceeding the MAOP.	X			
27.	480-93-200(4)	Did written incident reports (within 30 days of telephonic notice) include the following				
28.	480-93-200(4)(a)	Name(s) and address(es) of any person or persons injured or killed, or whose property was damaged;	X			
29.	480-93-200(4)(b)	The extent of injuries and damage;	X			
30.	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;	X			
31.	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;	X			
32.	480-93-200(4)(e)	The date and time the gas pipeline company was first notified of the incident;	X			
33.	480-93-200(4)(f)	The date and time the ((operator's)) gas pipeline company's first responders arrived on-site;	X			
34.	480-93-200(4)(g)	The date and time the gas ((facility)) pipeline was made safe;	X			
35.	480-93-200(4)(h)	The date, time, and type of any temporary or permanent repair that was made;	X			
36.	480-93-200(4)(i)	The cost of the incident to the ((operator)) gas pipeline company;	X			
37.	480-93-200(4)(j)	Line type;	X			
38.	480-93-200(4)(k)	City and county of incident; and	X			
39.	480-93-200(4)(l)	Any other information deemed necessary by the commission.	X			
40.	480-93-200(5)	Supplemental report if required information becomes available after 30 day report submitted	X			
41.	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	X			
42.	480-93-200(7)	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)				
43.	480-93-200(7)(a)	Does the operator report to the commission the requirements set forth in RCW 19.122.053(3) (a) through (n)	X			
44.	480-93-200(7)(b)	Does the operator report the name, address, and phone number of the person or entity that the company has reason to believe may have caused damage due to excavations conducted <u>without facility locates</u> first being completed?	X			
45.	480-93-200(7)(c)	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? Note: Records maintained for two years and made available to the commission upon request.	X			
46.	480-93-200(8)	Does the operator provide the following information to excavators who damage gas pipeline facilities?				
47.	480-93-200(8)(a)	<ul style="list-style-type: none"> • Notification requirements for excavators under RCW 19.122.050(1) 	X			
48.	480-93-200(8)(b)	<ul style="list-style-type: none"> • A description of the excavator's responsibilities for reporting damages under RCW 19.122.053; and 	X			

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REPORTING RECORDS			S	U	N/A	N/C
49.	480-93-200(8)(c)	<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. 	X			
50.	480-93-200(9)	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) 	X			
51.	480-93-200(10)	Annual Reports filed with the commission no later than March 15 for the proceeding calendar year				
52.	480-93-200(10)(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	X			
53.	480-93-200(10)(b)	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.	X			
54.	480-93-200(11)	Providing updated emergency contact information to the commission and appropriate officials of all municipalities where gas pipeline companies have facilities	X			
55.	480-93-200(12)	Providing by email, reports of daily construction and repair activities no later than 10:00 a.m.	X			
56.	480-93-200(13)	Submitting copy of DOT Drug and Alcohol Testing MIS Data Collection Form when required	X			

Comments:

CUSTOMER and EXCESS FLOW VALVE INSTALLATION NOTIFICATION			S	U	N/A	N/C
57.	192.16	Customer notification - Customers notified, within 90 days , of their responsibility for those service lines not maintained by the operator	X			
58.	192.381	Does the excess flow valve meet the performance standards prescribed under §192.381?	X			
59.	192.383	Does the operator have an installation and reporting program for excess flow valves and does the program meet the requirements outlined in §192.383? Are records adequate?	X			

Comments:

CONSTRUCTION RECORDS			S	U	N/A	N/C
60.	480-93-013	OQ records for personnel performing New Construction covered tasks	X			
61.	192.225	Test Results to Qualify Welding Procedures	X			
62.	192.227	Welder Qualification	X			

