

**GENERAL INFORMATION** 

## PIPELINE SAFETY O&M MANUAL CHECKLIST

South Dakota Public Utilities Commission

Operator Evaluated					
Operator OPID (191.22)					
Unit Description					
Portions of Unit Inspected	O&M Manual and Construction Manual				
	(Does not include Public Awareness, OQ, Control Room Manag Plans, Drug & Alcohol Clinics, Records, Construction, TIMP, or		Drug a	nd Alc	ohol
Contact Person / Title (person interviewed)	Email				
Responsible Party/Title	Email				
Mailing Address					
Inspection Date	Last Inspection Date				
Location of Inspection					
Inspector Name					
I. Recent Rule Changes		S	N/I	U	N/A
Recent Gather	rules have been incorporated into the appropriate section. ing pipeline requirements are not included in this question this time only Type R gathering lines are identified in South .				
II. PART 191 – REPORTING	REQUIREMENTS	S	N/I	U	N/A

Are reporting requirements listed below included in the O&M Manual?

5. Transmission and gather system incident report (191.15

Notification of certain incidents (191.5)
 Report submission requirements (191.7)
 Distribution system incident report (191.9)

4. Distribution system annual reports (191.11)

6. Transmission system annual report (191.17)7. Notification of changes per 191.22 (c)

(definition of incident in 191.3)

(Definition of incident in 191.3)

II. PART 191 – REPOR	TING REQUIREMENTS	S	N/I	U	N/A
	8. Reporting safety related conditions (191.23) revised with				
	Mega Rule implementation 7/1/2020				
	9. Filling safety – related condition reports revised with Mega				
	Rule implementation 7/1/2020 (191.25)				
	10. How to notify PHMSA (192.18) revised with Mega Rule				
	implementation 7/1/2020				
	11. Information provide to NPMS for transmission lines (191.29)				
	12. Gathering System Annual report (192.8 &191.17)				

III. PART 192 – OF	192 – OPERATION & MAINTENANCE PLANS			S	N/I	U	N/A
§192.605(a)	Is the plan reviewed and	updated at intervals no	t exceeding 15 months				
	but at least once each cal	· · · · · · · · · · · · · · · · · · ·	•				
	Date of most current	Date of previous	Signatory				
	review & update	review & update					
	List sections of manual th		• •				
	additions/deletions) in th	e last <b>2 calendar years</b> :					
§192.605(a)	Are appropriate parts of	the manual kept at loca	tions where				
	operations and maintena	nce activities are condu	icted?				
	List locations:						
§192.605(b)(3)	Are construction records,		ory available to				
	appropriate operating pe						
	List locations where and I						
	List operating personnel	that have access to thes	se records:				
§192.605(b)(8)	Does the facility have a p	rocedure to periodically	review the work				
	done by operator person						
	adequacy of procedures i	•					
	and modify the procedure						
§192.605(b)(9)	Does operator identify pr						
	excavated trenches to pro	•					
	accumulations of vapor o	_					
	the excavation, emergend apparatus and, a rescue h		iciduling a breathing				
§192.605(c)	For transmission only op		sign limits have been				
3	exceeded, do the proced						
	correcting the cause of:	·					
	1. An unintended closure	of valves or shutdowns	;				
	2. An increase or decreas	e in pressure or flow ra	te outside normal				
	operating limits;						
	3. A loss of communication						
	4. The operation of any sa	and the state of t					
	5. Any other foreseeable	· · · · · · · · · · · · · · · · · · ·					
	normal operation, or personnel error, which may result in a hazard to						

III. PART 192 – OF	PERATION & MAINTENANCE PLANS	S	N/I	U	N/A
	persons or property.				
	7. Provide steps to prevent a recurrence;				
	8. Document the record keeping process.				
	Does the operator's process includes requirements for checking				
	variations from normal operation after abnormal operation has ended				
	at sufficient critical locations in the system to determine continued				
	integrity and safe operation?				
	Does the operator have personnel assigned to investigate the				
	cause of equipment variations?				
	2. Is there a root cause plan to determine the cause of equipment				
	variations?				
	Does the operator's process includes requirements for notifying				
	responsible operator personnel when notice of an abnormal operation				
	is received?				
	Does the operator's process includes requirements for periodically				
	reviewing the response of operator personnel to determine the				
	effectiveness of the process controlling abnormal operation and taking				
	corrective action where deficiencies are found?				
	Does the process specify who does the review?				
	Does the process specify how long the reviewer has before submitting				
	recommendations for change?				
	Does the process specify a timetable to implement changes?				
	Has the operator taken appropriate action regarding advisory bulletins				
0.00.000/10	published by PHMSA?				
§192.605(d)	Are there instruction on how to recognize a safety related condition?				
§191.23	Safety Related Conditions				
	(1) Pipeline 20% or more: Pipe wall thickness reduced to less than				
	that required for MAOP and localized corrosion pitting to a				
	degree where leakage might result.				
	(2) Unintended movement by environmental causes that impairs				
	the serviceability of the pipeline.				
	(3) Pipeline 20% or more: material defect or physical damage that				
	impairs the serviceability				
	(4) Distribution or gathering line: Malfunction or operating error				
	that causes the pressure-plus the margin (build-up) allowed				
	for operations of pressure limiting or control devices – to				
	exceed MAOP				
	(5) A leak in a pipeline that constitutes an emergency.				
	(6) Any safety related condition that could lead to an imminent				
	hazard and causes a 20% or more reduction in operating				
	pressure or shutdown of a pipeline.				
	(7) Transmission: each exceedance of the MAOP that exceeds the				
	margin (build-up) allowed (always required to be reported				
	regardless of time frame)				

III. PART 192 –	OPERATION & MAINTENANCE PLANS	S	N/I	U	N/A
	Report is not required if 1) there is an incident report 2) the pipeline is more than 220 yards from any building and not in the ROW 3) is corrected by repair or replacement within 5 working days				
192.13(d)	Management of Change (Transmission)  Does the operator have a management of change process as outlined in ASME/ANSI B31.8S Section 11? Must be implemented by 2/26/2024 (unless previously required by TIMP plan).				
Section 114	Identification of Fugitive Emissions Do procedures provide a methodology for identifying sources of fugitive natural gas emissions in the system?				
Section 114	Venting Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance?				
Section 114	Investigation of Unanticipated Vented Releases Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions?				
Section 114	Leak Data Collection and Analysis Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?				
Section 114	<b>Detecting Leaks</b> Do procedures include instructions for personnel to detect leaks to help further reduce emissions in stations and along the right of way?				
Section 114	Leak Mitigation & Repair Do procedures define a process to identify, classify, mitigate and repair leaks?				
Section 114 – Distribution	Lost & Unaccounted for Gas  Do procedures provide for review of Lost & Unaccounted for Gas (LAUF) and do procedures specify actions to reduce the associated volume?				
Section 114 – Distribution	Regulator Stations – O&M Do maintenance or operational procedures contain measures for reduction of natural gas releases from regulators?				
Section 114 – Distribution	Regulator Stations – Configuration Do maintenance or operational procedures contain measures for identifying potential configuration changes that would reduce natural gas releases from regulators?				
Section 114	Testing – Relief Valves Do relief valve testing procedures include measures to minimize natural gas releases?				
Section 114	Flaring Do procedures for flaring from pipeline facilities for transporting natural gas include measures for minimization of natural gas emissions?				

III. PART 192 – 0	OPERATION & MAINTENANCE PLANS	S	N/I	U	N/A
Section 114	Feedback to Design/Configuration Practices Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases?				
Section 114	Leak Prone Pipe: What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone?				
Section 114	Leak Prone Pipe: Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?				
Section 114	Leak Prone Pipe: Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues?				
Section 114	Leak Prone Pipe: Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically identified in Section 114?				

MERGENCY PLANS			S	N/I	U	N/A
Does the operator have a	written emergency pla	n?				
Date of most current review & update	Date of previous review & update	Signatory				
resulting from a gas pipel	ine emergency that inc	ludes the following:				
require immediate respon	nse by the operator.					
with appropriate fire, pol	ice, and other public of	ficials.				
emergency contact telep calls for each Federal, Sta	hone numbers for both ate, and local governme	n local and out of area ent organizations that				
the operator's ability to	respond to a pipeline e					
emergency, including the	following:	each type of				
(ii) Fire located near or d	irectly involving a pipeli	•				
	Does the operator have a  Date of most current review & update  Does operator have a wri resulting from a gas pipel (1) Receiving, identifying require immediate responsion (2) Establishing and main with appropriate fire, pol Determine the responsion emergency contact telep calls for each Federal, Sta may respond to a pipelin the operator's ability to means of communication (3) Prompt and effective emergency, including the (i) Gas detected inside or (ii) Fire located near or d (iii) Explosion occurring r	Does the operator have a written emergency plane of most current review & update  Does operator have a written procedures to min resulting from a gas pipeline emergency that including from a gas pipeline emergency that including immediate response by the operator.  (2) Establishing and maintaining adequate mean with appropriate fire, police, and other public of Determine the responsibilities, resources, jurisc emergency contact telephone numbers for both calls for each Federal, State, and local government may respond to a pipeline emergency and infor the operator's ability to respond to a pipeline emergency.  (3) Prompt and effective response to a notice of emergency, including the following:  (i) Gas detected inside or near a building.  (ii) Fire located near or directly involving a pipelic (iii) Explosion occurring near or directly involving.	Does the operator have a written emergency plan?  Date of most current review & update  Does operator have a written procedures to minimize the hazard resulting from a gas pipeline emergency that includes the following:  (1) Receiving, identifying, and classifying notices of events which require immediate response by the operator.  (2) Establishing and maintaining adequate means of communication with appropriate fire, police, and other public officials.  Determine the responsibilities, resources, jurisdictional areas and emergency contact telephone numbers for both local and out of area calls for each Federal, State, and local government organizations that may respond to a pipeline emergency and inform such officials about the operator's ability to respond to a pipeline emergency and the means of communication during emergencies.  (3) Prompt and effective response to a notice of each type of emergency, including the following:  (i) Gas detected inside or near a building.  (ii) Fire located near or directly involving a pipeline facility.  (iii) Explosion occurring near or directly involving a pipeline facility.	Does the operator have a written emergency plan?  Date of most current review & update  Does operator have a written procedures to minimize the hazard resulting from a gas pipeline emergency that includes the following:  (1) Receiving, identifying, and classifying notices of events which require immediate response by the operator.  (2) Establishing and maintaining adequate means of communication with appropriate fire, police, and other public officials.  Determine the responsibilities, resources, jurisdictional areas and emergency contact telephone numbers for both local and out of area calls for each Federal, State, and local government organizations that may respond to a pipeline emergency and inform such officials about the operator's ability to respond to a pipeline emergency and the means of communication during emergencies.  (3) Prompt and effective response to a notice of each type of emergency, including the following:  (i) Gas detected inside or near a building.  (ii) Fire located near or directly involving a pipeline facility.  (iii) Explosion occurring near or directly involving a pipeline facility.	Does the operator have a written emergency plan?    Date of most current review & update   Date of previous review & update	Does the operator have a written emergency plan?    Date of most current review & update   Date of previous review & update

IV. PART 192 – E	MERGENCY PLANS	S	N/I	U	N/A
	(4) The availability of personnel, equipment, tools, and materials, as needed at the scene of an emergency.				
	(5) Actions directed toward protecting people first and then property.				
	(6) Take action - Emergency shutdown and pressure reduction in any section of the operator's pipeline system necessary to minimize hazards to life or property.				
	(7) Making safe any actual or potential hazard to life or property.				
	(8) Notifying appropriate public safety answering point (911) as well as fire, police, and other public officials, of gas pipeline emergencies to coordinate and share information and planned responses as well as actual responses during an emergency.				
	Does the emergency plan define the operator's designated person(s) (e.g., controller or other personnel) responsible to directly notify 911 or the phone number of appropriate local emergency officials to report emergencies and possible pipeline ruptures to first responder agencies/authorities? (NTSB P-11-9)				
	(9) Safely restoring any service outage.				
	(10) Beginning action under §192.617 (failure investigation), if applicable, as soon after the end of the emergency as possible.				
	(11) Actions required to be taken by a controller during an emergency in accordance with § 192.631, 192.634 and 192.636.				
	(12) Develop written rupture identification procedures to evaluate and identify whether a notification of potential rupture is an actual rupture event or a non-rupture event.				
§192.615(a)(3)	Determine whether the procedures adequately address the possibility of multiple leaks and underground migration of gas into nearby buildings.				
	(Refer to 4/12/01 letter from PHMSA in response to NTSB recommendation P-00-20 and P-00-21. (NTSB) Chapter 5.1(89))				
	Has the operator made provisions for:				
§192.615(b)(1)	Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action? List of Persons Plan Furnished To:				

IV. PART 192 – El	MERGENCY PLANS	S	N/I	U	N/A
§192.615(b)(2)	Is there a requirement to train appropriate employees as to the requirements of the emergency plan.  Review training records.				
§192.615(b)(3)	<ul><li>(a) Review activities following actual or simulated emergencies to determine if they are effective. Does facility have the review and its outcome documented within their records?</li><li>(b) Review records.</li></ul>				
§192.615(c)	Establish mutual liaison with the appropriate public safety answering point (911) as well as fire, police, and other public officials, such that each is aware of the others resources and capabilities in dealing with gas emergencies. Review documentation.				
	(1) Learn the responsibility and resources of each government organization that may respond to a gas pipeline emergency				
	(2) Acquaint the officials with the operator's ability in responding to a gas pipeline emergency				
	(3) Identify the types of gas pipeline emergencies of which the operator notifies the officials				
	(4) Plan how the operator and officials can engage in mutual assistance to minimize hazards to life or property				

V. PART 192 – MIS	SCELLANEOUS	S	N/I	U	N/A
§192.5	Transmission only: Class Location - Does the operator have records that document the current class location of each pipeline segment?  How was class location determined? revised with Mega Rule implementation 7/1/2020				
§192.7	How are documents incorporated by reference addressed? Are they up-to-date? revised with Mega Rule implementation 7/1/2020				
§192.8(b)	Does the operator have a procedure for documenting the methodology by which it calculated the beginning and end points of each gathering line? Review documentation.				

