In the matter, on the Commission’s own motion, to commence a proceeding to consider amendments to the Michigan Gas Safety Standards. Case No. U-13600

At the November 7, 2002 meeting of the Michigan Public Service Commission in Lansing, Michigan.

PRESENT: Hon. Laura Chappelle, Chairman
        Hon. David A. Svanda, Commissioner
        Hon. Robert B. Nelson, Commissioner

ORDER COMMENCING RULEMAKING PROCEEDING

On December 6, 1999, the Commission issued an order in Case No. U-11750 rescinding the Michigan Gas Safety Code and replacing it with the Michigan Gas Safety Standards. The Michigan Gas Safety Standards adopt the minimum federal safety standards by reference, and also identify provisions of the federal standards that have been modified or expanded to meet the specific needs of this jurisdiction.¹

Numerous wells in Michigan produce sour gas, which is a type of natural gas containing significant concentrations of hydrogen sulfide (H₂S). The presence of H₂S makes the gas more corrosive and dangerous to humans. Because Michigan is somewhat unique in the number of wells producing sour gas, federal regulations do not specifically deal with pertinent issues

¹These safety standards, which initially took effect on January 6, 2000, were amended slightly (pursuant to the Commission’s January 23, 2001 order in Case No. U-12570) to reflect certain changes in the federal standards.
regarding its transportation. Furthermore, although Part 4 of the existing Michigan Gas Safety Standards recognizes the need for special care in handling this product, it currently includes only a few rules covering the construction and operation of sour gas pipelines.

As a result, the Commission proposes to revise the Michigan Gas Safety Standards to include provisions specifically addressing the need for added safety in the construction, operation, and maintenance of sour gas pipeline systems in Michigan. The goal of these revisions and additions is to better minimize the potential health risks to both the general public and the employees of sour gas pipeline operators.

In addition, existing Rules 601 through 606 of the Michigan Gas Safety Standards refer to and, in many cases, adopt by reference various published versions of industry standards and federal regulations. Some of the citations set forth in those rules are now outdated. Therefore, the Commission proposes to replace all outdated citations with references to the most recent versions or editions of those standards and regulations, and to update the date, price, and purchasing address (where necessary) for each document discussed in those rules.

The Commission encourages interested parties to become involved in the rulemaking process. Attached to this order as Exhibit A is a notice of public hearing that has been scheduled for 9:00 a.m. on January 7, 2003 in the offices of the Commission, 6545 Mercantile Way, Lansing, Michigan regarding the proposed revisions. In addition, any person may submit comments concerning the proposed revisions. Written comments, which should reference the case number of this proceeding, should be submitted no later than January 28, 2003 to be considered. It is proposed that the effective date of the revisions, if approved, will be April 1, 2003.
The Commission FINDS that:


b. A hearing should be held regarding the proposed revisions to the Michigan Gas Safety Standards.

THEREFORE, IT IS ORDERED that:

A. A notice of hearing regarding the adoption of proposed revisions to the Michigan Gas Safety Standards shall be published in accordance with the requirements of the Administrative Procedures Act of 1969.

B. A public hearing regarding the proposed revisions shall be held at 9:00 a.m. on January 7, 2003 at the Commission’s offices, 6545 Mercantile Way, Lansing, Michigan. A notice of hearing is attached to this order as Exhibit A.

C. The public hearing will be legislative in nature and any person may present data, views, questions, and arguments regarding the proposed rule revision. Statements may be limited in duration by the presiding officer in order to ensure that all interested parties will have an opportunity to participate in the proceeding. The proceeding will continue as the presiding officer may schedule until all persons have had a reasonable opportunity to be heard.

D. Any person may file written comments, suggestions, data, views, questions, arguments, and revisions concerning the proposed changes to the Michigan Gas Safety Standards. An original and 15 copies shall be filed with the Office of Executive Secretary, Michigan Public Service
Commission, 6545 Mercantile Way, Lansing, Michigan 48909. All written comments must be submitted no later than January 28, 2003 and should reference Case No. U-13600.

E. Copies of the existing Michigan Gas Safety Standards and additional copies of the proposed revisions, which are attached to this order as Exhibit B, are available upon request to the Executive Secretary.