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CONSTRUCTION RECORDS			S	U	N/A	N/C
63.	480-93-080(1)(b)	Appendix C Welders re-qualified 2/Yr (7.5Months) ****Notes – No Appendix C welders****			X	
64.	480-93-080(2)	Plastic pipe joiners re-qualified 1/Yr (15 Months) **Notes – Reference East King crew inspections for spot checks**	X			
65.	480-93-080(2)(b)	Plastic pipe joiners re-qualified if no production joints made during any 12 month period	X			
66.	480-93-080(2)(c)	Tracking Production Joints or Re-qualify joiners 1/Yr (12Months)	X			
67.	480-93-115(2)	Test leads on casings (without vents) installed after 9/05/1992	X			
68.	480-93-115(3)	Sealing ends of casings or conduits on transmission lines and mains	X			
69.	480-93-115(4)	Sealing ends (nearest building wall) of casings or conduits on services	X			
70.	192.241(a)	Visual Weld Inspector Training/Experience	X			
71.	192.243(b)(2)	Nondestructive Technician Qualification	X			
72.	192.243(c)	NDT procedures	X			
73.	192.243(f)	Total Number of Girth Welds	X			
74.	192.243(f)	Number of Welds Inspected by NDT	X			
75.	192.243(f)	Number of Welds Rejected	X			
76.	192.243(f)	Disposition of each Weld Rejected	X			
77.	.273/.283	Qualified Joining Procedures Including Test Results	X			
78.	192.303	Construction Specifications	X			
79.	192.325 WAC 480-93-178(4)(5)	Underground Clearances	X			
80.	192.327	Amount, location, cover of each size of pipe installed	X			
81.	480-93-160(1)	Report filed 45 days prior to construction or replacement of transmission pipelines ≥ 100 feet in length	X			
82.	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:	X			
83.	480-93-160(2)(a)	Description and purpose of the proposed pipeline;	X			
84.	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.	X			
85.	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	X			
86.	480-93-160(2)(d)	MAOP for the gas pipeline being constructed;	X			
87.	480-93-160(2)(e)	Location and construction details of all river crossings or other unusual construction requirements encountered en route.	X			
88.	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;	X			
89.	480-93-160(2)(g)	Welding specifications; and	X			
90.	480-93-160(2)(h)	Bending procedures to be followed if needed.	X			
91.	480-93-170(1)	Commission notified 2 days prior to pressure testing pipelines with an MAOP producing a hoop stress ≥ 20% SMYS?	X			
92.	480-93-170(7)	Pressure tests records at a minimum include required information listed under 480-93-170(a-h)	X			
93.	480-93-170(9)	Individual pressure test records maintained for single installations where multiple pressure tests were performed?	X			
94.	480-93-170(10)	Pressure Testing Equipment checked for accuracy/intervals (Manufacturers Rec or Operators schedule)	X			
95.	480-93-175(2)	Study prepared and approved prior to moving and lowering of metallic pipelines > 60 psig ****Notes – Not performed****			X	

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96.	480-93-175(4)	Leak survey within 30 days of moving or lowering pipelines \leq 60 psig ***Notes – Not performed***			X	

Comments:

Records review notes

Reference job number 109095097 – PT date 3/17/16 Check test the strength test chart used a 90min scale but 24hr chart. – Stephanie Kreshel

Recording Number #856582 Due 8/1/16

Mike Sisneros Welder Quals 10/9/15

Tolt Pipeline Job Number 109026755 PT date 9/25/2015 11:30 AM – 11:30 AM 909 psig Garrett Kelderman is the fitter/foreman. X56 and X60 was used

Spring/Digital Serial 1006852 09/01/15
Recording 0521625 12/01/15
Dead Weight 26157 10/01/15 Calibration records looked at and in an SAP extract.

Checked Joeseph Olaf checked eye test expires Dec 2015 1 yr test. Also checked MT and RT.

Reviewed NDT Xray records for joints and did P2P verification.

Also verified pressure testing records to ensure that high elevation areas had an adequate pressure test.

Verified purchase order for ARO coating in bore areas.

