

## PIPELINE SAFETY RECORDS INSPECTION CHECKLIST

2013

South Dakota Public Utilities Commission

I. GENERAL INFORMAT	ΓΙΟΝ
Operator Evaluated	
Operator IOCS ID	
Inspection Unit IOCS ID	
Unit Description	
Portions of Unit Inspected	
Contact Person / Title (person interviewed)	Phone Number
Responsible Party/Title	Phone Number
Mailing Address	i
Inspection Date	Last Inspection Date
Location of Inspection	
Inspector Name	

II. PART 192 –	CUSTOMER NOTIFICATION	S	N/I	U	N/A
§192.16	Has the operator notified all customers by August 14, 1996 or new				
-	customers within 90 days of their responsibility for those sections of				
	service lines not maintained by the operator?				
§192.16 (b)	Does the operator have a current copy of the notification?				
	Does notification contain all the following requirements:				
	(1) operator does not maintain the customer's buried piping				
	(2) if customer's buried piping is not maintained, it may be subject to				
	corrosion and leakage				
	(3) buried gas piping should be:				
	(i) periodically inspected for leaks				
	(ii) periodically inspected for corrosion (if metal pipe)				
	(iii) repaired if any unsafe condition is discovered				
	(4) when excavating near buried gas piping, the piping should be				
	located in advance, and the excavation done by hand				
	(5) the operator, plumbing contractors, and heating contractors can				
	assist in locating, inspecting, and repairing the customer's buried				
	piping				

III. PART 192 –	EXCESS FLOW VALVES	S	N/I	U	N/A
§192.381(a)	Are excess flow valves (that operate at $\geq$ 10 psi) manufactured and				
	tested to an industry standard or manufacturer's written specification to ensure each valve will:				
§192.381(a)(1)	Function properly up to the MAOP at which valve is rated;				
§192.381(a)(2)	Function properly at all temperatures reasonably expected in the				
	operating environment of the service line;				
§192.381(a)(3)	<ul> <li>(i) at 10 psi gage – close at &lt; 50 % above the rated closure flow specified by manufacturer; AND</li> </ul>				
§192.381(a)(3)	upon closure, reduce gas flow to:				
	(ii)(A) no more than 5% of manufacturer's specified closure flow rate				
	for an EFV designed to <u>allow pressure to equalize</u> across the valve (up to a maximum of 20 $ti^3$ /kr)				
	(up to a maximum of 20 ft³/hr) – OR –				
	(ii)(B) no more than 0.4 ft <sup>3</sup> /hr for an EFV designed to <u>prevent</u>				
	equalization of pressure across the valve; AND				
§192.381(a)(4)	Not close when the pressure is less than the manufacturer's				
	minimum specified operating pressure AND the flow rate is below				
	the manufacturer's minimum specified closure flow rate?				
§192.381(b)	Do the EFV valves meet the applicable requirements of Subparts B				
	and D?				
§192.381(c)	Does the operator mark or otherwise identify the presence of an excess flow valve on a service line?				
§192.381(d)	Does the operator locate the EFV as near as practical to the fitting				
	connecting the service line to its source of gas supply?				
§192.381(e)	Does operator not install EFV on a service line where operator has				
	prior experience with contaminants in gas stream where				
	contaminants could cause EFV to malfunction or where EFV would				
	interfere with necessary O&M activities, such as blowing liquids from the line?				
§192.383(b)	Has the operator installed § 192.381 compliant EFV's on all new or				
9192.303(b)	replaced service line serving a single-family residence after				
	February 12, 2010?				
	Exceptions:				
	(1) The service line does not operate at a pressure of 10 psig or				
	greater throughout the year;				
	(2) The operator has prior experience with contaminants in the gas				
	stream that could interfere with the EFV's operation or cause loss of				
	<ul><li>service to a residence;</li><li>(3) An EFV could interfere with necessary operation or maintenance</li></ul>				
	activities, such as blowing liquids from the line; or				
	(4) An EFV meeting performance standards in § 192.381 is not				
	commercially available to the operator.				
§192.383(c)	Does the annual report contain the number of EFV's installed?				