The Commission reserves jurisdiction and may issue further orders as necessary.

MICHIGAN PUBLIC SERVICE COMMISSION

/s/ Laura Chappelle
Chairman

( SEAL)

/s/ David A. Svanda
Commissioner

/s/ Robert B. Nelson
Commissioner

By its action of November 7, 2002.

/s/ Dorothy Wideman
Its Executive Secretary
Commission, 6545 Mercantile Way, Lansing, Michigan 48909. All written comments must be submitted no later than January 28, 2003 and should reference Case No. U-13600.

E. Copies of the existing Michigan Gas Safety Standards and additional copies of the proposed revisions, which are attached to this order as Exhibit B, are available upon request to the Executive Secretary.

The Commission reserves jurisdiction and may issue further orders as necessary.

MICHIGAN PUBLIC SERVICE COMMISSION

Chairman

Commissioner

Commissioner

By its action of November 7, 2002.

Its Executive Secretary
The Michigan Public Service Commission is proposing to revise portions of the Michigan Gas Safety Standards.

The Notice of Hearing describes how a person may participate in this case.

Copies of the proposed rule revisions may be obtained at no charge to you from the Executive Secretary, Michigan Public Service Commission, 6545 Mercantile Way, P.O. Box 30221, Lansing, Michigan 48909 or reviewed at that office. The Commission may be contacted at (517) 241-6170 or (800) 292-9555. TTY and TDD users may call either 711 or (800) 649-3777.

The first public hearing in this matter is scheduled for:

**DATE:** January 7, 2003

**TIME:** 9:00 a.m.

**LOCATION:** Michigan Public Service Commission

**PARTICIPATION:** Any interested person may attend and participate.

The hearing will be for the purpose of providing an opportunity for all interested persons to present statements, views, data, questions, or arguments concerning the rules that the Commission may adopt. The public hearing will continue until all parties present have had a reasonable opportunity to present statements regarding the proposed rules. Persons presenting statements may be asked questions by the Commission and its Staff.
Statements should be no longer than ten (10) minutes in duration in order to ensure that all interested parties have an opportunity to participate in the proceedings.

In addition, interested parties may file written comments concerning the proposed rules with the Commission not later than January 28, 2003 at 5:00 p.m. An original and fifteen (15) copies of all written comments shall be filed with the Michigan Public Service Commission, P.O. Box 30221, Lansing, Michigan 48909. Written comments may also be filed in a similar manner at the public hearing. The Commission requests that all written comments specifically refer to Case No. U-13600.

The proposed rules are intended to be permanent rules and are proposed to become effective April 1, 2003. These rules are further intended to minimize the potential health risks to both the general public and the employees of sour gas pipeline operators by establishing additional safety requirements for the construction, operation, and maintenance of all sour gas pipeline systems operated in Michigan.

The Commission proposes to adopt these rules pursuant to 1969 PA 165, as amended, MCL 483.151 et seq.; 1919 PA 419, as amended, MCL 460.51 et seq.; 1939 PA 3, as amended, MCL 460.1 et seq.; 1969 PA 306, as amended, MCL 24.201; and the Commission’s Rules of Practice and Procedure, as amended, 1992 AACS, R 460.17101 et seq.
DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES
PUBLIC SERVICE COMMISSION
GAS SAFETY

Filed with the Secretary of State on
These rules take effect 7 days after filing with the Secretary of State

(By authority conferred on the public service commission by section 2 of 1969 PA 165, MCL 483.152)

R 460.20201, R 460.20401, R 460.20402, R 460.20403, R 460.20404, R 460.20405, R 460.20502, R 460.20601, R 460.20602, R 460.20603, R 460.20604, R 460.20605, and R 460.20606 of the Michigan Administrative Code are amended, and R 460.20406, R 460.20407, R 460.20408, R 460.20409, R 460.20410, R 460.20411, R 460.20412, R 460.20413, R 460.20414, R 460.20415, R 460.20416, R 460.20417, R 460.20418, R 460.20419, R 460.20420, R 460.20421, R 460.20422, R 460.20423, R 460.20424, R 460.20425, R 460.20426, R 460.20427, R 460.20428, R 460.20429, R 460.20430, and R 460.20431 are added, as follows:

PART 2. SAFETY STANDARDS AND TESTING REQUIREMENTS

R 460.20201 Pipeline safety standards; adoption by reference.