V. PART 192 – MIS	SCELLANEOUS	S	N/I	U	N/A
§192.14	(a) A steel pipeline previously used in service not subject to this part qualifies for use under this part if the operator prepares and follows a written procedure to carry out the following requirements:				
	(1) The design, construction, operation, and maintenance history of the pipeline must be reviewed and, where sufficient historical records are not available, appropriate tests must be performed to determine if the pipeline is in a satisfactory condition for safe operation.				
	(2) The pipeline right-of-way, all aboveground segments of the pipeline, and appropriately selected underground segments must be visually inspected for physical defects and operating conditions which reasonably could be expected to impair the strength or tightness of the pipeline.				
	(3) All known unsafe defects and conditions must be corrected in accordance with this part.				
	(4) The pipeline must be tested in accordance with Subpart J of this part to substantiate the maximum allowable operating pressure permitted by Subpart L of this part.				
	(b) Each operator must keep for the life of the pipeline a record of investigations, tests, repairs, replacements, and alterations made under the requirements of paragraph (a) of this section.				
	(c) An operator converting a pipeline from service not previously covered by this part must notify PHMSA 60 days before the conversion occurs as required by § 191.22 of this chapter.				
§192.59 / 192.193	Plastic pipe - Is the type of plastic pipe and fittings permitted to be used addressed?				
§192.63	Marking of Materials – Are there steps to ensure that only properly marked materials and purchased and installed?				
§192.67	Steel Transmission Only: Does the operator have requirements for collecting and maintaining the for the life of the pipeline, records that document the physical characteristics of the pipeline (diameter, yield strength, ultimate tensile strength, wall thickness, seem type, and chemical composition of materials), tests, inspections, and attributes. revised with Mega Rule implementation 7/1/2020 (Does not apply to Type B gathering)				
§192.69	Does the operator have a written procedure for storage and handling of plastic pipe and associated components?				
§192.121	How is the operator determining if plastic pipe meets the design formula per 192.121? Is this updated with the per new plastic pipe rules? (192.123 has been removed)				
§192.127	Steel Transmission Only: Does the operator require records of pipe design. revised with Mega Rule implementation 7/1/2020 (Does not apply to Type B gathering)				

V. PART 192 – MIS	SCELLANEOUS	S	N/I	U	N/A
§192.143 / 192.145 / 192.147 / 192.149 / 192.204	How is the operator ensuring all components meet the requirements of the code? (plastic components, valves, fittings, risers)				
§192.150	Does the operator require that all new transmission lines are capable of being pigged? revised with Mega Rule implementation 7/1/2020				
§192.205	Steel Transmission Lines: Does the operator require that documentation is retained for all components installed in the pipeline? revised with Mega Rule implementation 7/1/2020 (Does not apply to Type B gathering)				

V. PART 192 – CUS	STOMER NOTIFICATION	S	N/I	U	N/A
§192.16	Is there a requirement for the operator to notify 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? Generally doesn't apply to operators in South Dakota.				

VI. PART 192 –	WELDING	S	N/I	U	N/A
	General				
§192.225(a)	Is welding performed by a qualified welder in accordance with API				
	1104, section IX of the ASME Boiler and Pressure Vessel Code, or				
	Appendix C of Part 192? (yes or no)				
	If yes, highlight or specify which method is used.				
API 1104	If using API 1104, does operator maintain records of qualified welders				
	that contains the following information (it is recommended they use				
	Figure 2 from API 1104):				
	- Date of welding				
	- Location				
	- Name of welder				
	- Weld position				
	- Welding time				
	- Weather conditions				
	- Voltage				
	- Amperage				
	- Welding machine type				
	- Welding machine size				
	- Filler metal				
	- Reinforcement size				
	- Pipe type and grade				
	- Wall thickness				
	- Outside diameter				
	- Tensile strength information (and any remarks on tensile strength			_	
	test)				
	- Bend test information (and any remarks on bend test)				
	- Nick-break test information (and any remarks on nick-break test)				

VI. PART 192 –	WELDING	S	N/I	U	N/A
	- Date tested				
	- Location of test				
	- Name of tester				
	- Results of qualification test (whether they are qualified or				
	disqualified)				
§192.225(b).	Has each welding procedure been recorded in detail, including the				
	results of the qualifying tests?				
	If using API 1104, does the record include the items in Appendix A of				
	this form?				
	If using ASME Boiler and Pressure Vessel code, does the record include				
	the items in Appendix C of this form?				
	Did the procedures pass all the tests?				
	Does the data on the record conform to the requirements of the				
	welding standard used (1104 or Boiler and Pressure Vessel)?				
§192.231	Does the operator have written specifications that include the				
	assessment of weather conditions that may impact the quality of				
	welding and provisions for suspending and resuming welding				
	operations?				
	1. Wind:				
	(1) High wind speeds could introduce debris into the weld and				
	blow away shielding gases.				
	(2) High wind speeds could impair the welder's control of the arc.				
	2. Precipitation:				
	(1) Quenching of the weld by direct precipitation.				
	(2) Residual moisture on the pipe could contribute to hydrogen				
	cracking.				
	3. Temperature:				
	(1) Extremely cold temperatures can cause problems with heating				
	or maintaining preheat of the pipe or cause preheat temperature				
	to be unattainable.				
§192.227					
§192.227(c)	Steel Transmission Lines: Are welding qualifications required to be				
	kept for a minimum of 5 years after construction? revised with Mega				
C400 000(I)	Rule implementation 7/1/2020 (Does not apply to Type B gathering)				
§192.229(b)	Does operator maintain records for each qualified welder that show				
	the welder has engaged in a specific welding process within the last 6				
100 000/ )	months or had a weld tested within that preceding 7.5 months?				<u> </u>
192.229(c)	(1) For pipelines operating at a pressure that produces a hoop stress of				
	20% or more of SMYS, does the operator have records that show				
	within the preceding 6 months the welder has had one weld tested				
	and found acceptable under section 6 or 9 of API Standard 1104,				
	Exception: A welder qualified under an earlier addition may				
	weld but not requalify under that earlier addition.				
	Alternativaly, de welders maintain as assains avalification status by				
	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?				

VI. PART 192 – WE	LDING	S	N/I	U	N/A
	(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).				
192.229(d)	<b>Low Stress -</b> For welders that qualify under 192.227(b), does operator				
	maintain records for each qualified welder that show the welder has				
	been requalified within preceding 15 calendar months or within the				
	preceding 7 ½ calendar months (at least twice a year) had one of the				
	following:				
	- a production weld cut out, tested, and found acceptable with				
	the qualifying test; or				
	- for welders that work only on service lines 2 inches or smaller,				
	two sample welds tested and found acceptable in accordance				
§192.233	with section III of Appendix C				
9192.233	<b>Miter Joints</b> Do written specifications or standards prohibit the use of certain miter joints, as follows?				
	Miter joints, as follows:     Miter joints on steel pipe to be operated at a pressure that				
	produces a hoop stress of 30 percent or more of SMYS do not				
	deflect the pipe more than 3 degrees. 192.233(a)				
	<ol> <li>Miter joints on steel pipe to be operated at a pressure that</li> </ol>				
	produces a hoop stress of less than 30 percent, but more than 10				
	percent of SMYS do not deflect the pipe more than 12.5 degrees				
	and must be a distance equal to one pipe diameter or more away				
	from any other miter joint, as measured from the crotch of each				
	joint. 192.233(b)				
	3. Miter joints on steel pipe to be operated at a pressure that				
	produces a hoop stress of 10 percent or less of SMYS do not				
	deflect the pipe more than 90 degrees. 192.233(c)				
	<b>4.</b> What document(s) does the operator possess to validate this or				
	these requirements? Request a copy if one is available.				
§192.235	Do written specifications or procedures require the following welding				
	preparations to be performed?				
	1. Welding surfaces are clean and free of foreign material.				
	Welding surfaces are aligned in accordance with the qualified				
	welding procedure.				
	Alignment must be preserved while the root bead is being  denosited.				
	deposited.				
	4. Pipe movement while the root bead is being deposited is not				
	acceptable.  5. Hinging, the practice of depositing a tack weld then moving the				
	pipe to improve joint alignment in other areas, is not acceptable.				
	pipe to improve joint angument in other areas, is not acceptable.				
§192.241(a)	Is a visual inspection of the weld conducted to ensure:				
5=0=:= :=(0)	(1) The welding is performed in accordance with the welding				
	procedure; and				
	(2) The weld is acceptable under paragraph (c) of this section.				
i l	, , , , , , , , , , , , , , , , , , , ,	1	1		Ì

VI. PART 192 – W	/ELDING	S	N/I	U	N/A
§192.241(b)	Is non-destructive testing conducted on pipelines that produce a hoop stress of 20 percent or more of SMYS? (except that welds that are visually inspected and approved by a qualified welding inspector need not be nondestructively tested if pipe is less than 6 inches or welds are so limited in number that nondestructive testing is impractical)				
§192.241(c)	Is a weld that is nondestructively tested or visually inspected determined according to the standards in Section 9 or Appendix A of API Standard 1104?  (Appendix A may not be used to accept cracks.)				
§192.243 (a), (b) & (c)	Is there a procedure for nondestructive weld testing? Are non- destructive tests done by person who have been trained and qualified in the procedure and equipment?				
§192.243(d)	When nondestructive testing is required under §192.241(b), are the following percentages of each day's field butt welds, selected at random by the operator, nondestructively tested over their entire circumference?				
§192.243(d) (1)	In Class 1 locations, except offshore, at least 10 percent				
§192.243(d) (2)	In Class 2 locations, at least 15 percent.				
§192.243(d) (3)	In Class 3 and Class 4 locations, at crossings of major or navigable rivers, offshore, and within railroad or public highway rights-of-way, including tunnels, bridges, and overhead road crossings, 100 percent unless impracticable, in which case at least 90 percent.  Nondestructive testing must be impracticable for each girth weld not tested.				
§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?				

VII. PART 192 – RE	EPAIR OR REMOVAL OF WELD DEFECTS	S	N/I	U	N/A
§192.245	(a) Each weld that is unacceptable under §192.241(c) must be				
	removed or repaired. (b) Each weld that is repaired must have the				
	defect removed down to sound metal and the segment to be repaired				
	must be preheated if conditions exist which would adversely affect the				
	quality of the weld repair. After repair, the segment of the weld that				
	was repaired must be inspected to ensure its acceptability. (c) Repair				
	of a crack, or of any defect in a previously repaired area must be in				
	accordance with written weld repair procedures that have been				
	qualified under §192.225. Repair procedures must provide that the				
	minimum mechanical properties specified for the welding procedure				
	used to make the original weld are met upon completion of the final				
	weld repair.				

VIII. PART 192 -	- JOINING OF PIPELINE MATERIALS OTHER THAN BY	S	N/I	U	N/A
V	VELDING				
	The operator has the following material types in their system: steel,				
	plastic, cast iron, ductile iron, copper				
	What types of joining does the operator perform (i.e. plastic fusion,				
	mechanical joints, electrofusion, threaded fittings, plastic adhesives)?				
	List out all types of joining used.				
§192.273	Do the procedures require the following?				
	(a) The pipeline must be designed and installed so that each joint will				
	sustain the longitudinal pullout or thrust forces caused by contraction				
	or expansion of the piping or by anticipated external or internal				
	loading.				
	(b) Each joint must be made in accordance with written procedures				
	that have been proved by test or experience to produce strong gas-				
	tight joints.				
	(a) Fach injut recent has increased to increase and increase with this				
	(c) Each joint must be inspected to insure compliance with this subpart.				
§192.281(a)	A plastic pipe joint that is joined by solvent cement, adhesive, or heat	1			
g192.201(a)	fusion may not be disturbed until it has properly set. Plastic pipe may				
	not be joined by a threaded joint or miter joint.				
§192.281(b)	Each solvent cement joint on plastic pipe must comply with the				х
g192.281(b)	following:				^
	(1) The mating surfaces of the joint must be clean, dry,				
	and free of material which might be detrimental to the joint;				
	(2) The solvent cement must conform to ASTM				
	Designation: D 2513;				
	(3) The joint may not be heated to accelerate the setting				
	of the cement.				
	Solvent cement is not used as a joining process in SD.				
§192.281(c)	Each heat-fusion joint on plastic pipe must be made according to				
	F2620 or equivalent procedure and comply with the following:				
	(1) A butt heat-fusion joint must be joined by a device that holds the				
	heater element square to the ends of the pipe or component,				
	compresses the heated ends together, and holds the pipe in proper				
	alignment in accordance with the appropriate procedure qualified				
	under § <u>192.283</u> .				
	(2) A socket heat-fusion joint must be joined by a device that heats				
	the mating surfaces of the pipe or component, uniformly and				
	simultaneously, to establish the same temperature. The device used				
	must be the same device specified in the operator's joining procedure				
	for socket fusion.				
	וטו שערעבנ ועשוטוו.				

