



**COMPREHENSIVE
STANDARD INSPECTION OF
INTRASTATE GAS
DISTRIBUTION SYSTEMS**

OPERATOR (A-O) (P-Z)

INSPECTOR(S):

DATE

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

A completed **Standard Inspection Report** is to be submitted to the Director within 60 days from completion of the inspection. A **Post Inspection Memorandum (PIM)** is to be completed and submitted to the Director within 30 days from the completion of the inspection, or series of inspections, and is to be filed as part of the **Standard Inspection Report**.

Inspection Report		Post Inspection Memorandum	
Inspector/Submit Date: _____		Inspector/Submit Date:	
		Peer Review/Date:	
		Director Approval/Date:	
POST INSPECTION MEMORANDUM (PIM)			
Name of Operator:		OPID #:	
Name of Unit(s):		Unit #(s):	
Records Location:		Activity #	
Unit Type & Commodity:			
Inspection Type:		Inspection Date(s):	
PHMSA Representative(s):		AFO Days:	

Company System Maps (copies for region files):	
Validate SMART Data (components, miles, etc): <input type="checkbox"/>	Acquisition(s), Sale or New Construction (submit SMART update): <input type="checkbox"/>
Validate Additional Requirements Resulting From Waiver(s) or Special Permit(s):	

Summary:

Findings:

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

Name of Operator:		(A-O)	(P-Z)
OP ID No. ⁽¹⁾		Unit ID No. ⁽¹⁾	
HQ Address:		System/Unit Name & Address: ⁽¹⁾	
Co. Official:		Activity Record ID No.:	
Phone No.:		Phone No.:	
Fax No.:		Fax No.:	
Emergency Phone No.:		Emergency Phone No.:	
Persons Interviewed		Title	Phone No.
PHMSA Representative(s) ⁽¹⁾			Inspection Date(s) ⁽¹⁾
Company System Maps (copies for region files):			

Unit Description

Portion of Unit Inspected: ⁽¹⁾

For gas transmission and distribution pipeline inspections, the attached evaluation form should be used in conjunction with 49 CFR Parts 191 and 192.

¹ Information not required if included on page 1.

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GAS SYSTEM OPERATIONS						
Gas Supplier			Date:			
Unaccounted for Gas:			Services:	<i>Residential</i>	<i>Commercial</i>	<i>Industrial</i>
				<i>Other</i>		
Operating Pressure(s):		MAOP (within last year)		Actual Operating Pressure (at time of inspection)		
Feeder:						
Town:						
Other:						
Does the operator have any transmission pipelines?						
Does the operator have any compressor stations?						
Does the operator have a control room/SCADA?						
Has the operator conducted an uprating?						

49CFR PART 191

REPORTING PROCEDURES		S	U	N/A	N/C
.605(b)(4)	Procedures for gathering data for incident reporting:				
191.5	Immediate notice of certain incidents to NRC (800) 424-8802 , or electronically at http://www.nrc.uscg.mil (§191.3 - A release of gas from a pipeline, that results in a death or personal injury necessitating in-patient hospitalization, estimated property damage of \$50,000 or more, including loss to the operator and others, or both, but excluding cost of gas lost, unintentional estimated gas loss of three million cubic feet or more, or an event that is significant in the judgment of the operator.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.7	Reports (except safety related condition reports and offshore pipeline condition reports) must be submitted electronically to PHMSA at https://opsweb.phmsa.dot.gov unless an alternative reporting method is authorized in accordance with paragraph (d) of this section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.9(a)	30-day written report (Form 7100-1) Submittal must be electronically to: http://pipelineonlinereporting.phmsa.dot.gov	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.9(b)	Supplemental report (to original 30-day incident report) when additional relevant information is obtained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(a)	191.11 Complete and submit DOT Form PHMSA F 7100.1-1 by March 15 of each calendar year for the preceding year (NOTE: June 15, 2011 [may change to August 15] for the year 2010).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	191.12 Complete and submit DOT Form PHMSA F 7100.1-2 by March 15 of each calendar year for the preceding year for each mechanical fitting failure as required by 192.1009.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	191.22 Each operator must obtain an OPID, validate its OPIDs, and notify PHMSA of certain events at: https://opsweb.phmsa.dot.gov	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	191.23 Reporting safety-related condition.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	191.25 Filing the safety related condition report within 5 working days of determination, but not later than 10 working days after discovery.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	191.27 Offshore pipeline condition reports – filed within 60 days after the inspections.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(d)	Instructions to enable operation and maintenance personnel to recognize potential safety related conditions .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

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49CFR PART 192

.13(c)	CUSTOMER AND EFV INSTALLATION NOTIFICATION PROCEDURES	S	U	N/A	N/C
.16	Procedures for notifying new customers, within 90 days , of their responsibility for those sections of service lines not maintained by the operator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.381	If excess flow valves are installed, they must meet the performance requirements of §192.381.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.383	If the operator has a voluntary installation program for excess flow valves, the program must meet the requirements outlined in §192.383.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.383	An excess flow valve must be installed on any new or replaced service line serving a single-family residence after February 12, 2010, unless one or more of the following conditions are present: (1) The service line does not operate at a pressure of 10 psig or greater throughout the year; (2) The operator has prior experience with contaminants in the gas stream that could interfere with the excess flow valve's operation or cause loss of service to a residence; (3) An excess flow valve could interfere with necessary operation or maintenance activities, such as blowing liquids from the line; or (4) An excess flow valve meeting performance standards in §192.381 is not commercially available to the operator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(a)	NORMAL OPERATING AND MAINTENANCE PROCEDURES	S	U	N/A	N/C
.605(a)	Operations and maintenance plan review and update procedure (1 per year/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(2)	Controlling corrosion in accordance with the operations and maintenance requirements of Subpart I of this part.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(3)	Making construction records, maps and operating history available to appropriate operating personnel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(5)	Start up and shut down of the pipeline to assure operation within maximum allowable operating pressure , plus allowable buildup.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(8)	Periodically reviewing the work done by operator's personnel to determine the effectiveness and adequacy of the procedures used in normal operation and maintenance and modifying the procedures when deficiencies are found.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(9)	Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapors or gas, and making available when needed at the excavation, emergency rescue equipment, including a breathing apparatus and a rescue harness and line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(10)	Routine inspection and testing of pipe-type or bottle-type holders.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(11)	Responding promptly to a report of a gas odor inside or near a building, unless the operator's emergency procedure under §192.615(a)(3) specifically apply to these reports.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.605(b)(12)	Implementing the applicable control room management procedures required by §192.631.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

.605(b)(1)	CHANGE IN CLASS LOCATION PROCEDURES	S	U	N/A	N/C
.609	Class location study – When increase in population density indicates a change in class location or indicates that the hoop stress corresponding to the established maximum allowable operating pressure for a segment of existing pipeline is not commensurate with the present class location, the operator shall immediately make a study to determine:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(a)	The present class location for the segment involved.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	The design, construction, and testing procedures followed in the original construction, and a comparison of these procedures with those required for the present class location by the applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	The physical condition of the segment to the extent it can be ascertained from available records.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	The operating and maintenance history of the segment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e)	The maximum actual operating pressure and the corresponding operating hoop stress, taking pressure gradient into account, for the segment of pipeline involved.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f)	The actual area affected by the population density increase, and physical barriers or other factors which may limit further expansion of the more densely populated area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.611(a)	Confirmation or revision of maximum allowable operating pressure – If the hoop stress corresponding to the established maximum allowable operating pressure of a segment of pipeline is not commensurate with the present class location, and the segment is in satisfactory physical condition, the maximum allowable operating pressure of that segment of pipeline must be confirmed or revised according to one of the following requirements:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(1)	If the segment involved has been previously tested in place for a period of not less than 8 hours:				
(i)	The maximum allowable operating pressure is 0.8 times the test pressure in Class 2 locations, 0.667 times the test pressure in Class 3 locations, or 0.555 times the test pressure in Class 4 locations. The corresponding hoop stress may not exceed 72 percent of the SMYS of the pipe in Class 2 locations, 60 percent of SMYS in Class 3 locations, or 50 percent of SMYS in Class 4 locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii)	The alternative maximum allowable operating pressure is 0.8 times the test pressure in Class 2 locations and 0.667 times the test pressure in Class 3 locations. For pipelines operating at alternative maximum allowable pressure per § 192.620, the corresponding hoop stress may not exceed 80 percent of the SMYS of the pipe in Class 2 locations and 67 percent of SMYS in Class 3 locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	The maximum allowable operating pressure of the segment involved must be reduced so that the corresponding hoop stress is not more than that allowed by this part for new segments of pipelines in the existing class location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	The segment involved must be tested in accordance with the applicable requirements of Subpart J of this part, and its maximum allowable operating pressure must then be established according to the following criteria:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i)	The maximum allowable operating pressure after the requalification test is 0.8 times the test pressure for Class 2 locations, 0.667 times the test pressure for Class 3 locations, and 0.555 times the test pressure for Class 4 locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii)	The corresponding hoop stress may not exceed 72 percent of the SMYS of the pipe in Class 2 locations, 60 percent of SMYS in Class 3 locations, or 50 percent of SMYS in Class 4 locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iii)	For pipeline operating at an alternative maximum allowable operating pressure per § 192.620, the alternative maximum allowable operating pressure after the requalification test is 0.8 times the test pressure for Class 2 locations and 0.667 times the test pressure for Class 3 locations. The corresponding hoop stress may not exceed 80 percent of the SMYS of the pipe in Class 2 locations and 67 percent of SMYS in Class 3 locations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.605(b)(1)	CHANGE IN CLASS LOCATION PROCEDURES	S	U	N/A	N/C
(b)	The maximum allowable operating pressure confirmed or revised in accordance with this section, may not exceed the maximum allowable operating pressure established before the confirmation or revision.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Confirmation or revision of the maximum allowable operating pressure of a segment of pipeline in accordance with this section does not preclude the application of §§192.553 and 192.555.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	Confirmation or revision of the maximum allowable operating pressure that is required as a result of a study under §192.609 must be completed within 24 months of the change in class location. Pressure reduction under paragraph (a) (1) or (2) of this section within the 24-month period does not preclude establishing a maximum allowable operating pressure under paragraph (a)(3) of this section at a later date.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	CONTINUING SURVEILLANCE PROCEDURES	S	U	N/A	N/C
.613(a)	Procedures for surveillance and required actions relating to change in class location, failures (including cast iron circumferential cracking), leakage history, corrosion, substantial changes in cathodic protection requirements and unusual operating and maintenance conditions (NTSB B.8).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.613(b)	Procedures requiring maximum allowable operating pressure to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	DAMAGE PREVENTION PROGRAM PROCEDURES	S	U	N/A	N/C
.614(c)	Participation in a qualified One-call program, or if available, a company program that complies with the following:				
(1)	Identify persons who engage in excavating;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	Provide notification to the public in the One-call area;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	Provide means for receiving and recording notifications of pending excavations;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4)	Provide notification of pending excavations to the members;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(5)	Provide means of temporary marking for the pipeline in the vicinity of the excavations;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(6)	Provides for inspection of the pipeline where there is reason to believe the pipeline could be damaged.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i)	Inspection required by 614(c)(6) must be done as frequently as necessary during and after the excavation activities to verify integrity of the pipeline.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii)	After blasting, a leak survey must be conducted as part of the inspection by the operator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

.605(b)(1)	EMERGENCY PROCEDURES	S	U	N/A	N/C
.615(a)(1)	Receiving, identifying, and classifying notices of events which require immediate response by the operator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(2)	Establish and maintain communication with appropriate public officials regarding possible emergency.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(3)	Prompt response to each of the following emergencies:				
	(i) Gas detected inside a building;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(ii) Fire located near or directly involving a pipeline;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(iii) Explosion near or directly involving a pipeline;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(iv) Natural disaster.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(4)	Availability of personnel, equipment, instruments, tools, and material required at the scene of an emergency.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(5)	Actions directed towards protecting people first, then property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(6)	Emergency shutdown or pressure reduction to minimize hazards to life or property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(7)	Making safe any actual or potential hazard to life or property. Response should consider the possibility of leaks in multiple locations caused by excavation damage and underground migration of gas into nearby buildings (NTSB B.9).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(8)	Notifying appropriate public officials required at the emergency scene and coordinating planned and actual responses with these officials.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(9)	Instructions for restoring service outages after the emergency has been rendered safe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(10)	Investigating accidents and failures as soon as possible after the emergency.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(a)(11)	Actions required to be taken by a controller during an emergency in accordance with §192.631.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(b)(1)	Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(b)(2)	Training appropriate employees as to the requirements of the emergency plan and verifying effectiveness of training.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(b)(3)	Reviewing activities following emergencies to determine if the procedures were effective.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.615(c)	Establish and maintain liaison with appropriate fire, police, and other public officials, to:				
	(1) Learn the responsibility and resources of each government organization that may respond to a gas pipeline emergency;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Acquaint the officials with the operator's ability in responding to a gas pipeline emergency;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Identify the types of gas pipeline emergencies of which the operator notifies the officials;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Plan how the operator and officials can engage in mutual assistance to minimize hazards to life and property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

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PUBLIC AWARENESS PROGRAM PROCEDURES - Master Meter or Petroleum Gas Systems (Use Public Awareness Program Effectiveness Inspection Form 21 for all other Distribution Systems)			S	U	N/A	N/C
.605(b)(1)	.616(j)	Operators of a master meter or petroleum gas system (unless the operator transports gas as a primary activity) must develop/implement a written procedure to provide its customers public awareness messages twice annually that includes:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1)	A description of the purpose and reliability of the pipeline;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	An overview of the hazards of the pipeline and prevention measures used;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3)	Information about damage prevention;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4)	How to recognize and respond to a leak; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5)	How to get additional information.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(See this subpart for requirements for master meter or petroleum gas system operators not located on property controlled by the operator.)					

