

**Pipeline Safety Inspection Form
First and Second Half CY - 2008
S.D.P.U.C.**

OPERATOR:	INSPECTION UNIT:
INSPECTOR(S):	DATE:
OPERATOR PERSONNEL:	
TYPE OF OPERATOR	
OPID	

PART 191

S – Satisfactory N/I – Not Inspected U – Unsatisfactory N/A – Not applicable

REPORTING REQUIREMENTS		S	N/I	U	N/A
§192.605(b)(4)	Are there procedures for gathering data related to incidents in a timely and effective manner?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§191.5	Are certain incidents telephonically reported to NRC? (1-800-424-8802)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§191.9 and §191.15	Are incidents reported by telephone followed up with a 30-day written report? (RSPA Form 7100.1) – Distribution or (RSPA Form 7100.2) – Transmission and Gathering	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Procedure?				
§191.11 and §191.17	Are annual reports submitted to Washington? (RSPA Form 7100.1-1) – Distribution Systems or (RSPA Form 7100.2-1) – Transmission and Gathering Systems Give date of last report.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§191.23	Is there a procedure for reporting safety related conditions?				
	(a) If the operator has reported any safety-related conditions, did he use the proper criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Was the report filed within five (5) working days of determination and within ten (10) working days of discovery?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PART 192

OPERATION & MAINTENANCE PLANS		S	N/I	U	N/A
§192.605(a)	Has the operator prepared a written operating and maintenance plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.603(b)	Does the operator keep records necessary to administer the plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.603(c)	Are the plans and procedures adequate to provide a reasonable level of safety?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(a)	Is the plan reviewed and updated at intervals not exceeding 15 months but at least once each calendar year? (See records check list)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(a)	Are appropriate parts of the manual kept at locations where operations and maintenance activities are conducted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(b)(3)	Making construction records, maps, & operating history available to appropriate operating personnel? (See records check list)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(b)(5)	Procedures for starting up and shutting down any part of the pipeline to assure operations within the MAOP plus allowable buildup.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(b)(8)	Periodically reviewing the work done by operator personnel to determine the effectiveness, and adequacy of procedures used in normal operations and maintenance and modifying the procedures when deficiencies are found?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.605(b)(9)	Taking adequate precautions in excavated trenches to protect personnel from hazards of unsafe accumulations of vapor or gas, and making available when needed at the excavation, emergency rescue equipment, including breathing apparatus and a rescue harness and line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(b)(10)	Procedures for systematic, routine inspection and pipe-type or bottle-type holders including:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(i) Provision for detecting external corrosion before the strength of the container has been impaired.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(ii) Periodic sampling and testing of gas in storage must be made to determine the dew point of vapors contained in the stored gas, that if condensed, might cause internal corrosion or interfere with the safe operation of the storage plant; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(iii) Periodic inspection and testing of pressure limiting equipment to determine that it is in a safe operating condition and has adequate capacity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(b)(11)	Procedures for responding promptly to a gas odor inside or near a building, unless covered specifically in the operator's emergency procedures.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EMERGENCY PLANS		S	N/I	U	N/A
§192.615 §192.605(e)	Does the operator have a written emergency plan? Date Issued:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615	Does the plan include the following?				
§192.615(a)(1)	(a) Instructions for handling of notices of the events, which require immediate response by the operator?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(2)	(b) Means of communicating with appropriate public officials regarding possible emergency?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(3)	(c) Prompt response to each of the following emergencies:				
§192.615(a)(3)(i)	(1) Gas detected inside a building	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(3)(ii)	(2) Fire located near a pipeline.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(3)(iii)	(3) Explosion near a pipeline.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(3)(iv)	(4) Natural disaster.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a) Guidance	(5) <i>Damage to buried facilities during excavation activities near buildings. (Guidance states response plans should outline how these types of emergencies should be assessed for potential hidden and multiple leak locations and underground migration of gas into nearby buildings).</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(4)	(d) Description of types of personnel, equipment, tools, & material requirements at scene of an emergency.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(5)	(e) Provisions directed towards protecting people first, then property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(6)	(f) How & where to perform emergency shut-downs or pressure reductions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(7)	(g) Making safe any actual or potential hazard to life or property.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(8)	(h) Directions for notifying additional public officials required at the emergency scene & coordinating activities with these officials.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(9)	(i) Instructions for restoring service outages after the emergency has been rendered safe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(a)(10)	(j) Provisions for investigating accidents and failures as soon after the emergency as possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Has the operator made provisions for:				