Union Hill Job 109081971

Dead Weight Calibration #26157 10/01/15 Due date Presssure Test on 12/8/14

OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
97.	192.517(a)	Pressure Testing (operates at or above 100 psig) – useful life of pipeline	X			
98.	192.517(b)	Pressure Testing (operates below 100 psig, service lines, plastic lines) – 5 years	X			
99.	192.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months) Note: Including review of OQ procedures as <u>suggested</u> by PHMSA - ADB-09-03 dated 2/7/09	X			
100.	192.605(b)(3)	Availability of construction records, maps, operating history to operating personnel	X			
101.	480-93-018(3)	Records, including maps and drawings updated within 6 months of completion of construction activity?	X			
102.	192.605(b)(8)	Periodic review of personnel work – effectiveness of normal O&M procedures	X			
103.	192.605(c)(4)	Periodic review of personnel work – effectiveness of abnormal operation procedures	X			
104.	192.609	Class Location Study (If applicable) ***Notes – this is a distribution audit ***			X	
105.	192.611	Confirmation or revision of MAOP***Notes – this is a distribution audit ***			X	
106.	192.614	Damage Prevention (Operator Internal Performance Measures)				

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OPERATIONS and MAINTENANCE RECORDS			S	U	N/A	N/C
107.		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 v. 6.0, Best Practice 4-18. Recommended only, not required) ***Notes – USIC performs field audits. PSE tracks at-fault. PSE would like them to do better. Ride alongs.	X			
108.		Does operator including performance measures in facility locating services contracts with corresponding and meaningful incentives and penalties? ***Note - No specific incentives and penalties***	X			
109.		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			
110.		Does the operator periodically review the Operator Qualification plan criteria and methods used to qualify personnel to perform locates? ***Notes – USIC has a locate OQ program. In April next year they will review it again, there has been no changes.	X			
111.		Review operator locating and excavation <u>procedures</u> for compliance with state law and regulations.	X			
112.		Are locates are being made within the timeframes required by state law and regulations? Examine record sample.	X			
113.		Are locating and excavating personnel properly <u>qualified</u> in accordance with the operator’s Operator Qualification plan and with federal and state requirements? ***Notes – USIC has a locate OQ program. In April next year they will review it again, there has been no changes.	X			
114.		Follow-up inspection performed on the pipeline where there is reason to believe the pipeline could be damaged .614(c) (6) 1. Is the inspection the 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?	X			

Comments:

Some quality issues with USIC picking up the Century Link contract per PSE. They have USIC on a quality action plan. They track inaccurate locates (at fault locates) If people know that a locate is bad, they contact Brett Conrad and he follows up.

USIC is performing gas and power locates in East King. We spot checked May 11, 2016. ELM also does about 30% of the work for PSE.

115.		Emergency Response Plans	S	U	N/A	N/C
116.	192.603(b)	Prompt and effective response to each type of emergency .615(a)(3) Note: Review operator records of previous accidents and failures including third-party damage and leak response	X			
117.	192.615(b)(1)	Location Specific Emergency Plan	X			
118.	192.615(b)(2)	Emergency Procedure training, verify effectiveness of training ***Notes – We reviewed OQ training records for emergency response GFR staff***	X			
119.	192.615(b)(3)	Employee Emergency activity review, determine if procedures were followed. ***Notes - They review the 1284 forms and determine if procedures were followed. It documents the companies response to every emergency***	X			
120.	192.615(c)	Liaison Program with Public Officials - ***Notes – Reviewed two mailings (one to public officials and one to emergency officials. ***	X			
121.	192.616	Public Awareness Program				