Comments:

	FAILURE INVESTIGATION PROCEDURES		S	U	N/A	N/C
.605(b)(1)	.617	Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	MAOP PROCEDURES		S	U	N/A	N/C									
.605(b)(1)	.619	Maximum allowable operating pressure cannot exceed the lowest of the following:													
	(a)(1)	Design pressure of the weakest element;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	(a)(2)	Test pressure divided by applicable factor;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	(a)(3)	The highest actual operating pressure to which the segment of line was subjected during the 5 years preceding the applicable date in second column, unless the segment was tested according to .619(a)(2) after the applicable date in the third column or the segment was uprated according to subpart K													
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Pipeline segment</th> <th style="width: 25%;">Pressure date</th> <th style="width: 25%;">Test date</th> </tr> </thead> <tbody> <tr> <td>Onshore transmission line that was a gathering line not subject to this part before March 15, 2006</td> <td>March 15, 2006, or date line becomes subject to this part, whichever is later</td> <td>5 years preceding applicable date in second column</td> </tr> <tr> <td>All other pipelines</td> <td>July 1, 1970</td> <td>July 1, 1965</td> </tr> </tbody> </table>	Pipeline segment	Pressure date	Test date	Onshore transmission line that was a gathering line not subject to this part before March 15, 2006	March 15, 2006, or date line becomes subject to this part, whichever is later	5 years preceding applicable date in second column	All other pipelines	July 1, 1970	July 1, 1965	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipeline segment	Pressure date	Test date													
Onshore transmission line that was a gathering line not subject to this part before March 15, 2006	March 15, 2006, or date line becomes subject to this part, whichever is later	5 years preceding applicable date in second column													
All other pipelines	July 1, 1970	July 1, 1965													
	(a)(4)	Maximum safe pressure determined by operator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	(b)	Overpressure protective devices must be installed if .619(a)(4) is applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									

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.605(b)(1)	MAOP PROCEDURES	S	U	N/A	N/C
(c)	The requirements on pressure restrictions in this section do not apply in the following instance. An operator may operate a segment of pipeline found to be in satisfactory condition, considering its operating and maintenance history, at the highest actual operating pressure to which the segment was subjected during the 5 years preceding the applicable date in the second column of the table in paragraph (a)(3) of this section. An operator must still comply with §192.611.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.621(a)	MAOP - High Pressure Distribution Systems: No person may operate a segment of a high pressure distribution system at a pressure that exceeds the lowest of the following pressures, as applicable: Note: DF = 0.32, or = 0.40 for PA-11 pipe produced after January 23, 2009 with a nominal pipe size (IPS or CTS) 4-inch or less, and a SDR of 11 or greater (i.e. thicker pipe wall), PA-11 design criteria in 192.121 & .123, (Final Rule Pub. 24 December, 2008)				
(1)	The design pressure of the weakest element in the segment, determined in accordance with C and D of this part.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	60 p.s.i. (414 kPa) gage, for a segment of a distribution system otherwise designated to operate at over 60 p.s.i. (414 kPa) gage, unless the service lines in the segment are equipped with service regulators or other pressure limiting devices in series that meet the requirements of §192.197(c).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	25 p.s.i. (172 kPa) in segments of cast iron pipe in which there are unreinforced bell and spigot joints.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4)	The pressure limits to which a joint could be subjected without the possibility of its parting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(5)	The pressure determined by the operator to be the maximum safe pressure after considering the history of the segment, particularly known corrosion and the actual operating pressures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	No person may operate a segment of pipeline to which paragraph (a)(5) of this section applies, unless overpressure protective devices are installed on the segment in a manner that will prevent the maximum allowable operating pressure from being exceeded, in accordance with §192.195.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.623	Max./Min. Allowable Operating Pressure - Low Pressure Distribution Systems:				
(a)	No person may operate a low-pressure distribution system at a pressure high enough to make unsafe the operation of any connected and properly adjusted low-pressure gas burning equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	No person may operate a low pressure distribution system at a pressure lower than the minimum pressure at which the safe and continuing operation of any connected and properly adjusted low-pressure gas burning equipment can be assured.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.13(c)	PRESSURE TEST PROCEDURES	S	U	N/A	N/C
.503	Pressure testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

.605(b)(1)	ODORIZATION OF GAS PROCEDURES	S	U	N/A	N/C
	.625 (a) Distribution lines must contain odorized gas – must be readily detectable by person with normal sense of smell at one-fifth of the Lower Explosive Limit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	TAPPING PIPELINES UNDER PRESSURE PROCEDURES	S	U	N/A	N/C
	.627 Hot taps must be made by a qualified crew; nondestructive testing is suggested prior to tapping the pipe (reference API RP 2201 for Best Practices).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	PIPELINE PURGING PROCEDURES	S	U	N/A	N/C
	.629 Purging of pipelines must be done to prevent entrapment of an explosive mixture of gas and air in the pipeline:				
	(a) Lines containing air must be properly purged.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Lines containing gas must be properly purged.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

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CONTROL ROOM MANAGEMENT PROCEDURES (applies to operator with greater than 250,000 services)			S	U	N/A	N/C
.605(b)(12)	.631(a)	.605(b)(12) Each operator must have and follow written control room management procedures. NOTE: <i>An operator must develop the procedures no later than August 1, 2011 and implement the procedures no later than February 1, 2013.</i>				
	.631(b)	The operator's program must define the roles and responsibilities of a controller during normal, abnormal and emergency conditions including a definition of:				
	(1)	Controller's authority and responsibility;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	Controller's role when an abnormal operating condition is detected;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3)	Controller's role during an emergency;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4)	A method of recording shift change responsibilities between controllers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.631(c)	The operator's program must provide its controllers with the information, tools, processes and procedures necessary to perform each of the following:				
	(1)	Implement sections 1, 4, 8, 9, 11.2 and 11.3 of API RP 1165 whenever a SCADA system is added, expanded or replaced;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	Conduct point-to-point verification between SCADA displays and related equipment when changes that affect pipeline safety are made;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3)	Test and verify any internal communications plan – at least once a year NTE 15 months;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4)	Test any backup SCADA system at least once each year but NTE 15 months;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5)	Establish and implement procedures for when a different controller assumes responsibility.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.631(d)	Each operator must implement and follow methods to reduce the risk associated with controller fatigue, including:				
	(1)	Establishing shift lengths and schedule rotations that provide time sufficient to achieve eight hours of continuous sleep;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	Educating controllers and supervisors in fatigue mitigation strategies;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3)	Training of controllers and supervisors to recognize the effects of fatigue;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4)	Establishing a maximum limit on controller hours-of-service.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.631(e)	Each operator must have a written alarm management plan including these provisions:				
	(1)	Reviewing alarms using a process that ensures that they are accurate and support safe operations;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	Identifying at least once a year, points that have been taken off SCADA scan or have had alarms inhibited, generated false alarms, or have had forced or manual values for periods of time exceeding that required for maintenance activities;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3)	Verifying the alarm set-point values and alarm descriptions once each year NTE 15 months;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4)	Reviewing the alarm management plan at least once every calendar year NTE 15 months;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5)	Monitoring the content and volume of activity being directed to and required of each controller once each year NTE 15 months;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(6)	Addressing deficiencies identified through implementation of 1-5 of this section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.631(f)	Each operator must assure that changes that could affect control room operations are coordinated with the control room personnel by performing the following:				
	(1)	Establishing communications between controllers, management and field personnel when implementing physical changes to the pipeline;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	Requiring field personnel to contact the control room when emergency conditions exist and when field changes could affect control room operations;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3)	Seeking control room or management participation in planning prior to implementation of significant pipeline changes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.631(g)	Each operator must assure that lessons learned from its experience are incorporated into its procedures by performing the following:					
(1)	Reviewing reportable incidents to determine if control room actions contributed to the event and correcting any deficiencies;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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CONTROL ROOM MANAGEMENT PROCEDURES (applies to operator with greater than 250,000 services)		S	U	N/A	N/C
	(2) Including lessons learned from the operator’s training program required by this section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.631(h)	Each operator must establish a controller training program and review its contents once a year NTE 15 months which includes the following elements:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) Responding to abnormal operating conditions;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Using a computerized simulator or other method for training controllers to recognize abnormal operating conditions;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Training controllers on their responsibilities for communication under the operator’s emergency response procedures;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Training that provides a working knowledge of the pipeline system, especially during abnormal operating conditions;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5) Providing an opportunity for controllers to review relevant procedures for infrequently used operating setups.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	MAINTENANCE PROCEDURES	S	U	N/A	N/C
	.703(b) Each segment of pipeline that becomes unsafe must be replaced, repaired, or removed from service.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) Hazardous leaks must be repaired promptly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	LINE MARKER PROCEDURES	S	U	N/A	N/C
	.707(a) Line markers installed for buried mains:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) At each crossing of a public road and railroad in class 1 or 2 location	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Wherever necessary to identify the location of the main to reduce possibility of damage or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)(1) At each crossing of a public road and railroad in class 3 or 4 where a damage prevention program is not in effect.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) For each above ground main in area accessible to the public.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d) The following written legibly on a background of sharply contrasting color:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d)(1) The word “Warning”, “Caution”, or “Danger” followed by “Gas” or name of gas transported in letters at least 1 inch high with ¼ inch stroke except in heavily developed urban areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d)(2) The name of the operator and telephone number (including area code) where operator can be reached at all times.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

	DISTRIBUTION SYSTEM PATROLLING & LEAKAGE SURVEY PROCEDURES	S	U	N/A	N/C
.605(b)(1)	.721(a) Frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage (i.e., consider cast iron, weather conditions, known slip areas, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.721(b) Mains in places or on structures where anticipated physical movement or external loading could cause failure or leakage must be patrolled.				
	(b)(1) In business districts at intervals not exceeding 4½ months, but at least four times each calendar year; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)(2) Outside business districts at intervals not exceeding 7½ months, but at least twice each calendar year.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.723(a) & (b) Periodic leak surveys must be conducted determined by the nature of the operations and local conditions but must meet the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)(1) A leakage survey with leak detector equipment must be conducted in business districts, including tests of the atmosphere in gas, electric, telephone, sewer, and water system manholes, at cracks in pavement and sidewalks, and at other locations providing an opportunity for finding gas leaks, at intervals not exceeding 15 months, but at least once each calendar year.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)(2) A leakage survey with leak detector equipment must be conducted outside business districts as frequently as necessary, but at least once every 5 calendar years at intervals not exceeding 63 months. However, for cathodically unprotected distribution lines subject to § 192.465(e) on which electrical surveys for corrosion are impractical, a leakage survey must be conducted at least once every 3 calendar years at intervals not exceeding 39 months.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