§192.615(b)(1)	(a) 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"/>
§192.615(b)(2)	(b) Training appropriate employees as to the requirements of the emergency plan.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(b)(3)	(c) Review activities following actual or simulated emergencies to determine if they are effective.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.615(c)	Establish mutual liaison with fire, police, and other public officials, such that each is aware of the others resources and capabilities in dealing with gas emergencies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TEST REQUIREMENTS FOR PIPELINES		S	N/I	U	N/A
§192.503(d)	Is each non-welded joint used to tie in a test segment leak tested at not less than its operating pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	For steel pipelines to be operated at a hoop stress of 30 percent or more of SMYS:				
§192.505(a)	Is each segment strength tested in accordance with this subpart and §192.619?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(b)	In Class 1 and Class 2 locations, is each compressor station, regulator station, and measuring station tested to at least Class 3 location test requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(c)	Is the pressure at or above test pressure for at least eight hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(d)	Are components not pressure tested:				
§192.505(d)(1)	Certified by the manufacturer that it was tested to the pressure required for the pipeline to which it is being added?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(d)(2)	Manufactured under a quality control system that ensures that each item manufactured is at least equal in strength to a prototype and that the prototype was tested to a test pressure required for the pipeline to which it is being added?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(d)(3)	The component carries a pressure rating established through applicable ASME/ANSI, MSS specifications, or by unit strength calculations as described in §192.143?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(e)	Are fabricated or short sections pressure tested for at least four hours before they are installed, if it is impractical to pressure test after installation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	For pipelines to be operate at a hoop stress less than 30 percent SMYS and at or above 100 p.s.i. gauge.				
§192.507(a)	Does the operator use a test procedure that will ensure discovery of all potentially hazardous leaks in the segment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If the segment is stressed to 20 percent or more of SMYS using natural gas, inert gas, or air;				
§192.507(b)(1)	Is a leak test made at a pressure between 100 p.s.i. gauge and the pressure required to produce a hoop stress of 20 percent of SMYS? or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.507(b)(2)	Is the line walked to check for leaks while the hoop stress is held at approximately 20 percent of SMYS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.507(c)	Is the pressure maintained at or above the test pressure for at least one hour?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	For pipelines (except plastic and service) to operate below 100 p.s.i. gauge.				
§192.509(a)	Does the operator use a test procedure that will ensure discovery of all potentially hazardous leaks in the segment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.509(b)	Is each main that is to be operated at less than 1 p.s.i. gauge tested to at least 10 p.s.i. gauge?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.509(b)	Is each main that is to be operated at or above 1 p.s.i. gauge tested to at least 90 p.s.i. gauge?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	For non-plastic service lines.				
§192.511(a)	If feasible, is the connection to the main included in the test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.511(b)	Are service lines expected to operate at a pressure of at least 1 p.s.i. gauge but not more than 40 p.s.i. gauge tested at a pressure of not less than 50 p.s.i. gauge?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.511(c)	Are service lines expected to operate at a pressure of more than 40 p.s.i. gauge tested at a pressure of not less than 90 p.s.i. gauge?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.511(c)	Are steel service lines stressed to 20 percent or more of SMYS tested in accordance with §192.507?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	For plastic pipelines.				
§192.513(a)	Is each segment of a plastic pipeline tested in accordance with this section?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.513(b)	Does the operator use a test procedure that will ensure discovery of all potentially hazardous leaks in the segment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.513(c)	Does the operator test to at least 150 percent of the maximum operating pressure or 50 p.s.i.g. whichever is greater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.513(d)	During the test, is the temperature of the pipe not more than 100°F, or the temperature at which the long term hydrostatic strength has been determined, whichever is greater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.515(a)	When conducting pressure test is every reasonable precaution taken to protect employees and the general public during the testing whenever the hoop stress of the segment will exceed 50 percent of SMYS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.515(b)	Does the operator ensure that the test medium is disposed of in a manner that will minimize damage to the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)	Is a record with the following information of each test performed under §§192.505 and 192.507 kept for the useful life of the pipeline;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)(1)	(1) The operator's name, the name of the operator's employee responsible for making the test, and the name of any test company.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)(2)	(2) Test medium used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)(3)	(3) Test pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)(4)	(4) Test duration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)(5)	(5) Pressure recording charts, or other record of pressure readings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)(6)	(6) Elevation variations, whenever significant to the test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(a)(7)	(7) Leaks and failures noted and there disposition.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.517(b)	Does the operator keep a record of each test required by §§192.509, 192.511, and 192.513 for at least 5 years?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	FIELD REPAIRS - TRANSMISSION LINES	S	N/I	U	N/A
§192.605(b)(1)	Procedures for field repair of transmission pipelines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Record keeping				
§192.709(a)	Are records of the date, location, and description of each repair made to pipe retained for as long as the pipe remains in service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	General requirements for repair procedures				
§192.711(a)	Are immediate temporary measures taken to protect the public whenever a leak, imperfection, or damage is found that impairs the serviceability is found on a segment of steel transmission line operating at or over 40 percent of SMYS and it is not feasible to make a permanent repair at the time of discovery?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.711(a)(2)	Are permanent repairs made as soon as feasible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.711(b)	Are weld patches used as a means of repair only as provided in §192.717(b)(3)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Are permanent field repair of imperfections and damages for pipelines operating above 40% SMYS by one of the following method?				
§192.713(a)(1)	(a) Cut out a cylindrical piece of pipe and replace with a pipe of equal or greater design strength.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.713(a)(2)	(b) Repaired by a method that reliable engineering tests and analysis show can permanently restore the serviceability of the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.713(b)	Are operating pressures kept to a safe level during repair operations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Permanent field repair of welds.				
§192.715	If a weld is found to be unacceptable under §192.241(c), the weld must be repaired by:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.715(a)	(a) Take the line out of service and repair in accordance with §192.245.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) Are cracks longer than 8% of the weld length removed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) For each weld that is repaired, is the defect removed down to clean metal and is the pipe preheated if conditions demand it?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Are the repairs inspected to ensure acceptability?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) If additional repairs are required, are they done in accordance with qualified written welding procedures to assure minimum mechanical properties are met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.715(b)	(b) If the line remains in service, is the weld repaired in accordance with §192.245 if:				
	(1) The weld is not leaking.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) The pressure is reduced to produce a stress that is 20% of SMYS or less; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Grinding of the defective area can be limited so that at least 1/8-inch thickness in the pipe weld remains.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.715(b)	(c) If the weld cannot be repaired in accordance with (a) or (b) above, is a full encirclement welded split sleeve of appropriate design must be installed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Permanent field repair of leaks.				
	Are permanent field repair of leaks made by -				
§192.717(a)	(a) Replace by cutting out a cylinder and replace with pipe similar or of greater design strength; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.717(b)(1)	(b) Install a full encirclement welded split sleeve of appropriate design unless the pipe is joined by mechanical couplings or operates at less than 40% of SMYS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.717(b)(2)	(c) A leak due to a corrosion pit may be repaired by installing a bolt on leak clamp, or.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.717(b)(3)	(d) If pipe is not more than 40,000 p.s.i. SMYS, the pits may be repaired by fillet welding a steel plate (The plate must have rounded corners and the same thickness or greater than the pipe, and not more than one-half of the diameter of the pipe in size).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.717(b)(4)	(e) Mechanically apply a full encirclement split sleeve of appropriate design, if the pipeline is submerged in inland navigable waters.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.717(b)(5)	(f) Apply a method that reliable engineer tests and analyses show can permanently restore the serviceability of the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Testing of repairs				

§192.719(a)	Is the replacement pipe tested to the requirement of a new line installed in the same location? (The pipe may be tested before it is installed).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.719(b)	Is each repair made by welding in accordance with §§192.713, 192.715, and 192.717 examined in accordance with §192.241?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TEST REQUIREMENTS FOR REINSTATING SERVICE LINES		S	N/I	U	N/A
§192.605(b)	Procedures for §192.725?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.725(a)	(a) Does the operator test reinstated service lines in the same manner as new lines?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.725(b)	(b) Is each service line that is temporarily disconnected tested from the point of disconnection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