Rule 201. (1) Except for 49 C.F.R. §192.1, an operator shall ensure that a gas pipeline is in compliance with all of the minimum safety standards contained in 49 C.F.R. part 192 entitled "Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards," which are adopted by reference in R 460.20606.

(2) An operator shall ensure that a pipeline which is subject to the standards specified in subrule (1) of this rule is also in compliance with all of the additional safety standards contained in R 460.20301 to R 460.20331.

(3) In addition to the requirements imposed by subrules (1) and (2) of this rule, an operator shall ensure that a pipeline which transports sour gas is also in compliance with the additional safety standards contained in R 460.20401 to R 460.20405 and R 460.20431.

October 3, 2002
PART 4. SOUR GAS PIPELINES

R 460.20401 Scope; conversion of existing pipeline to sour gas service.

Rule 401. (1) The rules in this part are additional requirements for the design, fabrication, installation, inspection, testing, and safety aspects of the operation and maintenance of gas pipeline facilities used in the transportation of sour gas.

(2) Operators of pipeline facilities used for the transportation of sour gas that are under the jurisdiction of the commission shall meet all of the requirements in parts 2, 3, and 5 of these rules, ALL OF THE REQUIREMENTS IN 49 C.F.R. PART 192, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, and all of the additional requirements in this part.

(3) EXISTING PIPELINE FACILITIES NOT DESIGNED AND BUILT FOR THE TRANSPORTATION OF SOUR GAS SHALL NOT BE CONVERTED FOR USE IN THE TRANSPORTATION OF SOUR GAS WITHOUT PRIOR REVIEW AND APPROVAL OF THE COMMISSION.

R 460.20402 Materials for pipe and components; requirements.

Rule 402. In addition to the requirements set forth in 49 C.F.R. §192.55, which is adopted by reference in R 460.20606, METALLIC materials for pipe and other components used to transport sour gas are able to maintain the structural integrity of the pipeline when exposed to sour gas SHALL MEET THE REQUIREMENTS SET FORTH IN THE NATIONAL ASSOCIATION OF CORROSION ENGINEERS INTERNATIONAL STANDARD NACE MR0175-2000, WHICH IS ADOPTED BY REFERENCE IN R 460.20605.

R 460.20403 Steel pipe; qualification for transport of sour gas DESIGN FORMULA.

Rule 403. An operator shall ensure that new steel pipe used to transport sour gas shall be qualified for the transport of sour gas in addition to the requirements set forth in 49 C.F.R. §192.105 THROUGH §192.115, WHICH ARE ADOPTED BY REFERENCE IN R 460.20606, STEEL PIPE DESIGNED FOR USE IN THE TRANSPORTATION OF SOUR GAS SHALL USE A DESIGN FACTOR OF 0.40.

R 460.20404 Purging of SOUR GAS pipelines; plan; personnel.

Rule 404. IN ADDITION TO SATISFYING THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.705, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, A an operator OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS shall ensure that the COMPLY WITH BOTH OF THE FOLLOWING PROVISIONS:

(A) THE PURGING OF SOUR GAS FROM A PIPELINE SHALL BE ACCOMPLISHED BY BURNING OR BY EQUIVALENT CONTROL OF H₂S.

(B) ALL purging and blowing down of sour gas pipelines is SHALL BE done in accordance with a written plan. The plan shall include public and operator personnel safety and environmental protection considerations. Properly equipped personnel who are trained and familiar with the potential hazards of sour gas shall perform ALL purging and blowing down operations.
R 460.20405  Valves; qualification for sour gas service.
   Rule 405. An operator shall ensure that valves to be used for sour gas service are qualified for sour gas service in accordance with the provisions of the National Association of Corrosion Engineers International standard MR0175-98 MR0175-2000, which is adopted by reference in R 460.20605.