.605(b)(1)	TEST REQUIREMENTS FOR REINSTATING SERVICE LINE PROCEDURES	S	U	N/A	N/C
	.725(a) Except for .725(b), disconnected service lines must be tested the same as a new service line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Service lines that are temporarily disconnected must be tested from the point of disconnection to the service line valve, the same as a new service line, before reconnecting. If provisions are made to maintain continuous service, such as by installation of a bypass, any part of the original service line used to maintain continuous service need not be tested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	ABANDONMENT OR DEACTIVATION OF FACILITIES' PROCEDURES	S	U	N/A	N/C
	.727(b) Each pipeline abandoned in place must be disconnected from all sources and supplies of gas; purged of gas; in the case of offshore pipelines, filled with water or inert materials; and sealed at the ends. However, the pipeline need not be purged when the volume of gas is so small that there is no potential hazard.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) Except for service lines, each inactive pipeline that is not being maintained under Part 192 must be disconnected from all gas sources/supplies, purged and sealed at each end. However, the pipeline need not be purged when the volume of gas is so small that there is no potential hazard.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.605(b)(1)	PRESSURE LIMITING AND REGULATING STATION PROCEDURES	S	U	N/A	N/C
	.743 Testing of Relief Devices:				
	(a) Pressure relief devices at pressure limiting stations and pressure regulating stations must have sufficient capacity to protect the facilities to which they are connected. Except as provided in §192.739(b), the capacity must be consistent with the pressure limits of §192.201(a). This capacity must be determined at intervals not exceeding 15 months, but at least once each calendar year, by testing the devices in place or by review and calculations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) If review and calculations are used to determine if a device has sufficient capacity, the calculated capacity must be compared with the rated or experimentally determined relieving capacity of the device for the conditions under which it operates. After the initial calculations, subsequent calculations need not be made if the annual review documents that parameters have not changed to cause the rated or experimentally determined relieving capacity to be insufficient.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) If a relief device is of insufficient capacity, a new or additional device must be installed to provide the capacity required by paragraph (a) of this section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	VALVE AND VAULT MAINTENANCE PROCEDURES	S	U	N/A	N/C
	Distribution Valves				
	.747(a) Check and service each valve that may be necessary for the safe operation of a distribution system (1 per yr/15 months).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Prompt remedial action required, or designate alternative valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	VAULT INSPECTION PROCEDURES	S	U	N/A	N/C
	.749 Inspection of vaults greater than 200 cubic feet and housing pressure regulating or limiting devices (1 per yr NTE 15 months).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

.605(b)(1)	PREVENTION OF ACCIDENTAL IGNITION PROCEDURES	S	U	N/A	N/C
	.751 Reduce the hazard of fire or explosion by:				
	(a) Removal of ignition sources in presence of gas and providing for a fire extinguisher;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Prevent welding or cutting on a pipeline containing a combustible mixture;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) Post warning signs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	CAULKED BELL AND SPIGOT JOINTS PROCEDURES	S	U	N/A	N/C
	.753 Cast-iron caulked bell and spigot joint repair:				
	(a) When subject to more than 25 psig, sealed with mechanical clamp, or sealed with material/device which does not reduce flexibility, permanently bonds, and seals and bonds as prescribed in §192.753(a)(2)(iii).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) When subject to 25 psig or less, joints, when exposed for any reason, must be sealed by means other than caulking.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

.605(b)(1)	PROTECTING CAST-IRON PIPELINE PROCEDURES	S	U	N/A	N/C
	.755(a) Operator has knowledge that the support for a segment of a buried cast-iron pipeline is disturbed must provide protection.				
	(1) Vibrations from heavy construction equipment, trains, trucks, buses or blasting?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Impact forces by vehicles?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Earth movement?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Apparent future excavations near the pipeline; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5) Other foreseeable outside forces which might subject the segment of pipeline to a bending stress.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Provide permanent protection for the disturbed section as soon as feasible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.605(b)(1)	WELDING AND WELD DEFECT REPAIR/REMOVAL PROCEDURES	S	U	N/A	N/C
(b)	Welds on pipelines to be operated at 20% or more of specified minimum yield strength must be nondestructively tested in accordance with §192.243 except welds that are visually inspected and approved by a qualified welding inspector if:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(1)	The nominal pipe diameter is less than 6 inches , or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	The pipeline is to operate at a pressure that produces a hoop stress of less than 40% of specified minimum yield strength and the welds are so limited in number that nondestructive testing is impractical.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.241(c)	The acceptability of a weld that is nondestructively tested or visually inspected is determined according to the standards in Section 9 of API Std 1104 (incorporated by reference, see §192.7). However, if a girth weld is unacceptable under those standards for a reason other than a crack, and if Appendix A to API Std 1104 applies to the weld, the acceptability of the weld may be further determined under that appendix.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repair and Removal of Weld Defects					
.245(a)	Each weld that is unacceptable must be removed or repaired. Except for offshore pipelines, a weld must be removed if it has a crack that is more than 8% of the weld length.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Each weld that is repaired must have the defect removed down to sound metal, and the segment to be repaired must be preheated if conditions exist which would adversely affect the quality of the weld repair. After repair, the weld must be inspected and found acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Repair of a crack or any other defect in a previously repaired area must be in accordance with a written weld repair procedure, qualified under §192.225.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Note: Sleeve Repairs – use low hydrogen rod (Best Practices –ref. API 1104 App. B, In Service Welding)					

Comments:

.605(b)(1)	NONDESTRUCTIVE TESTING PROCEDURES	S	U	N/A	N/C
.243(a)	Nondestructive testing of welds must be performed by any process, other than trepanning, that clearly indicates defects that may affect the integrity of the weld	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Nondestructive testing of welds must be performed:				
(1)	In accordance with a written procedure, and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	By persons trained and qualified in the established procedures and with the test equipment used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Procedures established for proper interpretation of each nondestructive test of a weld to ensure acceptability of the weld under §192.241(c).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	When nondestructive testing is required under §192.241(b), the following percentage of each day's field butt welds, selected at random by the operator, must be nondestructively tested over the entire circumference.				
(1)	In Class 1 locations at least 10% ;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	In Class 2 locations at least 15% ;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	In Class 3 and 4 locations, at crossings of a major navigable river, offshore, and within railroad or public highway rights-of-way, including tunnels, bridges, and overhead road crossings, 100% unless impractical, then 90% . Nondestructive testing must be impractical for each girth weld not tested;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4)	At pipeline tie-ins, 100% .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e)	Except for a welder whose work is isolated from the principal welding activity, a sample of each welder's work for each day must be nondestructively tested, when nondestructive testing is required under §192.241(b).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f)	Nondestructive testing – the operator must retain, for the life of the pipeline, a record showing by mile post, engineering station, or by geographic feature, the number of welds nondestructively tested, the number of welds rejected, and the disposition of the rejected welds.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

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Comments:

		S	U	N/A	N/C
.605(b)(1)	JOINING OF PIPELINE MATERIALS PROCEDURES				
	.281(a) A plastic pipe joint that is joined by solvent cement, adhesive, or heat fusion may not be disturbed until it has properly set. Plastic pipe may not be joined by a threaded joint or miter joint.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Each solvent cement joint on plastic pipe must comply with the following:				
	(1) The mating surfaces of the joint must be clean, dry, and free of material which might be detrimental to the joint;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) The solvent cement must conform to ASTM Designation: D 2513;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) The joint may not be heated to accelerate the setting of the cement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) Each heat-fusion joint on plastic pipe must comply with the following:				
	(1) A butt heat-fusion joint must be joined by a device that holds the heater element square to the ends of the piping, compresses the heated ends together, and holds the pipe in proper alignment while the plastic hardens;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) A socket heat-fusion joint must be joined by a device that heats the mating surfaces of the joint uniformly and simultaneously to essentially the same temperature;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) An electrofusion joint must be joined utilizing the equipment and techniques of the fittings manufacturer or equipment and techniques shown, by testing joints to the requirements of §192.283(a)(1)(iii), to be at least equivalent to those of the fittings manufacturer;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Heat may not be applied with a torch or other open flame.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d) Each adhesive joint on plastic pipe must comply with the following:				
	(1) The adhesive must conform to ASTM D 2517 (incorporated by reference, see §192.7),	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) The materials and adhesive must be compatible with each other.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e) Each compression type mechanical joint on plastic pipe must comply with the following:				
	(1) The gasket material in the coupling must be compatible with the plastic,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) A rigid internal tubular stiffener, other than a split tubular stiffener, must be used in conjunction with the coupling.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.283(a) Before any written procedure established under §192.273(b) is used for making plastic pipe joints by a heat fusion, solvent cement, or adhesive method, the procedure must be qualified by subjecting specimen joints made according to the procedure to the following tests:				
	(1) The burst test requirements of–				
	(i) Thermoplastic pipe: paragraph 6.6 (Sustained Pressure Test) or paragraph 6.7 (Minimum Hydrostatic Burst Test) of ASTM D2513-99 for plastic materials other than polyethylene or ASTM D2513-09a (incorporated by reference, see §192.7); for polyethylene plastic materials;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(ii) Thermosetting plastic pipe: paragraph 8.5 (Minimum Hydrostatic Burst Pressure) or paragraph 8.9 (Sustained Static Pressure Test) of ASTM D2517; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(iii) Electrofusion fittings for polyethylene pipe and tubing: paragraph 9.1 (Minimum Hydraulic Burst Pressure Test), paragraph 9.2 (Sustained Pressure Test), paragraph 9.3 (Tensile Strength Test), or paragraph 9.4 (Joint Integrity Tests) of ASTM F1055 (incorporated by reference, see § 192.7).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) For procedures intended for lateral pipe connections, subject a specimen joint made from pipe sections joined at right angles according to the procedure to a force on the lateral pipe until failure occurs in the specimen. If failure initiates outside the joint area, the procedure qualifies for use; and,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.605(b)(1)	JOINING OF PIPELINE MATERIALS PROCEDURES	S	U	N/A	N/C
(3)	For procedures intended for non-lateral pipe connections, follow the tensile test requirements of ASTM D638, except that the test may be conducted at ambient temperature and humidity. If the specimen elongates no less than 25 percent or failure initiates outside the joint area, the procedure qualifies for use.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Before any written procedure established under §192.273(b) is used for making mechanical plastic pipe joints that are designed to withstand tensile forces, the procedure must be qualified by subjecting five specimen joints made according to the procedure to the following tensile test:				
(1)	Use an apparatus for the test as specified in ASTM D638 (except for conditioning);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	The specimen must be of such length that the distance between the grips of the apparatus and the end of the stiffener does not affect the joint strength;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	The speed of testing is 0.20 in. (5.0 mm) per minute, plus or minus 25 percent;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4)	Pipe specimens less than 4 inches (102 mm) in diameter are qualified if the pipe yields to an elongation of no less than 25 percent or failure initiates outside the joint area;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(5)	Pipe specimens 4 inches (102 mm) and larger in diameter shall be pulled until the pipe is subjected to a tensile stress equal to or greater than the maximum thermal stress that would be produced by a temperature change of 100° F (38° C) or until the pipe is pulled from the fitting. If the pipe pulls from the fitting, the lowest value of the five test results or the manufacturer's rating, whichever is lower must be used in the design calculations for stress;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(6)	Each specimen that fails at the grips must be retested using new pipe;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(7)	Results pertain only to the specific outside diameter, and material of the pipe tested, except that testing of a heavier wall pipe may be used to qualify pipe of the same material but with a lesser wall thickness.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	A copy of each written procedure being used for joining plastic pipe must be available to the persons making and inspecting joints.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	Pipe or fittings manufactured before July 1, 1980, may be used in accordance with procedures that the manufacturer certifies will produce a joint as strong as the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.285(a)	No person may make a plastic pipe joint unless that person has been qualified under the applicable joining procedure by:				
(1)	Appropriate training or experience in the use of the procedure; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	Making a specimen joint from pipe sections joined according to the procedure that passes the inspection and test set forth in paragraph (b) of this section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	The specimen joint must be:				
(1)	Visually examined during and after assembly or joining and found to have the same appearance as a joint or photographs of a joint that is acceptable under the procedure; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	In the case of a heat fusion, solvent cement, or adhesive joint:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i)	Tested under any one of the test methods listed under §192.283(a) applicable to the type of joint and material being tested;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii)	Examined by ultrasonic inspection and found not to contain flaws that may cause failure; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iii)	Cut into at least three longitudinal straps, each of which is:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(A)	Visually examined and found not to contain voids or discontinuities on the cut surfaces of the joint area; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(B)	Deformed by bending, torque, or impact, and if failure occurs, it must not initiate in the joint area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	A person must be requalified under an applicable procedure, if during any 12-month period that person:				
(1)	Does not make any joints under that procedure; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	Has 3 joints or 3 percent of the joints made, whichever is greater, under that procedure that are found unacceptable by testing under §192.513.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	Each operator shall establish a method to determine that each person making joints in plastic pipelines in the operator's system is qualified in accordance with this section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.287	No person may carry out the inspection of joints in plastic pipes required by §§192.273(c) and 192.285(b) unless that person has been qualified by appropriate training or experience in evaluating the acceptability of plastic pipe joints made under the applicable joining procedure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.605(b)(2)	CORROSION CONTROL PROCEDURES	S	U	N/A	N/C
(e)	If coated pipe is installed by boring, driving, or other similar method, precautions must be taken to minimize damage to the coating during installation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.463(a)	Each cathodic protection system required by this subpart must provide a level of cathodic protection that complies with one or more of the applicable criteria contained in Appendix D of this part. If none of these criteria is applicable, the cathodic protection system must provide a level of cathodic protection at least equal to that provided by compliance with one or more of these criteria.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	If amphoteric metals are included in a buried or submerged pipeline containing a metal of different anodic potential:				
(1)	The amphoteric metals must be electrically isolated from the remainder of the pipeline and cathodically protected, or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	The entire buried or submerged pipeline must be cathodically protected at a cathodic potential that meets the requirements of Appendix D of this part for amphoteric metals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	The amount of cathodic protection must be controlled so as not to damage the protective coating or the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.465(a)	Pipe-to-soil monitoring (1 per yr/15 months) or short sections (10% per year, all in 10 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Rectifier monitoring (6 per yr/2½ months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Interference bond monitoring (as required)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	Prompt remedial action to correct any deficiencies indicated by the monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e)	Electrical surveys (closely spaced pipe to soil) on bare/unprotected lines, cathodically protect active corrosion areas (1 per 3 years/39 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.467(a)	Each buried or submerged pipeline must be electrically isolated from other underground metallic structures, unless the pipeline and the other structures are electrically interconnected and cathodically protected as a single unit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	One or more insulating devices must be installed where electrical isolation of a portion of a pipeline is necessary to facilitate the application of corrosion control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Except for unprotected copper inserted in a ferrous pipe, each pipeline must be electrically isolated from metallic casings that are a part of the underground system. However, if isolation is not achieved because it is impractical, other measures must be taken to minimize corrosion of the pipeline inside the casing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	Inspection and electrical tests must be made to assure that electrical isolation is adequate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e)	An insulating device may not be installed in an area where a combustible atmosphere is anticipated unless precautions are taken to prevent arcing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f)	Where a pipeline is located in close proximity to electrical transmission tower footings, ground cables or counterpoise, or in other areas where fault currents or unusual risk of lightning may be anticipated, it must be provided with protection against damage due to fault currents or lightning, and protective measures must also be taken at insulating devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.469	Sufficient test stations to determine cathodic protection adequacy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.471(a)	Each test lead wire must be connected to the pipeline so as to remain mechanically secure and electrically conductive.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Each test lead wire must be attached to the pipeline so as to minimize stress concentration on the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Each bared test lead wire and bared metallic area at point of connection to the pipeline must be coated with an electrical insulating material compatible with the pipe coating and the insulation on the wire.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.473(a)	Each operator whose pipeline system is subjected to stray currents shall have in effect a continuing program to minimize the detrimental effects of such currents.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Each impressed current type cathodic protection system or galvanic anode system must be designed and installed so as to minimize any adverse effects on existing adjacent underground metallic structures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.475(a)	Proper procedures for transporting corrosive gas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	All removed pipe must be inspected for internal corrosion. If internal corrosion is found:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.605(b)(2)	CORROSION CONTROL PROCEDURES	S	U	N/A	N/C
(b)(1)	The adjacent pipe must be investigated to determine the extent of internal corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)(2)	Replacement must be made to the extent required by the applicable paragraphs of 192.487 or 192.489	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)(3)	Steps must be taken to minimize the internal corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Gas containing more than 0.25 grain of hydrogen sulfide per 100 standard cubic feet (5.8 milligrams/m ³) at standard conditions (4 parts per million) may not be stored in pipe-type or bottle-type holders.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.477	If corrosive gas is being transported, coupons or other suitable means must be used to determine the effectiveness of the steps taken to minimize internal corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.477	Each coupon or other means of monitoring internal corrosion must be checked two times each calendar year, but within interval not exceeding 7 ½ months.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.479(a)	Each pipe exposed to the atmosphere must be cleaned and coated (see exceptions under .479(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Coating material must be suitable for the prevention of atmospheric corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Offshore splash zones and soil-to-air interfaces must be coated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.481(a)	Atmospheric corrosion control monitoring at least once every 3 calendar years, but within intervals not exceeding 15 months.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Special attention required at soil/air interfaces, thermal insulation, under disbonded coating, pipe supports, splash zones, deck penetrations, spans over water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Protection must be provided if atmospheric corrosion is found (per §192.479).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.483(a)	Each segment of metallic pipe that replaces pipe removed from a buried or submerged pipeline because of external corrosion must have a properly prepared surface and must be provided with an external protective coating that meets the requirements of §192.461.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Each segment of metallic pipe that replaces pipe removed from a buried or submerged pipeline because of external corrosion must be cathodically protected in accordance with this subpart.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Except for cast iron or ductile iron pipe, each segment of buried or submerged pipe that is required to be repaired because of external corrosion must be cathodically protected in accordance with this subpart.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.487 (a)	General corrosion. Except for cast iron or ductile iron pipe, each segment of generally corroded distribution line pipe with a remaining wall thickness less than that required for the maximum allowable operating pressure of the pipeline, or a remaining wall thickness less than 30 percent of the nominal wall thickness, must be replaced. However, corroded pipe may be repaired by a method that reliable engineering tests and analyses show can permanently restore the serviceability of the pipe. Corrosion pitting so closely grouped as to affect the overall strength of the pipe is considered general corrosion for the purpose of this paragraph.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Localized corrosion pitting. Except for cast iron or ductile iron pipe, each segment of distribution line pipe with localized corrosion pitting to a degree where leakage might result must be replaced or repaired.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.489 (a)	Each segment of cast iron or ductile iron pipe on which general graphitization is found to a degree where a fracture or any leakage might result, must be replaced.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Each segment of cast iron or ductile iron pipe where localized graphitization is found must be assessed and remediated according to this subpart.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491 (a)	Each operator shall maintain records or maps to show the location of cathodically protected piping, cathodic protection facilities, galvanic anodes, and neighboring structures bonded to the cathodic protection system. Records or maps showing a stated number of anodes, installed in a stated manner or spacing, need not show specific distances to each buried anode.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Each record or map required by paragraph (a) of this section must be retained for as long as the pipeline remains in service.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Each operator shall maintain a record of each test, survey or inspection required by this subpart in sufficient detail to demonstrate the adequacy of corrosion control measures or that a corrosive condition does not exist. These records must be retained for at least 5 years, except that records related to §§192.465(a) and (e) and 192.475(b) must be retained for as long as the pipeline remains in service.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

.801-.809	Subpart N — Qualification of Pipeline Personnel Procedures	S	U	N/A	N/C
	This form does not cover Operator Qualification Refer to OQ Inspection Forms and Protocols (Forms 14&15 OPS Web Site)				

.1001-.1015	Subpart P — Pipeline Integrity Management	S	U	N/A	N/C
	This form does not cover Gas Pipeline Integrity Management Programs				

Subparts A - C	PART 199 – Drug and Alcohol Testing Regulations and Procedures	S	U	N/A	N/C
	This form does not cover Drug & Alcohol Testing & Alcohol Misuse Prevention Programs Use PHMSA Form # 13, PHMSA PHMSA 2008 Drug and Alcohol Program Check				

Comments:

REPORTING RECORDS		S	U	N/A	N/C
191.5	Telephonic reports to NRC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.15/.13	Written incident reports; supplemental incident reports (Form F 7100.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.11	Annual reports (Forms 7100.1-1, 7100.2-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.12	Mechanical fitting failure reports (Forms 7100.1-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.25	Safety-related condition reports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.16	Customer notification (Verification – 90 days – and Elements)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.727(g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

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CORROSION CONTROL RECORDS			S	U	N/A	N/C
.491	.491(a)	Maps or records showing the location of cathodically protected in service piping.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.491(a)	Maps or records showing the location of cathodic protection facilities (retifiers/test stations).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.491(a)	Maps or records showing the location of galvanic anodes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.491(a)	Maps or records showing the location of bonded structures to the cathodic protection system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.603(b)	.453	Qualification records of person directing the design, installation, operation, and maintenance of cathodic protection systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.459	Examination of buried pipe when exposed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.465(a)	Annual pipe-to-soil monitoring (1 per yr/15 months) for short sections of main less than 100 feet and separately protected service lines (10% per year; all in 10 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.465(b)	Rectifier monitoring (6 per yr/2½ months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.465(c)	Interference bond monitoring – Critical (6 per yr/2½ months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.465(c)	Interference bond monitoring – Non-critical (1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.465(d)	Prompt remedial actions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.465(e)	Unprotected pipeline surveys, cathodic protection active corrosion areas (1 per 3 cal yr/39 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.467(d)	Electrical isolation (including casings)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.469	Test stations – Record demonstrating sufficient number of test stations exist to determine adequacy of cathodic protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.471(a)	Test lead maintenance – Record demonstrating test leads are electrically conductive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.473(a)	Interference currents – Record of program to minimize detrimental effects of stray currents if pipeline is subject to them.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.475(a)	Internal corrosion; corrosive gas investigation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.475(b)	Internal corrosion; internal surface inspection; pipe replacement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.477	Internal corrosion control coupon monitoring (2 per yr/7½ months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.481	Atmospheric corrosion control monitoring (1 per 3 calendar yr/39 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.491	.483	Remedial: replaced or repaired pipe; coated and protected; corrosion evaluation and actions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

