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Key Stats

State Agency	Missouri Public Service Commission
Division	Utility Operations
Department	Energy – Gas Safety/Engineering
Web	http://psc.mo.gov/General/Pipeline_Safety
Regulated Intrastate Pipeline Systems	62 (9 Private/41 Municipals/12 Intrastate Transmission)
Regulated Master Meter Operators	15
Regulated LNG Systems	0
Regulated Hazardous Liquid Systems	0
Regulated LPG Operators	0
Quantity of State Pipeline Safety Initiatives that exceed CFR 190-199	55

Applicable Requirement in CFR

Category	Federal Regulation Part/SubPart	Additional or More Stringent State Requirement	State Source Type {Law/Rule/Order}	State Source Detail
1. Enhanced Reporting	Part 191.5	Require notification of incidents within 2 hrs.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR240-40.020(4) Incident, Annual and Safety-Related Condition Reporting Requirements
2. Enhanced Reporting	Part 191.5	Require notification if damages \$10,000.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR240-40.020(4) Incident, Annual and Safety-Related Condition Reporting Requirements
3. Enhanced Reporting	Part 191.9 Part 191.11 Part 191.15 Part 191.17	Incident and Annual Reports (transmission and distribution) must be submitted to MOPSC.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR240-40.020(6), (7), (9), and (10) Incident, Annual and Safety-Related Condition Reporting Requirements





4. Enhanced Reporting	Part 191.11	State Report...number of odor calls, active leaks (by class), repaired leaks (by class, by material, and by cause), and classification of 3 rd party damages	Agreement	
5. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Welding Procedures and Joining Procedures	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards—Transportation of Gas by Pipeline – General
6. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Construction Standards	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards—Transportation of Gas by Pipeline – General
7. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Corrosion Control Procedures	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards—Transportation of Gas by Pipeline – General
8. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Damage Prevention Program	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards—Transportation of Gas by Pipeline – General
9. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Emergency Procedures	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter	4 CSR 240-40.030(1)(J) Safety Standards—Transportation of Gas by Pipeline – General





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10. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Public Awareness or Public Education Program	40 Gas Utilities and Gas Safety Standards Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards— Transportation of Gas by Pipeline – General
11. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Operator Qualification Program	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards— Transportation of Gas by Pipeline – General
12. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including any Replacement Program	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards— Transportation of Gas by Pipeline – General
13. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Transmission Integrity Management Program	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards— Transportation of Gas by Pipeline – General
14. Enhanced Reporting	Part 192.15	Require filing of all required programs with Commission including Operation and Maintenance Procedures	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(J) Safety Standards— Transportation of Gas by Pipeline – General
15. More Direct Oversight	Part 192.3	Additional/expanded definitions for “low pressure distribution system”, “hoop stress”,	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic	4 CSR 240-40.030(1)(B) Safety Standards— Transportation of





		“fuel lines”, “feeder lines”, “CGI reading”, “sustained reading”, “follow up inspection” “high pressure distribution system” “Reading”, “Transportation of Gas”, “Tunnel”, “Vault”, “Yard Line”	Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	Gas by Pipeline – General
16. Valves	Part 192.181	Distribution valves spaced to provide isolation zones sized so operator can relight in 8 hours	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(4)(V) Safety Standards— Transportation of Gas by Pipeline - Design of Pipeline Components
17. Valves	Part 192.199	Additional requirements for unauthorized operation of valves	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(4)(EE)8. Safety Standards— Transportation of Gas by Pipeline - Design of Pipeline Components
18. Valves	Part 192.747	Feeder line and distribution valves must be checked for accessibility annually and partially operated every other year.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(13)(V) Safety Standards— Transportation of Gas by Pipeline - Maintenance
19. Pressure Testing	Part 192.553	Pressure to which pipeline is raised during uprating is the “test pressure” that must be divided by the appropriate factors in 192.619(a)(2)	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(11)(B)5. Safety Standards— Transportation of Gas by Pipeline - Uprating
20. Operating Pressure	Part 192.197	If distribution pressure > 14” WC, service regulator must have relief or OPP device capable of limiting	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division	40.030(4)(DD)1. Safety Standards— Transportation of Gas by Pipeline - Design of Pipeline