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122.	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																										
123.		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.																														
124.		API RP 1162 Baseline* Recommended Message Deliveries																														
125.		<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Stakeholder Audience (LDC’s)</th> <th style="text-align: center;">Baseline Message Frequency (starting from effective date of Plan)</th> </tr> </thead> <tbody> <tr> <td>Residence Along Local Distribution System</td> <td>Annual</td> </tr> <tr> <td>LDC Customers</td> <td>Twice annually</td> </tr> <tr> <td>One-Call Centers</td> <td>As required of One-Call Center</td> </tr> <tr> <td>Emergency Officials</td> <td>Annual</td> </tr> <tr> <td>Public Officials</td> <td>3 years</td> </tr> <tr> <td>Excavator and Contractors</td> <td>Annual</td> </tr> <tr> <th style="text-align: center;">Stakeholder Audience (Transmission line operators)</th> <th style="text-align: center;">Baseline Message Frequency (starting from effective date of Plan)</th> </tr> <tr> <td>Residence Along Local Distribution System</td> <td>2 years</td> </tr> <tr> <td>One-Call Centers</td> <td>As required of One-Call Center</td> </tr> <tr> <td>Emergency Officials</td> <td>Annual</td> </tr> <tr> <td>Public Officials</td> <td>3 years</td> </tr> <tr> <td>Excavator and Contractors</td> <td>Annual</td> </tr> </tbody> </table>	Stakeholder Audience (LDC’s)	Baseline Message Frequency (starting from effective date of Plan)	Residence Along Local Distribution System	Annual	LDC Customers	Twice annually	One-Call Centers	As required of One-Call Center	Emergency Officials	Annual	Public Officials	3 years	Excavator and Contractors	Annual	Stakeholder Audience (Transmission line operators)	Baseline Message Frequency (starting from effective date of Plan)	Residence Along Local Distribution System	2 years	One-Call Centers	As required of One-Call Center	Emergency Officials	Annual	Public Officials	3 years	Excavator and Contractors	Annual				
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126.		* Refer to API RP 1162 for additional requirements, including general program recommendations, supplemental requirements, recordkeeping, program evaluation, etc.																														
127.	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.				X																										
128.	.616(h)	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 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)				X																										
129.	192.616(j)	Operators of a Master Meter or petroleum gas system – public awareness messages 2 times annually: (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																										
130.	192.617	Review operator records of accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence .617 Note: Including excavation damage and leak response records (PHMSA area of emphasis) (NTSB B.10)				X																										

Comments:

Notes - 122-130 The UTC will be conducting the full program inspection later this year.

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131.	192.619/621/623	Maximum Allowable Operating Pressure (MAOP) Note: New PA-11 design criteria is incorporated into 192.121 & .123 (Final Rule Pub. 12/24/08)	X											
132.	480-93-015(1)	Odorization of Gas – Concentrations adequate ***Notes – We reviewed Jan 2014 to May 2016***	X											
133.	480-93-015(2)	Monthly Odorant Sniff Testing	X											
134.	480-93-015(3)	Prompt action taken to investigate and remediate odorant concentrations not meeting the minimum requirements ****Notes – None not meeting the requirement****			X									
135.	480-93-015(4)	Odorant Testing Equipment Calibration/Intervals (Annually or Manufacturers Recommendation) OT-0200 used 11/23/14 OT-0053 used 5/2/16 OT-0015 used 10/13/15 Checked records	X											
136.	480-93-124(3)	Pipeline markers attached to bridges or other spans inspected? 1/yr(15 months)	X											
137.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days?	X											
138.	480-93-140(2)	Service regulators and associated safety devices tested during initial turn-on	X											
139.	480-93-155(1)	Up-rating of system MAOP to >60 psig? Procedures and specifications submitted 45 days prior?	X											
140.	480-93-185(1)	Reported gas leaks promptly investigated? Graded in accordance with 480-93-186? Records retained?	X											
141.	480-93-185(3)(a)	Leaks originating from a foreign source. Take appropriate action to protect life and property regarding the pipeline company's own facilities, and;	X											
142.	480-93-185(3)(b)	Leaks originating from a foreign source reported promptly/notification by mail. Records retained?	X											
143.	480-93-186(3)	Leak evaluations: Are follow-up inspections performed within 30 days of a leak repair?	X											
144.	480-93-186(4)	Leak evaluations: Grade 1 and 2 leaks (if any), downgraded once to a grade 3 without physical repair?	X											
145.	480-93-187	Gas leak records: at a minimum include required information listed under 480-93-187(1-13)	X											
146.	480-93-188(1)	Gas leak surveys ***Notes – In 2013 PSE switched to leak surveying the supply mains different cycles*** They switched to having everything on one cycle.***	X											
147.	480-93-188(2)	Gas detection instruments tested for accuracy/intervals (Mfct recommended or monthly not to exceed 45 days)	X											
148.	480-93-188(3)	Leak survey frequency (Refer to Table Below)	X											
<table border="1" style="margin: auto;"> <tr> <td>Business Districts (implement by 6/02/07)</td> <td>1/yr (15 months)</td> </tr> <tr> <td>High Occupancy Structures</td> <td>1/yr (15 months)</td> </tr> <tr> <td>Pipelines Operating \geq 250 psig</td> <td>1/yr (15 months)</td> </tr> <tr> <td>Other Mains: CI, WI, copper, unprotected steel</td> <td>2/yr (7.5 months)</td> </tr> </table>							Business Districts (implement by 6/02/07)	1/yr (15 months)	High Occupancy Structures	1/yr (15 months)	Pipelines Operating \geq 250 psig	1/yr (15 months)	Other Mains: CI, WI, copper, unprotected steel	2/yr (7.5 months)
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149.	480-93-188(4)(a)	Special leak surveys - Prior to paving or resurfacing, following street alterations or repairs	X											
150.	480-93-188(4)(b)	Special leak surveys - areas where substructure construction occurs adjacent to underground gas facilities, and damage could have occurred	X											
151.	480-93-188(4)(c)	Special leak surveys - Unstable soil areas where active gas lines could be affected	X											
152.	480-93-188(4)(d)	Special leak surveys - areas and at times of unusual activity, such as earthquake, floods, and explosions ***Notes- Looked at a special leak survey 12/3/15 Plat 190098 and 12/24/15 Q174074, 10-1-15 Check FI 521578***	X											
153.	480-93-188(4)(e)	Special leak surveys - After third-party excavation damage to services, operators must perform a gas leak survey to eliminate the possibility of multiple leaks and underground migration into nearby buildings.	X											
154.	480-93-188(5)	Gas Survey Records (Min 5 yrs) and at a minimum include required information listed under 480-93-188 (5) (a-f)	X											

