

Hazardous Liquids Pipeline Safety Rules



RAILROAD COMMISSION OF TEXAS

James E. (Jim) Nugent, Commissioner John Sharp, Commissioner Kent Hance, Commissioner

Published by **Gas Utilities Division**Carlos W. Higgins, Director

Pipeline Safety Section M. L. Fegenbush, Jr., P.E., C.S.P Director

Gas Utilities Division

P.O. Drawer 12967 Capitol Station Austin, Texas 78711-2967 Telephone (512) 463-7058

24 Hour Emergency Number for Reporting Pipeline Accidents (512) 447-2171

(Refer to Section III of this publication)

Includes 49 CFR 195 revisions through amendment 195-38.

Printed December, 1987

Hazardous Liquids Pipeline Safety Rules

Table of Contents

Introd	duction	v
Pipeli	ne Safety Regional Boundaries Map	vi
Pipeli	ne Safety Offices	vii
I.	49 CODE OF FEDERAL REGULATIONS PART 195— (Minimum Federal Standards for the Transportation of Hazardous Liquids by Pipeline)	5
II.	Title 16 Texas Administrative Code Sections 7.80 - 7.87 — (State Standards for Transportation of Hazardous Liquids by Pipeline)	37
III.	Emergency Reporting of Accidents— (24 Hour Telephonic Reporting Procedures and Required Accident Report Filings)	42
IV.	Forms.	47
V.	Vernon's Texas Codes Annotated, Volume 2, Natural Resources Code Sections 117.001 - 117.101 (Vernon Supp. 1987) Hazardous Liquid Pipeline Transportation Industry [New]	63
Index		67

THIS PAGE INTENTIONALLY LEFT BLANK

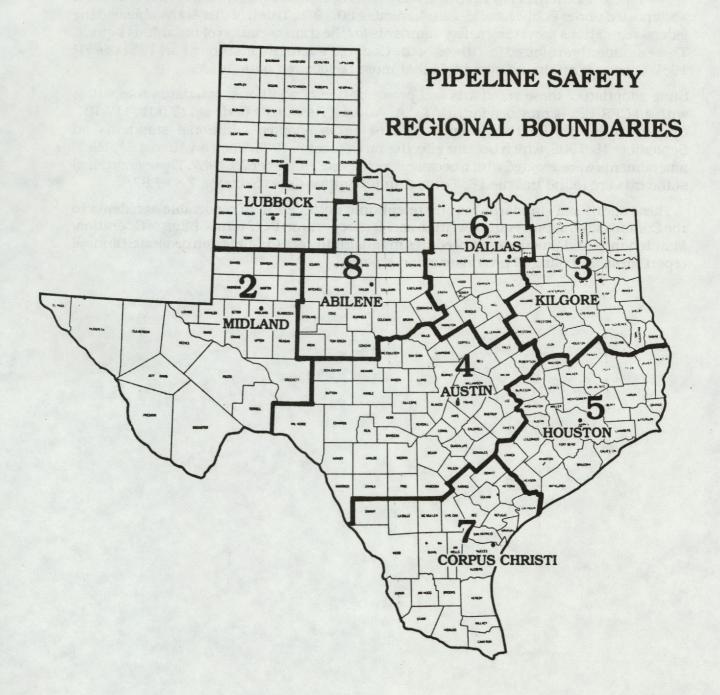
Introduction

This publication is a compilation of the state and federal rules, regulations and laws which were enacted to govern the transportation of hazardous liquids by pipeline in Texas. The material herein reproduced was compiled from various sources, and errors which may exist are not intentional.

The Pipeline Safety Act of 1979 amends the Natural Gas Pipeline Safety Act of 1968. It was enacted under Public Law 96-129, November 30, 1979. Title II of this Act established the federal regulations governing safety standards for the transportation of hazardous liquids. These standards are found in Title 49 of the Code of Federal Regulations, Part 195 (49 CFR 195). These are minimum standards that must be followed nationwide.

State adoption of these standards and promulgation of additional standards compatible with 49 CFR 195 is provided for in V.T.C.A., *Natural Resources Code* §§117.001 -117.101. Consequently, the Railroad Commission of Texas adopted additional standards on September 16, 1985, which became effective on October 8, 1985. Then on August 31, 1987, amendments were adopted which became effective on September 25, 1987. These additional standards are found in Title 16, *Texas Administrative Code*, Sections 7.80-7.87.

These additional standards require **telephonic notification of reportable accidents** to the Commission, submission of written accident reports on DOT forms, filing of Operation, Maintenance, and Emergency Procedures manual, filing of a Commission generated annual report form, and filing of preconstruction reports.



Pipeline Safety Offices

Headquarters: Wm. B. Travis Building 1701 North Congress P. O. Drawer 12967 Austin, TX 78711-2967	(512) 463-7058
Region 1: Lubbock 405 50th Street Lubbock TX 79404	(806) 744-7764
Region 2: Midland 2509 N. Big Spring P. O. Box 2110 Midland, TX 79702	(915) 684-5581
Region 3: Kilgore 619 Henderson Blvd. Kilgore, TX 75662	(214) 984-8581
Region 4: Austin 1701 N. Congress P. O. Drawer 12967 Austin, TX 78711-2967	(512) 463-7058
Region 5: Houston 13201 N.W. Freeway, Suite 701 Houston, TX 77040-6008	(713) 460-0635
Region 6: Dallas 6200 Maple Avenue, Suite 102 Dallas, TX 75235	(214) 357-4076
Region 7: Corpus Christi 10320 IH 37 P. O. Box 10307 Corpus Christi, TX 78410-0307	(512) 242-3117
Region 8: Abilene 241 Pine Street One Energy Square, Suite 17-LB Abilene, TX 79601	(915) 672-1371

THIS PAGE INTENTIONALLY LEFT BLANK

Part 195—Transportation of Hazardous Liquids by Pipeline

Subpart A—General

Sec.	
195.0	SCOPE.
195.1	APPLICABILITY.
195.2	DEFINITIONS.
195.3	MATTER INCORPORATED BY REFERENCE.
195.4	COMPATIBILITY NECESSARY FOR TRANSPORTATION OF HAZARDOUS LIQUIDS.
195.5	CONVERSION TO SERVICE SUBJECT TO THIS PART.
195.8	TRANSPORTATION OF HAZARDOUS LIQUIDS IN PIPELINES CONSTRUCTED WITH OTHER THAN STEEL PIPE.
195.10	RESPONSIBILITY OF OPERATOR FOR COMPLIANCE WITH THIS PART.
	Subpart B—Accident Reporting
195.50	SCOPE.
195.52	TELEPHONIC NOTICE OF CERTAIN ACCIDENTS.
195.54	ACCIDENT REPORTING.
195.58	CHANGES IN OR ADDITIONS TO ACCIDENT REPORT.
195.60	OPERATOR ASSISTANCE IN INVESTIGATION.
195.62	SUPPLIES OF ACCIDENT REPORT DOT FORM 7000-1.
195.63	OMB CONTROL NUMBER ASSIGNED TO INFORMATION COLLECTION.
	Subpart C—Design Requirements
195.100	SCOPE.
195.101	QUALIFYING METALLIC COMPONENTS OTHER THAN PIPE.
195.102	DESIGN TEMPERATURE.
195.104	VARIATIONS IN PRESSURE.
195.106	INTERNAL DESIGN PRESSURE.
195.108	EXTERNAL PRESSURE.
195.110	EXTERNAL LOADS.
195.112	NEW PIPE.
195.114	USED PIPE.
195.116	VALVES.
195.118	FILLINGS.
195.120	CHANGES IN DIRECTION: PROVISION FOR INTERNAL PASSAGE.
195.122	FABRICATED BRANCH CONNECTIONS.
	CLOSURES.
195.126	FLANGE CONNECTION.