WELDING		S	N/I	U	N/A
General					
§192.225(a)	Is welding performed by a qualified welder?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.225(a)	Are the quality of test welds used to qualify a procedure determined by destructive testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.225(b)	Are welding procedure(s), including results of qualifying test, recorded in detail?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Qualification of welders					
§192.227	(a) Welders must be qualified by:				
§192.227(a)	(1) Section 6 of API 1104 (19th ed., 1999, including its October 31, 2001 errata)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Section IX of ASME Boiler and Pressure Code (2001)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.227(b)	Welders may qualify under Section I of Appendix C for pipe to be operated at a hoop stress of less than 20% of SMYS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Limitations on welders					
§192.229(a)	To weld on compressor station piping and components, a welder must successfully complete a destructive test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.229(b)	Welder must have used the welding process within the preceding six months.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Welders qualified under §192.227(a);				
§192.229(c)(1)	May not weld on pipe operated at a pressure that produces a hoop stress of 20 percent or more of SMYS unless within the preceding 6 months the welder has had one weld tested and found acceptable under section 6 or 9 of API Standard 1104, <i>Exception: A welder qualified under an earlier addition may weld but not requalify under that earlier addition.</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.229(c)(1)	Alternatively, do welders maintain an ongoing qualification status by performing welds tested and found acceptable under section 6 or 9 of API 1104 at least twice each calendar year, but at intervals not exceeding 7-1/2 months?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.229(c)(2)	May not weld on pipe to be operated at a pressure less than 20 percent of SMYS unless the welder is tested in accordance with §192.229(c)(1) or requalifies under §192.229(d)(1) or (d)(2).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Welders qualified under §192.227(b);				
§192.229(d)(1)	May not weld unless within the preceding 15 calendar months, but at least once each calendar year, has requalified under §192.227(b), or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.229(d)(2)(i)	Within 7-1/2 months but at least twice per year had a production weld pass a qualifying test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.229(d)(2)(ii)	For welders who work only on service lines 2 inches or smaller in diameter, two sample welds tested and found acceptable in accordance with the test in section III of Appendix C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Other considerations				
§192.231	Does the operator require that welding operations be protected from weather conditions that would impair the quality of the weld?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.233(a)	Are miter joints on steel pipe to be operated at a pressure that produces a hoop stress of 30 percent or more of SMYS restricted to no more than 3 degrees of deflection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.233(b)	Are miter joints on steel pipe to be operated at a pressure that produces a hoop stress of less than 30 but more than 10 percent of SMYS restricted to no more than 12-1/2 degrees of deflection and must be a distance of one pipe diameter away or more from any other miter joint, as measured from the crotch of each joint?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.233(a)	Are miter joints on steel pipe to be operated at a pressure that produces a hoop stress of 10 percent or less of SMYS restricted to less than 90 degrees of deflection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.235	Are weld surfaces aligned, clean, and free of any material that may be detrimental to the weld?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Inspection and test of welds				
	Each weld must be visually inspected by an individual qualified by appropriate training and experience to ensure:				
§192.241(a)(1)	(a) Compliance with the welding procedure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.241(a)(2)	(b) Acceptability of weld is in accordance with Section 9 of API 1104.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are welds on pipelines to be operated at a pressure that produces a hoop stress of more than 20 percent of SMYS nondestructively tested in accordance with §192.243, except welds that are visually inspected and approved by a qualified welding inspector? if:				
§192.241(b)(1)	(1) The pipe has a nominal diameter of less than 6 inches; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.241(b)(2)	(2) The pipeline is operated at less than 40 percent of SMYS 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"/>
	Nondestructive testing				
§192.243(a)	Is nondestructive testing performed by a 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"/>
§192.243(b)(1)	Is nondestructive testing of welds performed in accordance with written procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(b)(2)	Is nondestructive testing performed by persons trained and qualified in the qualified procedures and with the equipment employed in testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(c)	Are procedures established for the proper interpretation of each nondestructively tested weld to ensure acceptability under §192.241(c)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	When nondestructive testing is required under §192.241(b), are the following percentages of butt welds tested:				
§192.243(d)(1)	(1) In Class 1 locations, at least 10 percent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(d)(2)	(2) In Class 2 locations, at least 15 percent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(d)(3)	(3) In Class 3 and 4 locations, 100 percent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(d)(3)	(4) Crossings of major or navigable rivers, 100 percent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(d)(3)	(5) Within railroad or public rights-of-way, including tunnels, bridges, and overhead road crossings, 100 percent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(d)(4)	(6) At pipeline tie-ins, including replacement sections, 100 percent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(e)	Is a sample of each welders work for each day nondestructively tested when nondestructive testing is required under §192.241(b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.243(f)	Are records showing by milepost, engineering station, or geographic feature, the number of girth welds made, the number tested, the number rejected, and the disposition of the rejects retained for the life of the pipeline?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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REPAIR OR REMOVAL OF WELD DEFECTS		S	N/I	U	N/A
§192.245(a)	Is each weld that is unacceptable under §192.241(c) removed or repaired?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.245(b)	Is each weld that is repaired have the defect removed down to sound metal, and is the segment to be repaired preheated if conditions exist which would adversely affect the quality of the weld repair? After repair, is the weld inspected and found acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.245(c)	Is the repair of a crack or any defect in a previously repaired area done in accordance with a written weld repair procedure, qualified under §192.225?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.245(c)	Does the repair procedure provide that the minimum mechanical property specified in the original weld procedure be met upon completion of the final weld repair?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