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155.	480-93-188(6)	Leak program - Self Audits ***Notes - Quality Management did 2010 and 2012 self-audits and the 2015 was done by Quality Control on 10/12/2015 by Jac Hand.***	X															
156.	192.709	Patrolling (Transmission Lines) (Refer to Table Below) .705 ***Notes – Distribution audit****			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>1 and 2</td> <td>2/yr (7½ months)</td> <td>1/yr (15 months)</td> </tr> <tr> <td>3</td> <td>4/yr (4½ months)</td> <td>2/yr (7½ months)</td> </tr> <tr> <td>4</td> <td>4/yr (4½ months)</td> <td>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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157.	192.709	Leak Surveys (Transmission Lines) (Refer to Table Below) .706 ***Notes – Distribution audit****			X													
<table border="1"> <thead> <tr> <th>Class Location</th> <th>Required</th> <th>Not Exceed</th> </tr> </thead> <tbody> <tr> <td>1 and 2</td> <td>1/yr</td> <td>15 months</td> </tr> <tr> <td>3</td> <td>2/yr</td> <td>7½ months</td> </tr> <tr> <td>4</td> <td>4/yr</td> <td>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
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158.	192.603(b)	Patrolling Business District (4 per yr/4½ months) .721(b)(1)	X															
159.	192.603(b)	Patrolling Outside Business District (2 per yr/7½ months) 192.721(b)(2)	X															
160.	192.603(b)	Leakage Survey - Outside Business District (5 years) 192.723(b)(1)	X															
161.	192.603(b)	Leakage Survey 192.723(b)(2) <ul style="list-style-type: none"> • Outside Business District (5 years) • Cathodically unprotected distribution lines (3 years) 	X															
162.	192.603(b)	Tests for Reinstating Service Lines 192.725	X															
163.	192.603(b)/.727(g)	Abandoned Pipelines; Underwater Facility Reports 192.727 ***Notes – None****			X													
164.	192.709	Pressure Limiting and Regulating Stations (1 per yr/15 months) .739	X															
165.	192.709	Pressure Limiting and Regulator Stations – Capacity (1 per yr/15 months) .743	X															
166.	192.709	Valve Maintenance – Transmission (1 per yr/15 months) .745 ***Notes – Distribution audit****			X													
167.	192.709	Valve Maintenance – Distribution (1 per yr/15 months) .747 ****Notes – Looked at emergency section valves Hard to operate valves Stephanie sent a note to GSI about what next steps taken for two valves. VA-04267 and VA-05435****	X															
168.	480-93-100(3)	Service valve maintenance (1 per yr/15 months) ***Notes – Signe was able to show us 2-3 years back to 2014.*** **	X															
169.	192.709	Vault maintenance (≥200 cubic feet)(1 per yr/15 months) .749***Notes – None****			X													
170.	192.603(b)	Prevention of Accidental Ignition (hot work permits) .751	X															
171.	192.603(b)	Welding – Procedure 192.225(b)	X															
172.	192.603(b)	Welding – Welder Qualification 192.227/.229	X															
173.	192.603(b)	NDT – NDT Personnel Qualification .243(b)(2)	X															
174.	192.709	NDT Records (pipeline life) .243(f)	X															
175.	192.709	Repair: pipe (pipeline life); Other than pipe (5 years)	X															
176.	192.905(c)	Periodically examining their transmission line routes for the appearance of newly identified area's (HCA's) ***Notes – Distribution audit****			X													