195.128 STATION PIPING.

- 195.130 FABRICATED ASSEMBLIES.
- 195.132 ABOVE GROUND BREAKOUT TANKS.

Subpart D—Construction

- 195.200 SCOPE.
- 195.202 COMPLIANCE WITH SPECIFICATIONS OR STANDARDS.
- 195,204 INSPECTION—GENERAL.
- 195,206 MATERIAL INSPECTION.
- 195.208 WELDING OF SUPPORTS AND BRACES.
- 195.210 PIPELINE LOCATION.
- 195.212 BENDING OF PIPE.
- 195.214 WELDING: GENERAL.
- 195.216 WELDING: MITER JOINTS.
- 195.222 WELDERS: TESTING.
- 195,224 WELDING: WEATHER.
- 195,226 WELDING: ARC BURNS.
- 195.228 WELDS AND WELDING INSPECTION: STANDARDS OF ACCEPTABILITY.
- 195.230 WELDS: REPAIR OR REMOVAL OF DEFECTS.
- 195.234 WELDS: NONDESTRUCTIVE TESTING.
- 195.236 EXTERNAL CORROSION PROTECTION.
- 195.238 EXTERNAL COATING.
- 195.242 CATHODIC PROTECTION SYSTEM.
- 195.244 TEST LEADS.
- 195.246 INSTALLATION OF PIPE IN A DITCH.
- 195.248 COVER OVER BURIED PIPELINE.
- 195.250 CLEARANCE BETWEEN PIPE AND UNDERGROUND STRUCTURES.
- 195.252 BACKFILLING.
- 195.254 ABOVE GROUND COMPONENTS.
- 195.256 CROSSING OF RAILROADS AND HIGHWAYS.
- 195.258 VALVES: GENERAL.
- 195.260 VALVES: LOCATION.
- 195.262 PUMPING EQUIPMENT.
- 195.264 ABOVE GROUND BREAKOUT TANKS.
- 195.266 CONSTRUCTION RECORDS.

Subpart E-Hydrostatic Testing

- 195.300 SCOPE.
- 195.302 GENERAL REQUIREMENTS.
- 195.304 TESTING OF COMPONENTS.
- 195.306 TEST MEDIUM.
- 195.308 TESTING OF TIE-INS.
- 195.310 RECORDS.

Subpart F—Operation and Maintenance

195.400	SCOPE.
195.401	GENERAL REQUIREMENTS.
195.402	PROCEDURAL MANUAL FOR OPERATIONS, MAINTENANCE, AND
	EMERGENCIES.
195.403	TRAINING.
195.404	MAPS AND RECORDS.
195.406	MAXIMUM OPERATING PRESSURE.
195.408	COMMUNICATIONS.
195.410	LINE MARKERS.
195.412	INSPECTION OF RIGHTS-OF-WAY AND CROSSINGS UNDER NAVIGABLE
	WATERS.
195.414	CATHODIC PROTECTION.
195.416	EXTERNAL CORROSION CONTROL.
195.418	INTERNAL CORROSION CONTROL.
195.420	VALVE MAINTENANCE.
195.422	PIPELINE REPAIRS.
195.424	PIPE MOVEMENT.
195.426	SCRAPER AND SPHERE FACILITIES.
195.428	OVERPRESSURE SAFETY DEVICES.
195.430	FIREFIGHTING EQUIPMENT.
195.432	BREAKOUT TANKS.
195.434	SIGNS.
195.436	SECURITY OF FACILITIES.
195.438	SMOKING OR OPEN FLAMES.
195.440	PUBLIC EDUCATION.

APPENDIX A—DELINEATION BETWEEN FEDERAL AND STATE JURISDICTION—STATEMENT OF AGENCY POLICY AND INTERPRETATION.

THIS PAGE INTENTIONALLY LEFT BLANK

HORFA BARYANG THA YOU OF YOUR ON TO THE MEDATE

49 CFR 195 Regulations for Transportation of Hazardous Liquids by Pipeline Subpart A—General

AUTHORITY: 49 U.S.C. 2002; 49 CFR 1.53 and Appendix A to Part 1.

SOURCE: Amdt. 195-22, 46 FR 38360, July 27, 1981, unless otherwise noted.

EDITORIAL NOTE: Nomenclature changes to Part 195 appear at 50 FR 45733, Nov. 1, 1985.

§195.0 SCOPE.

This part prescribes safety standards and accident reporting requirements for pipeline facilities used in the transportation of hazardous liquids.

§195.1 APPLICABILITY.

- (a) Except as provided in paragraph (b) of this section, this part applies to pipeline facilities and the transportation of hazardous liquids associated with those facilities in or affecting interstate or foreign commerce, including pipeline facilities on the Outer Continental Shelf.
 - (b) This part does not apply to—
 - (1) Transportation of a hazardous liquid that is transported in a gaseous state;
 - (2) Transportation of a hazardous liquid through a pipeline by gravity;
 - (3) Transportation of a hazardous liquid through pipelines that operate at a stress level of 20 percent or less of the specified minimum yield strength of the line pipe;
 - (4) Transportation of petroleum in onshore gathering lines in rural areas;
 - (5) Transportation of a hazardous liquid in offshore pipelines which are located upstream from the outlet flange of each facility on the Outer Continental Shelf where hydrocar-

bons are produced or where produced hydrocarbons are first separated, dehydrated, or otherwise processed whichever facility is farther downstream;

- (6) Transportation of a hazardous liquid through onshore production, (including flow lines), refining, or manufacturing facilities or storage or in-plant piping systems associated with such facilities;
- (7) Transportation of a hazardous liquid by vessel, aircraft, tank truck, tank car, or other vehicle or terminal facilities used exclusively to transfer hazardous liquids between such modes of transportation.

[Amdt. 195-22 FR 38360, July 27, 1981, as amended by Amdt. 195-33, 50 FR 15898, Apr. 23, 1985; Amdt. 195-36, 51 FR 20976, June 10, 1986]

\$195.2 DEFINITIONS.

As used in this part-

"Barrel" means a unit of measurement equal to 42 U.S. standard gallons.