JOINING OF PIPELINE MATERIALS OTHER THAN BY WELDING		S	N/I	U	N/A
General					
§192.273(b)	Is each joint made in accordance with written procedures that have been proved by test or experience to produce strong gas-tight joints?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.273(c)	Is each joint inspected to ensure compliance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plastic Pipelines					
§192.281(a)	Is each plastic pipe joint left undisturbed until it has set?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(b) <i>Solvent cement joints.</i>					
§192.281(b)(1)	Are the mating surfaces of the joint clean, dry, and free of material that may be detrimental to the joint?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(b)(2)	Does the solvent cement conform to ASTM Designation: D 2513?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(b)(3)	Does the procedure prohibit the use of heat to accelerate the setting of the cement?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(c) <i>Heat-fusion joints.</i>					
§192.281(c)(1)	Are butt-fusion joints 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"/>
§192.281(c)(2)	Are socket heat-fusion joints 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"/>
§192.281(c)(3)	Are electrofusion joints joined utilizing the equipment and techniques of the fitting 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"/>
§192.281(c)(4)	Does the procedure prohibit the application of heat with a torch or other open flame?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(d)	<i>Adhesive joints.</i>				

§192.281(d)(1)	Does the adhesive conform to ASTM Designation: D 2517?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(d)(2)	Are the materials and adhesive compatible with each other?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(e)	<i>Mechanical joints.</i>				
§192.281(e)(1)	Is the gasket material in the coupling compatible with the plastic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281(e)(2)	Is a rigid tubular stiffener, other than a split tubular stiffener, used in conjunction with the coupling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283	<i>Qualifying joining procedures.</i>				
§192.283(a)	Are heat fusion, solvent cement, and adhesive joints qualified by subjecting specimen joints to the following tests:				
§192.283(a)(1)(i)	(a) For thermoplastic pipe, the burst test requirements of paragraph 6.6 (Sustained Pressure Test) or paragraph 6.7 (Minimum Hydrostatic Burst Pressure (Quick Burst)) of ASTM D 2513.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(a)(1)(ii)	(b) For thermosetting plastic pipe, the burst test requirements of paragraph 8.9 (Sustained Static Pressure Test) or paragraph 8.8 (Minimum Hydrostatic Burst Pressure) of ASTM D 2517.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(a)(1)(iii)	(c) For electrofusion fittings for PE pipe and tubing, the burst test requirements of paragraph 9.2 (Sustained Pressure Test), paragraph 9.1 (Minimum Hydraulic Burst Pressure Test), paragraph 9.3 (Tensile Strength Test), or paragraph 9.4 (Joint Integrity Tests) of ASTM F1055.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(a)(2)	For lateral pipe connections made at right angles, does the failure initiate outside the joint area when force is applied the lateral pipe until failure occurs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(a)(3)	For nonlateral pipe connections, does the operator follow the tensile test requirements of ASTM D 638, except the test may be conducted at ambient temperature and humidity, and does the specimen elongate no less than 25 percent or failures initiate outside the joint area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(b)	Are mechanical joints qualified by subjecting five mechanical plastic pipe joints to the following tests:				
§192.283(b)(1)	Is an apparatus used for the test as specified in ASTM D 638?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(b)(2)	Is the specimen of such length that the distance between the grips of the apparatus and the end of stiffener does not affect the joint strength?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(b)(3)	Is the speed of the test 0.20 in. per minute, plus or minus 25 percent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(b)(4)	For pipe specimens less than 4 inches in diameter, does the pipe yield 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"/>
§192.283(b)(5)	For pipe specimens 4 inches in diameter and larger, is the pipe 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 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"/>
§192.283(b)(6)	Is each specimen that fails at the grips retested using new pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.283(b)(7)	Do results obtained pertain only to the specified outside diameter, and the 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"/>
§192.283(c)	Is a copy of each written procedure being used for joining plastic pipe available to the persons making and inspecting joints?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Qualifying persons to make joints.</i>				
§192.285(a)	Persons must be qualified to make joints under the applicable joining procedure by:				
§192.285(a)(1)	(a) Appropriate training or experience in the use of the procedure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.285(a)(2)	(b) Making specimen joint from pipe sections joined according to the procedure that passes inspection and test as follows:				
§192.285(a)(2)	(1) Is the specimen joint 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"/>
	<i>For Heat Fusion, Solvent Cement, or Adhesive Joints</i>				
§192.285(a)(2)(i)	(2) Is the specimen tested under any of the test methods listed under §192.283(a)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.285(a)(2)(ii)	(A) Examined by ultrasonic inspection and found not to contain flaws that would cause failure; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.285(a)(2)(iii)	(B) Cut into at least three longitudinal straps, each of which is:				
§192.285(a)(2)(iii)(A)	(i) 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"/>
§192.285(a)(2)(iii)(B)	(ii) Deformed by bending, torque, or impact, and failure does not initiate in the joint area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Inspection of joints</i>				
§192.287	Is each person that inspects joints in plastic pipe qualified by appropriate training or experience in evaluating the acceptability of plastic pipe joints?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cast Iron Pipe				
§192.275(a)	Is each caulked bell and spigot joint sealed with mechanical leak clamps?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.275(b)	Does each mechanical joint have a gasket made of resilient material as the sealing medium and is the gasket suitably confined and retained under compression by a separate gland or follower ring?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.275(c)	Is joining cast iron pipe by threaded joints prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.275(d)	Is joining cast iron pipe by brazing prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Ductile Iron Pipe				
§192.277(a)	Is joining ductile iron pipe by threaded joints prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.277(b)	Is joining ductile iron pipe by brazing prohibited?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Copper Pipe				
§192.279	Is joining copper pipe by threaded joint prohibited except for joining screw fittings or valves if the wall thickness is equivalent to the comparable size of Schedule 40 or heavier wall pipe listed in Table C1 of ASME/ANSI B16.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	INSPECTION & REPAIR OF MATERIALS	S	N/I	U	N/A
§192.307	Is each length of pipe and other components visually inspected at the site of installation to ensure that it has not sustained any visually determinable damage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(a)	Is each imperfection or damage to steel pipe that impairs the serviceability repaired or removed?				
§192.309(a)(1)	(1) If the repair is made by grinding, is the remaining wall thickness equal to the minimum thickness required by the tolerances in the specification to which the pipe was manufactured? Or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(a)(2)	(2) If the repair is made by grinding, is the remaining wall thickness equal to the nominal wall thickness required for the design pressure of the pipeline?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(b)	Are each of the following dents removed from steel pipe to be operated at a pressure that produces a hoop stress of 20 percent, or more of SMYS, unless the dent is repaired by a method that reliable engineering tests and analyses show can permanently restore the serviceability of the pipe?				