Comments:

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
177.	192.455(a)(1)	Pipeline coatings meet requirements of 192.461 <i>(for buried pipelines installed after 7/31/71)</i>	X			
178.	192.455(a)(2)	CP system installed on and operating within 1 yr of completion of pipeline construction <i>(after 7/31/71)</i>	X			
179.	192.465(a)	Annual Pipe-to-soil Monitoring (1 per yr/15 months) for short sections (10% per year; all in 10 years) There were 126 9yr reads that were low for the last cycle. Debbie pulled 1/1/2007 to 6/2016	X			
180.	192.491	Test Lead Maintenance .471	X			
181.	192.491	Maps or Records .491(a)	X			
182.	192.491	Examination of Buried Pipe when exposed .459	X			
183.	480-93-110(8)	CP test reading on all exposed facilities where coating has been removed	X			
184.	192.491	Annual Pipe-to-soil monitoring (1 per yr/15 months) .465(a)	X			
185.	192.491	Rectifier Monitoring (6 per yr/2½ months) .465(b)	X			
186.	192.491	Interference Bond Monitoring – Critical (6 per yr/2½ months) .465(c) ****Notes – None in East King****			X	
187.	192.491	Interference Bond Monitoring – Non-critical (1 per yr/15 months) .465(c) ****Notes – None anymore****			X	
188.	480-93-110(2)	Remedial action taken within 90 days (Up to 30 additional days if other circumstances. Must document) .465(d) ****Notes – One exceeded 90 days See Notes Rectifier 0414 did and we looked at those that went past 90 days for the individual services. PSE provided justification for the 90 day exceedances. Galvanic TS-076118 also that went over 90 days. We checked on the original G1 TS-052567 for 2014. The completed date was 8/14/14 for the G3****	X			
189.	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. ****Notes – We check half cells and multimeters during all field portions for DTC and standard audits.****	X			
190.	192.491	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) .465(e) ***Notes – None known of, but their process say to do CIS DCVG if discovered. They will dig anomalies.****			X	
191.	192.491	Electrical Isolation (Including Casings) .46 ****Notes – They check isolation at flanges, customer side. They also use Electrostops, and IsoJoints.***	X			
192.	480-93-110(5)	Casings inspected/tested annually not to exceed fifteen months	X			
193.	480-93-110(5)(a)	Casings w/no test leads installed prior to 9/05/1992. Demonstrate other acceptable test methods ****Notes – There were two	X			
194.	480-93-110(5)(b)	Possible shorted conditions – Perform confirmatory follow-up inspection within 90 days	X			
195.	480-93-110(5)(c)	Casing shorts cleared when practical	X			
196.	480-93-110(5)(d)	Shorted conditions leak surveyed within 90 days of discovery. Twice annually/7.5 months	X			
197.	192.491	Interference Currents .473	X			
198.	192.491	Internal Corrosion; Corrosive Gas Investigation .475(a) ***Notes –None but monitored at Cedar Hills due to the biogas being produced****	X			
199.	192.491	Internal Corrosion; Internal Surface Inspection; Pipe Replacement .475(b)	X			