"Breakout tank" means a tank used to (a) relieve surges in a hazardous liquid pipeline system or (b) receive and store hazardous liquid transported by a pipeline for reinjection and continued transportation by pipeline.

"Component" means any part of a pipeline which may be subjected to pump pressure including, but not limited to, pipe, valves, elbows, tees, flanges, and closures.

"Gathering line" means a pipeline 8 inches or less in nominal diameter that transports petroleum from a production facility.

"Hazardous liquid" means petroleum, petroleum products, or anhydrous ammonia.

"Highly volatile liquid" or "HVL" means a hazardous liquid which will form a vapor cloud when released to the atmosphere and which has a vapor pressure exceeding 276 kPa (40 psia) at 37.8° C (100° F).

"Interstate pipeline" means a pipeline or that part of a pipeline that is used in the transportation of hazardous liquids in interstate or foreign commerce.

"Intrastate pipeline" means a pipeline or that part of a pipeline to which this part applies that is not an interstate pipeline.

"Line section" means a continuous run of pipe between adjacent pressure pump stations, between a pressure pump station and terminal or breakout tanks, between a pressure pump station and a block valve, or between adjacent block valves.

"Nominal wall thickness" means the wall thickness listed in the pipe specifications.

"Offshore" means beyond the line of ordinary low water along that portion of the coast of the United States that is in direct contact with the open seas and beyond the line marking the seaward limit of inland waters.

"Operator" means a person who owns or operates pipeline facilities.

"Person" means any individual firm, joint venture, partnership, corporation, association, state, municipality, cooperative association, or joint stock association, and includes any trustee, receiver, assignee, or personal representative thereof.

"Pipe" or "line pipe" means a tube, usually cylindrical, through which a hazardous liquid flows from one point to another.

"Pipeline" or "pipeline system" means all parts of a pipeline facility through which a hazardous liquid moves in transportation, including, but not limited to, line pipe, valves and other appurtenances connected to line pipe, pumping units, fabricated assemblies associated with pumping units, metering and delivery stations and fabricated assemblies therein, and breakout tanks.

"Pipeline facility" means new and existing pipe, rights-of-way, and any equipment, facility, or building used in the transportation of hazardous liquids.

"Production facility" means piping or equipment used in the production, extraction, recovery, lifting, stabilization, separation or treating of petroleum or associated storage or measurement. (To be a production facility under this definition, piping or equipment must be used in the process of extracting petroleum from the ground and preparing it for transportation by pipeline.)

"Rural area" means outside the limits of any incorporated or unincorporated city, town, village, or any other designated residential or commercial area such as a subdivision, a business or shopping center, or community development.

"Secretary" means the Secretary of Transportation or any person to whom he has delegated authority in the matter concerned.

"Specified minimum yield strength" means the minimum yield strength, expressed in pounds per square inch, prescribed by the specification under which the material is purchased from the manufacturer.

"Stress level" means the level of tangential or hoop stress, usually expressed as a percentage of specified minimum yield strength.

"Surge pressure" means pressure produced by a change in velocity of the moving stream that results from shutting down a pump station or pumping unit, closure of a valve, or any other blockage of the moving stream.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982, as amended by Amdt. 195-33, 50 FR 15898, Apr. 23, 1985; 50 FR 38660, Sept. 24, 1985; Amdt. 195-36, 51 FR 15007, Apr. 22, 1986]

§195.3 MATTER INCORPORATED BY REFERENCE.

- (a) There are incorporated by reference in this part all materials referred to in this part. Those materials are hereby made a part of this regulation. Applicable editions are listed in paragraph (c) of this section in parentheses following the title of the referenced material. Earlier editions listed in previous editions of this section may be used for components manufactured, designed, or installed in accordance with those earlier editions at the time they were listed. The user must refer to the appropriate previous edition of 49 CFR for a listing of the earlier listed editions.
- (b) All incorporated materials are available for inspection in the Research and Special Programs Administration, Washington, D.C., and at the Office of the Federal Register, 1100 L Street, N.W., Washington, D.C. These materials have been approved for incorporation by reference by the Director of the Federal Register. In addition, materials incorporated by reference are available as follows:
 - (1) American Petroleum Institute (API), 2101 L Street, N.W., Washington, D.C. 20037, or 211 North Ervay, Suite 1700, Dallas, Texas 75201.
 - (2) The American Society of Mechanical Engineers (ASME), United Engineering Center, 345 East 47th Street, New York, N.Y. 10017.
 - (3) Manufacturers Standardization Society of the Valve and Fittings Industry (MSS), 5203 Leesburg Pike, Suite 502, Falls Church, Va. 22041.

- (4) American National Standards Institute (ANSI), 1430 Broadway, New York, N.Y. 10018.
- (5) American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, Pa. 19103.
- (c) The full title for the publications incorporated by reference in this part are as follows:
 - (1) American Petroleum Institute:
 - (i) API Specification 6D "API Specification for Pipeline Valves," which may be obtained from the Dallas office (1977).
 - (ii) API Specification 1104 "Standard for Welding Pipe Lines and Related Facilities" (1980).
 - (iii) API Specification 5L "API Specification for Line Pipe" (1985).
 - (2) American Society of Mechanical Engineers:
 - (i) ASME Boiler and Pressure Vessel Code, Section VIII, "Pressure Vessels Division 1" (1977).
 - (ii) ASME Boiler and Pressure Vessel Code, Section IX, "Welding Qualifications" (1977).
 - (3) Manufacturers Standardization Society of the Valve and Fitting Industry:

MSS SP-75, Specification for High-Test Wrought Weldings Fittings (1976).

- (4) American National Standards Institute:
 - (i) ANSI B16.9 "Factory Made Wrought Steel Butt-Welding Fittings" (1978).

- (ii) ANSI B31.4 "Liquid Petroleum Transportation Piping Systems" (1979).
- (5) American Society for Testing and Materials:
 - (i) ASTM Specification A53 "Standard Specification for Welded and Seamless Steel Pipe" (1979).
 - (ii) ASTM Specification A106 "Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service" (1979b).
 - (iii) ASTM Specification A134 "Standard Specification for Electric-Fusion (Arc)-Welded Steel Plate Pipe, Size 16 in. and Over" (1974).
 - (iv) ASTM Specification A135 "Standard Specification for Electric-Resistance Welded Steel Pipe" (1979).
 - (v) ASTM Specification A139 "Standard Specification for Electric-Fusion (Arc)-Welded Steel Pipe, Sizes 4 inch and over" (1974).
 - (vi) ASTM Specification A671 "Electric-Fusion-Welded Steel Pipe For Atmospheric and Lower Temperatures" (1977).
 - (vii) ASTM Specification A672 "Electric-Fusion-Welded Steel Pipe For High Pressure ServiceatModerateTemperatures" (1979).
 - (viii) ASTM Specification A691 "Carbon and Alloy Steel Pipe Electric-Fusion-Welded For High Pressure Service At High Temperatures" (1979).
 - (ix) ASTM Specification A211 "Standard Specification

- for Spiral-Welded Steel or Iron Pipe" (1975).
- (x) ASTM Specification A333 "Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service" (1979).
- (xi) ASTM Specification A381 "Standard Specification for Metal-Arc-Welded Steel Pipe for High Pressure Transmission Systems" (1979).