R 460.20406  COMPRESSOR STATION; EMERGENCY SHUTDOWN.
   Rule 406. In addition to the requirements set forth in 49 C.F.R. §192.167(A)(2), which is adopted by reference in R 460.20606, if there is an emergency shutdown, all gas released from sour gas pipeline facilities shall be flared in a manner that minimizes the danger to the general public.

R 460.20407  SECTIONALIZING BLOCK VALVES.
   Rule 407. In addition to the requirements set forth in 49 C.F.R. §192.179, which is adopted by reference in R 460.20606, an operator of pipeline facilities used in the transportation of sour gas shall comply with all of the following requirements for any portion of the pipeline that contains more than 10 pounds of H₂S per mile, with the weight calculated according to the formula:

   \[ W = \frac{V \times 144 \times P \times H}{R \times T} \]

   where \( W \) = weight of H₂S in pounds, \( V \) = volume of one mile of pipe, \( P \) = absolute pressure, \( R \) = the universal constant of 1,544 divided by the molecular weight of H₂S, \( T \) = temperature in degrees Rankine, and \( H \) = percentage of H₂S in the gas:

   (A) Sectionalizing block valves shall be installed and located so that each point on the pipeline is within 3 miles of a sectionalizing block valve with a block valve located at each end of the pipeline.

   (B) A pipeline shall incorporate block valve automation so that block valves will automatically close upon the registering of low pressure readings. The system shall be designed to operate even in the event of a power failure or malfunction of electronic devices and shall be designed to fail in a closed position.

   (C) A pipeline shall incorporate a supervisory control and data acquisitions (SCADA) system that is in compliance with all of the following provisions:

      (I) is monitored by the operator to ensure appropriate response to emergencies.

      (II) is programmed to automatically close block valves based on operating data gathered at each metering site and at each automated block valve.

      (III) automatically closes the upstream and downstream sectionalizing block valves surrounding any sectionalizing block valve that is in an alarm condition.
(IV) ALLOWS THE OPERATOR MONITORING THE SCADA SYSTEM TO CLOSE, BUT NOT OPEN, ANY OR ALL OF THE BLOCK VALVES AND METERING POINTS.

(D) H₂S SENSORS SHALL BE LOCATED AT ALL SECTIONALIZING BLOCK VALVE SITES. THE SENSORS SHALL PROVIDE A WARNING TO THE SCADA SYSTEM AT H₂S LEVELS OF 10 PPM AND SHALL CLOSE THE BLOCK VALVE AT H₂S LEVELS OF 30 PPM.

(E) CONTROL VALVES SHALL BE INSTALLED AT APPROPRIATE LOCATIONS AT WELL SITES OR LATERALS TO AUTOMATICALLY SHUT OFF THE FLOW OF GAS INTO THE PIPELINE IN THE EVENT OF A LINE BREAK OR OVER PRESSURE CONDITION.

R 460.20408 QUALIFICATION OF WELDING PROCEDURES.

RULE 408. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.225, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL USE WELDING PROCEDURES THAT CONFORM TO THE WELDING PROVISIONS OF THE NATIONAL ASSOCIATION OF CORROSION ENGINEERS INTERNATIONAL STANDARD NACE MR0175-2000, WHICH IS ADOPTED BY REFERENCE IN R 460.20605.

R 460.20409 INSPECTION AND TESTING OF WELDS.

RULE 409. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.241, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL RADIOGRAPH 100% OF ALL GIRTH BUTT WELDS. NONDESTRUCTIVE TESTING OF WELDS MAY BE PERFORMED BY ANY PROCESS THAT WILL CLEARLY INDICATE ALL DEFECTS IN THE WELDS.

R 460.20410 THREADED JOINTS.

RULE 410. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.273, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL NOT USE THREADED JOINTS TO JOIN ANY SECTIONS OR OTHER COMPONENTS OF A BURIED PIPELINE.
R 460.20411 REPAIR OF STEEL PIPE.
RULE 411. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.309, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL REMOVE ANY IMPERFECTION OR DAMAGE DISCOVERED DURING CONSTRUCTION THAT IMPAIRS THE SERVICEABILITY OF A LENGTH OF STEEL PIPE BY CUTTING OUT THE DAMAGED PORTION OF THE PIPE AS A CYLINDER AND REPLACING IT WITH AN UNDAMAGED PIECE OF PIPE WHICH MEETS OR EXCEEDS THE SPECIFICATIONS OF THE ORIGINAL PIPE.