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
200.	192.491	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months) .477 ****Notes – None only at Jackson Prairie ****			X	
201.	192.491	Atmospheric Corrosion Control Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore) .481 ***Notes – Either every three years leak during the survey or every year during. Everything is on paper currently HydroMax is documenting all AC reads now on paper now digitally in the future – not just exception reporting per Signey. A “one or two” the record was the GPS “ping” to prove they were there. 2 SAIs , 3SAIs and 4 SAIs.**	X			
202.	192.491	Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions .483/.485	X			

Comments:

PIPELINE INSPECTION (Field)			S	U	N/A	N/C
203.	192.161	Supports and anchors	X			
204.	480-93-080(1)(d)	Welding procedures located on site where welding is performed?	X			
205.	480-93-080(1)(b)	Use of testing equipment to record and document essential variables	X			
206.	480-93-080(2)(a)	Plastic procedures located on site where welding is performed?	X			
207.	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			
208.	480-93-013	Personnel performing “New Construction” covered tasks OQ qualified?	X			
209.	480-93-015(1)	Odorization	X			
210.	480-93-018(3)	Updated records, inc maps and drawings made available to appropriate operations personnel?	X			
211.	192.179	Valve Protection from Tampering or Damage	X			
212.	192.455	Pipeline coatings meet requirements of 192.461 (for buried pipelines installed after 7/31/71)	X			
213.	192.463	Levels of cathodic protection ***Notes - During the field portion of the inspection, we obtained low readings at the following locations: 7/26/2016 -712mV CSE PSP (galvanic/on) at 19207 37th Ave in Lake Forest Park, WA. 7/27/2016 -611mV CSE PSP (on) and -493mV CSE PSP (off) at 16536 121st Ave SE, Renton, WA.*****		X		
214.	192.465	Rectifiers	X			
215.	192.467	CP - Electrical Isolation	X			
216.	192.476	Systems designed to reduce internal corrosion	X			
217.	192.479	Pipeline Components exposed to the atmosphere	X			
218.	192.481	Atmospheric Corrosion: monitoring	X			
219.	192.491	Test Stations – Sufficient Number .469	X			
220.	480-93-115(2)	Casings – Test Leads (casings w/o vents installed after 9/05/1992)	X			
221.	480-93-115(2)	Mains or transmission lines installed in casings/conduit. Are casing ends sealed?	X			
222.	480-93-115(4)	Service lines installed in casings/conduit. Are casing ends nearest to building walls sealed?	X			
223.	192.605(a)	Appropriate parts of manuals kept at locations where O&M activities are conducted	X			

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PIPELINE INSPECTION (Field)			S	U	N/A	N/C
224.	192.605	Knowledge of Operating Personnel	X			
225.	480-93-124	Pipeline markers	X			
226.	480-93-124(4)	Markers reported missing or damaged replaced within 45 days?****Notes – Checked back to 2014****	X			
227.	192.719	Pre-pressure Tested Pipe (Markings and Inventory) ****Notes – Did not find or observe any pretested pipe****			X	
228.	192.195	Overpressure protection designed and installed where required?	X			
229.	192.739/743	Pressure Limiting and Regulating Devices (Mechanical/Capacities)	X			
230.	192.741	Telemetry, Recording Gauges	X			
231.	192.751	Warning Signs	X			
232.	192.355	Customer meters and regulators. Protection from damage	X			
233.	192.355(c)	Pits and vaults: Able to support vehicular traffic where anticipated.	X			
234.	480-93-140	Service regulators installed, operated and maintained per state/fed regs and manufacturers recommended practices?	X			
235.	480-93-178(2)	Plastic Pipe Storage facilities – Maximum Exposure to Ultraviolet Light (2yrs)	X			
236.	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			
237.	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			
238.	480-93-178(6)	Are there Temporary above ground PE pipe installations currently? Yes X No				
239.	480-93-178(6)(a)	If yes, is facility monitored and protected from potential damage?	X			
240.	480-93-178(6)(b)	If installation exceeded 30 days, was commission staff notified prior to exceeding the deadline? ****Notes – Tony was notified of the Talus above ground installation****	X			
241.	192.745	Valve Maintenance (Transmission) ****Notes – Distribution audit****			X	
242.	192.747	Valve Maintenance (Distribution) ****Notes - During the field portion of the inspection, an emergency section valve, VA-04267, was found inoperable by one person. It is unknown if the valve can be operated by two people or if the valve is completely inoperable. Please provide documentation of any remedial action taken to ensure this valve operates as intended during an emergency. If two gas first response personnel are needed to operate a valve, please provide documentation that demonstrates that two personnel will be dispatched, in the event of an emergency, to each location that requires two individuals to safely complete the task.****		X		

Facility Sites Visited:

Facility Type	Facility ID Number	Location
Please see field data collection forms for sites visited in the field for DNorwood and DCullom.		