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		pressure to “max. safe value” to customer.	240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	Components
21. Operating Pressure	Part 192.197	If service regulator and monitor regulator used, must install device to indicate failure of service regulator and must be monitored	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(4)(DD)2. Safety Standards—Transportation of Gas by Pipeline - Design of Pipeline Components
22. Damage Prevention	Part 192.614	Notification of public along a pipeline and excavators must be at least semi-annual	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(I) Safety Standards—Transportation of Gas by Pipeline – General
23. Operator Qualifications	Part 192.803(b)	“Evaluation” consists of training and examination	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(12)(D)2. Safety Standards—Transportation of Gas by Pipeline - Operations
24. Operator Qualifications s	Part 192.805	Additional knowledge and skills required.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(12)(D)4. Safety Standards—Transportation of Gas by Pipeline - Operations
25. Operator Qualifications	Part 192.805	Additional requirements for trainers/evaluators	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(12)(D)5., 6. and 7. Safety Standards—Transportation of Gas by Pipeline - Operations
26. Meter Location/	Part 192.351	Service lines installed to building and owned,	Missouri Code of State Regulations, Title 4	40.030(8)(B) Safety Standards—





Protection		operated, and maintained by the operator.	Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	Transportation of Gas by Pipeline - Customer Meters, Service Regulators and Service Lines.
27. Odorant	Part 192.625	Natural gas in <u>all</u> intrastate transmission, distribution, and feeder lines must be odorized.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(12)(P) Safety Standards—Transportation of Gas by Pipeline - Operations
28. Odorant	Part 192.625	<u>Monthly</u> odor intensity test required.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(12)(P) Safety Standards—Transportation of Gas by Pipeline - Operations
29. Odorant	Part 192.625	<u>Yearly</u> checks at individually odorized service lines.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(12)(P) Safety Standards—Transportation of Gas by Pipeline - Operations
30. Leak Tests	Part 192.3	Definition of feeder line (distribution) created (>100 psig) requiring additional leak surveys.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030(1)(B) Safety Standards—Transportation of Gas by Pipeline - General
31. Leak Tests	Part 192.723	Annual leak survey for unprotected steel pipelines, 3-year leak survey for all other pipelines including service lines, and 3-year leak survey for buried fuel lines	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and	40.030(13)(M)2.B Safety Standards—Transportation of Gas by Pipeline - Maintenance





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32. Leak Tests	Part 192.725	If service line disconnected for the main/transmission line due to 3 rd party damage, line must be leak tested from disconnection to main/transmission line.	Gas Safety Standards Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(13)(M)2.B Safety Standards— Transportation of Gas by Pipeline - Maintenance
33. Leak Tests	Part 192.725	Leak Tests must ensure discovery of leaks	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(14)(B)2 & 3 Safety Standards— Transportation of Gas by Pipeline – Maintenance
34. Response to Leaks	Part 192.723	Extensive regulations for investigation [(14)(B)], classification (Classes 1-4) [(14)(C)], monitoring [(14)(C)] and scheduling repairs [(14)(C)], and follow-up leak survey after repairs (Class 1 and 2 Leaks) [(14)(C)] of classified leaks.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4CSR 240-40.030(14) Safety Standards— Transportation of Gas by Pipeline – Gas Leaks
35. Response to Leaks	Part 192.723	Restrictions on downgrading leak classifications, requirement for follow-up investigation for Class 1 and Class 2 repairs. Requires recheck repair of Class 2 leaks in 15 days.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4CSR 240-40.030(14) © for downgrading 4CSR 240-40.030(14) (B)(5) for follow ups 4CSR 240-40.030(14) ©(2) for CL 2 rechecks Safety Standards— Transportation of Gas by Pipeline – Gas Leaks
36. Replacement Programs	Part 192.755	When CI is disturbed or a nearby excavation places CI in angle of repose, the CI must be replaced.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter	40.030(13)(Z) Safety Standards— Transportation of Gas by Pipeline – Maintenance