IV. PART 192 – CORROSION GENERAL		N/I	U	N/A
(c) Are these procedures under the responsibility of a qualified person?				

V. PART 192 – EXTERNAL CORROSION CONTROL		N/I	U	N/A
Did the operator use calibrated half cells?				

V. PART 192 – E	XTERNAL CORROSION CONTROL	S	N/I	U	N/A
§192.455(a)	For pipelines installed after July 31, 1971: Are buried segments				
	externally coated & cathodically protected within one year?				
§192.455(b)	For pipelines installed without cathodic protection: Are there any				
	pipelines without cathodic protection?				
	(1) Has the operator proved that a corrosive environment does not				
	exist?				
	(2) Conducted tests within 6-months to confirm (#1) above?				
§192.455	Pipeline Material Types: What kinds of pipeline materials are				
	used? Steel, Copper, Aluminum, Plastic, Cast Iron				
§192.455(c)(1)	For bare copper pipeline: Is the pipeline cathodically protected if a				
	corrosive environment exists?				
§192.455(c)(2)	For bare temporary (less than 5 year period of service)				
	pipelines: For unprotected pipelines, has it been demonstrated that				
	corrosion during the 5-year period will not be detrimental to public				
	safety?				
§192.455(e)	For aluminum pipeline: Is the natural pH of the environment <8.0?				
	If not, has operater conducted tests or have experience to indicate				
	the aluminum pipeline suitability with its environment?				
§192.455(f)	Metal alloy fittings on plastic pipelines:				
	(1) Has operator shown by test, investigation, or experience that				
	adequate corrosion control is provided by the alloy composition?				
	(2) Fitting is designed to prevent leakage caused by localized				
	corrosion pitting?				
§192.457(a)	Pipelines installed before August 1, 1971: Are effectively coated				
	transmission pipelines cathodically protected?				
§192.457(b)	(Except for cast iron or ductile iron) Is cathodic protection provided in				
	areas of active corrosion on:				
	(1) existing bare or ineffectively coated transmission pipelines?				
	(2) existing bare or coated pipes at compressor, regulator, and				
	measuring stations?				
	(3) existing bare or coated distribution lines?				
§192.459	When the operator has knowledge that any pipeline is exposed, is				
	the exposed pipe examined for:				
	(a) Evidence of corrosion?				
	(b) Coating deterioration?				
§192.459	If external corrosion requiring remedial action is found, is the				
	pipeline investigated circumferentially and longitudinally beyond the				
	exposed portion to determine whether additional corrosion requiring				
	remedial action exists?				
§192.459	Does operator have procedures established for examining exposed				
	cast iron pipe for evidence of graphitization?				
	Does operator have procedures established for remedial measures				
	on <b>cast iron</b> pipe if graphitization is discovered, AGA GPTC				
	Appendix G-18 (NTSB)?				
§192.461(a)	Does the coating on steel pipe meet the requirements of this part?				
	(1) applied on a properly prepared surface?				
	(2) has sufficient adhesion to resist underfilm migration of moisture?				
	(3) sufficiently ductile to resist cracking?				
	(4) has sufficient strength to resist damage due to handling and soil				
	stress?				
	(5) compatible with supplemental cathodic protection?				
§192.461(b)	If external coating is electrically insulating does it have low moisture				
	absorption and high electrical resistance?				
§192.461(c)	Is the external coating inspected prior to lowering the pipe into the				
	ditch and is any damage repaired?				