R 460.20412 STRENGTH TEST REQUIREMENTS.
RULE 412. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.505, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL PRESSURE TEST IN PLACE ALL SOUR GAS PIPELINES TO NOT LESS THAN 2 TIMES THEIR MAXIMUM ALLOWABLE OPERATING PRESSURE (MAOP) FOR NOT LESS THAN 8 HOURS.

R 460.20413 UNDERGROUND CLEARANCES.
RULE 413. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.325, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL, IF PRACTICAL, INSTALL THE PIPELINE WITH NOT LESS THAN 48 INCHES OF CLEARANCE FROM ALL OTHER UNDERGROUND STRUCTURES NOT ASSOCIATED WITH THE PIPELINE. IF THIS CLEARANCE CANNOT BE PRACTICABLY ATTAINED, THE PIPELINE SHALL BE PROTECTED FROM DAMAGE THAT MIGHT RESULT DUE TO ITS PROXIMITY TO THE OTHER STRUCTURE OR STRUCTURES.

R 460.20414 COVER.
RULE 414. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.327, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL COMPLY WITH ALL OF THE FOLLOWING PROVISIONS:
(A) PIPELINES SHALL BE BURIED, EXCEPT WHERE SPECIAL CONDITIONS OF USAGE NECESSITATE ABOVE GROUND CONSTRUCTION.
(B) A BURIED PIPELINE SHALL BE INSTALLED WITH A MINIMUM COVER OF 48 INCHES.
(C) WHEN PRACTICAL, A WARNING TAPE SHALL BE INSTALLED NOT LESS THAN 12 INCHES DIRECTLY ABOVE THE PIPELINE, BUT NOT MORE THAN 36 INCHES BELOW GRADE, FOR THE PURPOSE OF WARNING EXCAVATORS OF THE EXISTENCE OF THE PIPELINE AND THE HAZARDOUS NATURE OF SOUR GAS.
R 460.20415 PIPELINE LOCATION.
RULE 415. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.329, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL COMPLY WITH BOTH OF THE FOLLOWING PROVISIONS:
(A) A PIPELINE SHALL BE ROUTED TO AVOID CLASS 3 AND 4 LOCATIONS, IF PRACTICAL.
(B) USE OF ROAD RIGHTS-OF-WAY SHALL BE AVOIDED, IF PRACTICAL.

R 460.20416 INTERNAL CORROSION CONTROL; GENERALLY.
RULE 416. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.47, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL NOT TRANSPORT BY PIPELINE ANY GAS CONTAINING H₂S, UNLESS THE CORROSIVE EFFECT OF THE H₂S HAS BEEN INVESTIGATED AND STEPS HAVE BEEN TAKEN TO MINIMIZE INTERNAL CORROSION FOR THE PIPELINE FACILITIES.

R 460.20417 INTERNAL CORROSION CONTROL; MONITORING.
RULE 417. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.477, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL USE COUPONS OR OTHER SUITABLE MEANS TO DETERMINE THE EFFECTIVENESS OF THE STEPS TAKEN TO MINIMIZE INTERNAL CORROSION. INITIALLY, EACH COUPON OR OTHER MEANS OF MONITORING INTERNAL CORROSION SHALL BE CHECKED 4 TIMES EACH CALENDAR YEAR, BUT WITH INTERVALS OF NOT MORE THAN 3 1/2 MONTHS UNTIL A MONITORING SCHEDULE CAN BE DEVELOPED THAT WILL ADEQUATELY IDENTIFY INTERNAL CORROSION. THE MONITORING SCHEDULE SHALL NOT EXCEED THE SCHEDULE SET FORTH IN 49 C.F.R. §192.477.

