

Chapter PSC 135

GAS SAFETY

PSC 135.01	Character of construction, maintenance and operation	PSC 135.06	Leak survey reports
PSC 135.02	Facilities, inspection and repairs	PSC 135.07	Over-pressure protection
PSC 135.03	Application of rules	PSC 135.08	Report of proposed construction
PSC 135.04	Protection of utility facilities		tion
PSC 135.05	Interference with public service structures	PSC 135.09	Adoption of federal minimum safety standards

History: Chapter PSC 135 as it was in effect on May 31, 1972 was repealed and a new chapter PSC 135 was created, Register, May, 1972, No. 197, effective 6-1-72.

PSC 135.01 Character of construction, maintenance, and operation. All gas transmission, distribution, and utilization equipment and facilities shall be constructed, installed, operated, and maintained in a reasonably adequate and safe manner and as a minimum more specifically provided for herein.

History: Cr. Register, May, 1972, No. 197, eff. 6-1-72.

PSC 135.02 Facilities, inspection and repairs. All facilities shall be cleaned when necessary and inspected at such intervals as experience has shown to be necessary. Any facilities known to be defective so as to endanger life or property shall be promptly repaired, permanently disconnected, or isolated until repairs can be made. Construction, repairs, additions, and changes to gas transmission and distribution facilities shall be made by qualified persons only.

History: Cr. Register, May, 1972, No. 197, eff. 6-1-72.

PSC 135.03 Application of rules. Every gas utility that operates gas transmission or distribution facilities in the state shall comply with the rules in this chapter.

(1) **WAIVING RULES.** The rules may be modified or waived by the public service commission. They may be so modified or waived in particular cases wherever shown to be impracticable for special reasons or where the advantage of uniformity with existing construction is greater than the advantage of construction in compliance with the rules providing the existing construction is reasonably safe or if equivalent or safer construction is secured in other ways.

(2) **TEMPORARY INSTALLATIONS.** It will sometimes be necessary to modify or waive certain of the rules in case of temporary installations or installations which are shortly to be dismantled or reconstructed. Such temporary construction may be used for a reasonable length of time provided it is under competent supervision while it or adjoining equipment is under pressure or if it is protected by suitable barriers or warning signs when accessible to any person, without fully complying with this code; but all such construction shall be made reasonably safe.

(3) **EMERGENCY.** In case of emergency or pending decision of the public service commission, the person responsible for the installation may

decide as to modification or waiver of any rule or order, subject to review by the public service commission.

History: Cr. Register, May, 1972, No. 197, eff. 6-1-72.

PSC 135.04 Protection of utility facilities. A public utility upon receiving notice as provided in section 66.047, Wis. Stats., or section 182.0175 (2) (e), Wis. Stats., of work which may affect its facilities used for serving the public shall:

(1) If the notice is of work covered by section 66.047, Wis. Stats., investigate and decide what action, if any, must reasonably be taken to protect or alter utility facilities in order to protect service to the public and to avoid unnecessary damage. The utility shall take such action as is reasonably necessary to protect, remove, alter, or reconstruct its facilities, and shall perform such work with reasonable dispatch taking into account the conditions to be met. Nothing in this rule shall be deemed to affect any right which the utility may have to require advance payment or adequate assurance of payment of the reasonable cost thereof to the utility by the property owner or contractor.

(2) If the notice is of work covered by section 182.0175 (2) (e), Wis. Stats., and is not covered by section 66.047, Wis. Stats., the utility shall respond as required by section 182.0175 (2) (e).

(3) The utility may, in order to protect its interests, require that the owner or contractor perform certain work upon that part of the service piping or wiring on or being removed from the property upon which the excavating, building, or wrecking operations are being performed.

(4) This rule is not intended to affect the responsibility of the contractor or owner, or the liability or legal rights of any party.

History: Cr. Register, May, 1972, No. 197, eff. 6-1-72; r. and recr. Register, May, 1978, No. 269, eff. 6-1-78.

PSC 135.05 Interference with public service structures. (1) A utility having any work upon, over, along, or under any public street, highway or private property near existing utility facilities shall give reasonable notice to the other utility and shall exercise care when working in close proximity to such existing facilities. Sections 66.047, Wis. Stats., and 182.0175, Wis. Stats., shall be observed where applicable. In all other cases such notice shall provide the other utility with a reasonable opportunity to protect or alter its facilities and such work shall not proceed without an agreement concerning the location and nature of the proposed work.

(2) Nothing in the above shall prevent a utility from proceeding as quickly as possible with any emergency construction work which might interfere with existing facilities. (Also see section 182.0175 (2) (d), Wis. Stats.)