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PRESSURE TEST RECORDS			S	U	N/A	N/C
.507	.507	Except for service lines and plastic pipelines, each segment of pipeline that is to be operated at a hoop stress less than 30 percent of Specified Minimum Yield Strength and at or above 100 psig must be tested with the following:				
	.507(a)	Test Procedure that will ensure discovery of all potentially hazardous leaks in segment tested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	If during the test, the segment is stressed to 20 percent or more of Specified Minimum Yield Strength and natural gas, inert gas, or air is the test medium:				
	(1)	A leak test must be made at a pressure between 100 psig and the pressure required to produce a hoop stress of 20 percent of Specified Minimum Yield Strength; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	The line must be walked to check for leaks will hoop stress is held at 20 percent of Specified Minimum Yield Strength.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	The pressure must be maintained at or above the test pressure for at least 1 hour.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.509	.509	Except for service lines and plastic pipelines, each segment of a pipeline that is to be operated below 100 psig must be leak tested in accordance with the following:				
	.509(a)	The test procedure used must ensure discovery of all potentially hazardous leaks in the segment being tested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Each main that is to be operated at less than 1 psig must be tested to at least 10 psig and each main to be operated at or above 1 psig must be tested to at least 90 psig.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.511	.511(a)	Each segment of service line (other than plastic) must be leak tested in accordance with this section before being placed into service. If feasible, the service-line connection to the main must be included in the test; if not feasible, it must be given a leakage test at the operating pressure when placed in service.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Each segment of a service line (other than plastic) intended to be operated at a pressure of at least 1 psig but not more than 40 psig must be given a leak test at a pressure of not less than 50 psig.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Each segment of a service line (other than plastic) intended to be operated at pressures of more than 40 psig must be tested to at least 90 psig, except that each segment of the steel service line stressed to 20 percent or more of Specified Minimum Yield Strength must be tested in accordance with 192.507 of this subpart.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.513	.513(a)	Each segment of plastic pipeline must be tested in accordance with:				
	(b)	The test procedure must insure discovery of all potentially hazardous leaks in the segment being tested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	The test pressure must be at least 150 percent of the maximum operating pressure or 50 psig, whichever is greater. However, the maximum test pressure may not be more than three times the pressure determined under 192.121, at a temperature not less than the pipe temperature during the test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d)	During the test, the temperature of the thermoplastic material may not be more than 100 degrees Fahrenheit or the temperature at which the material's long-term hydrostatic strength has been determined under the listed specification, whichever is greater.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.517	.517(a)	Each operator shall make, and retain for the useful life of the pipeline, a record of each test performed under 192.505 and 192.507. The record must contain the following information:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1)	The operators name, the name of the operator's employee responsible for making the test, and the name of any test company used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2)	Test medium used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3)	Test pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4)	Test duration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5)	Pressure recording charts, or other record of pressure readings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(6)	Elevation variations, whenever significant for the particular test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(7)	Leaks and failures noted and their disposition.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.517(b)	(b)	Each operator must maintain a record of each test required by 192.509, 192.511, 192.513 for at least 5 years.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Comments:

UPRATING RECORDS		S	U	N/A	N/C
.553(a)	Pressure increases. Whenever the requirements of this subpart require that an increase in operating pressure be made in increments, the pressure must be increased gradually, at a rate that can be controlled, and in accordance with the following:				
	(1) At the end of each incremental increase, the pressure must be held constant while the entire segment of the pipeline that is affected is checked for leaks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Each leak detected must be repaired before a further pressure increase is made, except that a leak determined not to be potentially hazardous need not be repaired, if it is monitored during the pressure increase and it does not become potentially hazardous.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.553(b)	Records. Each operator who uprates a segment of pipeline shall retain for the life of the segment a record of each investigation required by this subpart, of all work performed, and of each pressure test conducted, in connection with the uprating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.553(c)	Written plan. Each operator who uprates a segment of pipeline shall establish a written procedure that will ensure that each applicable requirement of this subpart is complied with.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.553(d)	Limitation on increase in maximum allowable operating pressure. Except as provided in §192.555 (c), a new maximum allowable operating pressure established under this subpart may not exceed the maximum that would be allowed under §§ 192.619 and 192.621 for a new segment of pipeline constructed of the same materials in the same location. However, when uprating a steel pipeline, if any variable necessary to determine the design pressure under the design formula (§192.105) is unknown, the MAOP may be increased as provided in §192.619(a)(1).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.557(a)	Unless the requirements of this section have been met, no person may subject:				
	(1) A segment of steel pipeline to an operating pressure that will produce a hoop stress less than 30 percent of SMYS and that is above the previously established maximum allowable operating pressure; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) A plastic, cast iron, or ductile iron pipeline segment to an operating pressure that is above the previously established maximum allowable operating pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.557(b)	Before increasing operating pressure above the previously established maximum allowable operating pressure, the operator shall:				
	(1) Review the design, operating, and maintenance history of the segment of pipeline;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Make a leakage survey (if it has been more than 1 year since the last survey) and repair any leaks that are found, except that a leak determined not to be potentially hazardous need not be repaired, if it is monitored during the pressure increase and it does not become potentially hazardous;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Make any repairs, replacements, or alterations in the segment of pipeline that are necessary for safe operation at the increased pressure;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Reinforce or anchor offsets, bends and dead ends in pipe joined by compression couplings or bell spigot joints to prevent failure of the pipe joint, if the offset, bend, or dead end is exposed in an excavation;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	(5) Isolate the segment of pipeline in which the pressure is to be increased from any adjacent segment that will continue to be operated at a lower pressure; and,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(6) If the pressure in main or service lines, or both, is to be higher than the pressure delivered to the customer, install a service regulator on each service line and test each regulator to determine that it is functioning. Pressure may be increased as necessary to test each regulator, after a regulator has been installed on each pipeline subject to the increased pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.557(c)	After complying with paragraph (b) of this section, the increase in maximum allowable operating pressure must be made in increments that are equal to 10 p.s.i. (69 kPa) gage or 25 percent of the total pressure increase, whichever produces the fewer number of increments. Whenever the requirements of paragraph (b)(6) of this section apply, there must be at least two approximately equal incremental increases.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.557(d)	If records for cast iron or ductile iron pipeline facilities are not complete enough to determine stresses produced by internal pressure, trench loading, rolling loads, beam stresses, and other bending loads, in evaluating the level of safety of the pipeline when operating at the proposed increased pressure, the following procedures must be followed:				
	(1) In estimating the stress, if the original laying conditions cannot be ascertained, the operator shall assume that cast iron pipe was supported on blocks with tamped backfill and that ductile iron pipe was laid without blocks with tamped backfill.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Unless the actual maximum cover depth is known, the operator shall measure the actual cover in at least three places where the cover is most likely to be greatest and shall use the greatest cover measured.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Unless the actual nominal wall thickness is known, the operator shall determine the wall thickness by cutting and measuring coupons from at least three separate pipe lengths of pipeline. The coupons must be cut from pipe lengths in areas where the cover depth is most likely to be the greatest. The average of all measurements taken must be increased by the allowance indicated in the following table:				
	Allowance (inches)				
	Pipe size	Cast Iron Pipe	Ductile iron Pipe		
	(inches)/(millimeters)	Pit cast pipe	Centrifugally cast pipe		
	3 to 8/(76 to 203)	0.075/(1.91)	0.065/(1.65)	0.065/(1.65)	
	10 to 12/(254 to 305)	0.08/(2.03)	0.07/(1.78)	0.07/(1.78)	
	14 to 24/(356 to 610)	0.08/(2.03)	0.08/(2.03)	0.075/(2.03)	
	30 to 42/(762 to 1067)	0.09/(2.29)	0.09/(2.29)	0.075/(1.91)	
	48/(1219)	0.09/(2.29)	0.09/(2.29)	0.08/(2.03)	
	54 to 60/(1372 to 1524)	0.09/(2.29)			

OPERATIONS AND MAINTENANCE RECORDS			S	U	N/A	N/C
.603(b)	.605(a)	Procedural Manual Review – Operations and maintenance (1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.605(b)(3)	Availability of construction records, maps, operating history to operating personnel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.605(b)(8)	Periodic review of personnel work – effectiveness of normal Operations and maintenance procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.605(c)(4)	Periodic review of personnel work – effectiveness of abnormal operation procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.603(b)	.614	Damage Prevention (Miscellaneous)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.609	Class Location Study (If Applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.615(b)(1)	Location Specific Emergency Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.615(b)(2)	Emergency Procedure training, verify effectiveness of training	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.615(b)(3)	Employee Emergency activity review, determine if procedures were followed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	.615(c)	Liaison Program with Public Officials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	.616	Public Awareness Program – Use Public Awareness Form 21 (Unless Inspecting Master Meter or petroleum gas system)																
	.616(g)	The program must be conducted in English and any other languages commonly understood by a significant number of the population in the operator's area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.616(h)	Effectiveness review of operator's program.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.616(j)	Operators of a master meter or petroleum gas systems - 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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.617	Failure investigation reports (Note: Also include reported third-party damage and leak response records. NTSB B.10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
.709	.619 .621 .623	Maximum allowable operating pressure Note: New PA-11 design criteria is incorporated into §§192.121 & .123. (Final Rule Pub. 24 December, 2008)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.625	Odorization of gas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.705	Patrolling (Refer to Table Below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Class Location</th> <th style="width: 30%;">At Highway and Railroad Crossings</th> <th style="width: 35%;">At All Other Places</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 and 2</td> <td style="text-align: center;">2/yr (7½ months)</td> <td style="text-align: center;">1/yr (15 months)</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">4/yr (4½ months)</td> <td style="text-align: center;">2/yr (7½ months)</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">4/yr (4½ months)</td> <td style="text-align: center;">4/yr (4½ months)</td> </tr> </tbody> </table>							Class Location	At Highway and Railroad Crossings	At All Other Places	1 and 2	2/yr (7½ months)	1/yr (15 months)	3	4/yr (4½ months)	2/yr (7½ months)	4	4/yr (4½ months)	4/yr (4½ months)
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)																
.709	.706	Leak surveys (Refer to Table Below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Class Location</th> <th style="width: 30%;">Required</th> <th style="width: 35%;">Not Exceed</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1 and 2</td> <td style="text-align: center;">1/yr</td> <td style="text-align: center;">15 months</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">2/yr*</td> <td style="text-align: center;">7½ months</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">4/yr*</td> <td style="text-align: center;">4½ months</td> </tr> </tbody> </table> <p>* Leak detector equipment survey required for lines transporting un-odorized gas.</p>							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																
.603(b)	.721(b)(1)	Patrolling business district (4 per yr/4½ months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.721(b)(2)	Patrolling outside business district (2 per yr/7½ months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.723(b)(1)	Leakage survey – business district (1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.723(b)(2)	Leakage survey																
		▪ Outside business district (5 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
		▪ Cathodically unprotected distribution lines (3 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.725	Tests for reinstating service lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
.603b/.727g	.727	Abandoned pipelines; underwater facility reports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
.709	.739	Pressure limiting and regulating stations (1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.743	Pressure limiting and regulator stations – Capacity (1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.745	Valve maintenance transmission lines (1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
.603(b)	.747	Valve maintenance distribution lines (1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
.709	.749	Vault maintenance (200 cubic feet)(1 per yr/15 months)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
.603(b)	.751	Prevention of accidental ignition (hot work permits)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.755	Caulked bell and spigot joint repair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.225(b)	Welding – Procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.227/.229	Welding – Welder qualification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.243(b)(2)	Nondestructive testing – Nondestructive testing personnel qualification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.283	Joining - Procedures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.285	Joining - Personnel qualifications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
	.287	Joining - Inspector qualifications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												

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.709	.243(f)	Nondestructive testing records (Pipeline Life)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Repair: pipe (Pipeline Life); other than pipe (5 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

PIPELINE FIELD INSPECTION		S	U	N/A	N/C
	Except as provided in paragraph (d) of this section, each valve, fitting, length of pipe, and other component must be marked--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.63(a)	(1) As prescribed in the specification or standard to which it was manufactured, except that thermoplastic fittings must be marked in accordance with ASTM D2513-87 (incorporated by reference, see § 192.7);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) To indicate size, material, manufacturer, pressure rating, and temperature rating, and as appropriate, type, grade, and model.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.63(b)	Surfaces of pipe and components that are subject to stress from internal pressure may not be field die stamped.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.63(c)	If any item is marked by die stamping, the die must have blunt or rounded edges that will minimize stress concentration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.181(a)	Each high-pressure distribution system must have valves spaced so as to reduce the time to shut down a section of main in an emergency. The valve spacing is determined by the operating pressure, the size of the mains, and the local physical conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.181(b)	Each regulator station controlling the flow or pressure of gas in a distribution system must have a valve installed on the inlet piping at a distance from the regulator station sufficient to permit the operation of the valve during an emergency that might preclude access to the station.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.181(c)	Each valve on a main installed for operating or emergency purposes must comply with the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) The valve must be placed in a readily accessible location so as to facilitate its operation in an emergency.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) The operating stem or mechanism must be readily accessible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) If the valve is installed in a buried box or enclosure, the box or enclosure must be installed so as to avoid transmitting external loads to the main.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.353(a)	Meter and Service Regulator installed in accessible location and protected from corrosion and other damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.353(b)	Each Service Regulator installed within a building must be located as near as practical to the point of service line entrance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.353(c)	Each meter installed within a building must be located in a ventilated place and not less than 3 feet from any source of ignition or any source of heat which might damage the meter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.353(d)	Where feasible, the upstream regulator in a series must be located outside the building unless it is located in a separate metering or regulating building.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.355(a)	If the customer's equipment might create either a vacuum or a back pressure, a device must be installed to protect the system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.355(b)	Service regulator vents and relief vents. Service regulator vents and relief vents must terminate outdoors, and the outdoor terminal must:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) Be rain and insect resistant;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Be located at a place where gas from the vent can escape freely into the atmosphere and away from any opening into the building; and,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Be protected from damage caused by submergence in areas where flooding may occur.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.355(c)	Pits and vaults. Each pit or vault that houses a customer meter or regulator at a place where vehicular traffic is anticipated, must be able to support that traffic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.357(a)	Each meter and each regulator must be installed so as to minimize anticipated stresses upon the connecting piping and the meter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.357(b)	When close all-thread nipples are used, the wall thickness remaining after the threads are cut must meet the minimum wall thickness requirements of this part.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.357(c)	Connections made of lead or other easily damaged material may not be used in the installation of meters or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