R 460.20418 REMEDIAL MEASURES.
RULE 418. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.485, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL REMOVE FROM SERVICE AND REPLACE EVERY SEGMENT OF A PIPELINE THAT HAS GENERAL CORROSION RESULTING IN A REMAINING WALL THICKNESS LESS THAN THAT REQUIRED FOR THE MAOP OF THE PIPELINE.
R 460.20419 SOUR GAS PIPELINE OPERATING AND MAINTENANCE PLAN; CONTENTS.
RULE 419. THE PLAN REQUIRED BY 49 C.F.R. §192.605, WHICH IS ADOPTED BY REFERENCE IN R 460.20606 AND WHICH SHALL BE FILED WITH THE COMMISSION AND UPDATED AS SPECIFIED IN 460.20319, SHALL ADDRESS ALL HAZARDS INHERENT WITH THE TRANSPORTATION OF SOUR GAS AND SHALL CONTAIN PLANS AND PROCEDURES TO MINIMIZE THE HEALTH RISK TO THE OPERATOR'S EMPLOYEES AND THE GENERAL PUBLIC DURING NORMAL OPERATING CONDITIONS.

R 460.20420 SAFETY PROCEDURES FOR ABNORMAL OPERATING CONDITIONS.
RULE 420. THE PLAN REQUIRED BY 49 C.F.R. §192.605, WHICH IS ADOPTED BY REFERENCE IN R 460.20606 AND WHICH SHALL BE FILED WITH THE COMMISSION AND UPDATED AS SPECIFIED IN 460.20319, SHALL ALSO ADDRESS THE HAZARDS INHERENT WITH THE TRANSPORTATION OF SOUR GAS AND SHALL INCLUDE PLANS AND PROCEDURES TO MINIMIZE THE HEALTH RISK TO THE OPERATOR'S EMPLOYEES AND THE GENERAL PUBLIC DURING ABNORMAL OPERATING CONDITIONS.

R 460.20421 DAMAGE PREVENTION PROGRAM.
RULE 421. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.614, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL COMPLY WITH BOTH OF THE FOLLOWING PROVISIONS:
(A) WHEN NOTIFIED BY THE "ONE-CALL" SYSTEM OR BY OTHER MEANS OF POSSIBLE EXCAVATION ACTIVITY IN THE PIPELINE RIGHT-OF-WAY, THE PIPELINE OPERATOR SHALL MONITOR THE EXCAVATION ACTIVITY USING ON-SITE PERSONNEL.
(B) WHEN RESPONDING TO REQUESTS TO MARK THE PIPELINE LOCATION, THE OPERATOR SHALL NOTIFY THE EXCAVATOR OF THE HAZARDS INHERENT IN THE RELEASE OF SOUR GAS.

R 460.20422 EMERGENCY PROCEDURES.
RULE 422. THE PLAN REQUIRED BY 49 C.F.R. §192.615, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, SHALL ADDRESS THE HAZARDS INHERENT WITH THE TRANSPORTATION OF SOUR GAS AND SHALL INCLUDE PLANS AND PROCEDURES TO MINIMIZE THE HEALTH RISK TO THE OPERATOR'S EMPLOYEES AND THE GENERAL PUBLIC IN THE EVENT OF AN EMERGENCY.

R 460.20423 SOUR GAS EDUCATION PROGRAMS.
RULE 423. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.616, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL
ESTABLISH CONTINUING EDUCATION PROGRAMS THAT ENABLE THE PUBLIC, APPROPRIATE GOVERNMENT ORGANIZATIONS, AND PERSONS ENGAGED IN EXCAVATION-RELATED ACTIVITIES TO ACCOMPLISH BOTH OF THE FOLLOWING:

(A) RECOGNIZE A SOUR GAS PIPELINE EMERGENCY FOR THE PURPOSE OF REPORTING IT TO THE OPERATOR OR OTHER APPROPRIATE PUBLIC OFFICIALS.

(B) TAKE APPROPRIATE ACTION IN THE EVENT OF AN UNPLANNED RELEASE OF SOUR GAS.

R 460.20424 TELEPHONIC NOTICE TO THE COMMISSION OF SOUR GAS LEAK.