VIII. PART 192	– JOINING OF PIPELINE MATERIALS OTHER THAN BY	S	N/I	U	N/A
,	WELDING				
	(3) An electrofusion joint must be made using the equipment and				
	techniques prescribed by the fitting manufacturer, or using equipment				
	and techniques shown, by testing joints to the requirements of §				
	192.283(a)(1)(iii), to be equivalent to or better than the requirements				
	of the fitting manufacturer.				
	(4) Heat may not be applied with a torch or other open flame.				
§192.281(d)	Each adhesive joint on plastic pipe must comply with the following: (1) The adhesive must conform to ASTM D 2517 (incorporated by reference, see §192.7),				х
	<ul><li>(2) The materials and adhesive must be compatible with each other.</li><li>Adhesive is not used as a joining process in SD.</li></ul>				
§192.281(e)	Each compression type mechanical joint on plastic pipe must comply with the following:  (1) The gasket material in the coupling must be compatible with the plastic,  (2) A rigid internal tubular stiffener, other than a split tubular stiffener, must be used in conjunction with the coupling.  (3) All mechanical fittings must meet a listed specification based upon the applicable material.  (4) All mechanical joints or fittings installed after January 22, 2019, must be Category 1 as defined by a listed specification for the applicable material, providing a seal plus resistance to a force on the pipe joint equal to or greater than that which will cause no less than 25% elongation of pipe, or the pipe fails outside the joint area if tested in accordance with the applicable standard.				
§192.283	Plastic Pipe				
	Does operator have written procedures for each type of joint available for review? (yes or no)				
	Do these procedures follow what is required by the manufacturer? Has the operator changed any parameters? (yes or no)				

VIII. PART 192 – J	OINING OF PIPELINE MATERIALS OTHER THAN BY	S	N/I	U	N/A
WE	LDING				
	Does operator have copies of the destructive tests used to qualify the				
	joining procedures? (yes or no)				
	(a) Heat fusion, solvent cement, and adhesive joints. Before any				
	written procedure established under § 192.273(b) is used for making				
	plastic pipe joints by a heat fusion, solvent cement, or adhesive				
	method, the procedure must be qualified by subjecting specimen				
	joints that are made according to the procedure to the following tests,				
	as applicable:				
	(1) The test requirements of				
	(i) In the case of thermoplastic pipe, based on the				
	pipe material, the Sustained Pressure Test or the				
	Minimum Hydrostatic Burst Test per the listed				
	specification requirements. Additionally, for				
	electrofusion joints, based on the pipe material, the				
	Tensile Strength Test or the Joint Integrity Test per the				
	listed specification.				
	(ii) In the case of thermosetting plastic pipe,				
	paragraph 8.5 (Minimum Hydrostatic Burst Pressure)				
	or paragraph 8.9 (Sustained Static Pressure Test) of				
	ASTM D2517- 00 (incorporated by reference, see §				
	192.7).				
	(iii) In the case of electrofusion fittings for				
	polyethylene (PE) pipe and tubing, paragraph 9.1				
	(Minimum Hydraulic Burst Pressure Test), paragraph				
	9.2 (Sustained Pressure Test), paragraph 9.3 (Tensile				
	Strength Test), or paragraph 9.4 (Joint Integrity Tests)				
	of ASTM F1055-98(2006) (incorporated by reference,				
	see § 192.7).				
	(2) For procedures intended for lateral pipe connections,				
	subject a specimen joint made from pipe sections joined at				
	right angles according to the procedure to a force on the				
	lateral pipe until failure occurs in the specimen. If failure				
	initiates outside the joint area, the procedure qualifies for use.				
	(3) For procedures intended for non-lateral pipe connections,				
	perform testing in accordance with a listed specification. If the				
	test specimen elongates no more than 25% or failure initiates				
	outside the joint area, the procedure qualifies for use.				
	(b) Mechanical joints. Before any written procedure established under				
	§ 192.273(b) is used for making mechanical plastic pipe joints, the				
	procedure must be qualified in accordance with a listed specification				
	based upon the pipe material.	ļ			
	(c) A copy of each written procedure being used for joining plastic				
	pipe must be available to the persons making and inspecting joints.				
	Plastic Pipe				

	OINING OF PIPELINE MATERIALS OTHER THAN BY	S	N/I	U	N/A
§192.285(a)(1) §192.285(a)(2) and §192.285(c)	Does operator have a procedure for qualifying individual on pipe joining and maintain records of employee training dates and type of joint training for each employee?  Procedure must require that the joint is visually inspected and tested for failure.				
§192.285(e)	For plastic transmission pipe: Are records required to be kept for a minimum of 5 years after construction? revised with Mega Rule implementation 7/1/2020 (Does not apply to Type B gathering)				
§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?				
§192.756	Joining plastic pipe by heat fusion; equipment maintenance and calibration. Each operator must maintain equipment used in joining plastic pipe in accordance with the manufacturer's recommended practices or with written procedures that have been proven by test and experience to produce acceptable joints.				
§192.281 (e)	Threaded Joints Does the operator have a procedure for using threaded joints and mechanical joints and is it included in the OQ plan?				
	Mechanical Joints				

IX. PART 192 – IN:	SPECTION AND REPAIR OF MATERIALS	S	N/I	U	N/A
§192.307	Each length of pipe and each other component must be visually				
	inspected at the site of installation to ensure that it has not sustained				
	any visually determinable damage that could impair its serviceability				
§192.309	Repair of steel pipe.				
	(a) Each imperfection or damage that impairs the serviceability of a length of pipeline of steel pipe must be repaired or removed. If a repair is made by grinding, the remaining wall thickness must a least be equal to either:				
	<ul><li>(1) The minimum thickness required by the tolerances in the specification to which the pipe was manufactured; or</li><li>(2) the design pressure of the pipeline.</li></ul>				

IX. PART 192 – IN	SPECTION AND REPAIR OF MATERIALS	S	N/I	U	N/A
	Each of the following dents must be 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:				
	(1) A dent that contains a stress concentrator such as a scratch,				
	gouge, groove, or arc burn.				
	(2) A dent that affects the longitudinal weld or a circumferential weld.				
	(3) In pipe to be operated at a pressure that produces a hoop stress of				
	40 percent or more of SMYS, a dent that has a depth of:				
	(i) More than ¼ inch (6.4 millimeters) in pipe 12¾ inches (324				
	millimeters) or less in outer diameter; or				
	(ii) More than 2 percent of the nominal pipe diameter in pipe over 12				
	3/4 inches (324 millimeters)				
	For the purpose of this section a "dent" is a depression that produces a				
	gross disturbance in the curvature of the pipe wall without reducing				
	the pipe-wall thickness. The depth of a dent is measured as the gap				
	between the lowest point of the dent and a prolongation of the				
	original contour of the pipe.				
	Each arc burn on steel pipe to be operated at a pressure that produces				
	a hoop stress of 40 percent or more, of SMYS must be repaired or				
	removed. If a repair is made by grinding, the arc burn must be				
	completely removed and the remaining wall thickness must be at least				
	equal to either:				
	(1) The minimum wall thickness required by the tolerances in the				
	specification to which the pipe was manufactured; or				
	(2) The nominal wall thickness required for the design pressure of the				
	pipeline.				
	(d) A gouge, groove, arc burn, or dent may not be repaired by insert				
	patching or by pounding out.				
	(e) Each gouge, groove, arc burn, or dent that is removed from a				
	length of pipe must be removed by cutting out the damaged portion as				
	a cylinder.				
§192.311	Repair of Plastic Pipe: Each imperfection or damage that would impair				
	the serviceability of plastic pipe must be repaired or removed.				

X. PART 192 – EXCESS FLOW VALVES		S	N/I	U	N/A
§192.381(a)	Are excess flow valves (that operate at ≥ 10 psi) manufactured and tested to an industry standard or manufacturer's written specification to ensure each valve will:				

X. PART 192 – E	XCESS FLOW VALVES	S	N/I	U	N/A
§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)	(i) at 10 psi gage – close at ≤ 50 % above the rated closure flow				
	specified by manufacturer; AND				
§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 ft <sup>3</sup> /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(c)	Does the operator must mark or otherwise identify the presence of an				
2.122.22.11	excess flow valve on the service line?				
§192.381(d)	Does the operator locate the EFV as near as practical to the fitting				
5400 004/ )	connecting the service line to its source of gas supply?				
§192.381(e)	An operator should not install an excess flow valve on a service line				
	where the operator has prior experience with contaminants in the gas				
	stream, where these contaminants could be expected to cause the excess flow valve to malfunction or where the excess flow valve would				
	interfere with necessary operation and maintenance activities on the				
§192.383(b)	service, such as blowing liquids from the line.  After April 14, 2017, each operator must install an EFV on any new or				
9192.363(n)	replaced service line serving the following types of services before the				
	line is activated:				
	(1) A single service line to one SFR;				
	(2) A branched service line to a SFR installed concurrently with the				
	primary SFR service line (i.e., a single EFV may be installed to protect				
	both service lines);				
	(3) A branched service line to a SFR installed off a previously installed				
	SFR service line that does not contain an EFV;				
	(4) Multifamily residences with known customer loads not exceeding				
	1,000 SCFH per service, at time of service installation based on				
	installed meter capacity, and				
	(5) A single, small commercial customer served by a single service line				
	with a known customer load not exceeding 1,000 SCFH, at the time of				
	meter installation, based on installed meter capacity.				

X. PART 192 – EXC	CESS FLOW VALVES	S	N/I	U	N/A
§192.383(c)	Exceptions to excess flow valve installation requirement. An operator need not install an excess flow valve if one or more of the following conditions are present:				
	(1) The service line does not operate at a pressure [(expressed in pounds per square inch above atmospheric pressure, i.e., gage, pressure (abbreviation psig), unless otherwise stated). See Maximum allowable test pressure, Overpressure protection, Pressure limiting station, Pressure regulating station, Pressure relief station, Standup pressure test. (Guide definition)] 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 service to a customer;				
	(3) An EFV could interfere with necessary operation or maintenance activities, such as blowing liquids from the line; or				
	(4) An EFV meeting the performance standards in § 192.381 is not commercially available to the operator.				
	Does the operator mark or otherwise identify the presence of an excess flow valve on a service line?				
192.383(d)	Customer's right to request an EFV. Existing service line customers who desire an EFV on service lines not exceeding 1,000 SCFH and who do not qualify for one of the exceptions in paragraph (c) of this section may request an EFV to be installed on their service lines. If an eligible service line customer requests an EFV installation, an operator must install the EFV at a mutually agreeable date. The operator's rate-setter determines how and to whom the costs of the requested EFVs are distributed.				

X. PART 192 – EXC	CESS FLOW VALVES	S	N/I	U	N/A
§192.383 (e)	Operator notification of customers concerning EFV installation.  Operators must notify customers of their right to request an EFV in the following manner:				
	(1) Except as specified in paragraphs (c) and (e)(5) of this section, each operator must provide written or electronic notification to customers of their right to request the installation of an EFV. Electronic notification can include emails, Web site postings, and e- billing notices.				
	(2) The notification must include an explanation for the service line customer of the potential safety benefits that may be derived from installing an EFV. The explanation must include information that an EFV is designed to shut off the flow of natural gas automatically if the service line breaks.				
	(3) The notification must include a description of EFV installation and replacement costs. The notice must alert the customer that the costs for maintaining and replacing an EFV may later be incurred, and what those costs will be to the extent known.				
	(4) The notification must indicate that if a service line customer requests installation of an EFV and the load does not exceed 1,000 SCFH and the conditions of paragraph (c) are not present, the operator must install an EFV at a mutually agreeable date.				
	(5) Operators of master-meter systems and liquefied petroleum gas (LPG) operators with fewer than 100 customers may continuously post a general notification in a prominent location frequented by customers.				
	(f) Operator evidence of customer notification. An operator must make a copy of the notice or notices currently in use available during PHMSA inspections or State inspections conducted under a pipeline safety program certified or approved by PHMSA under 49 U.S.C. 60105 or 60106.				
§192.383 (f)	(f) Operator evidence of customer notification. An operator must make a copy of the notice or notices currently in use available during PHMSA inspections or State inspections conducted under a pipeline safety program certified or approved by PHMSA under 49 U.S.C. 60105 or 60106.				
§192.385(b)	Does the operator install a curb valve when no EFV is available?				
§192.385(c)	Has the operator identified a periodic maintenance procedure for curb valves?				

XI. PART 192 – CO	PRROSION GENERAL	S	N/I	U	N/A
§192.605(b)(2)	(a) Are corrosion control procedures established?				
§192.453					
	(b) Are there procedures for: Design				
	Installation				
	Operation				
	Maintenance				
	(c) Are these procedures under the responsibility of a qualified person?				
	person:				

XII. PART 192 –	EXTERNAL 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, Plastic, Ductile 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				х
	not, has operater conducted tests or have experience to indicate the				
	aluminum pipeline suitability with its environment? SD does not have				
	any aluminum pipe.				
§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?				
	(g) Electrically isolated metal alloy fittings installed after January 22,				
	2019, that do not meet the requirements of paragraph (f) must be				
	cathodically protected, and must be maintained in accordance with				
	the operator's integrity management plan.				
§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				
(1)	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				
31321.33	exposed pipe examined for:				

XII. PART 192 – EX	KTERNAL CORROSION CONTROL	S	N/I	U	N/A
	(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				Х
	cast iron pipe for evidence of graphitization? SD no longer has cast				
	iron pipe.				
	Does operator have procedures established for remedial measures on				х
	cast iron pipe if graphitization is discovered, AGA GPTC Appendix G-18				
	(NTSB)? SD no longer has cast iron pipe.				
§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?				
§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?				
§192.461 (f) –(i)	Steel Transmission: After back fill a coating survey must be conducted				
	and any damage classified as severe must be repaired. The coating				
	survey must be documented and kept for the life of the system. (Does				
	not apply to Type B gathering)				
§192.463 (a)	Does the level of cathodic protection meet the requirements of				
	Appendix D criteria?				
Appendix D,Part I	(1) a negative (cathodic) voltage of at least 0.85 volt (Cu-CuSO <sub>4</sub> ½ 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				

XII. PART 192 – EX	XTERNAL CORROSION CONTROL	S	N/I	U	N/A
§192 Appendix D.	Does the operator criteria consider IR drop?				
Part II					
§192.463 (b)	If amphoteric metals are included in a buried or submerged pipeline				
	containing a metal or different anodic potential are they: No known				
	amphoteric metals are used in SD.				
	(1) electrically isolated from the remainder of the pipeline and				х
	cathodically protected?; OR				
	(2) cathodically protected at a level that meets the requirements of				х
	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				
	year period?				
§192.465(b)	Has each cathodic protection rectifier been inspected at least six times				
	each year not to exceed 2-1/2 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 exceeding 15				
	months?				
§192.465(d)	Is prompt remedial action taken to correct any deficiencies indicated				
	by the monitoring? (Does not apply to Type B gathering)				
	(a) Shorted Casings (6 months)				
	(b) Rectifier (2-1/2 months)				
	(c) Low p/s readings - case by case, depends on cause				
§192.465(e)	Does the operator have bare pipelines?				
	(a) Are they cathodically protected?				
	(b) Are they reevaluated at <b>3</b> year intervals not exceeding <b>39</b> months?				
	(c) Are remedial measures taken where necessary?				
192.465 (f)	(Does not apply to Type B gathering)				
§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?	<u> </u>			
	(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 <b>6</b> months of discovery.				

