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CERTIFICATE

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STATE OF WISCONSIN)
) ss.
PUBLIC SERVICE COMMISSION)

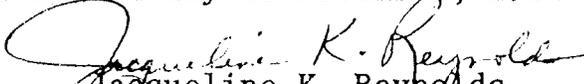
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8:45 am
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TO ALL WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, Jacqueline K. Reynolds, Secretary of the Public Service Commission of Wisconsin, and custodian of the official records of said commission, do hereby certify that the annexed order repealing Wis. Adm. Code section 192.707(3) and (f) of PSC 135, renumbering section 192.723(e) and (f) of PSC 135, amending sections 192.105(b), 192.143, 192.245(a) and (b), 192.707(a), (b) and (d), and 192.723 of PSC 135, and creating a table of contents listing for sections 192.144, 192.245(c) and 192.723(e) of PSC 135 was duly approved and adopted by this commission on November 1, 1984.

I further certify that said copy has been compared by me with the original on file in this commission and that the same is a true copy thereof, and of the whole of such original.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the commission at the Hill Farms State Office Building, in the City of Madison this 2nd day of November, 1984.


Jacqueline K. Reynolds
Secretary of the Public Service
Commission of Wisconsin

1-1-85

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COMPARED WITH AND CERTIFIED BY M.
TO BE A FULL TRUE AND CORRECT COPY
OF THE ORIGINAL ON FILE IN MY OFFICE.

NOV 1 1984

Jeauqueline K. Reynolds
Secretary to the Commission
Public Service Commission of Wisconsin

DATE MAILED
NOV 2 1984

BEFORE THE
PUBLIC SERVICE COMMISSION OF WISCONSIN

Rules and Regulations Governing the)
Construction, Operation and Maintenance)
of Facilities for the Production,)
Transmission, Distribution and Utilization)
of Gas)

1-AC-67
84-106



ORDER OF THE PUBLIC SERVICE COMMISSION
AMENDING RULES

To repeal s. 192.707(e) and (f) of PSC 135; to renumber s. 192.723(e) and (f) of PSC 135; to amend ss. 192.105(b) of PSC 135, 192.143 of PSC 135, 192.245(a) and (b) of PSC 135, 192.707(a), (b) and (d) of PSC 135 and 192.723 of PSC 135; and to create a table of contents listing for s. 192.144 of PSC 135, 192.144 of PSC 135, 192.245(c) of PSC 135, and 192.723(e) of PSC 135, all relating to natural gas safety rules contained in ch. PSC 135.

ANALYSIS PREPARED BY THE PUBLIC SERVICE
COMMISSION OF WISCONSIN

On January 17, 1984, the Public Service Commission approved various amendments and additions to chapter PSC 135, Wis. Adm. Code. The chapter incorporates with some changes part 192 and 193, 49 Code of Federal Regulations: Minimum Safety Standards for Pipeline Facilities and Transportation of Natural Gas and Liquefied Natural Gas Established by the Federal Department of Transportation, Office of Pipeline Safety Operations.

The commission now amends ch. PSC 135, Wis. Adm. Code to conform to recent changes in federal rules. The specific amendments are:

1. Revise the table of contents in ch. PSC 135 to add a new s. 192.144 entitled: "Qualifying metallic components."
2. Revise slightly the design requirements for steel pipe in s. 192.105(b).
3. Add criteria to qualify for use or reuse components manufactured according to editions of voluntary standards which have not been incorporated by reference.
4. Modify the present regulations on the repair or removal of defective girth welds utilizing performance standards for weld repair.
5. Revise slightly the placement of pipeline markers requirements in s. 192.707.
6. Revise slightly the time periods for leak surveys in s. 192.723.
7. Require natural gas utilities to leak survey all services once every five years.

RULES AND STATUTORY AUTHORITY

Pursuant to authority vested in the Public Service Commission by s. 196.16, Stats., the commission adopts rules interpreting s. 196.16, Stats., as follows:

SECTION 1. The table of contents of part 192 of ch. PSC 135 is amended in subpart D, Design of Pipeline Components, to add a new s. 192.144 entitled "Qualifying metallic components."

SECTION 2. Sec. 192.105(b) of PSC 135 is amended to read:

PSC 192.105(b) If steel pipe that has been subjected to cold worked expansion to meet the SMYS is subsequently heated, other than by welding; ~~to 600°F~~; or ~~more~~; stress relieving as a part of welding, the design pressure is limited to 75 percent of the pressure determined under paragraph (a) of this section if the temperature of the pipe exceeds 900°F (482°C) at any time or is held above 600°F (316°C) for more than 1 hour.

SECTION 3. Section 192.143 of PSC 135 is amended to read as follows:

PSC 192.143 GENERAL REQUIREMENTS.

Each component of a pipeline must be able to withstand operating pressures and other anticipated loadings without impairment of its serviceability with unit stresses equivalent to those allowed for comparable material in pipe in the same location and kind of service. However, if design based upon unit stresses is impractical for a particular component, design may be based upon a pressure rating established by the manufacturer by pressure testing that component or a prototype of the component.

SECTION 4. Section 192.144 of PSC 135 is created to read as follows:

PSC 192.144 QUALIFYING METALLIC COMPONENTS

Notwithstanding any requirement of this subpart which incorporates by reference an edition of a document listed in Appendix A 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 Appendix A:

- (1) Pressure testing;
- (2) Materials; and
- (3) Pressure and temperature ratings.