Rule 424. In addition to each of the reporting requirements set forth in R 460.20503, an operator of pipeline facilities used in the transportation of sour gas shall, at the earliest practicable moment, but not more than 8 hours following the release of any quantity of sour gas that has the potential to harm the public, give telephonic notice to the commission staff of the release.

R 460.20425 SOUR GAS PIPELINE PATROLLING.

Rule 425. In addition to the requirements set forth in 49 C.F.R. §192.705, which is adopted by reference in R 460.20606, an operator of pipeline facilities used in the transportation of sour gas shall, at intervals of not more than 6 weeks but not less than 12 times each calendar year, patrol all pipelines that are used in the transportation of sour gas.

R 460.20426 LEAKAGE SURVEYS.

Rule 426. In addition to the requirements set forth in 49 C.F.R. §192.706, which is adopted by reference in R 460.20606, an operator of pipeline facilities used in the transportation of sour gas shall conduct leak surveys of those pipeline facilities using leak detection equipment at intervals of not more than 7 1/2 months, but not less than 2 times each calendar year, for all areas falling within the class 1 and class 2 location designations set forth in 49 C.F.R. §192.5, which is adopted by reference in R 460.20606.

R 460.20427 LINE MARKERS FOR SOUR GAS PIPELINES.

Rule 427. In addition to the requirements set forth in 49 C.F.R. §192.707, which is adopted by reference in R 460.20606, an operator of pipeline facilities used in the transportation of sour gas shall comply with both of the following provisions:

(A) Line markers shall be placed and maintained as close as practical over a sour gas pipeline and shall clearly identify the pipeline as a carrier of sour gas.
(B) WHERE PRACTICAL, AT LEAST 1 LINE MARKER SHALL BE VISIBLE FROM ANY LOCATION ON THE SOUR GAS PIPELINE.

R 460.20428 PROHIBITION ON TEMPORARY REPAIRS.

RULE 428. (1) IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.711, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL COMPLY WITH ALL OF THE FOLLOWING PROVISIONS:

(A) TEMPORARY REPAIRS ARE NOT ALLOWED ON PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS.

(B) SOUR GAS PIPELINE FACILITIES IN NEED OF REPAIR SHALL BE REMOVED FROM SERVICE UNTIL PERMANENT REPAIRS CAN BE MADE.

(2) THIS RULE DOES NOT PROHIBIT EMERGENCY REPAIRS SOLELY DESIGNED TO PROTECT THE OPERATOR'S EMPLOYEES AND THE PUBLIC FROM A RELEASE OF SOUR GAS.

R 460.20429 PERMANENT FIELD REPAIR OF LEAKS.

RULE 429. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.717, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL PERFORM A PERMANENT FIELD REPAIR OF A LEAK BY CUTTING OUT A CYLINDRICAL PIECE OF PIPE AND REPLACING IT WITH PIPE OF SIMILAR OR GREATER DESIGN STRENGTH WHICH MEETS THE DESIGN CRITERIA FOR FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS.

R 460.20430 INSPECTION OF PRESSURE-LIMITING AND PRESSURE-REGULATING STATIONS.

RULE 430. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.739, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL INSPECT ALL PRESSURE-LIMITING AND PRESSURE-REGULATING DEVICES AT INTERVALS OF NOT MORE THAN 6 1/2 MONTHS, BUT NOT LESS THAN TWICE EACH CALENDAR YEAR.

R 460.20431 VALVE MAINTENANCE; SOUR GAS PIPELINES.

RULE 431. IN ADDITION TO THE REQUIREMENTS SET FORTH IN 49 C.F.R. §192.745, WHICH IS ADOPTED BY REFERENCE IN R 460.20606, AN OPERATOR OF PIPELINE FACILITIES USED IN THE TRANSPORTATION OF SOUR GAS SHALL INSPECT AND PARTIALLY OPERATE EACH PIPELINE VALVE THAT MIGHT BE REQUIRED DURING AN EMERGENCY AT INTERVALS OF NOT MORE THAN 6 1/2 MONTHS, BUT NOT LESS THAN TWICE EACH CALENDAR YEAR.
PART 5. RECORDS AND REPORTS