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982, as amended by Amdt. 195-32, 49 FR 36860, Sept. 20, 1984; Amdt. 195-37, 51 FR 15335, Apr. 23, 1986]

§195.4 COMPATIBILITY NECESSARY FOR TRANSPORTATION OF HAZARDOUS LIQUIDS.

No person may transport any hazardous liquid unless the hazardous liquid is chemically compatible with both the pipeline, including all components, and any other commodity that it may come into contact with while in the pipeline.

§195.5 CONVERSION TO SERVICE SUBJECT TO THIS PART.

- (a) A steel pipeline previously used in service not subject to this part qualifies for use under this part if the operator prepares and follows a written procedure to accomplish the following:
 - (1) The design, construction, operation, and maintenance history of the pipeline must be reviewed and, where sufficient historical records are not available, appropriate tests must be performed to determine if the pipeline is in a satisfactory condition for safe operation.
 - (2) The pipeline right-of-way, all aboveground segments of the pipeline, and appropriately selected underground segments must be visually

inspected for physical defects and operating conditions which reasonably could be expected to impair the strength or tightness of the pipeline.

- (3) All known unsafe defects and conditions must be corrected in accordance with this part.
- (4) The pipeline must be tested in accordance with the Subpart E of this part to substantiate the maximum allowable operating pressure permitted by \$195.406.
- (b) A pipeline which qualifies for use under this section need not comply with the corrosion control requirements of this part until 12 months after it is placed in service, notwithstanding any earlier deadlines for compliance. In addition to the requirements of Subpart F of this part, the corrosion control requirements of Subpart D apply to each pipeline which substantially meets those requirements before it is placed in service or which is a segment that is replaced, relocated, or substantially altered.
- (c) Each operator must keep for the life of the pipeline a record of the investigations, tests, repairs, replacements, and alterations made under the requirements of paragraph (a) of this section.

§195.8 TRANSPORTATION OF HAZARD-OUS LIQUIDS IN PIPELINES CONSTRUCTED WITH OTHER THAN STEEL PIPE.

No person may transport any hazardous liquid through a pipe that is constructed after October 1, 1970, of material other than steel unless the person has notified the Secretary in writing at least 90 days before the transportation is to begin. The notice must state the chemical name, common name, properties, and characteristics of the hazardous liquid to be transported and the material used in construction of the pipeline. If the Secretary determines that the transportation of the hazardous liquid in the man-

ner proposed would be unduly hazardous, he will, within 90 days after receipt of the notice order the person that gave the notice, in writing, not to transport the hazardous liquid in the proposed manner until further notice.

§195.10 RESPONSIBILITY OF OPERA-TOR FOR COMPLIANCE WITH THIS PART.

An operator may make arrangements with another person for the performance of any action required by this part. However, the operator is not thereby relieved from the responsibility for compliance with any requirement of this part.

Subpart B—Accident Reporting \$195.50 SCOPE.

This subpart prescribes rules governing the reporting of any failure in a pipeline system subject to this part in which there is a release of the hazardous liquid transported resulting in any of the following:

- (a) Explosion or fire not intentionally set by the operator.
 - (b) Loss of 50 or more barrels of liquid.
- (c) Escape to the atmosphere of more than five barrels a day of highly volatile liquids.
 - (d) Death of any person.
- (e) Bodily harm to any person resulting in one or more of the following:
 - (1) Loss of consciousness.
 - (2) Necessity to carry the person from the scene.
 - (3) Necessity for medical treatment.
 - (4) Disability which prevents the discharge of normal duties or the pursuit of normal activities beyond the day of the accident.
- (f) Estimated property damage to the property of the operator or others, or both, exceeding \$5,000.

§195.52 TELEPHONIC NOTICE OF CERTAIN ACCIDENTS.

- (a) At the earliest practicable moment following discovery of a release of the hazardous liquid transported resulting in an event described in \$195.50, the operator of the system shall give notice, in accordance with paragraph (b) of this section, of any failure that—
 - (1) Caused a death or a personal injury requiring hospitalization;
 - (2) Resulted in either a fire or explosion not intentionally set by the operator;
 - (3) Caused estimated damage to the property of the operator or others, or both, exceeding \$5,000;
 - (4) Resulted in pollution of any stream, river, lake, reservoir, or other similar body of water that violated applicable water quality standards, caused a discoloration of the surface of the water or adjoining shoreline, or deposited a sludge or emulsion beneath the surface of the water or upon adjoining shorelines; or
 - (5) In the judgment of the operator was significant even though it did not meet the criteria of any other paragraph of this section.
- (b) Reports made under paragraph (a) of this section are made by telephone to 800-424-8802 (in Washington, D.C., 462-2675) and must include the following information:
 - (1) Name and address of the operator.
 - (2) Name and telephone number of the reporter.
 - (3) The location of the failure.
 - (4) The time of the failure.
 - (5) The fatalities and personal injuries, if any.
 - (6) All other significant facts known by the operator that are rele-

vant to the cause of the failure or extent of the damages.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended at 47 FR 32720, July 29, 1982]

§195.54 ACCIDENT REPORTING.

Each operator that experiences an accident that is required to be reported under this subpart shall, as soon as practicable but not later than 30 days after discovery of the accident, prepare and file an accident report, on DOT Form 7000-1 or a facsimile, with the Information Resources Manager, Office of Pipeline Safety, Department of Transportation, Washington, D.C. 20590. The operator shall file two copies of each report and shall retain one copy at its principal place of business. However, reports for intrastate pipelines subject to the jurisdiction of a State agency pursuant to certification under Section 205 of the Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. 2004) may be submitted in duplicate to that State agency if the regulations of that agency require submission of these reports and provide for further transmittal of one copy within 10 days of receipt to the Information Resources Manager.

[Amdt. 195-34, 50 FR 34474, Aug. 26, 1985]

§195.58 CHANGES IN OR ADDITIONS TO ACCIDENT REPORT.

Whenever an operator receives any changes in the information reported or additions to the original report on DOT Form 7000-1 it shall file a supplemental report within 30 days with the Information Resources Manager, Office of Pipeline Safety, Department of Transportation, Washington, D.C. 20590. However, reports for intrastate pipelines subject to the jurisdiction of a State agency pursuant to certification under Section 205 of the Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. 2004) may be submitted

in duplicate to that State agency if the regulations of that agency require submission of these reports and provide for further transmittal of one copy within 10 days of receipt to the Information Resources Manager.

[Amdt. 195-34, 50 FR 34474, Aug. 26, 1985]

§195.60 OPERATOR ASSISTANCE IN INVESTIGATION.