			40 Gas Utilities and Gas Safety Standards	
37. Replacement Programs	Part 192.487 Part 192.489	Extensive requirements for replacement of unprotected steel service lines and yard lines...annual leak surveys and 10% replacement	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4CSR 240-40.030(15) Safety Standards—Transportation of Gas by Pipeline – Replacement Programs
38. Replacement Programs	Part 192.487 Part 192.489	Extensive requirements for replacement of cast iron mains and service lines	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4CSR 240-40.030(15) Safety Standards—Transportation of Gas by Pipeline – Replacement Programs
39. Replacement Programs	Part 192.487 Part 192.489	Develop prioritized replacement program (approved by Commission) based on factors in regulation-replacement/CP of unprotected steel transmission lines, feeder lines and mains.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4CSR 240-40.030(15) Safety Standards—Transportation of Gas by Pipeline – Replacement Programs
40. Replacement Program	Advisory Bulletins 99-02 (FR 12212) 02-07 (FR 70806) 08-02 (FR 51303)	Required replacement of Aldyl A plastic for vintages upto and including 1985 for an operator based on incident investigation and leakage rates	Missouri Public Service Commission Order 5/28/2010 referencing Docket No. GS-2005-0257	Joint Recommendation of Replacement by Staff and Operator dated 5/18/2010
41. Replacement Program	Part 192.489 Part 192.487	Operators have replaced or eliminated all Cast Iron and Unprotected Steel from pipeline systems	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4CSR 240-40.030(15) Safety Standards—Transportation of Gas by Pipeline – Operations
42. Extended LDC Responsibility	Part 192.616	Public notified semi-annually. Customers notified by mail semi-annually. Message on customer bill 9 times/year	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service	40.030(12)(K) Safety Standards—Transportation of Gas by Pipeline - Operations





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			Commission, Chapter 40 Gas Utilities and Gas Safety Standards	
43. Extending LDC Responsibility	Part 192.517	When gas turned on...Test required for new cust.-owned fuel line -tested for leakage at delivery pressure-visual inspection of cust. piping and equipment	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(12)(S) Safety Standards—Transportation of Gas by Pipeline - Operations
44. Extending LDC Responsibility	Part 192.16	Also requires customer notification when moving from one operating area to another (same company)	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(1)(L) Safety Standards—Transportation of Gas by Pipeline - General
45. Cathodic Protection	Part 192.465	Short sections monitored 20% per year (instead of 10%).	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(9)(I)1. Safety Standards—Transportation of Gas by Pipeline - Requirements for Corrosion Control
46. Cathodic Protection	Part 192.465	Corrective measures completed in 6 months.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(9)(I)4. Safety Standards—Transportation of Gas by Pipeline - Requirements for Corrosion Control
47. Cathodic Protection	Part 192-Appendix D	Specific requirements to adequately compensate (not just “consider”) for voltage (IR) drops. Must... -take reading when current interrupted on impressed system -disconnect anodes to take reading or take reading at location out of the direct influence	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	4 CSR 240-40.030 Appendix D Safety Standards—Transportation of Gas by Pipeline - Criteria for Cathodic Protection and Determination of Measurements





48. Design/Install Requirements	Part 192.53	of the anodes. Only steel and PE piping can be used for construction.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(1)(J) Safety Standards—Transportation of Gas by Pipeline - General
49. Design/Install Requirements	Part 192.181	Inlet <u>and outlet valve</u> required at regulator station	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(4)(V) Safety Standards—Transportation of Gas by Pipeline - Design of Pipeline Components
50. Design/Install Requirements	Part 192.199	Adequate Over Pressure Protection <u>at</u> each town border station and district regulator station regardless of installation date	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(4)(EE)9. Safety Standards—Transportation of Gas by Pipeline - Design of Pipeline Components
51. Design/Install Requirements	Part 192.199	If regulator and monitor regulator used, must install device to indicate failure of operating regulator and must be monitored	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(4)(EE)10. Safety Standards—Transportation of Gas by Pipeline - Design of Pipeline Components
52. Enhanced Record Keeping	Part 192.709	For feeder lines, mains, and service lines, each operator shall maintain detailed records pertaining to each original leak report, leak investigation, leak classification , leak surveys, line patrols for not less than six (6) years ; and must be able to have sufficient detail to correspond to annual DOT reports.	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(13)(F)2. Safety Standards—Transportation of Gas by Pipeline - Maintenance





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(Not just transmission lines)				
53. Enhanced Record Keeping	Part 192.491	Corrosion Control records – operator must develop and maintain maps showing specific CP facilities	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(9)(I). Safety Standards— Transportation of Gas by Pipeline - Criteria for Cathodic Protection and Determination of Measurement
54. Enhanced Record Keeping	Part 192.517	Retain Strength Test records for service lines similar to main requirements	Missouri Code of State Regulations, Title 4 Rules of Dept of Economic Development, Division 240 Public Service Commission, Chapter 40 Gas Utilities and Gas Safety Standards	40.030(10)(I). Safety Standards— Transportation of Gas by Pipeline - Test Requirements
55. State Inspection Program	Part 190.203	More Frequent Inspections/Contacts and Detailed Audits	None	Inspection Forms and Frequency Operator Inspections

National Association of Pipeline Safety Representatives