History: Cr. Register, May, 1972, No. 197, eff. 6-1-72; r. and recr. Register, May, 1978, No. 269, eff. 6-1-78.

PSC 135.06 Leak survey reports. The department of transportation in accordance with part 191 of title 49 of the Code of Federal Regulations "Transportation of Natural and Other Gas by Pipeline: Reports of Leaks" requires each operator of a distribution system and/or of a transmission system to submit an annual report for the preceding calendar year not later than February 15. The operators of such systems in Register, May, 1978, No. 269

Wisconsin shall submit a copy of these reports to this commission on or before the filing date as required by the federal regulations. In addition to this annual report and at the same time, the operators shall report the number of leaks which were found in customer owned facilities by either a survey or complaint during the preceding calendar year.

History: Cr. Register, May, 1972, No. 197, eff. 6-1-72.

PSC 135.07 Over-pressure protection. Over-pressure protection is required by subsection 192.197 of this chapter and shall apply to all installations. All present installations where such protection is not provided shall be changed so that 100% compliance will be attained by the end of the first testing cycle after January 1, 1968 as provided in section PSC 134.30.

History: Cr. Register, May, 1972, No. 197, eff. 6-1-72.

PSC 135.08 Report of proposed construction. **History:** Cr. Register, May, 1972, No. 197, eff. 6-1-72; r. Register, May, 1978, No. 269, eff. 6-1-78.

PSC 135.09 Adoption of federal minimum safety standards. (1) The federal department of transportation, office of pipeline safety, pursuant to the Natural Gas Pipeline Safety Act of 1968 (49 U.S.C. 1675, et seq.) has established minimum safety standards for pipeline facilities and the transportation of gas, as set forth in part 192 in title 49, Code of Federal Regulations. In accordance with the Natural Gas Pipeline Safety Act of 1968 and requirements of the federal department of transportation, such minimum safety standards are hereby adopted as state safety standards. (The numbering system and sequence used in said minimum safety standards are herein used for convenience and clarity.) Additions have been made to the minimum safety standards of the federal department of transportation as adopted herein and follow the section of the adopted federal standards to which the additions directly relate or if the additions do not directly relate to any particular adopted federal standard the additions are inserted in the numbering sequence within the appropriate subpart. In all cases the additions appear in italics preceded by *PSC 192* plus the appropriate section number. Copies of the publications referred to are available for inspection at the office of the public service commission, the secretary of state and the revisor of statutes or may be procured for personal use from the addresses listed in Appendix A—Incorporated by Reference, I. Lists of organizations and addresses, which follows section *PSC 192.753*.

(2) The inspection and maintenance plans required to be filed by intrastate gas utilities in accordance with section PSC 135.09—192.17 shall be filed with this commission not later than February 1, 1971. Each change in such plans shall be filed with this commission within 20 days after the change is made.

WISCONSIN CODE ADOPTION
OF
PART 192 IN TITLE 49
CODE OF FEDERAL REGULATIONS WITH ADDITIONS

Sec.		Sec	
Subpart	A—General	192.11	Petroleum gas systems.
192.1	Scope of part.	192.12	Liquefied natural gas facilities.
192.3	Definitions.	192.13	General.
192.5	Class locations.	192.14	Conversion to service subject to this part.
192.7	Incorporation by reference.	192.15	Rules of regulatory construction.
192.9	Gathering lines.		