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PIPELINE FIELD INSPECTION		S	U	N/A	N/C
	regulators.				
.357(d)	Each regulator that might release gas in its operation must be vented to the outside atmosphere.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.359(a)	A meter may not be used at a pressure that is more than 67 percent of the manufacturer's shell test pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.359(b)	Each newly installed meter manufactured after November 12, 1970, must have been tested to a minimum of 10 p.s.i. (69 kPa) gage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.359(c)	A rebuilt or repaired tinned steel case meter may not be used at a pressure that is more than 50 percent of the pressure used to test the meter after rebuilding or repairing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(a)	Depth. Each buried service line must be installed with at least 12 inches (305 millimeters) of cover in private property and at least 18 inches (457 millimeters) of cover in streets and roads. However, where an underground structure prevents installation at those depths, the service line must be able to withstand any anticipated external load.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(b)	Support and backfill. Each service line must be properly supported on undisturbed or well-compacted soil, and material used for backfill must be free of materials that could damage the pipe or its coating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(c)	Grading for drainage. Where condensate in the gas might cause interruption in the gas supply to the customer, the service line must be graded so as to drain into the main or into drips at the low points in the service line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(d)	Protection against piping strain and external loading. Each service line must be installed so as to minimize anticipated piping strain and external loading.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(e)	Installation of service lines into buildings. Each underground service line installed below grade through the outer foundation wall of a building must:				
	(1) In the case of a metal service line, be protected against corrosion;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) In the case of a plastic service line, be protected from shearing action and backfill settlement; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(f)	(3) Be sealed at the foundation wall to prevent leakage into the building.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Installation of service lines under buildings. Where an underground service line is installed under a building:				
	(1) It must be encased in a gas-tight conduit;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(g)	(2) The conduit and the service line must, if the service line supplies the building it underlies, extend into a normally usable and accessible part of the building; and,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) The space between the conduit and the service line must be sealed to prevent gas leakage into the building and, if the conduit is sealed at both ends, a vent line from the annular space must extend to a point where gas would not be a hazard, and extend above grade, terminating in a rain and insect resistant fitting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.361(g)	Locating underground service lines. Each underground nonmetallic service line that is not encased must have a means of locating the pipe that complies with §192.321(e).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.363(a)	Each service line must have a service-line valve meeting the applicable requirements of Subparts B and D of this part. A valve in a meter bar, that allows the meter to be bypassed, may not be used as a service-line valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.363(b)	A soft seat service line valve may not be used if its ability to control the flow of gas could be adversely affected by exposure to anticipated heat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.363(c)	Each service-line valve on a high-pressure service line, installed aboveground or in an area where the blowing of gas would be hazardous, must be designed and constructed to minimize the possibility of the removal of the core of the valve with other than specialized tools.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.365(a)	Relation to regulator or meter. Each service-line valve must be installed upstream of the regulator or, if there is no regulator, upstream of the meter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.365(b)	Outside valves. Each service line must have a shutoff valve in a readily accessible location that, if feasible, is outside of the building.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.365(c)	Underground valves. Each underground service-line valve must be located in a covered durable curb box or standpipe that allows ready operation of the valve and is supported independently of the service lines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.367(a)	Location. Each service line connection to a main must be located at the top of the main or, if that is not practical, at the side of the main, unless a suitable protective device is installed to minimize the possibility of dust and moisture being carried from the main into the service line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.367(b)	Compression-type connection to main. Each compression-type service line to main connection must:				
	(1) Be designed and installed to effectively sustain the longitudinal pullout or thrust forces caused by contraction or expansion of the piping, or by anticipated external or internal loading; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) If gaskets are used in connecting the service line to the main connection fitting, have gaskets that are compatible with the kind of gas in the system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.369(a)	Each service line connected to a cast iron or ductile iron main must be connected by a mechanical clamp, by drilling and tapping the main, or by another method meeting the requirements of §192.273.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.369(b)	If a threaded tap is being inserted, the requirements of §192.151(b) and (c) must also be met.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.371	Each steel service line to be operated at less than 100 p.s.i. (689 kPa) gage must be constructed of pipe designed for	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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PIPELINE FIELD INSPECTION		S	U	N/A	N/C
	a minimum of 100 p.s.i. (689 kPa) gage.				
.373(a)	Cast or ductile iron pipe less than 6 inches (152 millimeters) in diameter may not be installed for service lines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.373(b)	If cast iron pipe or ductile iron pipe is installed for use as a service line, the part of the service line which extends through the building wall must be of steel pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.373(c)	A cast iron or ductile iron service line may not be installed in unstable soil or under a building.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.375(a)	Each plastic service line outside a building must be installed below ground level, except that -				
	(1) It may be installed in accordance with §192.321(g); and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.375(a)(2)	A plastic service line may terminate above ground level and outside the building, if-				
	(i) The above ground level part of the plastic service line is protected against deterioration and external damage; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(ii) The plastic service line is not used to support external loads.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.375(b)	Each plastic service line inside a building must be protected against external damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.377	Each copper service line installed within a building must be protected against external damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.379	Each service line that is not placed in service upon completion of installation must comply with one of the following until the customer is supplied with gas:				
.379(a)	The valve that is closed to prevent the flow of gas to the customer must be provided with a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.379(b)	A mechanical device or fitting that will prevent the flow of gas must be installed in the service line or in the meter assembly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.379(c)	The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.381(c)	An operator must mark or otherwise identify the presence of an excess flow valve on the service line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.381(d)	An operator shall locate an excess flow valve as near as practical to the fitting connecting the service line to its source of gas supply.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.381(e)	An operator should not install an excess flow valve on a service line where the operator has prior experience with contaminants in the gas stream, where these contaminants could be expected to cause the excess flow valve to malfunction or where the excess flow valve would interfere with necessary operation and maintenance activities on the service, such as blowing liquids from the line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.461(d)	Each external protective coating must be protected from damage resulting from adverse ditch conditions or damage from supporting blocks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.463(a)	Each cathodic protection system required by this subpart must provide a level of cathodic protection that complies with one or more of the applicable criteria contained in Appendix D of this part. If none of these criteria is applicable, the cathodic protection system must provide a level of cathodic protection at least equal to that provided by compliance with one or more of these criteria.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.463(b)	If amphoteric metals are included in a buried or submerged pipeline containing a metal of different anodic potential-				
	(1) The amphoteric metals must be electrically isolated from the remainder of the pipeline and cathodically protected; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) The entire buried or submerged pipeline must be cathodically protected at a cathodic potential that meets the requirements of Appendix D of this part for amphoteric metals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.463(c)	The amount of cathodic protection must be controlled so as not to damage the protective coating or the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.465	Check Rectifiers to see they are operating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.467(a)	Each buried or submerged pipeline must be electrically isolated from other underground metallic structures, unless the pipeline and the other structures are electrically interconnected and cathodically protected as a single unit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.467(b)	One or more insulating devices must be installed where electrical isolation of a portion of a pipeline is necessary to facilitate the application of corrosion control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.467(c)	Except for unprotected copper inserted in a ferrous pipe, each pipeline must be electrically isolated from metallic casings that are a part of the underground system. However, if isolation is not achieved because it is impractical, other measures must be taken to minimize corrosion of the pipeline inside the casing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.467(e)	An insulating device may not be installed in an area where a combustible atmosphere is anticipated unless precautions are taken to prevent arcing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.467(f)	Where a pipeline is located in close proximity to electrical transmission tower footings, ground cables or counterpoise, or in other areas where fault currents or unusual risk of lightning may be anticipated, it must be provided with protection against damage due to fault currents or lightning, and protective measures must also be taken at insulating devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.469	Each pipeline under cathodic protection required by this subpart must have sufficient test stations or other contact points for electrical measurement to determine the adequacy of cathodic protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.471(a)	Each test lead wire must be connected to the pipeline so as to remain mechanically secure and electrically conductive.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.473(a)	Each operator whose pipeline system is subjected to stray currents shall have in effect a continuing program to minimize the detrimental effects of such currents.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.473(b)	Each impressed current type cathodic protection system or galvanic anode system must be designed and installed so as to minimize any adverse effects on existing adjacent underground metallic structures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.475(a)	Corrosive gas may not be transported by pipeline, unless the corrosive effect of the gas on the pipeline has been investigated and steps have been taken to minimize internal corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.475(c)	Gas containing more than 0.25 grain of hydrogen sulfide per 100 standard cubic feet (5.8 milligrams/m ³) at standard conditions (4 parts per million) may not be stored in pipe-type or bottle-type holders.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.477	If corrosive gas is being transported, coupons or other suitable means must be used to determine the effectiveness of the steps taken to minimize internal corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.479(a)	Each operator must clean and coat each pipeline or portion of pipeline that is exposed to the atmosphere, except pipelines under paragraph (c) of this section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.479(b)	Coating material must be suitable for the prevention of atmospheric corrosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.487(a)	General corrosion. Except for cast iron or ductile iron pipe, each segment of generally corroded distribution line pipe with a remaining wall thickness less than that required for the MAOP of the pipeline, or a remaining wall thickness less than 30 percent of the nominal wall thickness, must be replaced. However, corroded pipe may be repaired by a method that reliable engineering tests and analyses show can permanently restore the serviceability of the pipe. Corrosion pitting so closely grouped as to affect the overall strength of the pipe is considered general corrosion for the purpose of this paragraph.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.487(b)	Localized corrosion pitting. Except for cast iron or ductile iron pipe, each segment of distribution line pipe with localized corrosion pitting to a degree where leakage might result must be replaced or repaired.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.489(a)	General graphitization. Each segment of cast iron or ductile iron pipe on which general graphitization is found to a degree where a fracture or any leakage might result, must be replaced.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.489(b)	Localized graphitization. Each segment of cast iron or ductile iron pipe on which localized graphitization is found to a degree where any leakage might result, must be replaced or repaired, or sealed by internal sealing methods adequate to prevent or arrest any leakage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.625(a)	A combustible gas in a distribution line must contain a natural odorant or be odorized so that at a concentration in air of one-fifth of the lower explosive limit, the gas is readily detectable by a person with a normal sense of smell.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.625(c)	In the concentrations in which it is used, the odorant in combustible gases must comply with the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) The odorant may not be deleterious to persons, materials, or pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) The products of combustion from the odorant may not be toxic when breathed nor may they be corrosive or harmful to those materials to which the products of combustion will be exposed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.625(d)	The odorant may not be soluble in water to an extent greater than 2.5 parts to 100 parts by weight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.625(e)	Equipment for odorization must introduce the odorant without wide variations in the level of odorant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.625(f)	To assure the proper concentration of odorant in accordance with this section, each operator must conduct periodic sampling of combustible gases using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Operators of master meter systems may comply with this requirement by-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) Receiving written verification from their gas source that the gas has the proper concentration of odorant; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Conducting periodic "sniff" tests at the extremities of the system to confirm that the gas contains odorant.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.629(a)	When a pipeline is being purged of air by use of gas, the gas must be released into one end of the line in a moderately rapid and continuous flow. If gas cannot be supplied in sufficient quantity to prevent the formation of a hazardous mixture of gas and air, a slug of inert gas must be released into the line before the gas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.629(b)	When a pipeline is being purged of gas by use of air, the air must be released into one end of the line in a moderately rapid and continuous flow. If air cannot be supplied in sufficient quantity to prevent the formation of a hazardous mixture of gas and air, a slug of inert gas must be released into the line before the air.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.707(a)	Buried pipelines. Except as provided in paragraph (b) of this section, a line marker must be placed and maintained as close as practical over each buried main	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) At each crossing of a public road and railroad; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.707(c)	Pipelines above ground. Line markers must be placed and maintained along each section of a main that is located above ground in an area accessible to the public.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.707(d)	Marker warning. The following must be written legibly on a background of sharply contrasting color on each line marker:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	(1) The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters) stroke.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) The name of the operator and telephone number (including area code) where the operator can be reached at all times.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.739(a)	Each pressure limiting station, relief device (except rupture discs), and Pressure regulating station and its equipment must be subjected at intervals not exceeding 15 months, but at least once each calendar year, to inspections and tests to determine that it is-				
	(1) In good mechanical condition;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Except as provided in paragraph (b) of this section, set to control or relieve at the correct pressure consistent with the pressure limits of §192.201(a); and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.741(a)	Each distribution system supplied by more than one district pressure regulating station must be equipped with telemetering or recording pressure gages to indicate the gas pressure in the district.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.741(b)	On distribution systems supplied by a single pressure regulating station, the operator shall determine the necessity of installing telemetering or recording gages in the district, taking into consideration the number of customers supplied, the operating pressures, the capacity of the installation, and other operating conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.741(c)	If there are indications of abnormally high- or low-pressure, the regulator and the auxiliary equipment must be inspected and the necessary measures employed to correct any unsatisfactory operating conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.747(b)	Each operator must take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.749(a)	Each vault housing pressure regulating and pressure limiting equipment, and having a volumetric internal content of 200 cubic feet (5.66 cubic meters) or more, must be inspected at intervals not exceeding 15 months, but at least once each calendar year, to determine that it is in good physical condition and adequately ventilated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.749(b)	If gas is found in the vault, the equipment in the vault must be inspected for leaks, and any leaks found must be repaired.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.749(c)	The ventilating equipment must also be inspected to determine that it is functioning properly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.749(d)	Each vault cover must be inspected to assure that it does not present a hazard to public safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.751	Each operator shall take steps to minimize the danger of accidental ignition of gas in any structure or area where the presence of gas constitutes a hazard of fire or explosion, including the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(a) When a hazardous amount of gas is being vented into open air, each potential source of ignition must be removed from the area and a fire extinguisher must be provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Gas or electric welding or cutting may not be performed on pipe or on pipe components that contain a combustible mixture of gas and air in the area of work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) Post warning signs, where appropriate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.753(a)	Each cast iron caulked bell and spigot joint that is subject to pressures of more than 25 psi (172kPa) gage must be sealed with:				
	(1) A mechanical leak clamp; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) A material or device which:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(i) Does not reduce the flexibility of the joint;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(ii) Permanently bonds, either chemically or mechanically, or both, with the bell and spigot metal surfaces or adjacent pipe metal surfaces; and,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(iii) Seals and bonds in a manner that meets the strength, environmental, and chemical compatibility requirements of §§192.53 (a) and (b) and 192.143.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.753(b)	Each cast iron caulked bell and spigot joint that is subject to pressures of 25 psi (172kPa) gage or less and is exposed for any reason must be sealed by a means other than caulking.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.755	When an operator has knowledge that the support for a segment of a buried cast-iron pipeline is disturbed:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(a) That segment of the pipeline must be protected, as necessary, against damage during the disturbance by:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) Vibrations from heavy construction equipment, trains, trucks, buses, or blasting;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Impact forces by vehicles;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Earth movement;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Apparent future excavations near the pipeline; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

Unless otherwise noted, all code references are to 49 CFR 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:

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

Attachment 1

Distribution Operator Compressor Station Inspection

Unless otherwise noted, all code references are to 49 CFR 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 STATIONS INSPECTION (Field)		S	U	N/A	N/C
(Note: Facilities may be “Grandfathered”)					
.163	(c) Main operating floor must have (at least) two (2) separate and unobstructed exits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Door latch must open from inside without a key.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Doors must swing outward.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d) Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Each gate located within 200 ft of any compressor plant building must open outward.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	When occupied, the door must be opened from the inside without a key.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e) Does the equipment and wiring within compressor stations conform to the National Electric Code, ANSI/NFPA 70?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.165	(a) If applicable, are there liquid separator(s) on the intake to the compressors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Do the liquid separators have a manual means of removing liquids?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.167	(a) Emergency shutdown device system must:				
	- Discharge blowdown gas to a safe location.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	- Block and blowdown the gas in the station.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	- Shut down gas compressing equipment, gas fires, electrical facilities in compressor building and near gas headers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	- Maintain necessary electrical circuits for emergency lighting and circuits needed to protect equipment from damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Emergency shutdown device system must be operable from at least two locations, each of which is:				
	- Outside the gas area of the station.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	- Not more than 500 feet from the limits of the station.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	- Emergency shutdown device switches near emergency exits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) For stations supplying gas directly to distribution systems, is the emergency shutdown device system configured so that the local distribution company will not be shut down if the emergency shutdown device is activated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) Are emergency shutdown devices on platforms designed to actuate automatically by:				
	- For unattended compressor stations, when:				
	▪ The gas pressure equals maximum allowable operating pressure plus 15%?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	▪ An uncontrolled fire occurs on the platform?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	- For compressor station in a building, when				
	▪ An uncontrolled fire occurs in the building?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	▪ 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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.171	(a) Does the compressor station have adequate fire protection facilities? If fire pumps are used, they must not be affected by the emergency shutdown device system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c) Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d) Are the gas compressor units equipped to automatically stop fuel flow and vent the engine if the engine is stopped for any reason?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e) Are the mufflers equipped with vents to vent any trapped gas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.173	Is each compressor station building adequately ventilated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.457	Is all buried piping cathodically protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.481	Atmospheric corrosion of aboveground facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
.603	Does the operator have procedures for the start-up and shut-down of the station and/or compressor units?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are facility maps current/up-to-date?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**ADDITIONAL SAFETY RELATED QUESTIONS FROM
THE COMMISSION RULES AND
REGULATIONS GOVERNING GAS SYSTEMS**

1. 103-412.2.7 CONSTRUCTION COSTS

Is the gas system notifying the Commission and ORS of each construction project which involves expenditures of \$500,000 or more; or pipeline projects of 25,000 feet or more?

2. 103-415 ACCIDENTS

A) Are the procedures in place to insure reporting to the Commission, accidents that meet the reporting requirements set forth in the Rules and Regulations?

B) Are procedures in place for analyzing accidents for the purpose of determining the cause and minimizing the possibility of recurrences?

3. 103-415 (A)

Is the gas system reporting to the Commission, both by telephone and written report all accidents involving property damage in excess of \$5,000?

4. 103-430 (e) CUSTOMER INFORMATION

Is the gas system providing adequate means (telephone, etc.) whereby the system can be contracted at all hours in cases of emergency or unscheduled interruptions of service?

5. 103-465 ABANDONMENT OF FACILITIES

Is the gas system conducting a study at intervals not exceeding twelve (12) months to determine the number of inactive service lines in their system?

Are inactive service lines for which there is no definite plan for future use of reasonable possibility for future use or are found to be in unsafe condition being physically disconnected from the gas supply at the main?

Are inactive service lines for which there is a definite plan for future use or a reasonable possibility for future use being monitored at intervals not exceeding twelve (12) months to determine if they are in safe condition and not detrimental to public safety?

Note: All inactive service lines are to be monitored at intervals not exceeding twenty four (24) months.

6. 103-483 SPECIAL TESTS

Before permitting the initial use of gas at any location, is the Gas System being furnished by the customer or the local inspecting authority or by the contractor, a certificate of such inspections and tests certifying compliance with applicable local codes or in the absence of a local code, compliance with the minimum standards set forth in the latest edition of Southern Standard Gas Code?

The Gas System advising the customer of this requirement upon initial application for gas service?

When gas is turned on by the Gas System, they are to take reasonable precaution to prevent potential hazards. What precaution is the Gas System taking and as a minimum precaution? Is the Gas System checking for leakage using the gas meter, and making a visual inspection of the gas systems owned exposed piping and components thereof?

Answer

7. 103-484 LOW PRESSURE PREQUIREMENTS

Does this Operator have any low-pressure piping? (There are no longer any low pressure systems in the state of SC.)

8. 103-485 SYSTEM PRESSURE MONITORING

Does the Gas System have installed on its distribution system in each city in which it supplies gas, a sufficient number of recording devices, but not less than one, to insure detections of abnormal system pressures?

Does the Gas System keep records of each test of pressures in various parts of its system and do the records include as a minimum, the date, time and location where the pressure was taken and are the records being retained for a two (2) year period?

9. 103-491 PROTECTIVE MEASURES

Does the Gas System maintain a summary of all reportable accidents arising for its operations?

10. 103-492 SAFETY PROGRAM

_____ Does the Gas System have a safety program that at a minimum:

_____ Requires employees to use suitable tools and equipment in order that they may perform their work in a safe manner.

_____ Instructs employees in safe methods of performing their work,

_____ Instructs employees, who, in the course of their work are subject to electrical shock, asphyxiation or drowning, in accepted methods of

artificial respiration.

_____ Establish liaison with appropriate public officials including fire and police officials in anticipation of a potential emergency.

_____ Establish an educational program to enable customers and the general public to recognize and report a gas emergency to the appropriate officials.

11. 103-493 LEAKAGE - GENERAL

Does the Gas System have a procedure for recording notices of leaks, odor or damage to gas facilities by contractors or other outside sources?

Note: Documentation should include at a minimum: time notice received, time notice was dispatched, time gas system personnel arrived at scene, time situation made safe, and brief description of situation found.

CLASSIFICATION

Does the Gas System have a procedure for classifying and repairing leaks meeting the requirements of the following?

Grade 1 – leak requiring immediate repair or continuous action until the conditions are no longer hazardous.

Grade 2 – leak requiring immediate repair based on probable future hazard.

Grade 3 – leak that is non-hazardous at the time of detection and is expected to remain non-hazardous.

12. 103-493.3 LEAKAGE SURVEY

Is the Gas System conducting instrument leakage surveys of all buried piping not cathodically protected, as frequently as necessary, but at intervals not exceeding twelve (12) months?

13. 103-493.4 VEGETATION LEAKAGE SURVEYS

Does the Gas System have a policy in effect which prohibits the use of vegetation type leakage surveys?

14. 103-414 LOSS OF GAS SERVICE (INTERRUPTIONS IN SERVICE)

Does the Gas System have a procedure to notify the Pipeline Safety Group of any interruptions of gas service to 50 (fifty) or more customers?

Does the procedure require initial telephonic notification and subsequent written follow-up?

Is this procedure being followed?

14. 103-494 INTERRUPTIONS IN SERVICE

Does the Gas System have filed with the Commission procedures to protect customers during periods when operating conditions require interruptions in service due to scheduled or unscheduled curtailments, line breakage, equipment malfunctions, and force majeure conditions?

1. Do you have any Dupont Aldyl A piping in service in your system? If so, what are the pipe sizes and amounts of each size in service?

2. Do you have any Century Brand black plastic or Orangeburg (or Phillips) PE 3306 piping in service? If so, what are the pipe sizes and amounts of each size in service?

3. Do you have *any other previously indentified high risk piping* in service? If so, give specifics.

4. Do you have an individual designated to monitor and report this information?

5. Does the operator/contractor have Horizontal Directional Drilling (HDD) Procedures to determine if it includes actions to protect their facility from the dangers posed by drilling and other trench less technologies?