If the Department of Transportation investigates an accident, the operator involved shall make available to the representative of the Department all records and information that in any way pertain to the accident, and shall afford all reasonable assistance in the investigation of the accident.

§195.62 SUPPLIES OF ACCIDENT REPORT DOT FORM 7000-1.

Each operator shall maintain an adequate supply of forms that are a facsimile of DOT Form 7000-1 to enable it to promptly report accidents. The Department will, upon request, furnish specimen copies of the form. Requests should be addressed to the Information Resources Manager, Office of Pipeline Safety Department of Transportation, Washington, D.C. 20590.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended at 47 FR 32720, July 29, 1982]

§195.63 OMB CONTROL NUMBER ASSIGNED TO INFORMATION COLLECTION.

The control number assigned by the Office of Management and Budget to the hazardous liquid pipeline information collection requirements of this part pursuant to the Paperwork Reduction Act of 1980 is 2137-0047.

[Amdt. 195-34, 50 FR 34474, Aug. 26, 1985]

Subpart C—Design Requirements

§195.100 SCOPE.

This subpart prescribes minimum design requirements for new pipeline systems constructed with steel pipe and for relocating, replacing, or otherwise changing existing systems constructed with steel pipe. However, it does not apply to the movement of line pipe covered by \$195.424.

g195.101 QUALIFYING METALLIC COM-PONENTS OTHER THAN PIPE.

Notwithstanding any requirement of the subpart which incorporates by reference an edition of a document listed in \$195.3, a metallic component other than pipe manufactured in accordance with any other edition of that document is qualified for use 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 §195.3:
 - (1) Pressure testing;
 - (2) Materials: and
 - (3) Pressure and temperature ratings.

[Amdt. 195-28, 48 FR 30639, July 5, 1983]

§195.102 DESIGN TEMPERATURE.

Materials for components of the system must be chosen for the temperature environment in which the components will be used so that the pipeline will maintain its structural integrity.

§195.104 VARIATIONS IN PRESSURE.

If, within a pipeline system, two or more components are to be connected at a place where one will operate at a higher pressure than another, the system must be designed so that any component operating at the lower pressure will not be overstressed.

§195.106 INTERNAL DESIGN PRESSURE.

(a) Internal design pressure for the pipe in a pipeline is determined in accordance with the following formula:

P = (2 St/D)xExF

- P= Internal design pressure in pounds per square inch gauge.
- S = Yield strength in pounds per square inch determined in accordance with paragraph (b) of this section.
- t = Nominal wall thickness of the pipe in inches. If this is unknown, it is determined in accordance with paragraph (c) of this section.
- D=Nominal outside diameter of the pipe in inches.
- E = Seam joint factor determined in accordance with paragraph (e) of this section.
- F = A design factor of 0.72, except that a design factor of 0.60 is used for pipe, including risers, on a platform located offshore or on a platform in inland navigable waters, and 0.54 is used for pipe that has been subjected to cold expansion to meet the specified minimum yield strength and is subsequently heated, other than by welding or stress relieving as a part of welding, to a temperature higher than 900° F (482° C) for any period of time or over 600° F (316° C) for more than 1 hour.

(b) The yield strength to be used in determining internal design pressure under paragraph (a) of this section is the specified minimum yield strength. If the specified minimum yield strength is not known, the yield strength is determined by performing all of the tensile tests of API Specification 5L on randomly selected test specimens with the following number of tests:

Pipe size	Number of tests
Less than 6 inches in	One test for each 200
outside diameter.	lengths.
6 inches through 12 3/4 inches in outside diameter.	one test for each 100 lengths.
Larger than 12 3/4 inches in outside diameter	One test for each 50 lengths.

If the average yield-tensile ratio exceeds 0.85, the yield strength of the pipe is taken as 24,000 p.s.i. If the average yield-tensile ratio is 0.85 or less the yield strength of the pipe is taken as the lower of the following:

- (1) Eighty percent of the average yield strength determined by the tensile tests.
- (2) The lowest yield strength determined by the tensile tests.
- (c) If the nominal wall thickness to be used in determining internal design pressure under paragraph (a) of this section is not known, it is determined by measuring the thickness of each piece of pipe at quarter points on one end. However, if the pipe is of uniform grade, size, and thickness, only 10 individual lengths or 5 percent of all lengths, whichever is greater, need be measured. The thickness of the lengths that are not measured must be verified by applying a gage set to the minimum thickness found by the measurement. The nominal wall thickness to be used is the next wall thickness found in commercial specifications that is below the average of all the measurements taken. However, the nominal wall thickness may not be more than 1.14 times the

smallest measurement taken on pipe that is less than 20 inches in outside diameter, nor more than 1.11 times the smallest measurement taken on pipe that is 20 inches or more in outside diameter.

(d) The minimum wall thickness of the pipe may not be less than 87.5 percent of the value used for nominal wall thickness in determining the internal design pressure under paragraph (a) of this section. In addition, the anticipated external loads and external pressures that are concurrent with internal pressure must be considered in accordance with \$\frac{1}{2}\$\$108 and 195.110 and, after determining the internal design pressure, the nominal wall thickness must be increased as necessary to compensate for these concurrent loads and pressures.

(e) The seam joint factor used in paragraph (a) of this section is determined in accordance with the following table:

Specification	Pipe Class	Seam Joint Factor
ASTM A 53	Seamless	1.00
	Electric resistance welded	1.00
	Furnace lap welded	0.80
	Furnace butt welded	0.60
ASTM A 106	Seamless	1.00
ASTM A134	Electric fusion arc welded	0.80
ASTM A135	Electric resistance welded	1.00
ASTM A139	Electric fusion welded	0.80
ASTM A211	Spiral welded pipe	0.80
ASTM A333	Seamless	1.00
	Welded	1.00
ASTM A381	Double submerged arc welded	1.00
ASTM A671	Electric-fusion-welded	1.00
ASTM A672	Electric-fusion-welded	1.00
ASTM A691	Electric-fusion-welded	1.00
API 5L	Seamless	1.00
	Electric resistance welded	1.00
	Electric flash welded	1.00
	Submerged arc welded	1.00
	Furnace lap welded	0.80
	Furnace butt welded	0.60

The seam joint factor for pipe which is not covered by this paragraph must be approved by the Secretary.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982, as amended by Amdt. 195-30, 49 FR 7569, Mar. 1, 1984; Amdt. 195-37, 51 FR 15335, Apr. 23, 1986]

§195.108 EXTERNAL PRESSURE.

Any external pressure that will be exerted on the pipe must be provided for in designing a pipeline system.

§195.110 EXTERNAL LOADS.

- (a) Anticipated external loads (e.g.), earthquakes, vibration, thermal expansion, and contraction must be provided for in designing a pipeline system. In providing for expansion and flexibility, Section 419 of ANSI B31.4 must be followed.
- (b) The pipe and other components must be supported in such a way that the support does not cause excess localized stresses. In designing attachments to pipe, the added stress to the wall of the pipe must be computed and compensated for.

§195.112 NEW PIPE.