Sec.		Sec.	
192.17	Filing of inspections and maintenance plans.	192.193	Valve installation in plastic pipe.
Subpart B—Materials		*192.195	Protection against accidental over-pressuring.
192.51	Scope.	*192.197	Control of the pressure of gas delivered from high-pressure distribution systems.
*192.53	General.	*192.199	Requirements for design of pressure relief and limiting devices.
*192.55	Steel pipe.	192.201	Required capacity of pressure relieving and limiting stations.
*192.57	Cast iron or ductile iron pipe.	192.203	Instrument, control, and sampling pipe and components.
*192.59	Plastic pipe.	*192.204	<i>Pipelines on private right-of-way of electric transmission lines.</i>
192.61	Copper pipe.	Subpart E—Welding of Steel in Pipelines	
192.63	Marking of materials.	192.221	Scope.
192.65	Transportation of pipe.	*192.223	General.
Subpart C—Pipe Design		192.225	Qualifications of welding procedures.
192.101	Scope.	192.227	Qualification of welders.
192.103	General.	192.229	Limitations on welders.
192.105	Design formula for steel pipe.	192.231	Protection from weather.
192.107	Yield strength (<i>S</i>) for steel pipe.	192.233	Miter joints.
192.109	Nominal wall thickness (<i>t</i>) for steel pipe.	192.235	Preparation for welding.
192.111	Design factor (<i>F</i>) for steel pipe.	192.237	Preheating.
192.113	Longitudinal joint factor (<i>E</i>) for steel pipe.	192.239	Stress relieving.
192.115	Temperature derating factor (<i>T</i>) for steel pipe.	192.241	Inspection and test of welds.
192.117	Design of cast iron pipe.	*192.243	Nondestructive testing.
192.119	Design of ductile iron pipe.	192.245	Repair or removal of defects.
192.121	Design of plastic pipe.	*192.246	<i>Precautions to avoid explosions of gas-air mixtures or uncontrolled fires during construction operations.</i>
192.123	Design limitations for plastic pipe.	Subpart F—Joining of Materials Other Than by Welding	
*192.125	Design of copper pipe.	192.271	Scope.
Subpart D—Design of Pipeline Components		192.273	General.
192.141	Scope.	192.275	Cast iron pipe.
192.143	General requirements.	192.277	Ductile iron pipe.
192.145	Valves.	*192.279	Copper pipe.
192.147	Flanges and flange accessories.	*192.281	Plastic pipe.
192.149	Standard fittings.	Subpart G—General Construction Requirements for Transmission Lines and Mains	
192.151	Tapping.	192.301	Scope.
192.153	Components fabricated by welding.	192.303	Compliance with specifications or standards.
192.155	Welded branch connections.	192.305	Inspection: general.
192.157	Extruded outlets.	*192.307	Inspection of materials.
192.159	Flexibility	*192.309	Repair of steel pipe.
192.161	Supports and anchors.	192.311	Repair of plastic pipe.
*192.163	Compressor stations: design and construction	*192.313	Bends and elbows.
192.165	Compressor stations: liquid removal	192.315	Wrinkle bends in steel pipe.
192.167	Compressor stations: emergency shutdown.	192.317	Protection from hazards.
192.169	Compressor stations: pressure limiting devices.	*192.319	Installation of pipe in a ditch.
*192.171	Compressor stations: additional safety equipment.	*192.321	Installation of plastic pipe.
*192.173	Compressor stations: ventilation.	*192.323	Casing.
192.175	Pipe-type and bottle-type holders.	*192.325	Underground clearance.
192.177	Additional provisions for bottle-type holders.	192.327	Cover.
192.179	Transmission line valves.	Subpart H—Customer Meters, Service Regulators, and Service Lines	
*192.181	Distribution line valves.	192.351	Scope.
*192.183	Vaults: structural design requirements.	*192.353	Customer meters and regulators: location.
192.185	Vaults: accessibility.	*192.355	Customer meters and regulators: protection from damage.
*192.187	Vaults: sealing, venting, and ventilation.	192.357	Customer meters and regulators: installation.
*192.189	Vaults: drainage and waterproofing.		
192.191	Design pressure of plastic fittings.		

Sec.		Sec.	
192.359	Customer meter installations: operating pressure.	192.507	Test requirements for pipeline to operate at a hoop stress less than 30% of SMYS and above 100 p.s.i.g.
192.361	Service lines: installation.	*192.509	Test requirements for pipelines to operate at or below 100 p.s.i.g.
192.363	Service lines: valve requirements.	*192.511	Test requirements for service lines.
*192.365	Service lines: location of valves.	192.513	Test requirements for plastic pipelines.
192.367	Service lines: general requirements for connections to main piping.	192.515	Environmental protection and safety requirements.
192.369	Service lines: connections to cast iron or ductile iron mains.	192.517	Records.
*192.371	Service lines: steel.	Subpart K—Upgrading	
*192.373	Service lines: cast iron and ductile iron.	192.551	Scope.
*192.375	Service lines: plastic.	192.553	General requirements.
*192.377	Service lines: copper.	192.555	Upgrading to a pressure that will produce a hoop stress of 30% or more of SMYS in steel pipelines.
192.379	New service lines not in use.	192.557	Upgrading: steel pipelines to a pressure that will produce a hoop stress less than 30% of SMYS; plastic, cast iron, and ductile iron pipelines.
Subpart I—Requirements for Corrosion Control		Subpart L—Operations	
192.451	Scope.	192.601	Scope.
192.452	Applicability to converted pipelines.	192.603	General provision.
192.453	General.	192.605	Essentials of operating and maintenance plan.
192.455	External corrosion control: buried or submerged pipelines installed after July 31, 1971.	192.607	Initial determination of class location and confirmation or establishment of maximum allowable operating pressure.
*192.457	External corrosion control: buried or submerged pipelines installed before August 1, 1971.	192.609	Change in class location: required study.
192.459	External corrosion control: examination of buried pipeline when exposed.	192.611	Change in class location: confirmation or revision of maximum allowable operating pressure.
192.461	External corrosion control: protective coating.	*192.613	Continuing surveillance.
192.463	External corrosion control: cathodic protection.	192.615	Emergency plans.
192.465	External corrosion control: monitoring.	192.617	Investigation of failures.
192.467	External corrosion control: electrical isolation.	*192.619	Maximum allowable operating pressure: steel or plastic pipelines.
192.469	External corrosion control: test stations.	*192.621	Maximum allowable operating pressure: high-pressure distribution systems.
192.471	External corrosion control: test leads.	*192.623	Maximum and minimum allowable operating pressure: low-pressure distribution systems.
192.473	External corrosion control: interference currents.	192.625	Odorization of gas.
192.475	Internal corrosion control: general.	192.627	Tapping pipelines under pressure.
192.477	Internal corrosion control: monitoring.	*192.629	Purging of pipelines.
192.479	Atmospheric corrosion control: general.	Subpart M—Maintenance Procedures	
192.481	Atmospheric corrosion control: monitoring.	192.701	Scope.
192.483	Remedial measures: general.	192.703	General.
192.485	Remedial measures: transmission lines.	192.705	Transmission lines: patrolling.
192.487	Remedial measures: distribution lines other than cast iron or ductile iron lines.	192.706	Transmission lines, leakage surveys.
192.489	Remedial measures: cast iron and ductile iron pipelines.	*192.707	Transmission lines: markers.
192.491	Corrosion control records.	192.709	Transmission lines: record-keeping.
Subpart J—Test Requirements		192.711	Transmission lines: general requirements for repair procedures.
192.501	Scope.		
192.503	General requirements.		
*192.505	Strength test requirements for steel pipeline to operate at a hoop stress of 30% or more of SMYS.		

Sec.		Sec.	
*192.713	Transmission lines: permanent field repair of imperfections and damage.	192.739	Pressure limiting and regulating stations: inspection and testing.
192.715	Transmission lines: permanent repair of welds.	*192.741	Pressure limiting and regulating stations: telemetering or recording gages.
192.717	Transmission lines: permanent field repair of leaks.	192.743	Pressure limiting and regulating stations: testing of relief devices.
192.719	Transmission lines: testing of repairs.	*192.744	<i>Service regulators and associated safety devices: inspection and testing.</i>
*192.720	<i>Repair of steel pipe operating below 40% of the specified minimum yield strength.</i>	192.745	Valve maintenance: transmission lines.
192.721	Distribution systems: patrolling.	*192.747	Valve maintenance: distribution systems.
*192.722	<i>Distribution mains: markers.</i>	192.749	Valve maintenance.
*192.723	Distribution systems: leakage surveys and procedures.	*192.751	Prevention of accidental ignition.
*192.724	<i>Further leakage survey after repair of leak.</i>	*192.753	Cauked bell and spigot joints.
192.725	Test requirement for reinstating service lines.	192.755	Protecting cast-iron pipelines.
*192.727	Abandonment or inactivation of facilities.	Appendix A	Materials incorporated by reference.
192.729	Compressor stations: procedure for gas compression units.	Appendix B	Qualification of pipe.
192.731	Compressor stations: inspection and testing of relief services.	Appendix C	Qualification of welders for low stress level pipe.
192.733	Compressor stations: isolation of equipment for maintenance or alterations.	Appendix D	Criteria for cathodic protection and determination of measurements.
*192.735	Compressor stations: storage of combustible materials.		
192.737	Pipe-type and bottle-type holders: plan for inspection and testing.		

*Sections of the Code of Federal Regulations to which additions have been made.

* (Italics) New sections that have been added.

Subpart A—General

192.1 Scope of part.

(a) This part prescribes minimum safety requirements for pipeline facilities and the transportation of gas, including pipeline facilities and the transportation of gas within the limits of the outer continental shelf as that term is defined in the Outer Continental Shelf Lands Act (43 U.S.C. 1331).

(b) This part does not apply to:

(1) Offshore gathering of gas upstream from the outlet flange of each facility on the outer continental shelf where hydrocarbons are produced or where produced hydrocarbons are first separated, dehydrated, or otherwise processed, whichever facility is farther downstream; and

(2) Onshore gathering of gas outside of the following areas:

(i) An area within the limits of any incorporated or unincorporated city, town, or village.

(ii) Any designated residential or commercial area such as a subdivision, business or shopping center, or community development.

192.3 Definitions.

As used in this part—