V. PART 192 – EX	(TERNAL CORROSION CONTROL	S	N/I	U	N/A
§192.461(d)	Is external protective coating protected from damage resulting from				
	adverse ditch conditions or damage from supporting blocks?				
§192.461(e)	If coated pipe is installed by boring, driving, or similar method, are				
	precautions taken to minimize damage to the coating?				
§192.463 (a)	Does the level of cathodic protection meet the requirements of				
	Appendix D criteria?				
Appendix D	Steel, cast iron, and ductile iron				
Part I	(1) a negative (cathodic) voltage of at least 0.85 volt (Cu-CuSO <sub>4</sub> $\frac{1}{2}$ cell) also need to consider IR drop				
	(2) a negative voltage shift of at least 300 millivolts (applies to				
	structure not in contact with metals of different anodic potentials)				
	also need to consider IR drop				
	(3) a minimum negative polarization voltage shift of 100 millivolts				
	(interrupting the protective current and measuring the polarization				
	decay)				
	(4) voltage at least as negative as that originally established at				
	beginning of Tafel segment of E-log-I curve				
	(5) net protective current				
	Refer to Appendix D if aluminum, copper, or other metals are within				
	the system also note that other reference cells besides Cu-CuSO4				
	half-cells can be used if they meet criteria in Section IV of Appendix				
	D				
§192 Appendix D. Part II	Does the operator criteria consider <b>IR</b> drop?				
§192.463 (b)	If amphoteric metals are included in a buried or submerged pipeline				
,	containing a metal or different anodic potential are they:				
	(1) electrically isolated from the remainder of the pipeline and				
	cathodically protected?; OR				
	(2) cathodically protected at a level that meets the requirements of				
	Appendix D for amphoteric metals?				
§192.463 (c)	Is the amount of cathodic protection controlled to prevent damage to				
	the protective coating or the pipe?				
§192.465(a)	Has each pipeline that is cathodically protected been tested at least				
	once each calendar year not to exceed <b>15</b> months?				
§192.465(a)	Are 10 percent of short sections of mains or transmission lines and				
	separately protected service lines distributed over the entire system				
	tested each year on a sampling basis, with a different 10 percent				
	checked each year, so that the entire system is checked in each 10				
§192.465(b)	year period? Has each cathodic protection rectifier been inspected at least <b>six</b>				
§192.465(b)	times each year not to exceed <b>2-1/2</b> months?				
§192.465(c)	Does the operator check for proper performance of each reverse				
	current switch, diode, and interference bond whose failure would				
	jeopardize structure protection at least <b>six</b> times each calendar year,				
	but with intervals not exceeding 2-1/2 months?				
§192.465(c)	Does the operator check for proper performance of other				
	interference bonds at least once each calendar year, at intervals not				
<b>•</b> • • • • • • • • • • • • • • • • • •	exceeding 15 months?				L
§192.465(d)	Is prompt remedial action taken to correct any deficiencies indicated				
	by the monitoring?				
	(a) Shorted Casings (6 months)	-			<u> </u>
	(b) Rectifier (2-1/2 months)	1			<u> </u>
<b>•</b> • • • • • • • • • • • • • • • • • •	(c) Low p/s readings - case by case, depends on cause	1			<u> </u>
§192.465(e)	Does the operator have bare pipelines?			ļ	<u> </u>
	(a) Are they cathodically protected?				