Any new pipe installed in a pipeline system must comply with the following:

- (a) The pipe must be made of steel of the carbon, low alloy-high strength, or alloy type that is able to withstand the internal pressures and external loads and pressures anticipated for the pipeline system.
- (b) The pipe must be made in accordance with a written pipe specification that sets forth the chemical requirements for the pipe steel and mechanical tests for the pipe to provide pipe suitable for the use intended.
- (c) Each length of pipe with an outside diameter of 4 inches or more must be marked on the pipe or pipe coating with the specification to which it was made, the specified minimum yield strength or grade, and the pipe size. The marking must be applied in a manner that does not damage the pipe or pipe coating and must remain visible until the pipe is installed.

§195.114 USED PIPE.

Any used pipe installed in a pipeline

system must comply with §195.112(a) and (b) and the following:

- (a) The pipe must be of a known specification and the seam joint factor must be determined in accordance with §195.106(e). If the specified minimum yield strength or the wall thickness is not known, it is determined in accordance with §195.106(b) or (c) as appropriate.
 - (b) There may not be any-
 - (1) Buckles;
 - (2) Cracks, grooves, gouges, dents or other surface defects that exceed the maximum depth of such a defect permitted by the specification to which the pipe was manufactured; or
 - (3) Corroded areas where the remaining wall thickness is less than the minimum thickness required by the tolerances in the specification to which the pipe was manufactured.

However, pipe that does not meet the requirements of paragraph (b)(3) of this section may be used if the operating pressure is reduced to be commensurate with the remaining wall thickness.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982]

§195.116 VALVES.

Each valve installed in a pipeline system must comply with the following:

- (a) The valve must be of a sound engineering design.
- (b) Materials subject to the internal pressure of the pipeline system, including welded and flanged ends, must be compatible with the pipe or fittings to which the valve is attached.
- (c) Each part of the valve that will be in contact with the hazardous liquid stream must be made of materials that are compatible with each hazardous liquid that it is

anticipated will flow through the pipeline system.

- (d) Each valve must be both hydrostatically shell tested and hydrostatically seat tested without leakage to at least the requirements set forth in Section 5 of API Standard 6D.
- (e) Each valve other than a check valve must be equipped with a means for clearly indicating the position of the valve (open, closed, etc.).
- (f) Each valve must be marked on the body or the nameplate, with at least the following:
 - (1) Manufacturer's name or trademark.
 - (2) Class designation or the maximum working pressure to which the valve may be subjected;
 - (3) Body material designation (the end connection material, if more than one type is used).
 - (4) Nominal valve size.

\$195.118 FITTINGS.

- (a) Butt-welding type fittings must meet the marking, end preparation, and the bursting strength requirements of ANSI B16.9 or MSS Standard Practice SP-75.
- (b) There may not be any buckles, dents, cracks, gouges, or other defects in the fitting that might reduce the strength of the fitting.
- (c) The fitting must be suitable for the intended service and be at least as strong as the pipe and other fittings in the pipeline system to which it is attached.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982]

§195.120 CHANGES IN DIRECTION: PROVISION FOR INTERNAL PASSAGE.

Each component of a main line system, other than manifolds, that change

direction within the pipeline system must have a radius of turn that readily allows the passage of pipeline scrapers, spheres, and internal inspection equipment.

§195.122 FABRICATED BRANCH CONNECTIONS.

Each pipeline system must be designed so that the addition of any fabricated branch connections will not reduce the strength of the pipeline system.

§195.124 CLOSURES.

Each closure to be installed in a pipeline system must comply with the ASME Boiler and Pressure Vessel Code, Section VIII, Pressure Vessels, Division 1, and must have pressure and temperature ratings at least equal to those of the pipe to which the closure is attached.

§195.126 FLANGE CONNECTION.

Each component of a flange connection must be compatible with each other component and the connection as a unit must be suitable for the service in which it is to be used.

\$195.128 STATION PIPING.

Any pipe to be installed in a station that is subject to system pressure must meet the applicable requirements of this subpart.

§195.130 FABRICATED ASSEMBLIES.

Each fabricated assembly to be installed in a pipeline system must meet the applicable requirements of this subpart.

§195.132 ABOVE GROUND BREAKOUT TANKS.

Each above ground breakout tank must be designed to withstand the internal pressure produced by the hazardous liquid to be stored therein and any anticipated external loads.

Subpart D—Construction

§195.200 SCOPE.

This subpart prescribes minimum requirements for constructing new pipeline systems with steel pipe, and for relocating, replacing, or otherwise changing existing pipeline systems that are constructed with steel pipe. However, this subpart does not apply to the movement of pipe covered by §195.424.

§195.202 COMPLIANCE WITH SPECIFICATIONS OR STANDARDS.

Each pipeline system must be constructed in accordance with comprehensive written specifications or standards that are consistent with the requirements of this part.

§195.204 INSPECTION—GENERAL.

Inspection must be provided to ensure the installation of pipe or pipeline systems in accordance with the requirements of this subpart. No person may be used to perform inspections unless that person has been trained and is qualified in the phase of construction he is to inspect.

§195.206 MATERIAL INSPECTION.

No pipe or other component may be installed in a pipeline system unless it has been visually inspected at the site of installation to ensure that it is not damaged in a manner that could impair its strength or reduce its serviceability.

§195.208 WELDING OF SUPPORTS AND BRACES.

Supports or braces may not be welded directly to pipe that will be operated at a pressure of more than 100 p.s.i.g.

§195.210 PIPELINE LOCATION.

(a) Pipeline right-of-way must be selected to avoid, as far as practicable, areas

containing private dwellings, industrial buildings, and places of public assembly.

(b) No pipeline may be located within 50 feet of any private dwelling, or any industrial building or place of public assembly in which persons work, congregate, or assemble, unless it is provided with at least 12 inches of cover in addition to that prescribed in §195.248.

§195.212 BENDING OF PIPE.

- (a) Pipe must not have a wrinkle bend.
- (b) Each field bend must comply with the following:
 - (1) A bend must not impair the serviceability of the pipe.
 - (2) Each bend must have a smooth contour and be free from buckling, cracks, or any other mechanical damage.
 - (3) On pipe containing a longitudinal weld, the longitudinal weld must be as near as practicable to the neutral axis of the bend unless—
 - (i) The bend is made with an internal bending mandrel; or
 - (ii) The pipe is 12 inches or less in outside diameter or has a diameter to wall thickness ratio less than 70.
- (c) Each circumferential weld which is located where the stress during bending causes a permanent deformation in the pipe must be nondestructively tested either before or after the bending process.

§195.214 WELDING: GENERAL

- (a) Welding must be performed by a qualified welder in accordance with welding procedures qualified to produce welds meeting the requirements of this subpart. The quality of the test welds used to qualify the procedure shall be determined by destructive testing.
 - (b) Each welding procedure must be

recorded in detail including the results of the qualifying tests. This record must be retained and followed whenever the procedure is used.