XII. PART 192 –	EXTERNAL CORROSION CONTROL	S	N/I	U	N/A
	(2) Verification that a short exists				
	(3) Clearing of the short, if practicable. (This must be considered				
	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 casing				
	with leak detection equipment for leakage at intervals not exceeding				
	<b>7-1/2</b> months, but at least <b>twice</b> 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(d)	Inspection and electrical tests must be made to assure that electrical				
	isolation is adequate.				
§192.467(e)	Are insulating devices prohibited in areas where a combustible				
	atmosphere is anticipated unless precautions are made to prevent				
	arcing?				
§192.467(f)	Where pipelines are located in close proximity to electrical				
	transmission tower footings, ground cables or counterpoise, is				
	protection provided to the pipelines against damage due to fault				
	currents or lightning?				
§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				
	with the pipe coating and insulation on the wire?				
§192.473 (a)	Does the operator monitor their system for stray currents and take				
	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 effects				
	on existing adjacent underground metallic structures?				
§192.473 (c)	For transmission: Interference surveys must be used to detect stray				
	current whenever monitoring indicates a significant increase in stray current or when new potential stray current sources are introduced.				
	Analysis, remedial action plan and remedial action must be completed.				
	(Does not apply to Type B gathering)				
	(Does not apply to Type B gathering)				

XIII. PART 192 – INTERNAL CORROSION CONTROL		S	N/I	U	N/A
§192.475(a)	Is gas tested to determine corrosive properties?				
	What is done to monitor gas that may cause internal corrosion? (Are				
	filters, strainers, separators and drips checked for liquid? Is it				
	documented?)				

XIII. PART 192 –	INTERNAL CORROSION CONTROL	S	N/I	U	N/A
	If liquids are found are they required to be analyzed for 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 must be 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 (if required) to minimize internal				
	corrosion?				
§192.475(c)	Gas 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 transmission line installed after May 23, 2007:				
	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):				
	(1) configured to reduce risk liquid collection in line				
	(2) has effective liquid removal features if configuration would allow liquid collection				
	(3) allow for use of devices for monitoring internal corrosion at				
	locations with significant potential for internal corrosion				
§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	Are there requirements to incorporate coupons and require coupons				
	(for corrosive gas only) to be checked at least twice annually not to				
	exceed <b>7-1/2</b> months?				<u> </u>
§192.478	Transmission: Additional gas monitoring required when transporting				Х
	gas with a corrosive constituent. Gas transported in SD is not				
	considered corrosive. (Does not apply to Type B gathering)				

XIV. PART 192 – A	TMOSPHERIC CORROSION CONTROL	S	N/I	C	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?				

XIV. PART 192 – A	ATMOSPHERIC CORROSION CONTROL	S	N/I	U	N/A
§192.481(a)	Other than a service line: Does the operator inspect piping exposed to the atmosphere at least once every 3 calendar years, at intervals not to exceed 39 months for onshore piping?  Service Lines: Does the operator inspect piping exposed to the atmosphere at least once every 5 calendar years, at intervals not to exceed 63 months for onshore piping?  If atmospheric corrosion is found on a service line during the most recent inspection, then the next inspection of that pipeline or portion of pipeline must be within 3 calendar years, but with intervals not exceeding 39 months.				
§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?				

XV. PART 192 – R	EMEDIAL MEASURES: CORROSION	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 has 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 has the operating pressure reduced?				
§192.485(c)	Strength of pipe based on actual remaining wall thickness may be				
	determined by 192.712 (Does not apply to Type B gathering)				
§192.487(a)	General Corrosion -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)	Localized Corrosion -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				х
	graphitization is found to a degree where a fracture or any leakage				
	might result, replaced? No cast or ductile iron in South Dakota				
§192.489(b)	Is each segment of cast iron or ductile iron pipe on which localized				Х
	graphitization is found to a degree where any leakage might result,				
	replaced or repaired, or sealed by internal sealing methods? No cast or				
	ductile iron in South Dakota				

XVI. PART 192 – C	XVI. PART 192 – CORROSION CONTROL RECORDS		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?				

XVI. PART 192 – C	ORROSION CONTROL RECORDS	S	N/I	U	N/A
§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?				
	External corrosion monitoring and internal corrosion monitoring records				
	must be retained for the life of the system. Atmospheric corrosion				
	monitoring only needs to be kept for the last two inspections.				
§192.493	Transmission Only - Do in-line inspections comply with API STD 1163				
	and NACE SP0102? revised with Mega Rule implementation 7/1/2020				
	(Or in TIMP Plan) (Does not apply to Type B gathering)				

XVII. PART 192	– TEST REQUIREMENTS FOR PIPELINES	S	N/I	U	N/A
§192.503(a)	Is each segment of pipe pressure tested to substantiate the MAOP				
	prior to putting it into service or returning it to service?				
	Are gauges used for testing checked to ensure they are accurate?				
§192.503(b)	The test medium (liquid, air, natural gas, or inert gas) is: (1)				
	Compatible with the material of which the pipeline is constructed;				
	(2) Relatively free of sedimentary materials; and, (3) Except for				
	natural gas, nonflammable.				
§192.503(c)	Except as provided in §192.505(a), if air, natural gas, or inert gas is				
	used as the test medium, the appropriate maximum hoop stress				
	limitations apply.				
§192.503(d)	Is each non-welded joint used to tie in a test segment leak tested at				
	not less than its operating pressure? (yes or no)				
§192.503(e)	If a component other than pipe is being replaced or added, a strength				
	test is not required if the manufacturer certifies that:				
	1) component was tested to a least the pressure required for the				
	pipeline to which it is being added.				
	2) component was manufactured under quality control system that				
	ensures the component is at least equal in strength to a prototype that				
	was tested.				
	3) component carries a pressure rating established though applicable				
	ASME/ANSI.				
192.505(a)	Steel Pipelines Operating at greater than or equal to 30% SMYS Note:				
	in class 1 or 2 locations if there is a building intended for human				
	occupancy within 300 ft, a hydrostatic test must be conducted to a test				
	pressure of at least 125% of MOP. If the buildings are evacuated while				
	hoop stress exceeds 50% of SMYS then air or gas may be used as a test				
	medium.				
§192.505(b)	Compressor stations, regulator station and measuring station must be				
	tested to at least Class 3 location test requirements.				
§192.505(c)	Is the pressure at or above test pressure for at least eight hours? (yes				
	or no)				
§192.505(d)	Does the procedure for short sections of pipe require a pressure				
	tested for at least four hours before they are installed, if it is				
	impractical to pressure test after installation?				

XVII. PART 192 -	TEST REQUIREMENTS FOR PIPELINES	S	N/I	U	N/A
§192.506	Transmission Lines: Are there requirements for spike hydrostatic				
	testing? revised with Mega Rule implementation 7/1/2020 (Or in TIMP				
	Plan) (Does not apply to Type B gathering)				
§192.507(a)	Pipelines Operating at less than 30 percent of SMYS and at or above				
	100 psig.				
	Does the operator use a test procedure that will ensure discovery of all				
	potentially hazardous leaks in the segment being tested?				
§192.507(b)	If the segment is stressed to 20 percent or more of SMYS and is using				
	natural gas, inert gas, or air is one of the following used:				
	- A leak test at a pressure between 100 psig and the pressure required				
	to produce a hoop stress of 20 percent of SMYS;				
	or				
	- The line is walked to check for leaks while the hoop stress is held at				
	approximately 20 percent of SMYS				
	List or highlight the one used.				
§192.507(c)	Is the pressure maintained at or above the test pressure for at least				
2/22 -22/10	one hour? (yes or no)				
§192.507(d)	For fabricated units and short sections of pipe, for which a post				
	installation test is impractical, a preinstallation pressure test must be conducted in accordance with the requirements of this section.				
§192.517	Pressure test records must be kept for the life of the system when				
0	tested to 192.507 (above).				
§192.517	All transmission pressure test records (Records for 192.505, 192.506 &				
	192.507) must be kept for the life of the system and include the				
	following:				
	Operators name and name of employee responsible				
	Test medium used Test pressure				
	Test duration				
	Pressure recording charts or other records for recording readings				
	Elevation variations, whenever significant for the particular test				
	Leaks and failures noted and their disposition				
0400 500	revised with Mega Rule implementation 7/1/2020				
§192.509, §192.511,	For distribution mains and services				
§192.511, §192.513 and	Are pressure test records maintained that contain the following information (these records must be maintained for at least 5 years):				
§192.517	- Date				
	-Operator name & name of operator employee responsible for making				
	the test.				
	- Location of test				
	- Test pressure applied				
	- Test medium used.			İ	
	- Test duration				
					1
§192.509(b)	Test Requirements for (steel) pipelines to operate below 100 psig				
§192.509(b)	Are steel main that are to be operated at less than 1 psig required to be				
§192.509(b)					

XVII. PART 192	– TEST REQUIREMENTS FOR PIPELINES	S	N/I	U	N/A
§192.511(a)	Service Lines If feasible, is the connection to the main required to be included in the test? (yes or no)				
§192.511(b)	Are service lines expected to operate at a pressure of at least 1 psig but not more than 40 psig required to be tested at a pressure of not less than 50 psig?				
§192.511(c)	Are service lines expected to operate at a pressure of more than 40 psig required to be tested at a pressure of not less than 90 psig?				
§192.511(c)	Are steel service lines stressed to 20% or more of SMYS tested in accordance with §192.507?				
§192.513	Test Requirements for plastic pipelines.  (a) Is each segment of a plastic pipeline tested in accordance with this section? (yes or no)  (b) The test pressure must insure discovery of all potentially hazardous leaks in the segment being tested.				
§192.513(c)	(c) The test <i>pressure</i> must be at least 150% of the maximum operating pressure or 50 psi (345 kPa) gauge, whichever is greater. However, the maximum test pressure may not be more than 2.5 times the pressure determined under § 192.121 at a <i>temperature</i> not less than the pipe temperature during the test.				
§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? (yes or no and list out which one is greater for each operator)				
§192.515	Environmental protection and safety requirements  Whenever the hoop stress of the segment will be tested in excess of 50% SMYS the operator must take safety precautions to protect people and the test medium must be disposed of in an appropriate manner.				

XVIII. PART 192 –	UPRATING	S	N/I	U	N/A
§192.553	Does the operator have a procedure for uprating? Does it include the				
	following:				
§192.553(a)	(a) Pressure increases. Is the increase in operating pressure made in				
	increments? Is the pressure increased gradually, at a rate that can be controlled?				
§192.553(a)(1)	At the end of each incremental increase, is the pressure held constant while the entire segment of the pipeline is checked for leaks?				
§192.553(a)(2)	Is each leak detected repaired before a further pressure increase is				
	made? (except that a leak determined not to be potentially hazardous				
	need not be repaired, if it is monitored during the pressure increase				
	and it does not become potentially hazardous)				
§192.553(b)	Do uprate records identify work performed and each pressure test				
	conducted?				
	Are these records retained for the life of the segment?				
§192.553(c)	Is a written procedure established that will ensure that each part of				
	the uprating meets requirements?				

XVIII. PART 192	- UPRATING	S	N/I	U	N/A
§192.553(d)	Are limitations on increases in MAOP followed? (Except as provided in §192.555 (c), a new maximum allowable operating pressure established under this subpart may not exceed the maximum that				
	would be allowed under §§ 192.619 and 192.621 for a new segment of				
	pipeline constructed of the same materials in the same location.  However, when uprating a steel pipeline, if any variable necessary to				
	determine the design pressure under the design formula (§192.105) is unknown, the MAOP may be increased as provided in §192.619(a)(1).)				
§192.555	Uprating to a pressure that will produce a hoop stress of 30 percent				
3132.333	or more of SMYS in steel pipelines.				
	(a) Unless the requirements of this section have been met, no person				
	may subject any segment of a steel pipeline to an operating pressure				
	that will produce a <i>hoop stress</i> of 30 percent or more of <i>SMYS</i> and				
	that is above the established <i>maximum allowable operating pressure</i> .				
	(b) Before increasing operating pressure above the previously				
	established maximum allowable operating pressure the <i>operator</i> shall:				
	(1) Review the design, operating, and maintenance history and				
	previous testing of the segment of pipeline and determine whether the proposed increase is safe and consistent with the				
	requirements of this part; and				
	(2) Make any repairs, replacements, or alterations in the				
	segment of pipeline that are necessary for safe operation at				
	the increased pressure.				
	(c) After complying with paragraph (b) of this section, an operator may				
	increase the maximum allowable operating pressure of a segment of pipeline constructed before September 12, 1970, to the highest				
	pressure that is permitted under §192.619, using as test pressure the				
	highest pressure to which the segment of pipeline was previously				
	subjected (either in a strength test or in actual operation).				

XVIII. PART 192 –	UPRATING	S	N/I	U	N/A
	(d) After complying with paragraph (b) of this section, an operator that				
	does not qualify under paragraph (c) of this section may increase the				
	previously established maximum allowable operating pressure if at				
	least one of the following requirements is met:				
	(1) The segment of pipeline is successfully tested in accordance				
	with the requirements of this part for a new line of the same				
	material in the same location.				
	(2) An increased maximum allowable operating pressure may be				
	established for a segment of pipeline in a Class 1 location if the				
	line has not previously been tested, and if:				
	(i) It is impractical to test it in accordance with the				
	requirements of this part;				
	(ii) The new maximum operating pressure does not exceed				
	80 percent of that allowed for a new line of the same				
	design in the same location; and,				
	(iii) The operator determines that the new maximum				
	allowable operating pressure is consistent with the				
	condition of the segment of pipeline and the design				
	requirements of this part.				
	(e) Where a segment of pipeline is uprated in accordance with				
	paragraph (c) or (d)(2) of this section, the increase in pressure must be				
	made in increments that are equal to:				
	(1) 10 percent of the pressure before the uprating; or				
	(2) 25 percent of the total pressure increase, whichever produces				
	the fewer number of increments.				
§192.557(a)	Uprating to a pressure that will produce a hoop stress less than				
	30% of SMYS: plastic, cast iron and ductile iron pipelines.				
	Unless the requirements of this section have been met, no person may subject:				ļ
	(1) A segment of steel pipeline to an operating pressure that will				
	produce a hoop stress less than 30 percent of SMYS and that is above				
	the previously established maximum allowable operating pressure; or (2) A plastic, cast iron, or ductile iron pipeline segment to an operating				
	pressure that is above the previously established maximum allowable				
	operating pressure.				
§192.557(b)	Before increasing operating pressure above the previously established				
3 (-)	maximum allowable operating pressure, the operator shall:				1
	(1) Review the design, operating, and maintenance history of the				
	segment of pipeline;				
	(2) Make a leakage survey (if it has been more than 1 year since the				
	last survey) and repair any leaks that are found, except that a leak				
	determined not to be potentially hazardous need not be repaired, if it is				
	monitored during the pressure increase and it does not become				
	potentially hazardous; (3) Make any repairs, replacements, or alterations in the segment of				
	pipeline that are necessary for safe operation at the increased				
	pressure;				
	(4) Reinforce or anchor offsets, bends and dead ends in pipe joined by				
	compression couplings or bell spigot joints to prevent failure of the pipe				
	joint, if the offset, bend, or dead end is exposed in an excavation;				
	(5) Isolate the segment of pipeline in which the pressure is to be				
	increased from any adjacent segment that will continue to be operated				
	at a lower pressure; and,				

XVIII. PART 192 –	UPRATING	S	N/I	U	N/A
	(6) If the pressure in main or service lines, or both, is to be higher than the pressure delivered to the customer, install a service regulator on each service line and test each regulator to determine that it is functioning. Pressure may be increased as necessary to test each regulator, after a regulator has been installed on each pipeline subject to the increased pressure.				
§192.557(c)	After complying with paragraph (b) of this section, the increase in maximum allowable operating pressure must be made in increments that are equal to 10 p.s.i. (69 kPa) gage or 25 percent of the total pressure increase, whichever produces the fewer number of increments. Whenever the requirements of paragraph (b)(6) of this section apply, there must be at least two approximately equal incremental increases.				
§192.557(d)	If records for cast iron or ductile iron pipeline facilities see §192.557(d).				

XIX. PART 192 – S	TART UP & SHUT DOWN PROCEDURES	S	N/I	U	N/A
§192.605(b)(5)	Do the operator's procedures include starting up and shutting down				
	any part of the pipeline in a manner designed to assure operation				
	within the MAOP limits prescribed by this part, plus the build-up				
	allowed for operation of pressure-limiting and control devices?				

XX. PART 192 – Al	BNORMAL OPERATIONS: TRANSMISSION LINES	S	N/I	J	N/A
	Does the Operator have a procedure for abnormal operations?				
§192.605(c)(4)	Does a procedure require that if an abnormal operation occurs, that				
	the operator review personnel response considering the actions taken,				
	whether procedures were followed, and whether procedures were				
	adequate or should be revised? Is the review documented?				
§192.607	Are MAOP records traceable, verifiable, and complete? If they are not TVC is there a procedure for collecting this information? (See code for requirements.)				
	(Transmission in an HCA, Class 3, or Class 4 and >=30% SMYS: If not TVC, an MAOP reconfirmation is required see 192.624.) revised with Mega Rule implementation 7/1/2020				

XXI. PART 192 – CHANGE IN CLASS LOCATION		S	N/I	C	N/A
§192.609	(Transmission >40% SMYS) Does the operator have a process for doing				
	a class location study?				
§192.610	If there is a class location change and pipe is replaced, then a review of				
	the valve spacing and rupture mitigation valves much be completed.				
	(see code)				
§192.611	Is there a procedure for the MAOP to be confirmed or revised when a				
	change in class location occurs? Are there procedures to:				
	(a) Test the pipe to qualify the new MAOP.				
	(b) Reduce MAOP to meet the class location.				
	(d) Confirmation or revision of the maximum allowable operating				
	pressure that is required as a result of a study under §192.609 (must				
	be completed within 24 months of the change in class location).				

XXI. PART 192 – CHANG	GE IN CLASS LOCATION	S	N/I	U	N/A
	er to 192.611 if MAOP is confirmed or revised (also see Subpart K if licable)				

XXII. PART 192 –	SURVEILLANCE	S	N/I	U	N/A
§192.613(a)	Has the operator conducted continuing surveillance to determine if the following issues need to be addressed:  - Change in class location - Failures - Leakage history - Corrosion - Cathodic protection - Other unusual conditions  If yes, provide explanation of issues operator feels need to be addressed.				
§192.613(b)	Has the operator documented and initiated a program to correct problems discovered?				
§192.613(c)	Is there a procedure for inspecting transmission facilities after an extreme weather event or natural disaster? Is the inspection required to begin within 72 hours? Is there a requirement to take prompt remedial action?				

XXIII. PART 192 –	DAMAGE PREVENTION	S	N/I	U	N/A
§192.614	Does the operator have a damage prevention program? (Required for				
	Type B Gathering)				
	Do the operator's and operator's contractors drilling/boring				
	procedures include actions to protect their facilities from the dangers				
	posed by drilling and other trenchless technologies?				
	Does the operator have a procedure for marking facilities?				
	Does the operator have company personnel on site during				
	excavations?				
	What actions are taken when damage prevention procedures are not				
	followed?				

XXIV. PART 192 -	FAILURE INVESTIGATION	S	N/I	٥	N/A
§192.617	a) Does the operator have a procedure for failure investigations?				
	Does it include sending failure to lab for analysis if appropriate?				
	b) Does the operator develop, implement and incorporate lessons learned from the failure or incident review into its procedures?  Does it include personnel training, qualification programs, design, construction, testing, maintenance, operations and emergency procedures?				
	c) (Transmission) Does the operator have a procedure that if an incident involves closure of a rupture mitigation valve (RMV) or alternative equipment that there is post incident analysis of all the factors that may have been impacted. (see code for more information) Rupture rule				

d) (Transmission) Rupture post-failure and incident summary must be completed within 90 days. (see code for more information) Rupture rule		

XXV. PART 192	- MAXIMUM ALLOWABLE OPERATING PRESSURE	S	N/I	U	N/A
	Does the operator determine MAOP correctly? (Required for Type B Gathering)				
§192.619/	Is the MAOP commensurate with the class location? revised with				
§192.621/	Mega Rule implementation 7/1/2020				
§192.623					
	(a) How is the MAOP determined?				
	(1) By design pressure of weakest element? (See Subparts C & D)				
	(2) By test pressure				
	(3) By highest operating pressure to which the segment of line				
	was subjected during the preceding 5 years.				
	(4) Pressure determined by operator to be maximum safe pressure.				
§192.619	(a)(1) Is there a procedure for determining MAOP for pipelines being converted under 192.14?				
	(e) Transmission operators that meet the criteria of 192.624 must establish and document the MAOP of each pipeline segment in accordance with 192.624. (Transmission in an HCA, Class 3, or Class 4 and >=30% SMYS: If not TVC, an MAOP reconfirmation is required see 192.624.)				
	(f) Transmission operators must make and retain records necessary to establish and document the MAOP				
§192.624	Transmission Only: Is there a procedure for reconfirmation of the pipeline's MAOP? revised with Mega Rule implementation 7/1/2020				
§192.632	Transmission Only: Is there a procedure for an Engineering Critical Assessment for MAOP as necessary? revised with Mega Rule implementation 7/1/2020 (Or in TIMP Plan)				

XXVI. PART 192 –	ODORIZATION OF GAS	S	N/I	U	N/A
§192.625(a)	Distribution – Is the gas required to be odorized to a level that gas is				
	detectable at one-fifth of the lower explosive limit.				
	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?				

XXVII. PART 192	2 – HOT TAPPING		S	N/I	U	N/
§192.151	Is there a procedure for tapping pi	pelines under pressure?				
§192.627	Are hot taps made by qualified per	rsonnel?				
XXVIII. PART 192	– PIPELINE PURGING		S	N/I	U	N/
§192.629	Purging of pipelines must be done	to prevent entrapment of an				
	explosive mixture in the line.					
§192.629(a)	Are the lines which contain air pro	perly purged with gas?				
§192.629(b)	Are lines containing gas properly p	ourged with air (or inert gas)?				
XXIX. PART 192 -	- MAINTENANCE		S	N/I	U	N,
§192.703(b)	Is each segment of a pipeline that	becomes unsafe, replaced, repaired				
	or removed from service? (Require	ed for Type B Gathering)				
§192.703(c)	Are hazardous leaks repaired prom	nptly? (Required for Type B				
	Gathering)					
	How are non-hazardous leaks hand	dled?				
	If monitoring is done, how is moni	toring defined?				
Adv. Bulletin	How is eliminating hazardous leaks	s addressed?				
6/10/2021						
Adv. Bulletin	What steps have been taken to mi	nimize release of natural gas from				
6/10/2021	pipelines?					
					•	•
XXX. PART 192 –	PATROLLING TRANSMISSION		S	N/I	U	N,
§192.705(a)	Does the operator patrol surface of	conditions for indications of leaks,				
	construction activity, or other fact	ors on and adjacent to line ROW?				
	(a) Does the operator follow up or	n problems noted?				
§192.705(b)	Is the maximum interval between	patrols in accordance with the				
	is the maximum interval between	patrois in accordance with the				
	following: (Maximum interval be					
Class location						
	following: (Maximum interval be At Highway and Railroad Crossings	At all Other Places				
1 and 2	following: (Maximum interval be At Highway and Railroad Crossings 2/yr (7-1/2 months)	At all Other Places  1/Year (15 months)				
1 and 2 3	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)	At all Other Places  1/Year (15 months)  2/yr (7-1/2 months)				
1 and 2	following: (Maximum interval be At Highway and Railroad Crossings 2/yr (7-1/2 months)	At all Other Places  1/Year (15 months)				
1 and 2 3 4	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)	At all Other Places  1/Year (15 months)  2/yr (7-1/2 months)				
1 and 2 3 4 XXXI. PART 192 -	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)	At all Other Places  1/Year (15 months)  2/yr (7-1/2 months)  4/yr (4-1/2 months)	S	N/I	U	N
1 and 2 3 4 XXXI. PART 192 -	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)  - LEAK SURVEYS: TRANSMISSION  (a) Are leakage surveys of transmi	At all Other Places  1/Year (15 months)  2/yr (7-1/2 months)  4/yr (4-1/2 months)  ission lines conducted at intervals	S	N/I	U	N
1 and 2 3 4	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)  - LEAK SURVEYS: TRANSMISSION  (a) Are leakage surveys of transminot exceeding 15 months but at le	At all Other Places  1/Year (15 months)  2/yr (7-1/2 months)  4/yr (4-1/2 months)  ission lines conducted at intervals	S	N/I	U	N
1 and 2 3 4 XXXI. PART 192 -	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)  - LEAK SURVEYS: TRANSMISSION  (a) Are leakage surveys of transminot exceeding 15 months but at le (Required for Type B Gathering)	At all Other Places  1/Year (15 months)  2/yr (7-1/2 months)  4/yr (4-1/2 months)  ission lines conducted at intervals ast once each calendar year?	S	N/I	U	N
1 and 2 3 4 XXXI. PART 192 -	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  - LEAK SURVEYS: TRANSMISSION  (a) Are leakage surveys of transminot exceeding 15 months but at le (Required for Type B Gathering)  (b) Are lines transporting unodoris	At all Other Places  1/Year (15 months)  2/yr (7-1/2 months)  4/yr (4-1/2 months)  ission lines conducted at intervals ast once each calendar year?	S	N/I	U	N
1 and 2 3 4 XXXI. PART 192 -	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)  - LEAK SURVEYS: TRANSMISSION  (a) Are leakage surveys of transminot exceeding 15 months but at le (Required for Type B Gathering)  (b) Are lines transporting unodorize equipment at intervals not exceed	At all Other Places  1/Year (15 months) 2/yr (7-1/2 months) 4/yr (4-1/2 months)  ission lines conducted at intervals ast once each calendar year?  zed gas surveyed using leak detector ing 7-1/2 months but at least twice	S	N/I	U	N
1 and 2 3 4 XXXI. PART 192 -	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)  - LEAK SURVEYS: TRANSMISSION  (a) Are leakage surveys of transminot exceeding 15 months but at le (Required for Type B Gathering)  (b) Are lines transporting unodorize equipment at intervals not exceed each calendar year for Class 3 loca	At all Other Places  1/Year (15 months) 2/yr (7-1/2 months) 4/yr (4-1/2 months)  ission lines conducted at intervals ast once each calendar year?  zed gas surveyed using leak detector ing 7-1/2 months but at least twice tions and at intervals not exceeding	S	N/I	U	N
1 and 2 3 4 XXXI. PART 192 -	following: (Maximum interval be At Highway and Railroad Crossings  2/yr (7-1/2 months)  4/yr (4-1/2 months)  4/yr (4-1/2 months)  - LEAK SURVEYS: TRANSMISSION  (a) Are leakage surveys of transminot exceeding 15 months but at le (Required for Type B Gathering)  (b) Are lines transporting unodorize equipment at intervals not exceed	At all Other Places  1/Year (15 months) 2/yr (7-1/2 months) 4/yr (4-1/2 months)  ission lines conducted at intervals ast once each calendar year?  zed gas surveyed using leak detector ing 7-1/2 months but at least twice tions and at intervals not exceeding	S	N/I	U	N

Are the instruments required to be calibrated per the manufacturer's

XXVI. PART 192 – ODORIZATION OF GAS

instructions?

XXXII. 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: (Required for Type B Gathering)				
	(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(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)				

XXXIII. PART 192	– FIELD REPAIRS: TRANSMISSION LINES	S	N/I	U	N/A
192.709(a)	Are field repair records (for the pipe) maintained that contain the following information (these records must be maintained for the life of the pipeline):				
	- Date				
	- Location of repair				
	- Description of each repair made (including pipe-to-pipe connections)				
192.709(b)	Are field repair records (for parts of the system other than the pipe) maintained that contain the following information (these records must be maintained for at least 5 years):				
	- Date				
	- Location of repair				
	- Description of each repair made				
192.709(c)	Note: Repairs generated by patrols, surveys, inspections, or tests required by subparts L and M of this part must be retained for at least 5 years or until the next patrol, survey, inspection, or test is completed (whichever is longer).				
§192.710	Transmission lines that operate at greater than 30% SMYS: Is there a procedure for determining areas located in Class 3 or Class 4 locations or moderate consequence areas. revised with Mega Rule implementation 7/1/2020 (Or in TIMP Plan)				
§192.711(a)	Temporary repairs. Each operator must take immediate temporary measures to protect the public whenever:  (1) A leak, imperfection, or damage that impairs its serviceability is found in a segment of steel transmission line operating at or above 40 percent of the SMYS; and  (2) It is not feasible to make a permanent repair at the time of discovery.				

XXXIII. PART 192	- FIELD REPAIRS: TRANSMISSION LINES	S	N/I	U	N/A
§192.711(b)	Permanent repairs. An operator must make permanent repairs on its pipeline system according to the following:  (1) Non integrity management repairs: The operator must make				
	permanent repairs as soon as feasible.				
	(2) Integrity management repairs: When an operator discovers a condition on a pipeline covered under Subpart O-Gas Transmission				
	Pipeline Integrity Management, the operator must remediate the				
	condition as prescribed by § 192.933(d).				
§192.711(c)	No welded patches may be used.				
§192.712	Is there a procedure for doing an analysis of predicted failure pressure				
	if required (by 192.485 and/or 192.714)? revised with Mega Rule				
	implementation 7/1/2020 (Or in TIMP Plan)				
§192.713(a)	(a) Each imperfection or damage that impairs the serviceability of pipe in a steel transmission line operating at or above 40 percent of SMYS must be-				
	(1) Removed by cutting out and replacing a cylindrical piece of pipe; or				
	(2) Repaired by a method that reliable engineering tests and analyses				
	show can permanently restore the serviceability of the pipe.				
§192.713(b)	Operating pressure must be at a safe level during repair operations.				
§192.714	Repair Criteria				
	Transmission – not located in an HCA: Repair Criteria Are there procedures for repairs not located in HCAs? (See code for all				
	details.)				
	(a) Operating pressure must be less than predicted failure per 192.712 during repair and materials must be TVC				
	(b) Conditions must be remediated according to a schedule that				
	prioritizes the conditions				
	(c) Remediation must occur immediately on the following:				
	a. Metal loss where predicted failure is less than or equal to 1.1 x MAOP				
	b. A dent located between 8 o'clock and 4 o'clock				
	c. Metal loss greater than 80%				
	d. Metal loss affects the longitudinal seam and predicted failure is less than 1.25 x MAOP				
	e. A crack or crack-like anomaly meeting the criteria (see code)				
	f. Any anomaly that is judged to need immediate action				
	(d) Remediation must occur within 2 year of discovery if:				
	a. A smooth dent between 8 o'clock and 4 o'clock with a depth greater than 6% (unless analysis by 192.712 (c)				
	shows critical strain levels are not exceeded.)				
	b. A dent with depth greater than 2% that affects				
	curvature at the girth weld or longitudinal or helical				
	seam weld, (unless analysis by 192.712(c) shows critical strain levels are not exceeded.)				
	c. Metal loss anomalies – calculation of the remaining				
	strength per 192.712(b) is: less than 1.39 x MAOP for				
	Class 2, or less than 1.5 x MAOP for Class 3 or 4. Class 1 locations with predicted failure pressure				
	greater than 11 x MAOP must follow remediation				
	schedule in ASME/ANSI B31.8S.				
	d. Metal loss at crossing of another pipeline, is in an area with widespread circumferential corrosion or could				
	with widespread circumferential corrosion or could				

XXXIII. PART 192 -	- FIELD REPAIRS: TRANSMISSION LINES	S	N/I	U	N/A
XXXIII. PART 192 -	affect a girth weld and that has a predicted failure pressure (192.712(b)) less than 1.39 x MAOP for Class 1 or 1.5 x MAOP for Class 2, 3 or 4.  e. Metal loss preferentially affecting a longitudinal seam and predicted failure pressure (192.712(d)) is less than 1.39 x MAOP for Class 1 or less than 1.5 x MAOP for Class 2, 3, and 4.  f. A crack or crack-like anomaly that has a predicted failure pressure (192.712(d)) that is less than 1.39 x MAOP for Class 1 or less than 1.5 x MAOP for Class 2, 3, and 4.  (e) An operator must record and monitor during subsequent risk assessments the following:  a. A dent between 4 o'clock and 8 o'clock with a depth greater than 6%  b. A dent between 8 o'clock and 4 o'clock with a depth greater than 6%  b. A dent between 8 o'clock and 4 o'clock with a depth greater than 6% and where engineering analysis determines critical strain levels are not exceeded. (192.712(c))  c. A dent with depth greater than 2% that affects curvature at the girth weld or longitudinal or helical seam weld, (unless analysis by 192.712(c) shows critical strain levels are not exceeded.)  d. A dent that has metal loss, cracking or a stress riser and where an engineering analysis demonstrates critical strain levels are not exceeded. (192.712(c))  e. Metal loss preferential affecting a longitudinal seam where predicted failure pressure (192.712(d)) is greater than or equal to 1.5 x MAOP for Class 1 or greater than or equal to 1.5 x MAOP for Class 2, 3 or 4  f. A crack or crack-like anomaly which the predicted failure pressure (192.712(d)) is greater than or equal to 1.5 x MAOP for Class 1 or greater than or equal to 1.5 x MAOP for Class 1 or greater than or equal to 1.5 x MAOP for Class 1 or greater than or equal to 1.5 x MAOP for Class 2, 3 or 4  f. Temporary pressure reduction must be taken immediately until the operator remediates the conditions above.  a. 80% of operating pressure  b. Pressure not exceeding the predicted failure pressure x the design factor for the class location.  c. Pressure not exceeding t	S	N/I	U	N/A

XXXIII. PART 19	2 – FIELD REPAIRS: TRANSMISSION LINES	S	N/I	U	N/A
§192.715	Permanent field repair of welds				
	Is each weld found not acceptable under 192.241(c) repaired				
	properly?				
	(a) Take segment of line out off service and repair according to				
	192.245				
	(b) The line may remain in service if:				
	a. The weld is not leaking				
	b. The pressure is reduced to 20% SMYS				
	c. Grinding can be limited so that at least 1/8 inch of pipe weld remains				
	(c) If repair can't be made with a or b above then a full				
	encirclement welded split sleeve must be used for the repair.				
§192.717	Do weld repairs meet the following?				
	Permanent field repair of leaks.				
	Each permanent field repair of a leak on a transmission line must be made by-				
	(a) Removing the leak by cutting out and replacing a cylindrical piece of pipe; or				
	(b) Repairing the leak by one of the following methods:				
	(1) Install a full encirclement welded split sleeve of appropriate				
	design, unless the transmission line is joined by mechanical				
	couplings and operates at less than 40 percent of SMYS.				
	(2) If the leak is due to a corrosion pit, install a properly designed				
	bolt-on-leak clamp.				
	(3) If the leak is due to a corrosion pit and on pipe of not more				
	than 40,000 psi (267 Mpa) SMYS, fillet weld over the pitted area a				
	steel plate patch with rounded corners, of the same or greater				
	thickness than the pipe, and not more than one-half of the				
	diameter of the pipe in size.				
	(4) If the leak is on a submerged offshore pipeline or submerged				
	pipeline in inland navigable waters, mechanically apply a full				
	encirclement split sleeve of appropriate design.				
	(5) Apply a method that reliable engineering tests and analyses				
	show can permanently restore the serviceability of the pipe.				
	Testing of repairs				
§192.719(a)	Is replacement pipe tested to the requirement of a new line installed				
	in the same location and records maintained as required under				
	Subpart J Testing Requirements? (Note: the pipe may be tested before				
	it is installed) Is it examined in accordance with 192.241?				
§192.720	Distribution systems: Leak repair.				
	Mechanical leak repair clamps installed after January 22, 2019 may not				
	be used as a permanent repair method for plastic pipe.				
§192.750	Is there a procedure for launcher and receiver safety. revised with				
	Mega Rule implementation 7/1/2020				

XXXIV. 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?				
	How has the operator defined a business district?				

XXXV. PART 192 -	LEAKAGE SURVEYS: DISTRIBUTION	S	N/I	U	N/A
§192.605(b)	Procedures for §192.723 – Leak Survey?				
§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?				
§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?				

	– TEST REQUIREMENTS FOR REINSTATING SERVICE NES	S	N/I	U	N/A
§192.725(a)	Does the operator test reinstated service lines in the same manner as new lines and maintain records as required by Subpart J?				
§192.725(b)	Is each service line that is temporarily disconnected tested from the point of disconnection and records maintained as required by Subpart J?				

XXXVII. PART 1	192 – ABANDONMENT OR DEACTIVATION OF FACILITIES	S	N/I	U	N/A
§192.605(b)	Does the O&M Plan provide for abandonment or deactivation of				
	pipelines?				
§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)	When discontinuing service to a customer, does the operator lock or				
(1)(2)(3)	take other means to prevent a valve from being opened by				
	unauthorized persons, or use other means?				

XXXVIII. PART 192	PRESSURE LIMITING AND REGULATING STATIONS	S	N/I	U	N/A
§192.181(b)	Each regulator station controlling the flow or pressure of gas in a				
	distribution system must have a valve installed on the inlet piping at a				
	distance from the regulator station sufficient to permit the operation				
	of the valve during an emergency that might preclude access to the				
	station.				
§192.195	(a) General requirements. Except as provided in §192.197, each				
	pipeline that is connected to a gas source so that the maximum				
	allowable operating pressure could be exceeded as the result of				
	pressure control failure or of some other type of failure, must have				
	pressure relieving or pressure limiting devices that meet the				
	requirements of §192.199 and §192.201.				
	(b) Additional requirements for distribution systems. Each distribution				
	system that is supplied from a source of gas that is at a higher pressure				
	than the maximum allowable operating pressure for the system must				
	(1) Have pressure regulation devices capable of meeting the pressure,				
	load, and other service conditions that will be experienced in normal				
	operation of the system, and that could be activated in the event of				
	failure of some portion of the system; and				
	, ,				
	(2) Be designed so as to prevent accidental overpressuring.				
§192.739(a)	Does the operator perform and document inspections on pressure				
	limiting relief devices and pressure regulators not to exceed 15				
	months, but at least annually to determine the following:				
	In good mechanical condition?				
	Adequate from the standpoint of capacity and reliability of				
	operation for the service in which it is employed?				
	Set to control or relieve at the correct pressures consistent				
	with the pressure limits of §192.201(a)? (See exception in				
	§192.739(b))				
	(d) Properly installed and protected from dirt, liquids or other				
	conditions that might prevent proper operation?				
§192.739(b)	Does the operator have any steel pipelines whose MAOP is				
	determined under §192.619(c)? If yes, the following control or relief				
	pressures apply and inspector should double check operator				
	calculations.				
	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 the MAOP plus				
	4 percent.				
	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.				

XXXVIII. PART 192	2 – PRESSURE LIMITING AND REGULATING STATIONS	S	N/I	U	N/A
§192.743	Does the operator perform and document inspections on relief devices				
	not to exceed 15 months but at least once each calendar year to				
	determine the following?				
	(a) Has sufficient capacity been determined by testing in place				
	or by review and calculations?				
	(b) Are calculations used to determine capacity available?				
	(c) Required that unsatisfactory conditions be corrected in an				
	appropriate time frame?				
§192.740(b)	Farm Taps: Each pressure regulating or limiting device, relief device				
	(except rupture discs), automatic shutoff device, and associated				
	equipment must be inspected and tested at least once every 3				
	calendar years, not exceeding 39 months, to determine that it is:				
	(1) In good mechanical condition;				
	(2) Adequate from the standpoint of capacity and reliability of				
	operation for the service in which it is employed;				
	(3) Set to control or relieve at the correct pressure consistent with the				
	pressure limits of §192.197; and to limit the pressure on the inlet of				
	the service regulator to 60 psi (414 kPa) gauge or less in case the				
	upstream regulator fails to function properly; and				
	(4) Properly installed and protected from dirt, liquids, or other				
	conditions that might prevent proper operation.				
	Are farm taps include in the DIMP program? (Enforcement Discretion,				
	March 2019)				
§192.740(c)	This section does not apply to equipment installed on:				
	1. A service line that only serves engines that power irrigation				
	pumps;				
	2. A service line included in a distribution integrity management				
	plan				

	- TELEMETERING OR RECORDING GAUGES-	S	N/I	U	N/A
DI	DISTRIBUTION				
§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? (yes or no)				
§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? (yes or no)  How does the operator decide where telemetering or recording gauges are installed?				
§192.741(c)	Does the operator inspect equipment and take corrective measures when there are indications of abnormally high or low pressure? (yes or no)  Are these inspections documented within the operator's records? (yes				
	or no)				

XL. PART 192 – V	VALVE DESIGN AND MAINTENANCE: TRANSMISSION	S	N/I	U	N/A
	Is there a procedure to determine valves that might be used in an				
	emergency?				
§192.179	(a) Each transmission line, other than offshore segments, must have				
	sectionalizing block valves spaced as follows, unless in a particular case				
	the Administrator finds that alternative spacing would provide an				
	equivalent level of safety:				
	(1) Each point on the pipeline in a Class 4 location must be within 2				
	1/2 miles (4 kilometers) of a valve.				
	(2) Each point on the pipeline in a Class 3 location must be within 4				
	miles (6.4 kilometers) of a valve.				
	(3) Each point on the pipeline in a Class 2 location must be within 7				
	1/2 miles (12 kilometers) of a valve.				
	(4) Each point on the pipeline in a Class 1 location must be within 10				
	miles (16 kilometers) of a valve.				
	(b) Each sectionalizing block valve on a transmission line, other than				
	offshore segments, must comply with the following:				
	(1) The valve and the operating device to open or close the valve must				
	be readily accessible and protected from tampering and damage.				
	(2) The valve must be supported to prevent settling of the valve or				
	movement of the pipe to which it is attached.				
	(c) Each section of a transmission line, other than offshore segments,				
	between main line valves must have a blowdown valve with enough				
	capacity to allow the transmission line to be blown down as rapidly as				
	practicable. Each blowdown discharge must be located so the gas can				
	be blown to the atmosphere without hazard and, if the transmission				
	line is adjacent to an overhead electric line, so that the gas is directed				
	away from the electrical conductors.				
	(e) & (f) Transmission lines 6" or larger constructed or replaced after				
	4/10/2023 must have rupture-mitigation valves (RMV) or alternative				
	technology and meet the requirements of 192.634 and 192.636.				
§192.634	Rupture rule (Does not apply to Type B gathering)  (Transmission line 6" or larger constructed or replaced after				
9192.034	4/10/2023) maximum spacing between valves. (see code) (Does not				
	apply to Type B gathering)				
§192.636	(Transmission line 6" or larger constructed or replaced after				
§132.030	4/10/2023) Response to rupture; capabilities of rupture-mitigation				
	valves or alternative equipment. (see code) (Does not apply to Type B				
	gathering)				
§192.745(a)	Does the operator check and service each valve which might be				
3132.7 13(d)	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?				
§192.745(c)	Each remote-control valve (RCV) must have a point-to point				
	verification between SCADA system and the valve.				
		l	l	l	1

XL. PART 192 – VA	ALVE DESIGN AND MAINTENANCE: TRANSMISSION	S	N/I	N/A
§192.745(d)	For alternative equivalent technology where a valve is manually or locally operated operators much achieve closure in 30 minutes or less			
	through an initial and periodic review. (see code for additional details)			
§192.745(e) & (f)	Each operator must develop and implement remedial measures to correct any valve that is inoperable or unable to maintain effective shutoff.  An operator using an ASV as and RMV must document and confirm the ASV shut-in pressures each calendar year not to exceed 15 months. Valves must also be proven to operate each calendar year not to			
	exceed 15 months.			

XLI. PART 192 – V	ALVE MAINTENANCE: DISTRIBUTION	S	N/I	U	N/A
	Is there a procedure to determine valves that might be used in an emergency?				
§192.181(a)	Each high-pressure distribution system must have valves spaced so as to reduce the time to shut down a section of main in an emergency. The valve spacing is determined by the operating pressure, the size of the mains, and the local physical conditions.				
§192.181(c)	Each valve on a main installed for operating or emergency purposes must comply with the following:  (1) The valve must be placed in a readily accessible location so as to facilitate its operation in an emergency.  (2) The operating stem or mechanism must be readily accessible.  (3) If the valve is installed in a buried box or enclosure, the box or enclosure must be installed so as to avoid transmitting external loads to the main.				
§192.747(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?				
§192.747(b)	Does the operator take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve?				

XLII. PART 192 – V	/AULTS	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? (See records check list) Vaults need to be inspected to determine if they are in good physical condition and adequately vented. (Vault is defined as "An underground structure which may be entered, and which is designed to contain piping and piping components, such as valves or pressure regulators.") Currently not aware of any vaults in South Dakota.				
§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?				

XLII. PART 192 – VAULTS		S	N/I	U	N/A
§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?				

XLIII. PART 192 –	PREVENTION OF ACCIDENTAL IGNITION	S	N/I	U	N/A
§192.751	Does the operator identify steps to minimize the danger of accidental ignition of gas in any structure or area where the presence of gas constitutes a hazard of fire or explosion?				
	Does it include the following:  (a) When a hazardous amount of gas is being vented into open air, each potential source of ignition must be removed from the area and a fire extinguisher must be provided.  (b) Gas or electric welding or cutting may not be performed on pipe or on pipe components that contain a combustible mixture of gas and air in the area of work.  (c) Post warning signs, where appropriate.				

XLIV. PART 192 – GENERAL CONSTRUCTION REQUIREMENTS for TRANSMISSION LINES and MAINS		S	N/I	U	N/A
§192.303 & 192.305	Is it required that each transmission line or main is inspected to ensure that is constructed according to the written procedures?  Does the operator have written construction specifications or standards?				

§192.313	Bends and elbows  (a) Each field bend in <i>steel pipe</i> , other than a wrinkle bend made in accordance with §192.315, must comply with the following:		
	<ul> <li>(1) A bend must not impair the serviceability of the pipe.</li> <li>(2) Each bend must have a smooth contour and be free from buckling, cracks, or any other mechanical damage.</li> <li>(3) On pipe containing a longitudinal weld, the longitudinal weld must be as near as practicable to the neutral axis of the bend unless:</li> </ul>		
	(i) The bend is made with an internal bending mandrel; or		
	(ii) The pipe is 12 inches (305 millimeters) or less in outside diameter or has a diameter to wall <i>thickness</i> ratio less than 70.		
	(b) Each circumferential weld of steel pipe which is located where the <i>stress</i> during bending causes a permanent deformation in the pipe must be nondestructively tested either before or after the bending process.		
	<ul> <li>(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 (51 millimeters) or more in diameter unless the arc length, as measured along the crotch, is at least 1 inch (25 millimeters).</li> <li>(d) An operator may not install plastic pipe with a bend radius that is less than the minimum bend radius specified by the manufacturer for the diameter of the pipe being installed.</li> </ul>		
§192.315	If the operator allows wrinkle bends, are they made in accordance with 192.315?		
§192.317	Protection from hazards.  (a) The operator must take all practicable steps to protect each transmission line or main from washouts, floods, unstable soil, landslides, or other hazards that may cause the pipeline to move or to sustain abnormal loads. In addition, the operator must take all practicable steps to protect offshore pipelines from damage by mud slides, water currents, hurricanes, ship anchors, and fishing operations		
§192.317	(b) Each above ground transmission line or main must be 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.		
§192.319(a)	Installation of pipe in a ditch  (a) When installed in a ditch, each transmission line that is to be operated at a pressure producing a hoop stress of 20 percent or more of SMYS must be installed so that the pipe fits the ditch so as to minimize stresses and protect the pipe coating from damage.		

§192.319(b)	(b) When a ditch for a <b>transmission line or main</b> is backfilled, it must		
g192.319(b)	be backfilled in a manner that:		
	(1) Provides firm support under the pipe; and		
	(2) Prevents damage to the pipe and pipe coating from equipment or		
	from the backfill material.		
§192.319(d), (e),	Steel Transmission: After back fill a coating survey must be conducted		
(f) & (g)	and any damage classified as severe must be repaired. The coating		
(1) ∞ (8)	survey must be documented. (Does not apply to Type B gathering)		
§192.321	Installation of plastic pipe.		
3132.321	(a) <i>Plastic pipe</i> must be installed below ground level except as		
	provided by paragraphs (g), (h) and (i) of this section.		
	(b) Plastic pipe that is installed in a vault or any other below grade		
	enclosure must be completely encased in gas-tight metal pipe and		
	fittings that are adequately protected from corrosion.		
	(c) Plastic pipe must be installed so as to minimize shear or tensile		
	stresses.		
	(d) Plastic pipe must have a minimum wall <i>thickness</i> in accordance		
	with § 192.121.		
	(e) Plastic pipe that is not encased must have an electrically		
	conducting wire or other means of locating the pipe while it is		
	underground. 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 pipe locating purposes		
	must be resistant to corrosion damage, either by use of coated copper		
	wire or by other means.		
	(f) Plastic pipe that is being encased must be inserted into the casing		
	pipe in a manner that will protect the plastic. Plastic pipe that is being		
	encased must be protected from damage at all entrance and all exit		
	points of the casing. The leading end of the plastic must be closed		
	before insertion.		
	(g) Uncased Plastic pipe may be temporarily installed above ground		
	level under the following conditions:		
	9		
	(1) The operator must be able to 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 lesstad where damage by outernal forces is		
	(2) The pipe either is located where damage by external forces is		
	unlikely or is otherwise protected against such damage.		
	(3) The pipe adequately resists exposure to ultraviolet light and		
	high and low temperatures.		

	(h) Plastic pipe may be installed on bridges provided that it is:	
	(1) Installed with protection from mechanical damage, such as	
	installation in a metallic casing;	
	(2) Protected from ultraviolet radiation; and (3) Not allowed to exceed the pipe temperature limits specified in	
	(3) Not allowed to exceed the pipe <i>temperature</i> limits specified in § 192.121.	
	(i) Plastic mains may terminate above ground level	
	provided they comply with the following:	
	(1) The above-ground level part of the plastic	
	main is protected against deterioration and	
	external damage.	
	(2) The plastic main is not used to support	
	external loads.	
	(3) Installations of risers at regulator stations	
	must meet the design requirements of § 192.204.	
§192.323	Casing.	
	Each casing used on a transmission line or main under a railroad or	
	highway must comply with the following:	
	(a) The casing must be designed to withstand the superimposed loads.	
	(b) If there is a possibility of water entering the casing, the ends must	
	be sealed.	
	(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, the casing must be designed to hold this pressure at a stress	
	level of not more than 72 percent of SMYS.	
	(d) If vents are installed on a casing, the vents must be protected from	
6402.225	the weather to prevent water from entering the casing.	
§192.325	Underground clearance.	
	(a) Each transmission line must be installed with at least 12 inches (305 millimeters) of clearance from any other underground structure	
	not associated with the transmission line. If this clearance cannot be	
	attained, the transmission line must be protected from damage that	
	might result from the proximity of the other structure.	
	(b) Each main must be 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.	
	(c) In addition to meeting the requirements of paragraphs (a) or (b) of	
	this section, each plastic transmission line or main must be installed	
	with sufficient clearance, or must be insulated, from any source of	
	heat so as to prevent the heat from impairing the serviceability of the	
	pipe.	

	(d) Each pipe-type or bottle-type hominimum clearance from any other high \$192.175(b).					
§192.327	Cover.  (a) Except as provided in paragraphs each buried transmission line must be as follows:					
	Location	Normal Soil	Consolidated Rock			
		Inches (I	Millimeters)			
	Class 1 locations	30 (762)	18 (457)			
	Class 2, 3, and 4 locations	36 (914)	24 (610)			
	Drainage ditches of public roads and railroad crossings	36 (914)	24 (610)			
	(b) Except as provided in paragraphs buried main must be installed with a of cover.			s)		
	(c) Where an underground structure transmission line or main with the m line or main may be installed with le additional protection to withstand ar	inimum cover, ss cover if it is	, the <b>transmission</b> provided with			
	<ul> <li>(d) A main may be installed with less of cover if the law of the State or mu</li> <li>(1) Establishes a minimum cover millimeters);</li> <li>(2) Requires that mains be installed.</li> </ul>	nicipality: of less than 2	4 inches (610	5)		X
	other utility lines; and, (3) Provides adequately for prevexternal forces.  No known laws in SD					^
	(e) Except as provided in paragraph in a navigable river, stream, or harbo minimum cover of 48 inches (1,219 r (610 millimeters) in consolidated roc the underwater natural bottom (as d generally accepted practices).	or must be inst nillimeters) in k between the	alled with a soil or 24 inches e top of the pipe ar			

§192.329	Installation of plastic pipelines by trenchless excavation.		
	Plastic pipelines installed by trenchless excavation must comply with		
	the following:		
	(a) Each operator must take practicable steps to provide sufficient		
	clearance for installation and maintenance activities from other		
	underground utilities and/or structures at the time of installation.		
	(b) For each pipeline section, plastic pipe and components that are		
	pulled through the ground must use a weak link, as defined by § 192.3,		
	to ensure the pipeline will not be damaged by any excessive forces		
	during the pulling process.		
192 Part C	Does the operator have specifications in place for pipe design?		
§192.144	Qualifying Metallic components. Notwithstanding any requirement of		
	this subpart which incorporates by reference an edition of a document		
	listed in §192.7 or Appendix B of this part, a metallic component		
	manufactured in accordance with any other edition of that document		
	is qualified for use under this part if-		
	(a) It can be shown through visual inspection of the cleaned		
	component that no defect exists which might impair the strength or		
	tightness of the component; and		
	(b) The edition of the document under which the component was		
	manufactured has equal or more stringent requirements for the		
	following as an edition of that document currently or previously listed		
	in §192.7 or appendix B of this part:		
	(1) Pressure testing;		
	(2) Materials; and,		
	(3) Pressure and temperature ratings.		

## §192.153 Components Fabricated by welding

- (a) Except for branch connections and assemblies of standard pipe and fittings joined by circumferential welds, the design pressure of each component fabricated by welding, whose strength cannot be determined, must be established in accordance with paragraph UG-101 of the ASME Boiler and Pressure Vessel Code (BPVC) (Section VIII, Division 1) (incorporated by reference, see §192.7).
- (b) Each prefabricated unit that uses plate and longitudinal seams must be designed, constructed, and tested in accordance with the ASME BPVC (Rules for Construction of Pressure Vessels as defined in either Section VIII, Division 1 or Section VIII, Division 2; incorporated by reference, see §192.7), except for the following:
- (1) Regularly manufactured butt-welding fittings.
- (2) Pipe that has been produced and tested under a specification listed in appendix B to this part.
- (3) Partial assemblies such as split rings or collars.
- (4) Prefabricated units that the manufacturer certifies have been tested to at least twice the maximum pressure to which they will be subjected under the anticipated operating conditions.
- (c) Orange-peel bull plugs and orange-peel swages may not be used on pipelines that are to operate at a hoop stress of 20 percent or more of the SMYS of the pipe.
- (d) Except for flat closures designed in accordance with the ASME BPVC (Section VIII, Division 1 or 2), flat closures and fish tails may not be used on pipe that either operates at 100 p.s.i. (689 kPa) gage or more, or is more than 3 inches in (76 millimeters) nominal diameter.
- (e) The test requirements for a prefabricated unit or pressure vessel, defined for this paragraph as components with a design pressure established in accordance with paragraph (a) or paragraph (b) of this section are as follows.
- (1) A prefabricated unit or pressure vessel installed after July 14, 2004 is not subject to the strength testing requirements at §192.505(b) provided the component has been tested in accordance with paragraph (a) or paragraph (b) of this section and with a test factor of at least 1.3 times MAOP.

- (2) A prefabricated unit or pressure vessel must be tested for a duration specified as follows:
- (i) A prefabricated unit or pressure vessel installed after July 14, 2004, but before October 1, 2021 is exempt from §§192.505(c) and (d) and 192.507(c) provided it has been tested for a duration consistent with the ASME BPVC requirements referenced in paragraph (a) or (b) of this section.
- (ii) A prefabricated unit or pressure vessel installed on or after October 1, 2021 must be tested for the duration specified in either §192.505(c) or (d), §192.507(c), or §192.509(a), whichever is applicable for the pipeline in which the component is being installed.
- (3) For any prefabricated unit or pressure vessel permanently or temporarily installed on a pipeline facility, an operator must either:
- (i) Test the prefabricated unit or pressure vessel in accordance with this section and Subpart J of this part after it has been placed on its support structure at its final installation location. The test may be performed before or after it has been tied-in to the pipeline. Test records that meet §192.517(a) must be kept for the operational life of the prefabricated unit or pressure vessel; or
- (ii) For a prefabricated unit or pressure vessel that is pressure tested prior to installation or where a manufacturer's pressure test is used in accordance with paragraph (e) of this section, inspect the prefabricated unit or pressure vessel after it has been placed on its support structure at its final installation location and confirm that the prefabricated unit or pressure vessel was not damaged during any prior operation, transportation, or installation into the pipeline. The inspection procedure and documented inspection must include visual inspection for vessel damage, including, at a minimum, inlets, outlets, and lifting locations. Injurious defects that are an integrity threat may include dents, gouges, bending, corrosion, and cracking. This inspection must be performed prior to operation but may be performed either before or after it has been tied-in to the pipeline. If injurious defects that are an integrity threat are found, the prefabricated unit or pressure vessel must be either non-destructively tested, re-pressure tested, or remediated in accordance with applicable part 192 requirements for a fabricated unit or with the applicable ASME BPVC requirements referenced in paragraphs (a) or (b) of this section. Test, inspection, and repair records for the fabricated unit or pressure vessel must be kept for the operational life of the component. Test records must meet the requirements in §192.517(a).