R 460.20502 Reports.
   Rule 502. (1) An operator or other person proposing to construct a gas metering or regulating facility, a gas treatment plant, a gas production plant, PIPELINE FACILITIES TO BE USED IN THE TRANSPORTATION OF SOUR GAS, a gas transmission line having THAT HAS a maximum operating pressure that will result in a hoop stress of 30% or more of specified minimum yield strength, or a gas compressor station connected to any part of a transmission line shall, not less than 60 days before starting construction, file all of the following data with the commission:
      (a) A map showing the proposed route of the line on a scale not less than 3/8 of an inch to 1 mile.
      (b) Engineering specifications covering the design, construction, materials, and testing and operating pressures.
      (c) Certification that the facilities will be in compliance with the requirements of these rules.
   (2) An application for a certificate of public convenience and necessity filed under Act No. 9 of the Public Acts of 1929, as amended, being §§ 1929 PA 9, MCL 483.101 et seq., of the Michigan Compiled Laws, meets the requirements of subrule (1) of this rule.
   (3) Within 60 days following the completion of construction and testing of facilities covered by subrules (1) and (2) of this rule, an operator shall file a report with the commission giving details of the test pressures applied and the dates of the tests, the results of the tests, including leaks and failures, and a route map of the “as-built” facility.

PART 6. ADOPTION OF STANDARDS

R 460.20601 Adoption by reference.
   Rule 601. (1) The publications listed in R 460.20603 to R 460.20606 are adopted by reference and are a part of these rules, except where they are inconsistent with these rules. Publications identified as published by a specific organization are available from the organization at the address ADDRESSES specified in R 460.20602. The public service commission also has copies of the publications available for inspection and distribution at cost at its offices located at 6545 Mercantile Way, Lansing, Michigan 48911. The mailing address is Michigan Public Service Commission, Gas Division, P.O. Box 30221, Lansing, Michigan 48909.
      (2) The numbers in parentheses following the publications adopted by reference indicate the applicable editions.

R 460.20602 Names, addresses, and phone numbers of organizations.
   Rule 602. The names, addresses, and phone numbers of organizations that sponsor or publish documents that have been adopted by reference in these rules are as follows:
      (a) American Petroleum Institute (API), 1220 L Street, NW, Washington, DC 20005, ((202) 682-8378)8000).
(b) American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, New York 10016-5990, ((212) 591-7000) or ((800) 843-2763), or contact its publishing division, 22 Law Drive, P.O. Box 2900, Fairfield, New Jersey, 07007, ((201) 973) 882-1167.

(c) National Association of Corrosion Engineers International (NACE), 4401 South Creek Drive, Houston, Texas 77084-4906, ((281) 228-6200).


R 460.20603 American petroleum institute standard; adoption by reference.

Rule 603. The following American petroleum institute standard is adopted by reference in these rules and is available at the price listed:

API standard 1104 entitled “Welding of Pipelines and Related Facilities,” (19th edition, 1999), at a cost as of the time of adoption of these rules of $188.00.

R 460.20604 American society of mechanical engineers standard; adoption by reference.

Rule 604. The following American society of mechanical engineers standard is adopted by reference in these rules and is available at the price listed:

ASME boiler and pressure code, section IX, entitled “Welding and Brazing Qualifications.” (2001 edition, 1999), at a cost as of the time of adoption of these rules of $295.00.

R 460.20605 National association of corrosion engineers international standard; adoption by reference.

Rule 605. The following national association of corrosion engineers international standard is adopted by reference in these rules and is available at the price listed:

NACE MR0175-98 MR0175-2002 entitled “Sulfide Stress Cracking Resistant Materials for Oilfield Equipment,” (1998 edition), at a cost as of the time of adoption of these rules of $60.00 or, if a member, $45.00.

R 460.20606 Office of pipeline safety, research and special programs administration standards; adoption by reference.

Rule 606. (1) The following office of pipeline safety, research and special programs administration standard is adopted by reference in these rules and is available at the price listed:


(2) The following office of pipeline safety, research and special programs administration standards are adopted by reference in these rules and are available at a cost as of the time of adoption of these rules of $18.00 for a single volume that contains all of the standards: