in a suitable manner the location of any underground facilities which may be affected by the work.

- (2) The utility or operating company shall take such action as is reasonably and legally 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, provided that nothing in this rule shall be deemed to affect any right which the utility or operating company may have to require advance payment or adequate assurance of payment of the reasonable cost thereof to the utility or operating company by the property owner or contractor.
- (3) The utility or operating company 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.

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 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. Prior to construction or reconstruction of any gas transmission line exceeding one mile in length or any gas main exceeding 1,000 feet in length intended to be subjected to pressures in excess of 100 p.s.i.g., a report shall be filed with the commission setting forth the specifications for such pipeline or main. This report shall contain at least the following information:

- (1) The necessary data to calculate the design pressure as set forth in 192.105.
- (2) The design pressure as determined by the utility or operating company.
- (3) The expected pressure at which the pipeline or main will be operated.
 - (4) The pressure to which the pipeline or main will be tested. History: Cr. Register, May, 1972, No. 197, eff. 6-1-72.

Register, February, 1973, No. 206

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.

(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		192.111 Design factor (F) for steel		
192.1	Scope of part,	pipe.		
192.3	Definitions,	192.113 Longitudinal joint factor		
192.5	Class locations.	(E) for steel pipe.		
$192.7 \\ 192.9$	Incorporation by reference. Gathering lines.	192.115 Temperature derating fac-		
192.11	Petroleum gas systems.	tor (T) for steel pipe.		
192.12	Liquefied natural gas facil-	192.117 Design of cast iron pipe. 192.119 Design of ductile iron pipe.		
200122	ities	192.121 Design of plastic pipe.		
	General.	192.121 Design of plastic pipe.		
192.15		plastic pipe.		
100 17	struction.	*192.125 Design of copper pipe.		
192.17	Filing of inspections and maintenance plans.	•		
maintenance plans.		Subpart D—Design of Pipeline		
Subpart B—Materials		Components		
192.51		192.141 Scope.		
*192.53		192.143 General requirements.		
$^*192.55$ $^*192.57$	Steel pipe. Cast iron or ductile iron	192.145 Valves.		
*194,57	pipe.	192.147 Flanges and flange accessories.		
*192.59		accessories. 192.149 Standard fittings.		
192.61		192.151 Tapping.		
192.63		192.153 Components fabricated by		
192.65	Transportation of pipe.	welding.		
ST	bpart C-Pipe Design	192.155 Welded branch connec-		
192.101 Scope.		tions.		
	General,	192,157 Extruded outlets.		
	Design formula for steel	192,159 Flexibility		
	pipe.	192.161 Supports and anchors.		
192,107	Yield strength (S) for steel	*192.163 Compressor stations: de-		
	pipe.	sign and construction.		
192.109	Nominal wall thickness (t)	192.165 Compressor stations: liquid removal.		
	for steel pipe.	nquiu removai.		
Register, February, 1973, No. 206				

Sec.		Sec.
	Compressor stations: emergency shutdown.	Subpart G—General Construction Requirements for Trans-
	Compressor stations; pressure limiting devices.	mission Lines and Mains
	Compressor stations: additional safety equipment.	192.301 Scope. 192.803 Compliance with specifica-
	Compressor stations: ventilation.	tions or standards. 192,305 Inspection: general. *192,307 Inspection of materials.
	Pipe-type and bottle-type holders.	*192.309 Repair of steel pipe.
	Additional provisions for bottle-type holders.	*192.313 Bends and elbows. 192.315 Wrinkle bends in steel
	Transmission line valves.	pipe.
*192.181 *192.183	Distribution line valves. Vaults: structural design requirements.	192.317 Protection from hazards. *192.319 Installation of pipe in a ditch.
102 125	Vaults: accessibility.	*192,321 Installation of plastic pipe.
	Vaults: sealing, venting, and ventilation.	*192.323 Casing. *192.325 Underground clearance.
*192.189		192.327 Cover. Subpart H—Customer Meters,
192.191	Design pressure of plastic fittings.	Service Regulators, and Service Lines
	Valve installation in plastic pipe.	192.351 Scope. *192.353 Customer meters and reg-
*192.195	Protection against accidental over-pressuring.	ulators: location. *192.355 Customer meters and reg- ulators: protection from
*192.197	Control of the pressure of gas delivered from	damage.
	high-pressure dis- tribution systems.	192.357 Customer meters and reg- ulators: installation.
*192.199	Requirements for design of pressure relief and limit-	192.359 Customer meter installa- tions: operating pres- sure.
192.201	ing devices. Required capacity of pressure relieving and limit-	192.361 Service lines: installation. 192.363 Service lines: valve
192.203	ing stations, Instrument, control, and sampling pipe and	requirements. *192,365 Service lines: location of
	components	valves. 192.367 Service lines: general re- guirements for connec-
138.804	Pipelines on private right- of-way of electric trans- mission lines.	tions to main piping. 192.369 Service lines: connections to cast iron or ductile
Subpa	rt E-Welding of Steel	iron mains. *192.371 Service lines: steel.
192.221	in Pipelines Scope,	*192.371 Service lines: steel. 192.373 Service lines: cast iron and ductile iron.
*192.223	General.	*192.375 Service lines: plastic.
192.225 192.227	Qualifications of welding procedures. Qualification of welders.	*192.375 Service lines: plastic. *192.377 service lines: copper. 192.379 New service lines not in use
192.229	Limitations on welders.	Subpart I—Requirements for
192.231 192.233	Protection from weather.	Corrosion Control
192.233 192.235	Miter joints. Preparation for welding.	192.451 Scope.
192.237	Preheating.	192,453 General.
192.239	Stress relieving.	192.455 External corrosion control:
192,241	Inspection and test of welds.	buried or submerged pipe- lines installed after July 31, 1971.
*192.243 192.245	Nondestructive testing. Repair or removal of defects.	*192,457 External corrosion control:
*192.246	Precautions to avoid explo- sions of gas-air mixtures or uncontrolled fires dur-	lines installed before August 1, 1971. 192.459 External corrosion control: examination of buried
	or uncontrolled fires dur- ing construction opera- tions.	pipeline when exposed.
Subpar	***	192.461 External corrosion control: protective coating.
192.271	t F—Joining of Materials her Than by Welding Scope,	192.463 External corrosion control: cathodic protection. 192.465 External corrosion control:
192.278 192.278	General. Cast iron pipe.	monitoring, 192.467 External corrosion control:
192.277 *192.279 *192.281	Ductile iron pipe. Copper pipe. Plastic pipe.	electrical isolation. 192.469 External corrosion control: test stations.
		Register, February, 1973, No. 206