§192.309(b)(1)	(1) A dent that contains a stress concentrator such as a scratch, gouge, groove, or arc burn.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(b)(2)	(2) A dent that affects the longitudinal weld or a circumferential weld?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) For pipe to be operated at a hoop stress of 40 percent or more of SMYS;				
§192.309(b)(1)(a)	(a) A dent that has a depth of more than ¼ inch in pipe 12¾ inches or less in outer diameter, or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(b)(1)(b)	(b) More than 2 percent of the nominal pipe diameter in pipe over 12¾ inches in outer diameter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(c)	Is each arc burn repaired or removed from steel pipe to be operated at a pressure that produces a hoop stress of 40 percent, or more of SMYS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If a repair is made, by grinding, is the arc burn completely removed and the remaining wall thickness at least equal to;				
§192.309(c)(1)	(1) The minimum thickness required by the tolerances in the specification to which the pipe was manufactured? Or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(c)(2)	(2) The wall thickness equal to the nominal wall thickness required for the design pressure of the pipeline?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(d)	Does the operator prohibit the repair of a gouge, groove, arc burn, or dent by insert patching or by pounding out?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(e)	Is each gouge, groove, arc burn, or dent removed from a length of pipe removed by cutting out the damaged portion as a cylinder?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.311	Is each imperfection or damage that would impair the serviceability of plastic pipe repaired or removed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ABNORMAL OPERATIONS – TRANSMISSION LINES		S	N/I	U	N/A
§192.605(c)	Written procedures must be followed to provide safety when operating design limits have been exceeded. Does the operator have procedures for: (1) Responding to, investigating and correcting the cause of:				
§192.605(c)(1)(i)	Unintended closure of valves or shutdowns?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(ii)	An increase or decrease in pressure or flow rate outside of normal operating limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(iii)	Loss of communications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(iv)	The operation of any safety device?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(v)	Any other malfunction of a component?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(v)	Any deviation from normal operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(v)	Any other foreseeable malfunction of a component, deviation from normal operation, or personnel error?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(2)	Checking variations from the normal operation after abnormal operations have ended at sufficient critical locations in the system to determine continued integrity and safe operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(3)	Notifying the responsible operating personnel when notice of an abnormal operation is received?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(4)	Periodically reviewing the response of operating personnel to determine the effectiveness of the procedures and taking corrective action where deficiencies are found?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAFETY-RELATED CONDITIONS		S	N/I	U	N/A
§192.605(d)	Does the O&M Manual include instructions enabling personnel to recognize conditions that potentially may be safety-related conditions subject to the reporting requirements of §191.23?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§191.25(b)(8)	Was proper corrective action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SURVEILLANCE		S	N/I	U	N/A
§192.605(e)	Procedures for §192.613?				
§192.613(a)	Does the operator have appropriate procedures for continuing surveillance to determine and take appropriate action concerning changes in class location, failures, leakage history, corrosion, cathodic protection, and other unusual conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.613(b)	Has the operator initiated a program to correct problems discovered?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DAMAGE PREVENTION		S	N/I	U	N/A
§192.605(b)	Procedures for §192.614?				
§192.614	(a) Does the operator have a written damage prevention program for onshore locations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) A company program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Member of a one-call system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Does (#1) & (#2) above comply with the following requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) Identify persons who engage in excavating?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Provide for notification of the public and actual notification of persons who normally engage in excavation activities 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 for notification of pending excavations to the members?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5) Provide for a means of temporary marking of the pipeline in the vicinity of the excavations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(6) Provides for follow up 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 must be done 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"/>

PUBLIC EDUCATION		S	N/I	U	N/A
§192.605(b)	Procedures for §192.616?				
API RP 1162 Section 7.1	Does the operator's O&MP manual include:				
	an overall statement of management commitment				
	roles and responsibilities (by group or title)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a requirement for a written program and evaluation process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	summary of the operator's Public Awareness Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FAILURE INVESTIGATION		S	N/I	U	N/A
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§192.605(e)	Procedures for §192.617?				
§192.617	Is a procedure established for 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"/>

MAXIMUM ALLOWABLE OPERATING PRESSURE		S	N/I	U	N/A
§192.605(b)	Procedures for §192.619/.621/.623?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.619/.621 §192.623	Is the MAOP commensurate with the class location? (Spot check calculations)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	How was the MAOP determined?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(a) By design and test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) By highest operating pressure to which the segment of line was subjected between July 1, 1965 and July 1, 1970.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Were MAOP's determined correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM	Initial Operation Month/yr.	Highest Pressure Test	Highest Operating Pressure	MAOP	Limiting Basis

NOTES:

§192.505	Strength test requirements for steel pipeline to operate at a hoop stress of 30 percent or more of SMYS.
§192.507	Test requirements for steel pipeline to operate at a hoop stress less than 30 percent or more of SMYS and at or above 100 p.s.i. (689 kPa) gage.
§192.509	Test requirements for pipelines to operate below 1000 p.s.i. (689 kPa) gage.