ADDITIONAL COMMENTS:

***The Office of Regulatory Staff of South Carolina
Comprehensive Standard Distribution Inspection Items***

RECORDS SEGMENT

- *The # of gas employees and # of customers.*
- *Maximum pressures (feeder, town, other).*
- *Annual Reports.*
- *List of welders.*
- *List of qualified fusion welders and dates of tests.*
- *P/S readings (T/P and Isolated services).*
- *Rectifier readings.*
- *Records of pipe inspections when buried mains are exposed.*
- *O & M and Emergency plan review.*
- *History of system pressures; initial tests, date, MOP, MAOP, etc.*
- *Odorization monitoring records.*
- *Patrolling requirements.*
- *Leak Survey information.*
- *Total number of inactive services (review list).*

- *Telemetry.*
- *Critical Valve maintenance.*
- *PSC Rules and Regs (inactives, leak grading, pressure recording charts, etc).*
- *Customer call-in (reports of leaks).*
- *Follow-up on PAP revisions.*

FIELD SEGMENT

- *P/S readings (rectifiers).*
- *Rights-of-Way (signs and/or markers).*
- *Re-check repaired leaks.*
- *Inactive risers (or meter sets); check for locks.*
- *Exposed Pipe locations (markers).*
- *AOC's.*

ATTACHMENTS

- *#1 List of welders.*
- *#2 List of fusion persons.*
- *#3 Exposed main records.*
- *#4 Odorization records.*
- *#5 Leak repair information.*
- *#6 Inactive risers.*
- *#7 Pressure recording charts or telemetry data.*
- *#8 Regulator station inspection records.*
- *#9 Customer call-in (reports of leaks).*
- *#10 Damages to facilities (leaks on system).*

PIPELINE SYSTEM LEAK SURVEY

RESIDENTIAL SURVEY

Percentage of system surveyed:

Dates of survey:

Dates of previous survey:

TOTAL LEAKS FOUND

TOTAL LEAKS REPAIRED

GR I

GR II

GR III

BUSINESS SURVEY

Dates of survey:

Dates of previous survey:

TOTAL LEAKS FOUND

TOTAL LEAKS REPAIRED

GR I

GR II

GR III

SURVEY PERFORMED BY:

TOTAL INACTIVES INCLUDED IN SURVEY:

- 1. How many total facility locate requests were received during the past year?*
- 2. How many damages to gas piping and facilities were attributed to improper location and/or marking?*

FIELD OBSERVATION OF REPAIRED LEAKS
ON DISTRIBUTION SYSTEM

ADDRESS	TOWN	POS	NEG	COMMENTS
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	



**OFFICE OF REGULATORY STAFF OF SOUTH CAROLINA
INSPECTION REPORT OF NATURAL GAS FACILITIES**

DATE: REPORT BY:

OPERATOR: **(A-O)** **(P-Z)**

INACTIVE RISERS OBSERVED

ADDRESS	LOCKED	PLUGGED	METER IN PLACE
1-			
2-			
3-			
4-			
5-			
6-			
7-			
8-			
9-			
10-			
11-			
12-			
13-			
14-			
15-			
16-			
17-			
18-			
19-			
20-			
21.			
22.			

All PHMSA Advisory Bulletins (Last 7 years, ascending)

<u>Number</u>	<u>Date</u>	<u>Subject</u>
ADB-09-01	May 21, 2009	Pipeline Safety: Potential Low and Variable Yield and Tensile Strength and Chemical Composition Properties in High Strength Line Pipe
ADB-09-02	September 30, 2009	Pipeline Safety: Weldable Compression Coupling Installation
ADB-09-03	December 7, 2009	Pipeline Safety: Operator Qualification (OQ) Program Modifications
ADB-09-04	January 19, 2010	Pipeline Safety: Reporting Drug and Alcohol Test Results for Contractors and Multiple Operator Identification Numbers
ADB-10-02	February 3, 2010	Pipeline Safety - Implementation of Revised Incident/Accident Report Forms for Distribution Systems, Gas Transmission and Gathering Systems, and Hazardous Liquid Systems
ADB-10-03	March 24, 2010	Pipeline Safety: Girth Weld Quality Issues Due to Improper Transitioning, Misalignment, and Welding Practices of Large Diameter Line Pipe
ADB-10-04	April 29, 2010	Pipeline Safety: Implementation of Electronic Filing for Recently Revised Incident/Accident Report Forms for Distribution Systems, Gas Transmission and Gathering Systems, and Hazardous Liquid Systems
ADB-10-06	August 3, 2010	Pipeline Safety: Personal Electronic Device Related Distractions
ADB-10-08	November 3, 2010	Pipeline Safety: Emergency Preparedness Communications
ADB-11-01	January 4, 2011	Pipeline Safety: Establishing Maximum Allowable Operating Pressure or Maximum Operating Pressure Using Record Evidence, and Integrity Management Risk Identification, Assessment, Prevention, and Mitigation
ADB-11-02	February 9, 2011	Dangers of Abnormal Snow and Ice Build-up on Gas Distribution Systems

Advisory Bulletins (cont.) (5/2016 – 3/2011, descending)

Advisory Bulletins	Docket Number	Publish Date
ADB-2016-05	[Docket No. PHMSA-2016-0075]; [FR Cite: 81 FR 54512]; Pipeline Safety: Clarification of Terms Relating to Pipeline Operational Status.	08/16/2016
ADB-2016-04	[Docket No. PHMSA-2016-0071]; [FR Cite: 81 FR 40398]; Pipeline Safety: Ineffective Protection, Detection, and Mitigation of Corrosion Resulting From Insulated Coatings on Buried Pipelines.	06/21/2016
ADB-2016-03	[Docket No. PHMSA-2016-0013]; [FR Cite: 81 FR 7412]; Pipeline Safety: Dangers of Abnormal Snow and Ice Build-up on Gas Distribution Systems.	02/11/2016
ADB-2016-02	[Docket No. PHMSA-2016-0016]; [FR Cite: 81 FR 6334]; Pipeline Safety: Safe Operations of Underground Storage Facilities for Natural Gas.	02/05/2016
ADB-2016-01	[Docket No. PHMSA-2015-0283]; [FR Cite: 51 FR 2943]; Pipeline Safety: Potential for Damage to Pipeline Facilities Caused by Flooding, River Scour, and River Channel Migration.	01/19/2016
ADB-2015-02	[Docket No. PHMSA-2015-0140] Pipeline Safety: Potential for Damage to Pipeline Facilities Caused by the Passage of Hurricanes; ACTION: Notice; Issuance of Advisory Bulletin.	Jun 23, 2015
ADB-2015-01	Potential for Damage to Pipeline Facilities Caused by Flooding, River Scour, and River Channel Migration, Notice: Issuance of Advisory Bulletin	Apr 9, 2015
ADB-2014-05	Docket No.: PHMSA 2014-0086 Reminder to perform evaluations of their Integrity Management (IM) programs. Notice: Issuance of Advisory Bulletin	Oct 15, 2014
ADB-2014-04	Docket Number: PHMSA-2014-0400 Potential significant impacts of flow reversals, product changes and conversions. Notice: Issuance of advisory bulletin	Sep 18, 2014
ADB-2014-03	Docket No. PHMSA-2014-0017 Pipeline Safety: Construction Notification Action: Notice: Issuance of Advisory Bulletin	Sep 12, 2014
ADB-2014-02	Docket Number: PHMSA-2014-0020 Pipeline Safety: Lessons Learned From the Release at Marshall, Michigan ACTION: Notice; issuance of advisory bulletin.	May 6, 2014
ADB-2014-01	[Docket No. PHMSA-2013-0226] Improvements in Preparing Oil Spill Facility Response Plans ACTION: Notice; Issuance of Advisory Bulletin	Jan 28, 2014
ADB-2013-03: Correction	[Docket No. PHMSA-2013-0097] 78 FR 65427 Pipeline Safety: Reminder of Requirements for Liquefied Petroleum Gas and Utility Liquefied Petroleum Gas Pipeline Systems	Oct 31, 2013
ADB-2013-04	Docket No. PHMSA-2013-0185 Pipeline Safety: Notice to Operators of Hazardous Liquid and Natural Gas Pipelines of a Recall on Leak Repair Clamps Due to Defective Seal	Aug 28, 2013
ADB-2013-03	[Docket No. PHMSA-2013-0097] 78 FR 42889 Reminder of Requirements for Utility LP-Gas and LPG Pipeline Systems	Jul 18, 2013
ADB-2013-02	Potential for Damage to Pipeline Facilities Caused by Flooding	Jul 12, 2013
ADB-2013-01	Pipeline Safety: Accident and Incident Notification Time Limit: Issuance of Advisory Bulletin.	Jan 30, 2013
ADB-2012-11	ADB-2012-11: Reporting of Exceedances of Maximum Allowable Operating Pressure December 21, 2012	Dec 21, 2012

Advisory Bulletins	Docket Number	Publish Date
<u>ADB-2012-10</u>	Pipeline Safety: Using Meaningful Metrics in Conducting Integrity Management Program Evaluations December 5, 2012	Dec 5, 2012
<u>ADB-12-09: Communication During Emergency Situations</u>	SUMMARY: PHMSA is issuing this Advisory Bulletin to remind operators of gas, hazardous liquid, and liquefied natural gas pipeline facilities that operators should immediately and directly notify the Public Safety Access Point (PSAP) that serves the communities and jurisdictions in which those pipelines are located when there are indications of a pipeline facility emergency.	Oct 11, 2012
<u>ADB-12-08</u>	SUMMARY: PHMSA is issuing an advisory bulletin to alert all pipeline owners and operators of the circumstances of the Canadian National Railway Company freight train derailment that occurred in Cherry Valley, Illinois on June 19, 2009.	Jul 31, 2012
<u>ADB-12-07</u>	SUMMARY: PHMSA is issuing an Advisory Bulletin to provide clarification to owners and operators of gas distribution pipeline facilities when completing the Mechanical Fitting Failure Report Form, PHMSA F 7100.1-2.	Jun 11, 2012
<u>ADB 12-06</u>	PHMSA is issuing an Advisory Bulletin to remind operators of gas and hazardous liquid pipeline facilities to verify their records relating to operating specifications for maximum allowable operating pressure (MAOP) required by 49 CFR 192.517 and maximum operating pressure (MOP) required by 49 CFR 195.310.	May 7, 2012
<u>ADB-12-05</u>	PHMSA is issuing an advisory bulletin to owners and operators of natural gas cast iron distribution pipelines and state pipeline safety representatives.	Mar 23, 2012
<u>ADB-12-04</u>	PHMSA is issuing this notice to advise owners and operators of pipeline facilities of PHMSA's plan for implementing the national registry of pipeline and liquefied natural gas operators. This notice provides updates to the information contained in a PHMSA Advisory Bulletin published on January 13, 2012 (77 FR 2126).	Mar 21, 2012
<u>ADB-12-03</u>	PHMSA is issuing this advisory bulletin to alert operators using Driscopipe® 8000 High Density Polyethylene Pipe (Drisco8000) of the potential for material degradation.	Mar 6, 2012
<u>ADB-12-02</u>	PHMSA is issuing this advisory bulletin to remind operators of pipelines and LNG facilities of the need to conduct post accident drug and alcohol testing of all potentially involved personnel despite uncertainty about the circumstances of the accident.	Feb 23, 2012
<u>ADB-12-01</u>	PHMSA is issuing this advisory bulletin to advise owners and operators of pipeline facilities within PHMSA's plan of the implementation of the national registry of pipeline and liquefied natural gas operators.	Jan 13, 2012
<u>ADB-11-05</u>	Pipeline Safety: Potential for Damage to Pipeline Facilities Caused by the Passage of Hurricanes	Sep 1, 2011
<u>ADB-11-04</u>	Pipeline Safety: Potential for Damage to Pipeline Facilities Caused by Flooding	Jul 27, 2011
<u>ADB-11-07</u>	PHMSA is issuing this document to notify operators of natural gas and hazardous liquid pipeline facilities of the creation of a dedicated "Presiding	Jul 12, 2011

Advisory Bulletins	Docket Number	Publish Date
	Official" for informal pipeline enforcement hearings and the process operators can expect when requesting an informal hearing.	
<u>ADB-11-03</u>	PHMSA-2011-0121: Pipeline Safety: Updates to Pipeline and Liquefied Natural Gas Reporting Requirements	May 17, 2011

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

LEAVE THIS LIST WITH THE OPERATOR.