Sec.		Sec.	
	External corrosion control:		Continuing surveillance.
	test leads.		Emergency plans.
192.473	External corrosion control:		Investigation of failures.
192.475	interference currents. Internal corrosion control: general,	*192.619	Maximum allowable operat- ing pressure: steel or
192.477	Internal corrosion control: monitoring.	*192.621	plastic pipelines. Maximum allowable operating pressure: high-pres-
	Atmospheric corrosion con- trol: general		sure distribution sys- tems.
192.481	Atmospheric corrosion con-	*192.623	Maximum and minimum
192,483	Remedial measures; gen-		allowable operating pressure: low-pressure distribution systems.
192.485	Remedial measures: trans- mission lines.	192.625	Odorization of gas.
192.487	Remedial measures: distri-	192.627	Tapping pipelines under pressure.
	Remedial measures: distri- bution lines other than cast iron or ductile iron lines.		Purging of pipelines.
192.489	iron and ductile iron		part M—Maintenance Procedures
192 491	pipelines. Corrosion control records.	192.701	
		192.703 192.705	General. Transmission lines: patrol-
	rt J—Test Requirements	1021100	ling.
$192.501 \\ 192.503$	Scope. General requirements.	*192.707	Transmission lines: mark-
	Strength test requirements for steel pipeline to oper-	192.709	ers. Transmission lines: record-
	ate at a hoop stress of 30% or more of SMYS.	192.711	keeping. Transmission lines: general
192.507	Test requirements for pipeline to operate at a hoop		Transmission lines: general requirements for repair procedures.
	SMYS and above 100	*192,713	Transmission lines: permanent field repair of imperfections and damage. Transmission lines: perma-
*109 500	p.s.i.g.	192.715	Transmission lines: perma-
134.009	Test requirements for pipe- lines to operate at or be-	100 515	nent repair of welds.
*192.511	low 100 p.s.i.g. Test requirements for serv-	192.717	nent repair of welds. Transmission lines: permanent field repair of leaks. Transmission lines: testing
	ice lines.	194,719	of repairs.
192.515	Test requirements for plas- tic pipelines. Environmental protection	*192.720	Repair of steel pipe operating below 40% of the
	and safety requirements.		specified minimum yield strength.
192.517	Records.	192.721	Distribution systems:
S	ubpart K—Uprating	* 100 799	patrolling. Distribution mains: mark-
192.551	Scope.		ers.
$\substack{192.553 \\ 192.555}$	General requirements. Uprating to a pressure that will produce a hoop stress of 30% or more of SMYS	*192.723	Distribution systems: leak- age surveys and proce- dures.
	in steel pipelines.	*192.724	Further leakage survey af-
192.557	Opraung; steer pipelines to	192.725	ter repair of leak. Test requirement for rein-
	a pressure that will pro- duce a hoop stress less than 30% of SMYS; plas-	*192.727	stating service lines. Abandonment or inactivation of facilities.
	tic, cast iron, and ductile iron pipelines.	192.729	Compressor stations: pro- cedure for gas compres-
Su	bpart L—Operations	109 791	sion units. Compressor stations: in-
192.601		192,101	spection and testing
$\begin{array}{c} 192.603 \\ 192.605 \end{array}$	General provision. Essentials of operating and	192.733	of relief services. Compressor stations: isola-
192.607	maintenance plan. Initial determination of class location and confir-		tion of equipment for maintenance or alter- ations.
	mation or establishment of maximum allowable	*192.735	Compressor stations: storage of combustible mate-
192 600	operating pressure.	199797	rials. Pipe-type and bottle-type
	required study.	194,191	holders: plan for in-
192,011	Change in class location: confirmation or revision of maximum allowable operating pressure.	192.739	spection and testing. Pressure limiting and reg- ulating stations: inspec- tion and testing.
Dominton			

Register, February, 1973, No. 206