PRESSURE LIMITING AND REGULATING STATIONS		S	N/I	U	N/A
§192.605(b)	Procedures for §192.739?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.739(a)	Does the operator perform inspections on pressure limiting relief devices and pressure regulators not to exceed 15 months, but at least annually to determine the following: (See records check list)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.739(a)(1)	In good mechanical condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.739(a)(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"/>
§192.739(a)(3)	Set to control or relieve at the correct pressures consistent with the pressure limits of §192.201(a)? (See exception in §192.739(b))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.739(a)(4)	(d) 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"/>
§192.739(b)	For steel pipelines whose MAOP is determined under §192.619(c), if the MAOP is 60 PSI gage or more, the control or relief pressure limit is as follows: if the MAOP produces a hoopstress of:				
	1) 72 percent or greater then the pressure limit is MAOP plus 4 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2) Unknown as a percentage of SMYS, then the pressure limit is a pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.743	Does the operator perform inspections on relief devices not to exceed 15 months but at least once each calendar year to determine the following? (See records check list)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.743(a)	(a) Has sufficient capacity been determined by testing in place or by review and calculations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.743(b)	(b) Are calculations used to determine capacity available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.743(c)	(c) Required that unsatisfactory conditions be corrected in an appropriate time frame?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TELEMETERING OR RECORDING GAUGES - DISTRIBUTION		S	N/I	U	N/A
§192.605(b)	Procedures for §192.741?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.741(a)	Does the operator have telemetering or pressure recording gauges to indicate gas pressure in the district that is supplied by more than one district pressure regulating station?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.741(b)	Has the operator determined if telemetering or pressure recording gauges are needed for a distribution system supplied by only one district pressure regulating station?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.741(c)	Does the operator inspect equipment and take corrective measures when there are indications of abnormally high or low pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PREVENTION OF ACCIDENTAL IGNITION		S	N/I	U	N/A
§192.605(b)	Do procedures provide for:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.751(a)	(a) Removal of ignition sources in presence of gas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.751(a)	(b) Provide for fire extinguisher?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.751(b)	(c) Preventing, welding or cutting on pipeline containing combustible mixture.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.751(c)	(d) Posting warning signs, where appropriate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONSTRUCTION PRACTICES		S	N/I	U	N/A
§192.313	Bends and Elbows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(a)	Does each field bend in steel pipe, other than a wrinkle bend made in accordance with §192.315, comply with the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(1)	a) The bend does not impair the serviceability of the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(2)	b) The bend must have a smooth contour and be free from buckling, cracks, or any other mechanical damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(3)	3) Is the longitudinal weld as near as practicable to the neutral access of the bend unless;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) The bend is made with an internal bending mandrel; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b) The pipe is 12 inches or less in outside diameter or has a diameter to wall thickness ratio less than 70.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)	Each circumferential weld of steel pipe which is located where the stress during bending causes a permanent deformation in the pipe must be nondestructively tested either before or after the bending process.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(c)	Wrought-steel welding elbows and transverse segments of these elbows may not be used for changes in direction on steel pipe that is 2 inches or more in diameter unless the arc length, as measured along the crotch, is at least 1 inch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.315	Wrinkle Bends in Steel Pipe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.315(a)	Are wrinkle bends prohibited on steel pipe to be operated at a pressure that produces a hoop stress of 30 percent or more, of SMYS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)	Does each wrinkle bend on steel pipe comply with the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)(1)	a) The bend must not have any sharp kinks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.313(b)(2)	b) When measured along the crotch of the bend, the wrinkles must be a distance of at least one pipe diameter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)(3)	c) On pipe 16 inches or larger in diameter, the bend may not have a deflection of more than 1½° for each wrinkle.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)(4)	d) On pipe containing a longitudinal weld the longitudinal seam must be near as practicable to the neutral axis of the bend.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.317	Protection from Hazards				
§192.317(a)	Does the operator take all practicable steps to protect each transmission line or main from washouts, floods, unstable soil, land slides, or other hazards that may cause the pipeline to move or sustain abnormal loads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.317(b)	Is each aboveground transmission line or main protected from accidental damage by vehicular traffic or other similar causes, either by being placed at a safe distance from the traffic or by installing barricades?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319	Installation of Pipe in Ditch				
§192.319(a)	When installed in a ditch, is each transmission line that is to be operated at a pressure producing a hoop stress of 20 percent or more of SMYS installed so that the pipe fits the ditch so as to minimize stresses and protect the pipe coating from damage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319(b)	When a ditch for a transmission line or main is backfilled, is it backfilled in a manner that:				
§192.319(b)(1)	a) Provides firm support under the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319(b)(2)	b) Prevents damage to the pipe and pipe coating from equipment or from the backfill material?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321	Installation of Plastic Pipe				
§192.321(a)	Is plastic pipe installed below ground level except as provided by §192.321(g) and (h)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(b)	Is plastic pipe installed in a vault or below grade enclosure completely encased in gas-tight metal pipe and fittings that are adequately protected from corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(c)	Is plastic pipe installed so as to minimize shear or tensile stresses?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(d)	Is thermoplastic pipe that is not encased have a minimum wall thickness of 0.090 inches except that pipe with an outside diameter of 0.875 inches or less may have a minimum wall thickness of 0.062 inches?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(e)	Does plastic pipe that is not encased have an electrically conducting wire or other means of locating the pipe while it is underground? (NOTE: Tracer wire may not be wrapped around the pipe and contact with the pipe must be minimized but is not prohibited. Tracer wire or other metallic elements installed for locating purposes must be resistant to corrosion damage, either by means of coated copper wire or by other means.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(f)	Is plastic pipe inserted into a casing pipe in a manner that will protect the plastic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(g)	Are the following conditions met, when uncased plastic pipe is temporarily installed above ground:				

§192.321(g)(1)	a) Can the operator demonstrate that the cumulative aboveground exposure of the pipe does not exceed the manufacturer's recommended maximum period of exposure or 2 years, whichever is less?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(g)(2)	b) Is the pipe either located where damage by external forces is unlikely or is otherwise protected against such damage/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(g)(3)	c) Does the pipe adequately resist exposure to ultraviolet light and high and low temperatures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(h)	Is plastic pipe installed on bridges only when:				
§192.321(h)(1)	a) It is installed with protection from mechanical damage, such as installation in a metallic casing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(h)(2)	b) It is protected from ultraviolet radiation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(h)(3)	c) Not allowed to exceed the pipe temperature limits specified in §192.123.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323	Casing				
§192.323	Does each casing used on a transmission line or main under a railroad or highway comply with the following:				
§192.323(a)	a) Is the casing designed to withstand the superimposed loads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323(b)	b) Are the ends sealed to prevent the possibility of water entering the casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323(c)	c) If the ends of an unvented casing are sealed and the sealing is strong enough to retain the maximum allowable operating pressure of the pipe, is the casing designed to hold the pressure at a stress level of not more than 72 percent of SMYS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323(d)	d) If vents are installed on a casing, are the vents protected from weather to prevent water from entering the casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325	Underground Clearance				
§192.325(a)	Is each transmission line installed with at least 12 inches of clearance from any other underground structure not associated with the transmission line?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(a)	If the 12 inch clearance cannot be attained, is the transmission line protected from damage that might result from the proximity of the other structure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(b)	Is each main installed with enough clearance from any other underground structure to allow proper maintenance and to protect against damage that might result from proximity to other structures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(c)	In addition, is each plastic transmission line or main installed with sufficient clearance or insulated, from any source of heat so as to prevent the heat from impairing the serviceability of the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(d)	Is each pipe-type or bottle-type holder installed with a minimum clearance from any other holder as prescribed in §192.175(b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327	Cover				
§192.327(a)	Except as provided in §192.327(c), (e), (f) and (g), is each buried transmission line installed with a minimum cover as follows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Location	Normal soil	Consolidated rock
	Inches	
Class 1 locations	30	18
Class 2, 3, and 4 locations	36	24
Drainage ditches of public roads and railroad crossings	36	24