V. PART 192 – I	EXTERNAL CORROSION CONTROL	S	N/I	U	N/A
	(b) Are they reevaluated at <b>3</b> year intervals not exceeding <b>39</b>				
	months?				
	(c) Are remedial measures taken where necessary?				
§192.467	Are buried pipelines electrically isolated from other underground				
	structures?				
	(a) Are casing potentials monitored to detect the presence of shorts				
	once each calendar year, not to exceed 15 months?				
	(b) Does the operator investigate & take appropriate action when				
	indications of casing shorts are found?				
	(c) Does the shorted casing procedure require or has the operator				
	made): (Enforcement Policy)				
	(1) Determination of a course of action to correct or negate the				
	effects of the shorts within 6 months of discovery.				
	(2) Verification that a short exists				
	(3) Clearing of the short, if practicable. (This must be considered				1
	before alternative measures may be used.)				
	(4) Filling the casing/pipe interstice with high-dielectric casing filler or				
	other material which provides a corrosion inhibiting environment, if it				
	is impractical to clear the short.				
	(5) If (# 3) & (# 4) are determined to be impractical, monitor the				1
	casing with leak detection equipment for leakage at intervals not				
	exceeding 7-1/2 months, but at least twice each calendar year.				
	(6) If a leak is found by monitoring casings with leak detection				
	equipment, immediate corrective action to eliminate the leak &				
	further corrosion.				
	(7) In lieu of other corrective actions, monitoring the condition of the				
	carrier pipe using an internal inspection device at specified intervals.				
§192.467(e)	(d) Are insulating devices prohibited in areas where a combustible				
	atmosphere is anticipated unless precautions are made to prevent				
	arcing?				
§192.467(f)	(e) Where pipelines are located in close proximity to electrical				1
	transmission tower footings, is protection provided to the pipelines				1
	against damage due to fault currents?				
§192.469	Are there sufficient test stations or test points?				
§192.471	(a) Are test leads mechanically secure to pipe and electrically				
	conductive?				
	(b) Are test leads attached to minimize stress concentration on the				
	pipe?				
	(c) Are each bared test lead wire and bared metallic area (at point of				
	connection) coated with an electrical insulating material compatible				
<u> </u>	with the pipe coating and insulation on the wire?				L
§192.473 (a)	Does the operator monitor their system for stray currents and take				1
	appropriate steps to minimize detrimental effects?				
§192.473 (b)	Does operator design and install each impressed current and/or				
	galvanic anode cathodic protection system to minimize adverse				1
<u> </u>	effects on existing adjacent underground metallic structures?				L
Service lines	(1) Is operator cathodically protecting service lines				
	(a) Operator owned piping/downstream of meter				<b> </b>
	(b) Operator owned piping/upstream of meter				<b> </b>
	(c) Customer owned piping/downstream of meter				
	(d) Customer owned piping/upstream of meter				
	(2) Is operator monitoring unprotected service lines				
	(a) Operator owned piping/downstream of meter				
	(b) Operator owned piping/upstream of meter				
	(c) Customer owned piping/downstream of meter				

V. PART 192 – EXTERNAL CORROSION CONTROL	S	N/I	U	N/A
(d) Customer owned piping/upstream of meter				
(3) How is monitoring performed on unprotected services				
(a) Electrical Survey: Type				
Frequency				
(b) Leak Survey: Type				
Frequency				
(4) Is there a program in effect to address corrosion problems on				
service lines				
Describe:				

VI. PART 192 -	- INTERNAL CORROSION CONTROL	S	N/I	U	N/A
§192.475(a)	Is gas tested to determine corrosive properties?				
§192.475(b)	Whenever a pipe segment is removed from a pipeline, is it examined for evidence of internal corrosion?				
	If internal corrosion is found -				
§192.475(b)	(1) Is the adjacent pipe investigated to determine the extent of internal corrosion?				
	(2) Is replacement made to the extent required by §§192.485, 192.487, or 192.489?				
	(3) Is remedial action taken ( <b>if required</b> ) to minimize internal corrosion?				
§192.475(c)	IGas containing >0.25 grain of hydrogen sulfide per 100 ft3 (at standard conditions) may not be stored in pipe-type or bottle-type holders.				
§192.476(a)	Design and construction of <b>transmission line installed after May 23</b> , <b>2007</b> :				
	Has transmission line or replacement of line pipe, valve, fitting, or other line component in a transmission line met the following requirements (unless operator proves impracticable or unnecessary):				
	<ul> <li>(1) configured to reduce risk liquid collection in line</li> <li>(2) has effective liquid removal features if configuration would allow</li> </ul>				
	liquid collection				
	<ul> <li>(3) allow for use of devices for monitoring internal corrosion at locations with significant potential for internal corrosion</li> </ul>				
§192.476(c)	If operator changes configuration of transmission line, did they evaluate the impact of the change on internal corrosion risk to downstream portion of line and provide for removal of liquids and monitoring of internal corrosion?				
§192.476(d)	Does operator maintain records that demonstrate compliance with this section? Does operator maintain as-built drawings or other construction records if found impracticable or unnecessary to follow (a)(1,2.3)				
§192.477	Have coupons (for corrosive gas only) been utilized & checked at least twice annually not to exceed 7-1/2 months?				

