



Construction Inspection Report

Company Information

Company Headquarters		Opins ID#
Address		
City	State/Zip	
Executive Officer	Title	
Phone	Fax	
Emergency Telephone	E-Mail	

Inspection Unit Information

Unit Name		
Address		
City	State/Zip	
Audit Contact	Title	
Phone	Fax	
Emergency Telephone	Unit Record ID#	Inspection Record ID#

Inspection

OPS Representative		Start Date	End Date
Project #	Report: <input type="checkbox"/> Initial <input type="checkbox"/> Mid <input type="checkbox"/> Final		
Description of System			
Persons Interviewed	Title	Phone Number	

Plastic

N/A

Code Section	Description
§192.59	Qualification of Plastic Pipe:
(1)(a)	Manufacturer in accordance with the listed specifications:
192.63	Markings of Materials
(1)	Are thermoplastic fittings marked in accordance with ASTM D 2513?
(1)(c)	Are items marked by die stamping blunt or rounded edges
	Total footage or miles:

S = Satisfactory U = Unsatisfactory N/A = Not Applicable N/O = Not Observed

Code Section	Description	S	U	N/A	N/O
§192.63(a)	Are pipe, valves, and fittings properly marked for identification?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.63(c)	Were pipe valves and fittings marked with other than field die stamping?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.121	Was the pipeline designed in accordance with this formula: $P = \frac{2S}{SDR - 1} \times 0.32$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.123	Does the design pressure exceed 100 psig?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(1)	If design pressure does exceed 100 psig is the pressure within 125 psig?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	If the design pressure is 125 psig is the material of pipe PE 2406 or a PE 3408?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	If the design pressure is 125 psig is the pipe size 12 inches or less?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.181	Distribution line valves				
(c)(1)	Are valves placed in a readily accessible location so as to facilitate its operation in an emergency?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)(3)	If valve is installed in a buried box or enclosure, is the box installed as to avoid transmitting loads to the main?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.193	Are valves that are installed designed to protect the plastic from excessive torsional or shearing loads, as well as other secondary stress when the valve is being operated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.273(b)	General; Are joints made in accordance with written procedures that have been proven by test or experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Is each joint visually inspected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Heater temperature maintained?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.281	Plastic Pipe				
	What joining methods are being used? Solvent Cement <input type="checkbox"/> Adhesive <input type="checkbox"/> Heat Fusion <input type="checkbox"/>				
(a)	Are joints given required amount of time to properly set?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) (1)	Are mating surfaces cleaned and dried?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c) (1)	Is the operator using the proper equipment when making a butt fusion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Does the equipment compress the heated ends together and hold the pipe in proper alignment while the plastic hardens?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	Socket fusion joints being joined by a device that heats the surfaces of the joint uniformly and simultaneously to the same temperature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	Electro fusion joints being joined using the equipment of the fittings manufacture?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If pipe is joined by other equipment or techniques are the joints tested to the requirements of 192.283 (a) (1) (iii)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are these tests equivalent to the equipment and techniques of the fittings manufacturer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	Adhesive Joints conform to ASTM/ANSI Designation: D2517?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Are the materials and adhesive compatible with each other?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e)	Mechanical joints; are the gasket material in the coupling compatible with plastic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Is the rigid internal tubular stiffener used in conjunction with the coupling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.285	Qualifying persons to make joints:				
(a)	Are joints made in accordance with written procedures that have been proven by test or experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)(1)	Had training or experience in use of procedure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)(2)	Made specimen joints that were visually inspected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)(3)	Destructively tested?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)(4)	Qualified for similar and/or dissimilar materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Is the person making the joints re-qualified under an applicable procedure, if during any 12 months period that person does not make any joints under that procedure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Has 3 joints or 3 percent of the joints made, whichever is greater, found to be unacceptable by testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.287	Has the operator established a method to determine that each person making plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	joints in their system is qualified under the requirements of 192.285?				
	Heat Fusion Joiner: Name: Cert. No.: Expiration Date: Certified by: Date:				
192.321	Installation of Plastic Pipe				
(a)	Is pipe being installed below ground level?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(g)(1)	If not; is the uncased pipe temporarily installed and does not exceed the manufacturer's recommended maximum periods of exposure or 2 years, whichever is less.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	If buried below ground is the pipe being installed so as to minimize shear or tensile stresses?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	Is thermoplastic pipe that is not encased has a minimum wall thickness of 0.090 inch?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(e)	Is the pipe that is not encased has an electrically conducting wire or other means of locating?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Tracer wire may not be wrapped around the pipe and contact with the pipe must be minimized but is not prohibited.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f)	If pipe is encased is it inserted into the casing in a manner that will protect the plastic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(h)	Is the pipe being installed on bridges?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If yes, is the pipe 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"/>
	Protected from ultraviolet radiation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Has not exceeded the pipe temperature limits specified in 192.123.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.325	Underground clearance				
	Is each main being installed with enough clearance from any other underground structure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Is the main being installed with at least 24 inches of cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.361	Service Line: Installation				
(a)	Depth: Each buried service line installed with at least 12 inches of cover?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Supported and backfilled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.513	Test Requirements				
(a)	Each segment of pipe is tested in accordance with this section?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Test procedure insure discovery of all potentially hazardous leaks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c)	Test pressure is at least 150 percent of the maximum operating pressure or 50 psig, whichever is greater.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d)	The temperature of the thermoplastic material, at time of testing, was not more than 100 degree F?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.515	Does the operator take every reasonable precaution to protect the general public and all personnel during testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b)	Does the operator insure 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	Test Records				
(1)	Operator's name, name of operator's employee responsible for making the test and the name of the test company used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(2)	Test medium, test pressure and test duration?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(3)	Pressure recording charts or other records of pressure readings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(4)	Elevation variation, whenever significant for the particular test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(5)	Leaks and failures noted and their disposition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
192.805	Qualification Program				
	Refer to record's form for OQ for replacement jobs.				

Steel		N/A <input type="checkbox"/>
Code Section	Description	
§192.55(a)	Qualification of Pipe:	
(I) Pipe	(a) Manufacturer:	
	(b) Manufacturing Standard & Grade:	
	(c) OD:	
	(d) Wall Thickness:	
	(e) Wt. #/ft:	
	(f) Type Longitudinal Weld:	
	(g) SMYS:	
	(h) Joint Design Bevel:	
	(i) Internal Coating:	
	(j) Min. Joint Length:	
	(k) Total footage or miles:	

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Code Section	Description	S	U	N/A	N/O
§192.55(b)	Does the steel pipe meet one of the API or ASTM Listed Specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.63(a)	Are pipe, valves, and fittings properly marked for identification?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.63(c)	Were pipe valves and fittings marked with other than field die stamping?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.105(a)	Was the pipeline designed in accordance with this formula: $P = \frac{2St}{D} x FET$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.113	Is the longitudinal joint factor (E) for steel pipe equal to 1 (See table)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.115	Is the temperature derating factor (T) for steel pipe equal to 1 (See table)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.145	Does each valve meet the minimum requirements, or the equivalent, of API 6A, API 6D, MSS SP70, MSS SP71, or MSS SP78?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.147	Does each flange or flange accessory meet the minimum requirements of ANSI B16.5, MSS SP44, or ANSI B16.24, or equivalent?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.149	Are steel butt welded fittings rated at or above the pressure and temperature as the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.159	Is the pipeline designed with enough flexibility to prevent thermal expansion or contraction from causing excessive stresses in the pipe or component?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.161(d)	For a pipeline to operate at 50% of SMYS, are structural supports not welded directly to the pipe, but to a member that completely encircles the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.161(e)	Is each underground pipeline that is connected to a relatively unyielding line or fixed object provided with enough flexibility to allow for possible movement, or is it anchored?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.229	Were welders qualified by Radiography and is there a qualification record available which meet the following standards of acceptability:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

STANDARDS OF ACCEPTABILITY PER SEC. 6, API STD. 1104		
Type	Individual Length	Length Cumulative in 12 inches
Inadequate Penetration (weld root)	1"	1"
Inadequate Penetration (due to high low)	2"	3"
Incomplete Fusion (root or top of joint)	1"	1"
Incomplete Fusion (due to cold lap)	2"	2"
BurnThrough	1/4"	1/2"
Elongated Slag Inclusions (wagon tracks)	1/16" Width 2" Length	2"
Isolated Slag Inclusions	1/8" Width 1/2" Length	4 or less 1/8" Wide
Porosity (spherical)	1/8"	25% of w.t.
Porosity (cluster)	1/2" diameter area 1/16" (Individual)	1/2"
Porosity (worn hole)	1/18"	25% of w.t.
Porosity (hollow bead)	1/2"	2"
Cracks	5/32" or less	5/32" or less
Under cutting (internal)	2" Length unless depth is visually determined by use of a depth	2"

	measuring device on all under cutting along the entire circumference of the weld.	
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Code Section	Description	S	U	N/A	N/O
§192.229(a)	Are all welders on compressor station piping and components qualified by means other than non destructive testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.229(b)	Has the welder with this same process and has a weld been tested and found acceptable within the last 6 months?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.231	Is the welding operation protected from weather conditions that could impair the quality of the completed weld?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.235	Are the welding surfaces clean, free of foreign material, and aligned in accordance with the qualified welding procedure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.241	Are inspectors performing visual inspection to check for adherence to the welding procedure and the acceptability of welds as per Sec. 6, API Std. 1104, except for Subsection 6.9 for depth of undercutting adjacent to the root bead?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(a)	Is a detailed written NDT procedure established & qualified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(b)	Are there records to qualify procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(c)	Is the radiographer trained & qualified? (Level II or better)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(d)	Are the following percentages of each days field butt weld nondestructively tested? (1) 10% in Class I (2) 15% in Class II (3) 100% in Class III & IV, river crossings, within railroad or public highway ROWs, tunnels, bridges, overhead road crossings; however, if impracticable may test not less than 90%. (4) 100% at pipeline tie-ins.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.243(f)	Do the radiograph records and daily reports show: (1) No. of welds made (2) No. of weld tested (3) No. of welds rejected (4) Disposition of rejects (5) Is there a correlation of welds & radiographs to a benchmark (Engineering station or survey marker)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.245(a)	(1) Are cracks longer than 8% of the weld length removed? (2) For each weld that is repaired, is the defect removed down to clean metal & is the pipe preheated if conditions demand it?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.245(b)	(1) Are the repairs inspected to insure acceptability? (2) 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"/>
§192.303	Are comprehensive written construction specifications available and adhered to?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.305	Are inspections performed to check adherence to the construction specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.307	Is material being visually inspected at the site of installation to insure against damage that could impair its serviceability?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(a)	Are any defects or damage that impairs the serviceability of a length of steel pipe such as a gouge, dent, groove, or arc burn repaired or removed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.309(c)	If repairs are made by grinding, is the remaining wall thickness in conformance with the tolerances in the pipe manufacturing specifications or the normal wall thickness required for the design pressure of the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.313(b)	If a circumferential weld is permanently deformed during bending, is the weld nondestructively tested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319(a)	When pipe is placed in the ditch, is it installed so as to fit the ditch, minimize stresses, & protect the pipe coating from damage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.319(b)	Does backfill provide firm support under the pipe & is the ditch backfilled in a manner that prevents damage to the pipe and coating from equipment or the backfill material?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.461(c)	Is the external protection coating inspected (by jeeping, etc.) prior to lowering the pipe into the ditch?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.325(a)	Is there 12 inches clearance between the pipeline & any other underground structure? If 12 inches cannot be attained, are adequate provisions made to protect the pipeline from damage that could result from the proximity of the other structure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Code Section	Description	S	U	N/A	N/O
§192.327(a)	(1) Is pipe in a Class I location installed with 30' cover in normal soil, or 24" cover in consolidated rock?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Is pipe in Class II, III, and IV locations, drainage ditches of public roads and railroads crossing, installed with 36" cover in normal soil or 24" cover in consolidated rock?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Does pipe installed in a river or harbor have 48" cover in soil or 24" cover in consolidated rock?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) If the above cover cannot be attained, is additional protection provided to withstand anticipated external loads?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ALTERNATIVE MAOP ONLY!!!		S	U	N/A	N/O
§192.328 (a)	<ul style="list-style-type: none"> Construction of the pipeline must be done under a quality assurance plan addressing: pipe inspection, hauling and stringing, field bending, welding, non-destructive examination of girth welds, applying and testing field applied coating, lowering of pipeline into the ditch, padding and backfilling, and hydrostatic testing. The quality assurance plan for applying and testing field applied coating to girth welds must be: <ol style="list-style-type: none"> Equivalent to that required under 192.112(f)(3) for pipe Performed by an individual with the knowledge, skills, and ability to assure effective coating application. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.328 (b)	<ul style="list-style-type: none"> All girth welds must be non-destructively examined in accordance with 192.243 (b)&(c). 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.328 (c)	<ul style="list-style-type: none"> There must be at least 36 inches of cover or equivalent means to protect the pipeline from outside force damage. In areas where deep tilling or other activities could threaten the pipeline, the top of the pipeline must be installed at least one foot below the deepest expected penetration of the soil. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.328 (d)	The pipeline must not have experienced failures indicative of systemic material defects during strength testing, including the initial hydrotesting. A root cause analysis of the failed pipe must be performed for any failure experienced to verify that it is not indicative of a systemic concern. The results of the root cause analysis must be REPORTED TO EACH PHMSA REGIONAL OFFICE AND APPROPRIATE STATE PROGRAM, where the pipe will be in service, 60 days prior to operating at the alternative MAOP.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.328 (e)	<ul style="list-style-type: none"> Construction must address the impacts of induced alternating current from parallel electric transmission lines or other known sources of potential interference with corrosion control. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.455(a)	(1) Does the pipeline have an effective external coating and does it meet the coating specifications?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Is a cathodic protection system installed or being provided for?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.471(a)	(1) Are test leads mechanically secure and electrically conductive.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Are test leads attached to the pipe by caldwelding or other process so as to minimize stress concentration on the pipe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Are the bare test lead and the connection to the pipe coating?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.503(a)	(1) Is a hydrostatic pressure test planned to substantiate the MAOP?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) If the pipeline has been hydrostatically tested, have all potentially hazardous leaks been located & eliminated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(a)	(1) Is there a specified HTP testing procedure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Is the specified test pressure equal to 1.1 x MAOP for Class 2, 1.25 x MAOP for Class 2, and 1.5 x MAOP for Class 3 & 4?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(c)	For pipelines which operate at 30% or more of SMYS, is the minimum test duration for the pipe line at least 8 hours? (Strength Test)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.505(e)	Is the minimum test duration for pretested fabricated units & short sections of pipe at least 4 hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.515(a)	Does the operator take every reasonable precaution to protect the general public & all personnel during testing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.515(b)	Does the operator insure 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	Do the test records include the following: (1) Operator's name, name of operator's employee responsible for making the test, and the name of the test company used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§192.805	(2) Test medium, test pressure, and test duration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Pressure recording charts or other record of pressure readings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Elevation variations, whenever significant for the particular test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(5) Leaks and failures noted and their disposition.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Qualification Program				
	Refer to record's forms for OQ for replacement jobs.				