§192.327(b)	Except as provided in §192.327(c) and (d), is each main installed with at least 24 inches of cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(c)	Where an underground structure prevents the installation of a transmission line or main with the minimum cover, is additional protection provided to withstand anticipated external loads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)	A main may be installed with less than 24 inches of cover if the law of the State or municipality if -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)(1)	a) A minimum cover of less than 24 inches has been established.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)(2)	b) There is a requirement that mains must be installed in a common trench with other utility lines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)(3)	c) There is a provision for adequate prevention of damages to the pipe by external forces.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Pipeline Safety Inspection Form
First and Second Half CY - 2008
S.D.P.U.C.**

OPERATOR:	INSPECTION UNIT:
INSPECTOR(S):	DATE:
OPERATOR PERSONNEL:	
TYPE OF OPERATOR	
OPID	

S – Satisfactory N/I – Not Inspected U – Unsatisfactory N/A – Not applicable

ABNORMAL OPERATIONS – TRANSMISSION LINES		S	N/I	U	N/A
§192.605(c)	Written procedures must be followed to provide safety when operating design limits have been exceeded. Does the operator have procedures for: (1) Responding to, investigating and correcting the cause of:				
§192.605(c)(1)(i)	Unintended closure of valves or shutdowns?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(ii)	An increase or decrease in pressure or flow rate outside of normal operating limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(iii)	Loss of communications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(iv)	The operation of any safety device?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(v)	Any other malfunction of a component?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(v)	Any deviation from normal operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(1)(v)	Any other foreseeable malfunction of a component, deviation from normal operation, or personnel error?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(2)	Checking variations from the normal operation after abnormal operations have ended at sufficient critical locations in the system to determine continued integrity and safe operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(3)	Notifying the responsible operating personnel when notice of an abnormal operation is received?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.605(c)(4)	Periodically reviewing the response of operating personnel to determine the effectiveness of the procedures and taking corrective action where deficiencies are found?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAFETY-RELATED CONDITIONS		S	N/I	U	N/A
§192.605(d)	Does the O&M Manual include instructions enabling personnel to recognize conditions that potentially may be safety-related conditions subject to the reporting requirements of §191.23?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§191.25(b)(8)	Was proper corrective action taken?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SURVEILLANCE		S	N/I	U	N/A
§192.605(e)	Procedures for §192.613?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.613(a)	Does the operator have appropriate procedures for continuing surveillance to determine and take appropriate action concerning changes in class location, failures, leakage history, corrosion, cathodic protection, and other unusual conditions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.613(b)	Has the operator initiated a program to correct problems discovered?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DAMAGE PREVENTION		S	N/I	U	N/A
§192.605(b)	Procedures for §192.614?				
§192.614	(a) Does the operator have a written damage prevention program for onshore locations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) A company program?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Member of a one-call system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Does (#1) & (#2) above comply with the following requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(1) Identify persons who engage in excavating?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Provide for notification of the public and actual notification of persons who normally engage in excavation activities 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 for notification of pending excavations to the members?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5) Provide for a means of temporary marking of the pipeline in the vicinity of the excavations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(6) Provides for follow up 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 must be done 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"/>

PUBLIC EDUCATION		S	N/I	U	N/A
§192.605(b)	Procedures for §192.616?				
API RP 1162 Section 7.1	Does the operator's O&MP manual include:				
	an overall statement of management commitment				
	roles and responsibilities (by group or title)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a requirement for a written program and evaluation process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	summary of the operator's Public Awareness Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FAILURE INVESTIGATION		S	N/I	U	N/A
§192.605(e)	Procedures for §192.617?				
§192.617	Is a procedure established for 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"/>

MAXIMUM ALLOWABLE OPERATING PRESSURE		S	N/I	U	N/A
§192.605(b)	Procedures for §192.619/.621/.623?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.619/.621 §192.623	Is the MAOP commensurate with the class location? (Spot check calculations)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	How was the MAOP determined? (a) By design and test?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b) By highest operating pressure to which the segment of line was subjected between July 1, 1965 and July 1, 1970.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Were MAOP's determined correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM	Initial Operation Month/yr.	Highest Pressure Test	Highest Operating Pressure	MAOP	Limiting Basis

NOTES:

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TELEMETERING OR RECORDING GAUGES - DISTRIBUTION		S	N/I	U	N/A
§192.605(b)	Procedures for §192.741?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.741(a)	Does the operator have telemetering or pressure recording gauges to indicate gas pressure in the district that is supplied by more than one district pressure regulating station?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.741(b)	Has the operator determined if telemetering or pressure recording gauges are needed for a distribution system supplied by only one district pressure regulating station?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.741(c)	Does the operator inspect equipment and take corrective measures when there are indications of abnormally high or low pressure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PREVENTION OF ACCIDENTAL IGNITION		S	N/I	U	N/A
§192.605(b)	Do procedures provide for:				
§192.751(a)	(a) Removal of ignition sources in presence of gas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.751(a)	(b) Provide for fire extinguisher?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.751(b)	(c) Preventing, welding or cutting on pipeline containing combustible mixture.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.751(c)	(d) Posting warning signs, where appropriate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONSTRUCTION PRACTICES		S	N/I	U	N/A
§192.313	Bends and Elbows				
§192.313(a)	Does each field bend in steel pipe, other than a wrinkle bend made in accordance with §192.315, comply with the following:				
§192.313(1)	a) The bend does not impair the serviceability of the pipe.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(2)	b) The bend must have a smooth contour and be free from buckling, cracks, or any other mechanical damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(3)	3) Is the longitudinal weld as near as practicable to the neutral access of the bend unless;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) The bend is made with an internal bending mandrel; or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b) The pipe is 12 inches or less in outside diameter or has a diameter to wall thickness ratio less than 70.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)	Each circumferential weld of steel pipe which is located where the stress during bending causes a permanent deformation in the pipe must be nondestructively tested either before or after the bending process.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(c)	Wrought-steel welding elbows and transverse segments of these elbows may not be used for changes in direction on steel pipe that is 2 inches or more in diameter unless the arc length, as measured along the crotch, is at least 1 inch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.315	Wrinkle Bends in Steel Pipe				
§192.315(a)	Are wrinkle bends prohibited on steel pipe to be operated at a pressure that produces a hoop stress of 30 percent or more, of SMYS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)	Does each wrinkle bend on steel pipe comply with the following:				
§192.313(b)(1)	a) The bend must not have any sharp kinks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)(2)	b) When measured along the crotch of the bend, the wrinkles must be a distance of at least one pipe diameter.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)(3)	c) On pipe 16 inches or larger in diameter, the bend may not have a deflection of more than 1½° for each wrinkle.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)(4)	d) On pipe containing a longitudinal weld the longitudinal seam must be near as practicable to the neutral axis of the bend.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

§192.317	Protection from Hazards				
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§192.317(a)	Does the operator take all practicable steps to protect each transmission line or main from washouts, floods, unstable soil, land slides, or other hazards that may cause the pipeline to move or sustain abnormal loads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.317(b)	Is each aboveground transmission line or main protected from accidental damage by vehicular traffic or other similar causes, either by being placed at a safe distance from the traffic or by installing barricades?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319	Installation of Pipe in Ditch				
§192.319(a)	When installed in a ditch, is each transmission line that is to be operated at a pressure producing a hoop stress of 20 percent or more of SMYS installed so that the pipe fits the ditch so as to minimize stresses and protect the pipe coating from damage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319(b)	When a ditch for a transmission line or main is backfilled, is it backfilled in a manner that:				
§192.319(b)(1)	a) Provides firm support under the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319(b)(2)	b) Prevents damage to the pipe and pipe coating from equipment or from the backfill material?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321	Installation of Plastic Pipe				
§192.321(a)	Is plastic pipe installed below ground level except as provided by §192.321(g) and (h)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(b)	Is plastic pipe installed in a vault or below grade enclosure completely encased in gas-tight metal pipe and fittings that are adequately protected from corrosion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(c)	Is plastic pipe installed so as to minimize shear or tensile stresses?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(d)	Is thermoplastic pipe that is not encased have a minimum wall thickness of 0.090 inches except that pipe with an outside diameter of 0.875 inches or less may have a minimum wall thickness of 0.062 inches?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(e)	Does plastic pipe that is not encased have an electrically conducting wire or other means of locating the pipe while it is underground? (NOTE: Tracer wire may not be wrapped around the pipe and contact with the pipe must be minimized but is not prohibited. Tracer wire or other metallic elements installed for locating purposes must be resistant to corrosion damage, either by means of coated copper wire or by other means.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(f)	Is plastic pipe inserted into a casing pipe in a manner that will protect the plastic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(g)	Are the following conditions met, when uncased plastic pipe is temporarily installed above ground:				
§192.321(g)(1)	a) Can the operator demonstrate that the cumulative aboveground exposure of the pipe does not exceed the manufacture's recommended maximum period of exposure or 2 years, whichever is less?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(g)(2)	b) Is the pipe either located where damage by external forces is unlikely or is otherwise protected against such damage/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(g)(3)	c) Does the pipe adequately resist exposure to ultraviolet light and high and low temperatures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(h)	Is plastic pipe installed on bridges only when:				
§192.321(h)(1)	a) It is installed with protection from mechanical damage, such as installation in a metallic casing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(h)(2)	b) It is protected from ultraviolet radiation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.321(h)(3)	c) Not allowed to exceed the pipe temperature limits specified in §192.123.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323	Casing				

§192.323	Does each casing used on a transmission line or main under a railroad or highway comply with the following:				
§192.323(a)	a) Is the casing designed to withstand the superimposed loads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323(b)	b) Are the ends sealed to prevent the possibility of water entering the casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323(c)	c) If the ends of an unvented casing are sealed and the sealing is strong enough to retain the maximum allowable operating pressure of the pipe, is the casing designed to hold the pressure at a stress level of not more than 72 percent of SMYS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.323(d)	d) If vents are installed on a casing, are the vents protected from weather to prevent water from entering the casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325	Underground Clearance				
§192.325(a)	Is each transmission line installed with at least 12 inches of clearance from any other underground structure not associated with the transmission line?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(a)	If the 12 inch clearance cannot be attained, is the transmission line protected from damage that might result from the proximity of the other structure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(b)	Is each main installed with enough clearance from any other underground structure to allow proper maintenance and to protect against damage that might result from proximity to other structures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(c)	In addition, is each plastic transmission line or main installed with sufficient clearance or insulated, from any source of heat so as to prevent the heat from impairing the serviceability of the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(d)	Is each pipe-type or bottle-type holder installed with a minimum clearance from any other holder as prescribed in §192.175(b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327	Cover				
§192.327(a)	Except as provided in §192.327(c), (e), (f) and (g), is each buried transmission line installed with a minimum cover as follows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Location	Normal soil	Consolidated rock
	Inches	
Class 1 locations	30	18
Class 2, 3, and 4 locations	36	24
Drainage ditches of public roads and railroad crossings	36	24

§192.327(b)	Except as provided in §192.327(c) and (d), is each main installed with at least 24 inches of cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(c)	Where an underground structure prevents the installation of a transmission line or main with the minimum cover, is additional protection provided to withstand anticipated external loads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)	A main may be installed with less than 24 inches of cover if the law of the State or municipality if -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)(1)	a) A minimum cover of less than 24 inches has been established.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)(2)	b) There is a requirement that mains must be installed in a common trench with other utility lines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.327(d)(3)	c) There is a provision for adequate prevention of damages to the pipe by external forces.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>