VII. PART 192 –	ATMOSPHERIC CORROSION CONTROL	S	N/I	U	N/A
§192.479(a)	Have above ground facilities been cleaned and coated?				
§192.479(b)	Is the coating material suitable for the prevention of atmospheric corrosion?				
§192.481(a)	Does the operator inspect piping exposed to the atmosphere at least once every 3 calendar years, at intervals not to exceed <b>39 months</b> for onshore piping?				

VII. PART 192 – A	ATMOSPHERIC CORROSION CONTROL	S	N/I	U	N/A
§192.481(b)	During inspection does the operator give particular attention to pipe at soil-to-air interfaces, under thermal insulation, under disbanded coating, at pipe supports, at deck penetrations, and in spans over water?				
§192.481(c)	If atmospheric corrosion is found, does the operator provide protection against the corrosion as required by §192.479?				

VIII. PART 192	2 – REMEDIAL MEASURES	S	N/I	U	N/A
§192.483	Is replacement steel pipe coated and cathodically protected?				
§192.485(a)	For each segment of transmission line with general corrosion and				
	with a remaining wall thickness less than that required for the MAOP				
	of the pipeline, is the section of pipeline replaced, repaired, or have				
	the operating pressure reduced?				
§192.485(b)	For each segment of transmission line with localized pitting to a				
	degree where leakage might result, is the section of pipeline				
	replaced, repaired, or have the operating pressure reduced?				
§192.485(c)	Strength of pipe based on actual remaining wall thickness may be				
	determined by ASME/ANSI B31G or AGA PR 3-805				
§192.487(a)	For distribution lines with a remaining wall thickness less than that				
	required for the MAOP of the pipeline or a remaining wall thickness				
	less than 30 percent of the nominal wall thickness, does the operator				
	replace or repair the pipe?				
§192.487(b)	For distribution lines, does the operator replace or repair pipe with				
	localized corrosion pitting?				
§192.489(a)	Is each segment of cast iron or ductile iron pipe on which general				
	graphitization is found to a degree where a fracture or any leakage				
	might result, replaced?				
§192.489(b)	Is each segment of cast iron or ductile iron pipe on which localized				
	graphitization is found to a degree where any leakage might result,				
	replaced or repaired, or sealed by internal sealing methods?				

IX. PART 192 ·	- CORROSION CONTROL RECORDS	S	N/I	U	N/A
§192.491(a)	Does the operator maintain records or maps showing the location of cathodically protected pipe and facilities?				
§192.491(b)	Does the operator retain records showing the location of cathodically protected pipe and facilities for the life of the system? (See records check list)				
§192.491(c)	Does the operator maintain a record of each test, survey, or inspection required by this subpart in sufficient detail to demonstrate adequacy of corrosion control measures or that a corrosive condition does not exist for at least 5 years?				
§192.491(c)	Does the operator retain records related to §§192.465(a) and (e) and 192.475(b) retained for as long as the pipeline remains in service?				

X. PART 192 – CHANGE IN CLASS LOCATION			N/I	U	N/A
§192.605(b)	Procedures for §192.611?				
§192.611	What does the operator alter when population density requires a change in MAOP? (a) Test the pipe to qualify the new MAOP.				
	(b) Reduce MAOP to meet the class location.				

X. PART 192 – CHANGE IN CLASS LOCATION		N/I	U	N/A
(c) Replace pipe.				
Refer to 192.611 if MAOP is confirmed or revised (also see Subpart K if applicable)				

XI. PART 192 – OI	DORIZATION OF GAS	S	N/I	U	N/A
	Did the operator use calibrated odorometers?				
	What kind of equipment is used?				
§192.625(a)	Chemical Properties - Brand Name –				
One-Fifth of the					
Lower Explosive Limit	Odorometer				
	Injection Rate				
	Odorization Method –				
§192.625(b)	Transmission Lines in Class 3 or 4 locations must comply with 192.625(a) if 50% or less of the length of the line downstream is in a Class 1 or 2 location. There are also other exceptions found within this section				
§192.625(e)	Does the equipment introduce the odorant without wide variations in the level of odorant?				
§192.625(f)	Does the operator conduct periodic sampling of combustible gases using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable?				

XII. PART 192 – MAINTENANCE		S	N/I	U	N/A
§192.703(b)	Is each segment of a pipeline that becomes unsafe, replaced, repaired or removed from service?				
§192.703(c)	Are hazardous leaks repaired promptly?				

XIII. PART 192 –	PATROLLING TRANSMISS	SION	S	N/I	U	N/A
§192.705(a)	Does the operator patrol surface conditions for indications of leaks, construction activity, or other factors on and adjacent to line ROW?					
	(a) Does the operator follow up on problems noted?					
§192.705(b)	Is the maximum interval between patrols in accordance with the following: (Maximum interval between patrols of lines)					
Class location	At Highway and Railroad Crossings	At all Other Places				
1 and 2	2/yr (7-1/2 months)	1/Year (15 months)				
3	4/yr (4-1/2 months)	2/yr (7-1/2 months)				
4	4/yr (4-1/2 months)	4/yr (4-1/2 months)				

XIV. PART 192 – LEAK SURVEYS: TRANSMISSION		S	N/I	U	N/A
	Did the operator use calibrated leak detectors? What kind of equipment is used?				
§192.706	(a) Are leakage surveys of transmission lines conducted at intervals not exceeding 15 months but at least once each calendar year?				

XIV. PART 192 – LEAK SURVEYS: TRANSMISSION	S	N/I	U	N/A
(b) Are lines transporting unodorized gas surveyed using leak detector equipment at intervals not exceeding 7-1/2 months but at least twice each calendar year for Class 3 locations and at intervals not exceeding 4-1/2 months but at least 4 times each calendar year for Class 4 locations?				

XV. PART 192	- LINE MARKERS	S	N/I	U	N/A
§192.707(a)	Are buried mains and transmission lines marked as required in the following areas:				
	(1) at each crossing of a public road and railroad				
	(2) wherever necessary to identify the location of the line to reduce possibility of damage or interference				
§192.707(b)	EXCEPTIONS where line markers are NOT required:				
	(1) lines located at crossings of or under waterways and other water bodies				
	(2) mains in Class 3 or 4 location where damage prevention program is in effect under §192.614				
	(3) transmission lines in Class 3 or 4 locations until 3/20/1996				
	(4) transmission lines in Class 3 or 4 locations where placement of line marker is impractical				
§192.707(c)	Are line markers installed on aboveground areas accessible to the public?				
§192.707(d)	Do the line markers have the latest characteristics?				
	(1) "Warning", "Caution", "Danger" followed by "Gas Pipeline" (1" high with ¼" stroke except in heavily developed areas)				
	(2) name and telephone number of operator (24 hr access)				

XVI. PART 192	- PATROLLING DISTRIBUTION	S	N/I	U	N/A
§192.721(a)	Frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage (i.e., consider cast iron, weather conditions, known slip areas, etc.)				
§192.721(b)(1)	Does the operator patrol mains in business districts at intervals not exceeding <b>4-1/2</b> months, but at least <b>4</b> times each calendar year where anticipated physical movement or external loading could cause failure or leakage?				
§192.721(b)(2)	Does the operator patrol mains outside business districts at intervals not exceeding <b>7-1/2</b> months, but at least <b>2</b> times each calendar year where anticipated physical movement or external loading could cause failure or leakage?				

XVII. PART 192 – LEAKAGE SURVEYS: DISTRIBUTION		S	N/I	U	N/A
	Did the operator use calibrated leak detectors?				
	What kind of equipment is used?				
§192.723(b)(1)	Does the operator conduct gas detector surveys in the business district at intervals not exceeding 15 months, but at least once each				
	calendar year?				

XVII. PART 192	- LEAKAGE SURVEYS: DISTRIBUTION	S	N/I	U	N/A
§192.723(b)(2)	Does the operator conduct leakage surveys (to include manholes/cracks in pavement/other pertinent locations) of the distribution system outside of the principal business areas at intervals not exceeding 63 months, but at least once every 5 calendar year?				
	For cathodically unprotected distribution lines subject to §192.465(e) on which electrical surveys for corrosion are impractical is a leakage survey conducted at least once every 3 calendar years at intervals not exceeding 39 months?				

XVIII. PART 192	2 – ABANDONMENT OF DEACTIVATION OF FACILITIES	S	N/I	U	N/A
§192.727(b)	Is each pipeline that is abandoned in place, disconnected from all sources and supplies of gas, purged of gas, and sealed at both ends?				
§192.727(c)	Is each inactive pipeline (except service lines) that is not being maintained, disconnected from all sources and supplies of gas, purged of gas, and sealed at both ends?				
§192.727(d) (1)(2)(3)	When discontinuing service to a customer, does the operator lock or take other means to prevent a valve from being opened by unauthorized persons, or use other means?				

XIX. PART 192 –	VALVE MAINTENANCE: TRANSMISSION	S	N/I	U	N/A
§192.745(a)	Does the operator check and service each valve which might be required during an emergency at intervals not exceeding 15 months, but at least once each calendar year?				
§192.745(b)	Does the operator take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve?				

XX. PART 192 – VALVE MAINTENANCE: DISTRIBUTION		S	N/I	U	N/A
§192.745(a)	Does the operator check and service each valve which might be required during an emergency at intervals not exceeding 15 months, but at least once each calendar year?				
§192.745(b)	Does the operator take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve?				

XXI. PART 192	2 – VAULTS	S	N/I	U	N/A
§192.749(a)	Is each vault that houses pressure regulating and limiting equipment (and has an internal volume of 200 ft <sup>3</sup> or more) inspected at least once each calendar year not exceeding 15 months? Vaults need to be inspected to determine if they are in good physical condition and adequately vented.				
§192.749(b)	If gas was found in vault during inspection was equipment inspected for leaks? If leaks were found were they repaired?				
§192.749(c)	Was ventilating equipment inspected to determine if functioning properly?				
§192.749(d)	Was vault cover inspected to assure it does not present hazard to public safety?				
§192.727(f)	If any vaults were abandoned, were they filled with a suitable compacted material?				

XXII. PART 19	2 – CAULKED BELL & SPIGOT JOINTS	S	N/I	U	N/A
§192.753	Does the operator have cast-iron pipe with caulked bell and spigot joints that is subject to <b>25 p.s.i.g.</b> or more?				
§192.753(a)	Does the operator install mechanical clamps, or use a material or devices that will not reduce the flexibility of the joint, permanently bonds, and seals in a manner that meets the strength, environmental, and chemical compatibility requirements of §192.53(a) and (b) and §192.143?				
§192.753(b)	When each cast-iron caulked bell and spigot joint subject to pressures of 25 p.s.i.g. or less is exposed, does the operator seal by a means other than caulking?				

XXIII. PART 192	2 – PROTECTING CAST IRON PIPELINES	S	N/I	U	N/A
§192.755	When the operator has knowledge that a segment of buried cast-iron pipe is disturbed, does the operator provide protection from:				
§192.755(a)(1)	Vibrations from heavy construction equipment, trains, trucks, buses, or blasting.				
§192.755(a)(2)	Impact forces by vehicles				
§192.755(a)(3)	Earth movement				
§192.755(a)(4)	Apparent future excavations near the pipeline				
§192.755(a)(5)	Other foreseeable outside forces which might subject that segment of pipeline to a bending stress?				
§192.755(a)(6)	As soon as feasible does the operator provide permanent protection for the disturbed section?				