Comments:

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Comments:

Recent Gas Pipeline Safety 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

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

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.

		COMPRESSOR STATION PROCEDURES	S	U	N/A	N/C
243.	.605(b)					
244.		.605(b)(6) Maintenance procedures, including provisions for isolating units or sections of pipe and for purging before returning to service			X	
245.		.605(b)(7) Starting, operating, and shutdown procedures for gas compressor units			X	
246.		.731 Inspection and testing procedures for remote control shutdowns and pressure relieving devices (1 per yr/15 months), prompt repair or replacement			X	
247.		.735 (a) Storage of excess flammable or combustible materials at a safe distance from the compressor buildings			X	
248.		(b) Tank must be protected according to NFPA #30			X	
249.		.736 Compressor buildings in a compressor station must have fixed gas detection and alarm systems (must be performance tested), unless:			X	
250.		• 50% of the upright side areas are permanently open, or			X	
251.		• It is an unattended field compressor station of 1000 hp or less			X	

Comments:

Notes – 243 – 251 – No compressors *

			COMPRESSOR STATION O&M PERFORMANCE AND RECORDS	S	U	N/A	N/C
252.	.709	.731(a)	Compressor Station Relief Devices (1 per yr/15 months)			X	
253.		.731(c)	Compressor Station Emergency Shutdown (1 per yr/15 months)			X	
254.		.736(c)	Compressor Stations – Detection and Alarms (Performance Test)			X	

Comments:

Notes – 252 – 254 – No compressors *

			COMPRESSOR STATIONS INSPECTION (Field)	S	U	N/A	N/C
			(Note: Facilities may be “Grandfathered”)				
255.	.163	(c)	Main operating floor must have (at least) two (2) separate and unobstructed exits			X	
256.			Door latch must open from inside without a key			X	
257.			Doors must swing outward			X	
258.		(d)	Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit			X	
259.			Each gate located within 200 ft of any compressor plant building must open outward			X	
260.			When occupied, the door must be opened from the inside without a key			X	
261.		(e)	Does the equipment and wiring within compressor stations conform to the National Electric Code, ANSI/NFPA 70?			X	
262.	.165	(a)	If applicable, are there liquid separator(s) on the intake to the compressors?			X	
263.		(b)	Do the liquid separators have a manual means of removing liquids?			X	
264.			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	

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Distribution Operator Compressor Station Inspection

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COMPRESSOR STATIONS INSPECTION (Field)			S	U	N/A	N/C
(Note: Facilities may be “Grandfathered”)						
265.	.167	(a)	ESD system must:			
266.					X	
267.					X	
268.					X	
269.					X	
270.			ESD system must be operable from at least two locations, each of which is:			
271.	.167				X	
272.					X	
273.					X	
274.		(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?			
275.		(c)	Are ESDs on platforms designed to actuate automatically by...			
276.			- For unattended compressor stations, when:			
277.					X	
278.					X	
279.			- For compressor station in a building, when			
280.					X	
281.					X	
282.	.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.			
283.		(b)	Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?			
284.		(c)	Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?			
285.		(d)	Are the gas compressor units equipped to automatically stop fuel flow and vent the engine if the engine is stopped for any reason?			
286.		(e)	Are the mufflers equipped with vents to vent any trapped gas?			
287.	.173				X	
288.	.457				X	
289.	.481				X	
290.	.603				X	
291.					X	
292.	.615				X	
293.	.619				X	
294.	.707				X	
295.	.731				X	
296.	.735				X	
297.					X	
298.	.736				X	

Comments:

Attachment 1
Distribution Operator Compressor Station Inspection

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Comments:

***Notes – 255 – 298 – No compressors ***