SECTION 5. Section 192.245(a) and (b) of PSC 135 is amended to read as follows:

PSC 192.245(a) Each weld that is unacceptable under s. PSC 192.241(c) must be removed or repaired. Except for welds on an offshore pipeline being installed from a pipelay vessel, a weld must be removed if it has a crack that is more than 2-inches-long-or-that-penetrates-either-the-root-or-second-bead 8 percent of the weld length.

(b) Each weld that is repaired must have the defect removed down to clean 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 insure ensure its acceptability. If-the-repair-is-not-acceptable;-the-weld-must-be removed;-except-that-additional-repairs-made-in accordance-with-written-welding-procedures-qualified under-192.225-are-permitted-for-welds-on-an-offshore pipeline-being-installed-from-a-pipelay-vessel.

SECTION 6. Section 192.245(c) of PSC 135 is created to read as follows:

PSC 192.245(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 s. PSC 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.

SECTION 7. Section 192.707(a) and (b) are amended to read as follows:

PSC 192.707(a) *Buried pipelines.* Except as provided in paragraph (b) of this section, a line marker must be placed and maintained as close as practical over each buried main and transmission line -- :

- (1) At each crossing of a public road; and railroad; -and-navigable-waterway; and

(2) Wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference. However, ~~until January 1, 1978, paragraphs (a)(1) and (a)(2) of this section do not apply to mains installed before April 21, 1975, and until January 1, 1978, paragraph (a)(1) of this section does not apply to transmission lines installed before April 21, 1975.~~

(b) *Exceptions for buried pipelines.* Line markers are not required for buried mains and transmission lines—

(1) Located offshore or under inland navigable waters at crossings of or under waterways and other bodies of water; or

(2) In Class 3 or Class 4 locations—

(i) Where placement of a marker is impractical; or

(ii) Where a damage prevention program is in effect under s. PSC 192.614; or

~~(3) -- In the case of navigable waterway crossings, within 100 feet of a line marker placed and maintained at that waterway in accordance with this section.~~

SECTION 8. Section 192.707(d) (title) and (intro.) of ch. PSC 135 are amended to read as follows:

PSC 192.707(d) (title) MARKER WARNING (intro.)
The following must be written legibly on a background of sharply contrasting color on each line marker ~~not placed at a navigable waterway.:~~

SECTION 9. Sections 192.707(e) and (f) of PSC 135 are repealed.

SECTION 10. Italicized ss. 192.723(a), (b), (c) and (d) are amended to read as follows:

(a) In principal business districts (as shown by maps filed with the public service commission by each utility) a reasonable street-opening survey shall be conducted at intervals not exceeding 7½ months, but at least twice annually each calendar year by making tests with combustible gas indicators in street openings such as telephone and electric vaults and manholes, catch basins and sewer system manholes, and gas system openings.

(b) In each principal business district a building survey shall be conducted at intervals not exceeding 15 months, but at least once a each calendar year. The piping from the service entrance to the meter outlet and metering and regulating equipment shall be tested for gas leakage in those buildings that have gas service.

(c) A survey of all buildings used for public gatherings such as schools, churches, hospitals, and theaters shall be conducted at intervals not exceeding 15 months, but at least once each calendar year. The piping from the service entrance to the meter outlet and metering and regulating equipment shall be tested for gas leakage.

(d) In residential areas, in addition to a survey of public buildings the vegetation shall be checked. At least 3 barhole tests shall be made in each block; at least one street opening shall be checked if one exists in each block or at each intersection; and on streets where the system is operating at a pressure of more than 10 p.s.i.g., all street openings shall be checked. (See 192.723(b)(1) above for types of street openings.) The utility may substitute for the barhole tests a ground surface survey with a hand-operated, continuous-sampling instrument capable of detecting combustible gas in air concentrations of 100 parts per million. The utility may substitute for all the tests required by this section (PSC 192.723(d)) a survey by mobile flame ionization or infrared gas detection units ~~provided that a method be included to check individual services~~. The tests required by this section (PSC 192.723(d)) shall be made at intervals not exceeding 15 months, but at least once each calendar year.

SECTION 11. Italicized ss. 192.723(e) and (f) are renumbered (f) and (g).

SECTION 12. Italicized s. 192.723(e) is created to read as follows:

PSC 192.723(e) A survey of all services with an acceptable leak detection device shall be made at intervals not exceeding five years.

There will be no fiscal impact of the rules on the state or municipalities, nor will the rules have a significant economic impact on small business.

The rules have been forwarded to the legislature for review pursuant to s. 227.018(2), Stats. They will take effect on the first day of the month following publication in the Wisconsin Administrative Register, as provided in s. 227.026, Stats.

This action is classified as a Type III action according to PSC 2.90(3), Wis. Adm. Code. No unusual circumstances have come to the attention of the commission that would require further environmental review. It consequently requires neither an environmental impact statement under s. 1.11, Wis. Stats., nor an environmental assessment.

Dated at Madison, Wisconsin,

November 1, 1984

By the Commission.

Jacqueline K. Reynolds
Jacqueline K. Reynolds
Secretary to the Commission



State of Wisconsin \ PUBLIC SERVICE COMMISSION

November 2, 1984

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MADISON, WISCONSIN 53707

Mr. Gary Poulson
Assistant Revisor of Statutes
411 West, State Capitol
Madison, Wisconsin 53702

File No. AC-67

Re: Rules and Regulations Governing the
Construction, Operation and Maintenance
of Facilities for the Production, Trans-
mission, Distribution and Utilization of
Gas; C.H. No. 84-106

Dear Mr. Poulson:

Enclosed please find two copies (one certified) of an order
of the Public Service Commission adopting rules in the above-
entitled matter.

The rules have been seen by legislative committees (sent
August 29, 1984).

Sincerely,

Steven Levine
Assistant Chief Counsel

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