- (4) An initial pressure test from the prefabricated unit or pressure vessel manufacturer may be used to meet the requirements of this section with the following conditions:
- (i) The prefabricated unit or pressure vessel is newly-manufactured and installed on or after October 1, 2021, except as provided in paragraph (e)(4)(ii) of this section.
- (ii) An initial pressure test from the fabricated unit or pressure vessel manufacturer or other prior test of a new or existing prefabricated unit or pressure vessel may be used for a component that is temporarily installed in a pipeline facility in order to complete a testing, integrity assessment, repair, odorization, or emergency response-related task, including noise or pollution abatement. The temporary component must be promptly removed after that task is completed. If operational and environmental constraints require leaving a temporary prefabricated unit or pressure vessel under this paragraph in place for longer than 30 days, the operator must notify PHMSA and State or local pipeline safety authorities, as applicable, in accordance with §192.18.
- (iii) The manufacturer's pressure test must meet the minimum requirements of this part; and
- (iv) The operator inspects and remediates the prefabricated unit or pressure vessel after installation in accordance with paragraph (e)(3)(ii) of this section.
- (5) An existing prefabricated unit or pressure vessel that is temporarily removed from a pipeline facility to complete a testing, integrity assessment, repair, odorization, or emergency response-related task, including noise or pollution abatement, and then re-installed at the same location must be inspected in accordance with paragraph (e)(3)(ii) of this section; however, a new pressure test is not required provided no damage or threats to the operational integrity of the prefabricated unit or pressure vessel were identified during the inspection and the MAOP of the pipeline is not increased.
- (6) Except as provided in paragraphs (e)(4)(ii) and (5) of this section, on or after October 1, 2021, an existing prefabricated unit or pressure vessel relocated and operated at a different location must meet the requirements of this part and the following:
- (i) The prefabricated unit or pressure vessel must be designed and constructed in accordance with the requirements of this part at the

	time the vessel is returned to operational service at the new location; and  (ii) The prefabricated unit or pressure vessel must be pressure tested by the operator in accordance with the testing and inspection requirements of this part applicable to newly installed prefabricated units and pressure vessels.		
§192.157	Extruded Outlets		
	If extruded outlets are used are the requirements in 192.157		
	followed?		
§192.159	Flexibility		
	Each pipeline must be designed with enough flexibility to prevent		
	thermal expansion or contraction from causing excessive stresses in		
	the pipe or components, excessive bending or unusual loads at joints,		
	or undesirable forces or moments at points of connection to		
	equipment, or at anchorage or guide points.		

§192.161	Supports and anchors		
	(a) Each pipeline and its associated equipment must have enough		
	anchors or supports to:		
	(1) Prevent undue strain on connected equipment;		
	(2) Resist longitudinal forces caused by a bend or offset in the pipe;		
	and,		
	(3) Prevent or damp out excessive vibration.		
	(b) Each exposed pipeline must have enough supports or anchors to		
	protect the exposed pipe joints from the maximum end force caused		
	by internal pressure and any additional forces caused by temperature		
	expansion or contraction or by the weight of the pipe and its contents.		
	(c) Each support or anchor on an exposed pipeline must be made of		
	durable, noncombustible material and must be designed and installed		
	as follows:		
	(1) Free expansion and contraction of the pipeline between supports		
	or anchors may not be restricted.		
	(2) Provision must be made for the service conditions involved.		
	(3) Movement of the pipeline may not cause disengagement of the		
	support equipment.		
	(d) Each support on an exposed pipeline operated at a stress level of		
	50 percent or more of SMYS must comply with the following:		
	(1) A structural support may not be welded directly to the pipe.		
	(2) The support must be provided by a member that completely		
	encircles the pipe.		
	(3) If an encircling member is welded to a pipe, the weld must be		
	continuous and cover the entire circumference.		
	(e) Each underground pipeline that is connected to a relatively		
	unyielding line or other fixed object must have enough flexibility to		
	provide for possible movement, or it must have an anchor that will		
	limit the movement of the pipeline.		
	(f) Except for offshore pipelines, each underground pipeline that is		
	being connected to new branches must have a firm foundation for		
	both the header and the branch to prevent detrimental lateral and		
	vertical movement.		
§192.183	Vault Design Requirement		
/192.185 /192.187	If a vault is installed, is there a process for the design?		
/192.189			

§192.203	Instrument, control, and sampling pipe and components.  (a) Applicability. This section applies to the design of instrument, control, and sampling pipe and components. It does not apply to permanently closed systems, such as fluid-filled temperature-responsive devices.  (b) Materials and design. All materials employed for pipe and components must be designed to meet the particular conditions of service and the following:  (1) Each takeoff connection and attaching boss, fitting, or adapter must be made of suitable material, be able to withstand the maximum service pressure and temperature of the pipe or equipment to which it is attached, and be designed to satisfactorily withstand all stresses without failure by fatigue.  (2) Except for takeoff lines that can be isolated from sources of pressure by other valving, a shutoff valve must be installed in each takeoff line as near as practicable to the point of takeoff. Blowdown valves must be installed where necessary.  (3) Brass or copper material may not be used for metal temperatures greater than 400(F (204ºC).	
	greater than 400(F (204°C).  (4) Pipe or components that may contain liquids must be protected by	
	heating or other means from damage due to freezing.  (5) Pipe or components in which liquids may accumulate must have drains or drips.	
	(6) Pipe or components subject to clogging from solids or deposits must have suitable connections for cleaning.	
	(7) The arrangement of pipe, components, and supports must provide safety under anticipated operating stresses.	
	(8) Each joint between sections of pipe, and between pipe and valves or fittings, must be made in a manner suitable for the anticipated pressure and temperature condition. Slip type expansion joints may not be used. Expansion must be allowed for by providing flexibility within the system itself.	
	(9) Each control line must be protected from anticipated causes of damage and must be designed and installed to prevent damage to any one control line from making both the regulator and the over-pressure protective device inoperative.	
§192.65	Transportation of Pipe – operating 20% SMYS or greater Are transportation limitations on pipe identified in the procedures?	

XLV. PART 192 -	- CUSTOMER METERS, SERVICE REGULATORS SERVICE LINES	S	N/I	U	N/A
§192.353	Customer meters and regulators: Location.  (a) Each meter and service regulator, whether inside or outside a building, must be installed in a readily accessible location and be protected from corrosion and other damage, including, if installed outside a building, vehicular damage that may be anticipated. However, the upstream regulator in a series may be buried.  (b) Each service regulator installed within a building must be located				
	as near as practical to the point of service line entrance.  (c) Each meter installed within a building must be located in a ventilated place and not less than 3 feet (914 millimeters) from any source of ignition or any source of heat which might damage the meter.  (d) Where feasible, the upstream regulator in a series must be located outside the building, unless it is located in a separate metering or				
§192.355	regulating building.  Customer meters and regulators: Protection from damage.  (a) Protection from vacuum or back pressure. If the customer's equipment might create either a vacuum or a back pressure, a device must be installed to protect the system. (necessary when a supplement gas used for stand-by)				
	<ul> <li>(b) Service regulator vents and relief vents. Service regulator vents and relief vents must terminate outdoors, and the outdoor terminal must: <ul> <li>(1) Be rain and insect resistant;</li> <li>(2) Be located at a place where gas from the vent can escape freely into the atmosphere and away from any opening into the building; and,</li> <li>(3) Be protected from damage caused by submergence in areas where flooding may occur.</li> </ul> </li> </ul>				
	(c) Pits and vaults. Each pit or vault that houses a customer meter or regulator at a place where vehicular traffic is anticipated, must be able to support that traffic.				
§192.357	Customer meters and regulators: Installation.  (a) Each meter and each regulator must be installed so as to minimize anticipated stresses upon the connecting piping and the meter.  (b) When close all-thread nipples are used, the wall thickness remaining after the threads are cut must meet the minimum wall thickness requirements of this part.				
	<ul><li>(c) Connections made of lead or other easily damaged material may not be used in the installation of meters or regulators.</li><li>(d) Each regulator that might release gas in its operation must be vented to the outside atmosphere.</li></ul>				

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§192.359	Customer meter installations: Operating pressure.  (a) A meter may not be used at a pressure that is more than 67 percent of the manufacturer's shell test pressure.  (b) Each newly installed meter manufactured after November 12, 1970, must have been tested to a minimum of 10 p.s.i. (69 kPa) gage.  (c) A rebuilt or repaired tinned steel case meter may not be used at a pressure that is more than 50 percent of the pressure used to test the meter after rebuilding or repairing.			
§192.361	Service lines: Installation.  (a) Depth. Each buried service line must be installed with at least 12 inches(305 millimeters) of cover in private property and at least 18 inches (457 millimeters) of cover in streets and roads. However, where an underground structure prevents installation at those depths, the service line must be able to withstand any anticipated external load.			
	(b) Support and backfill. Each service line must be properly supported on undisturbed or well-compacted soil, and material used for backfill must be free of materials that could damage the pipe or its coating.			
	(c) Grading for drainage. Where condensate in the gas might cause interruption in the gas supply to the customer, the service line must be graded so as to drain into the main or into drips at the low points in the service line.			
	(d) Protection against piping strain and external loading. Each service line must be installed so as to minimize anticipated piping strain and external loading.			
	<ul> <li>(e) Installation of service lines into buildings. Each underground service line installed below grade through the outer foundation wall of a building must: <ul> <li>(1) In the case of a metal service line, be protected against corrosion;</li> <li>(2) In the case of a plastic service line, be protected from shearing action and backfill settlement; and</li> <li>(3) Be sealed at the foundation wall to prevent leakage into the building.</li> </ul> </li> </ul>			

	<ul> <li>(f) Installation of service lines under buildings. Where an underground service line is installed under a building:         <ul> <li>(1) It must be encased in a gas-tight conduit;</li> </ul> </li> </ul>		
	(2) The conduit and the service line must, if the service line supplies the building it underlies, extend into a normally usable and accessible part of the building; and,		
	(3) The space between the conduit and the service line must be sealed to prevent gas leakage into the building and, if the conduit is sealed at both ends, a vent line from the annular space must extend to a point where gas would not be a hazard, and extend above grade, terminating in a rain and insect resistant fitting.		
	(g) Locating underground service lines. Each underground nonmetallic service line that is not encased must have a means of locating the pipe that complies with §192.321(e).		
§192.363	Service lines: Valve Requirements.  (a) Each service line must have a service-line valve that meets the		
	applicable requirements of Subparts B and D of this part. A valve		
	incorporated in a meter bar, that allows the meter to be bypassed, may not be used as a service-line valve.		
	(b) A soft seat service line valve may not be used if its ability to control		
	the flow of gas could be adversely affected by exposure to anticipated heat.		
	(c) Each service-line valve on a high-pressure service line, installed		
	aboveground or in an area where the blowing of gas would be hazardous, must be designed and constructed to minimize the		
	possibility of the removal of the core of the valve with other than specialized tools.		
§192.365	Service lines: Location of valves.  (a) Relation to regulator or meter. Each service-line valve must be installed upstream of the regulator or, if there is no regulator, upstream of the meter.		
	(b) Outside valves. Each service line must have a shutoff valve in a readily accessible location that, if feasible, is outside of the building.		
	(c) Underground valves. Each underground service-line valve must be located in a covered durable curb box or standpipe that allows ready operation of the valve and is supported independently of the service lines.		
§192.367	Service lines: General requirements for connections to main piping  (a) Location. Each service line connection to a main must be located		
	at the top of the main or, if that is not practical, at the side of the		
	main, unless a suitable protective device is installed to minimize the		
	possibility of dust and moisture being carried from the main into the service line.		

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	<ul> <li>(b) Compression-type connection to main. Each compression-type service line to main connection must: <ul> <li>(1) Be designed and installed to effectively sustain the longitudinal pull-out or thrust forces caused by contraction or expansion of the piping, or by anticipated external or internal loading;</li> <li>(2) If gaskets are used in connecting the service line to the main connection fitting, have gaskets that are compatible with the kind of gas in the system; and</li> <li>(3) If used on pipelines comprised of plastic, be a Category 1 connection as defined by a <i>listed specification</i> for the applicable material, providing a seal plus resistance to a force</li> </ul> </li> </ul>			
	on the pipe joint equal to or greater than that which will cause no less than 25% elongation of pipe, or the pipe fails outside the joint area if tested in accordance with the applicable standard.			
§192.371	Service lines: Steel.  Each steel service line to be operated at less than 100 p.s.i. (689 kPa) gage must be constructed of pipe designed for a minimum of 100 p.s.i. (689 kPa) gage.			
§192.375	Service lines: Plastic.  (a) Each plastic service line outside a building must be installed below ground level, except that -  (1) It may be installed in accordance with §192.321(g); and  (2) It may terminate above ground level and outside the building, if-  (i) The above ground level part of the plastic service line is protected against deterioration and external damage; and  (ii) The plastic service line is not used to support external			
	loads; and  (iii) The riser portion of the service line meets the design requirements of § 192.204  (b) Each plastic service line inside a building must be protected against external damage.			
§192.376	Installation of plastic service lines by trenchless excavation.  Plastic service lines installed by trenchless excavation must comply with the following:  (a) Each operator shall take practicable steps to provide sufficient clearance for installation and maintenance activities from other underground utilities and structures at the time of installation.  (b) For each pipeline section, plastic pipe and components that are pulled through the ground must use a weak link, as defined by § 192.3, to ensure the pipeline will not be damaged by any excessive forces during the pulling process.			

§192.379	New service lines not in use.		
	Each service line that is not placed in service upon completion of		
	installation must comply with one of the following until the customer		
	is supplied with gas:		
	(a) The valve that is closed to prevent the flow of gas to the customer		
	must be provided with a locking device or other means designed to		
	prevent the opening of the valve by persons other than those		
	authorized by the operator.		
	(b) A mechanical device or fitting that will prevent the flow of gas		
	must be installed in the service line or in the meter assembly.		
	(c) The customer's piping must be physically disconnected from the		
	gas supply and the open pipe ends sealed.		