[Amdt. 195-38, 51 FR 20297, June 4, 1986]

§195.216 WELDING: MITER JOINTS.

A miter joint is not permitted (not including deflections up to 3 degrees that are caused by misalignment).

§195.222 WELDERS: QUALIFICATION OF WELDERS.

Each welder must be qualified in accordance with section 3 of API Standard 1104 or section IX of the ASME Boiler and Pressure Vessel Code, except that a welder qualified under an earlier edition than listed in §195.3 may weld but may not requalify under that earlier edition.

[Amdt. 195-32, 49 FR 36860, Sept. 20, 1984, as amended by Amdt. 195-38, 51 FR 20297, June 4, 1986]

8195.224 WELDING: WEATHER.

Welding must be protected from weather conditions that would impair the quality of the completed weld.

§195.226 WELDING: ARC BURNS.

- (a) Each arc burn must be repaired.
- (b) An arc burn may be repaired by completely removing the notch by grinding, if the grinding does not reduce the remaining wall thickness to less than the minimum thickness required by the tolerances in the specification to which the pipe is manufactured. If a notch is not repairable by grinding, a cylinder of the pipe containing the entire notch must be removed.
- (c) A ground may not be welded to the pipe or fitting that is being welded.

§195.228 WELDS AND WELDING INSPECTION: STANDARDS OF ACCEPTABILITY.

- (a) Each weld and welding must be inspected to insure compliance with the requirements of this subpart. Visual inspection must be supplemented by non-destructive testing.
- (b) The acceptability of a weld is determined according to the standards in section 6 of API Standard 1104.

§195.230 WELDS: REPAIR OR REMOVAL OF DEFECTS.

- (a) Each weld that is unacceptable under \$195.228 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 8 percent of the weld length.
- (b) Each weld that is repaired must have the defect removed down to 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 ensure its acceptability.
- (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 \$195.214. 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.

[Amdt. 195-29, 48 FR 48674, Oct. 20, 1983]

§195.234 WELDS: NONDESTRUCTIVE TESTING.

(a) A weld may be nondestructively tested by any process that will clearly indicate any defects that may affect the integrity of the weld.

- (b) Any nondestructive testing of welds must be performed—
 - (1) In accordance with a written set of procedures for nondestructive testing; and
 - (2) With personnel that have been trained in the established procedures and in the use of the equipment employed in the testing.
- (c) Procedures for the proper interpretation of each weld inspection must be established to ensure the acceptability of the weld under §195.228.
- (d) During construction, at least 10 percent of the girth welds made by each welder during each welding day must be nondestructively tested over the entire circumference of the weld.
- (e) 100 percent of each day's girth welds installed in the following locations must be nondestructively tested 100 percent unless impracticable, in which case at least 90 percent must be tested. Nondestructive testing must be impracticable for each girth weld not tested:
 - (1) At any onshore location where a loss of hazardous liquid could reasonably be expected to pollute any stream, river, lake, reservoir, or other body of water, and any offshore area:
 - (2) Within railroad or public road rights-of-way;
 - (3) At overhead road crossings and within tunnels;
 - (4) Within the limits of any incorporated subdivision of a state government; and
 - (5) Within populated areas, including but not limited to, residential subdivisions, shopping centers, schools, designated commercial areas, industrial facilities, public institutions, and places of public assembly.
 - (f) When installing used pipe, 100 per-

cent of the old girth welds must be nondestructively tested.

(g) At pipeline tie-ins 100 percent of the girth welds must be nondestructively tested.

[Amdt. 195-22. 46 FR 38360, July 27, 1981, as amended by Amdt. 195-35, 50 FR 37192, Sept. 21, 1985]

§195.236 EXTERNAL CORROSION PROTECTION.

Each component in the pipeline system must be provided with protection against external corrosion.

§195.238 EXTERNAL COATING.

- (a) No pipeline system component may be buried or submerged unless that component has an external protective coating that—
 - (1) Is designed to mitigate corrosion of the buried or submerged component;
 - (2) Has sufficient adhesion to the metal surface to prevent underfilm migration of moisture;
 - (3) Is sufficiently ductile to resist cracking;
 - (4) Has enough strength to resist damage due to handling and soil stress; and
 - (5) Supports any supplemental cathodic protection.

In addition, if an insulating-type coating is used it must have low moisture absorption and provide high electrical resistance.

(b) All pipe coating must be inspected just prior to lowering the pipe into the ditch or submerging the pipe, and any damage discovered must be repaired.

§195.242 CATHODIC PROTECTION SYSTEM.

(a) A cathodic protection system must be installed for all buried or submerged facilities to mitigate corrosion that might result in structural failure. A test procedure must be developed to determine whether adequate cathodic protection has been achieved.

(b) A cathodic protection system must be installed not later than 1 year after completing the construction.

§195.244 TEST LEADS.

- (a) Except for offshore pipelines, electrical test leads used for corrosion control or electrolysis testing must be installed at intervals frequent enough to obtain electrical measurements indicating the adequacy of the cathodic protection.
- (b) Test leads must be installed as follows:
 - (1) Enough looping or slack must be provided to prevent test leads from being unduly stressed or broken during backfilling.
 - (2) Each lead must be attached to the pipe so as to prevent stress concentration on the pipe.
 - (3) Each lead installed in a conduit must be suitably insulated from the conduit.

§195.246 INSTALLATION OF PIPE IN A DITCH.

- (a) All pipe installed in a ditch must be installed in a manner that minimizes the introduction of secondary stresses and the possibility of damage to the pipe.
- (b) All offshore pipe in water at least 12 feet deep but not more than 200 feet deep, as measured from the mean low tide, must be installed so that the top of the pipe is below the natural bottom unless the pipeline is supported by stanchions, held in place by anchors or heavy concrete coating, or an equivalent level of protection is provided.

§195.248 COVER OVER BURIED PIPELINE.

(a) Unless specifically exempted in this subpart, all pipe must be buried so that it is buried below the level of cultivation. Except as provided in paragraph (b) of this section, the pipe must be installed so that the cover between the top of the pipe and the ground level, road bed, river bottom, or sea bottom, as applicable, complies with the following table:

	Cover (inches)	
Location	For normal exca- vation	For rock exca- vation ¹
ndustrial, commercial, and residential		
areas	36	30
Crossings of inland bodies of water with a width of at least 100 ft. from		
high water mark to high water mark.	48	18
Prainage ditches at public roads and		
railroads	36	36
Deepwater port safety zone	48	24
Other offshore areas under water less than 12 ft-deep as measured from the		
mean low tide	36	18
any other areas	30	18

1Rock excavation is any excavation that requires blasting or removal by equivalent means.

- (b) Less cover than the minimum required by paragraph (a) of this section and section 195.210 may be used if—
 - (1) It is impracticable to comply with the minimum cover requirements; and
 - (2) Additional protection is provided that is equivalent to the minimum required cover.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982]

§195.250 CLEARANCE BETWEEN PIPE AND UNDERGROUND STRUCTURES.

Any pipe installed underground must have at least 12 inches of clearance between the outside of the pipe and the extremity of any other underground structure, except that for drainage tile the minimum clearance may be less than 12 inches but not less than 2 inches. However, where 12 inches of clearance is impracticable, the clearance may be reduced if adequate provisions are made for corrosion control.

§195.252 BACKFILLING.

Backfilling must be performed in a manner that protects any pipe coating and provides firm support for the pipe.

§195.254 ABOVE GROUND COMPONENTS.

- (a) Any component may be installed above ground in the following situations, if the other applicable requirements of this part are complied with:
 - (1) Overhead crossings of highways, railroads, or a body of water.
 - (2) Spans over ditches and gullies.
 - (3) Scraper traps or block valves.
 - (4) Areas under the direct control of the operator.
 - (5) In any area inaccessible to the public.
- (b) Each component covered by this section must be protected from the forces exerted by the anticipated loads.

§195.256 CROSSING OF RAILROADS AND HIGHWAYS.

The pipe at each railroad or highway crossing must be installed so as to adequately withstand the dynamic forces exerted by anticipated traffic loads.

§195.258 VALVES: GENERAL.

- (a) Each valve must be installed in a location that is accessible to authorized employees and that is protected from damage or tampering.
- (b) Each submerged valve located offshore or in inland navigable waters must be marked, or located by conven-

tional survey techniques, to facilitate quick location when operation of the valve is required.

§195.260 VALVES: LOCATION.

A valve must be installed at each of the following locations:

- (a) On the suction end and the discharge end of a pump station in a manner that permits isolation of the pump station equipment in the event of an emergency.
- (b) On each line entering or leaving a breakout storage tank area in a manner that permits isolation of the tank area from other facilities.
- (c) On each mainline at locations along the pipeline system that will minimize damage or pollution from accidental hazardous liquid discharge, as appropriate for the terrain in open country, for offshore areas, or for populated areas.
- (d) On each lateral takeoff from a trunk line in a manner that permits shutting off the lateral without interrupting the flow in the trunk line.
- (e) On each side of a water crossing that is more than 100 feet wide from highwater mark to high-water mark unless the Secretary finds in a particular case that valves are not justified.
- (f) On each side of a reservoir holding water for human consumption.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982]

§195.262 PUMPING EQUIPMENT.

- (a) Adequate ventilation must be provided in pump station buildings to prevent the accumulation of hazardous vapors. Warning devices must be installed to warn of the presence of hazardous vapors in the pumping station building.
- (b) The following must be provided in each pump station:
 - (1) Safety devices that prevent overpressuring of pumping equip-

ment, including the auxiliary pumping equipment within the pumping station.

- (2) A device for the emergency shutdown of each pumping station.
- (3) If power is necessary to actuate the safety devices, an auxiliary power supply.
- (c) Each safety device must be tested under conditions approximating actual operations and found to function properly before the pumping station may be used.
- (d) Except for offshore pipelines pumping equipment may not be installed—
 - (1) On any property that will not be under the control of the operator; or
 - (2) Less than 50 feet from the boundary of the station.
- (e) Adequate fire protection must be installed at each pump station. If the fire protection system installed requires the use of pumps, motive power must be provided for those pumps that is separate from the power that operates the station.

§195.264 ABOVE GROUND BREAKOUT TANKS.

For above ground breakout tanks-

- (a) A means must be provided for containing hazardous liquids in the event of spillage or tank failure.
- (b) Tank areas must be adequately protected against unauthorized entry.
- (c) Normal and emergency relief venting must be provided for each tank.

§195.266 CONSTRUCTION RECORDS.

A complete record that shows the following must be maintained by the operator involved for the life of each pipeline facility:

(a) The total number of girth welds and

the number nondestructively tested, including the number rejected and the disposition of each rejected weld.

- (b) The amount, location, and cover of each size of pipe installed.
- (c) The location of each crossing of another pipeline.
- (d) The location of each buried utility crossing.
- (e) The location of each overhead crossing.
- (f) The location of each valve and corrosion test station.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended by Amdt. 195-34, 50 FR 34474 Aug. 26, 1985]

Subpart E—Hydrostatic Testing

§195.300 SCOPE.

This subpart prescribes minimum requirements for hydrostatic testing of the following. It does not apply to movement of pipe covered by §195.424.

- (a) Newly constructed steel pipeline systems;
- (b) Existing steel pipeline systems that are relocated, replaced, or otherwise changed;
- (c) Onshore steel interstate pipelines constructed before January 8, 1971, that transport highly volatile liquids; and
- (d) Onshore steel intrastate pipelines constructed before October 21, 1985, that transport highly volatile liquids.

[Amdt. 195-33, 50 FR 15899, April 23, 1985]

§195.302 GENERAL REQUIREMENTS.

(a) Each new pipeline system, each pipeline system in which pipe has been relocated or replaced, or that part of a pipeline system that has been relocated or replaced, must be hydrostatically tested in

accordance with this subpart without leakage.

- (b) No person may transport a highly violatile liquid in an onshore steel interstate pipeline constructed before January 8, 1971, or an onshore steel intrastate pipeline constructed before October 21, 1985, unless the pipeline has been hydrostatically tested in accordance with this subpart or, except for pipelines subject to \$195.5, its maximum operating pressure is established under \$195.406(a)(5). Dates to comply with this requirement are:
 - (1) For onshore steel interstate pipelines in highly violatile liquid service before September 8, 1980-
 - (i) Planning and scheduling of hydrostatic testing or actual reduction in maximum operating pressure to meet \$195.406(a)(5) must be completed before Sept. 15, 1981; and
 - (ii) Hydrostatic testing must be completed before Sept. 15, 1985, with at least 50 percent of the testing completed before Sept. 15, 1983.
 - (2) For onshore steel intrastate pipelines in highly violatile liquid service before April 23, 1985-
 - (i) Planning and scheduling of hydrostatic testing or actual reduction in maximum operating pressure to meet \$195.406(a)(5) must be completed before April 23, 1986; and
 - (ii) Hydrostatic testing must be completed before April 23, 1990, with at least 50 percent of the testing completed before April 23, 1988.
- (c) The test pressure for each hydrostatic test conducted under this section must be maintained throughout the part of the

system being tested for at least 4 continuous hours at a pressure equal to 125 percent, or more, of the maximum operating pressure and, in the case of a pipeline that is not visually inspected for leakage during test, for at least an additional 4 continuous hours at a pressure equal to 110 percent, or more, of the maximum operating pressure.

[Amdt. 195-22, 46 FR 38360, July 27, 1981, as amended by Amdt. 195-33, 50 FR 15899, Apr. 23, 1985; 50 FR 38660, Sept. 24, 1985;]

§195.304 TESTING OF COMPONENTS.

- (a) Each hydrostatic test under \$195.302 must test all pipe and attached fittings, including components, unless otherwise permitted by paragraph (b) of this section.
- (b) A component that is the only item being replaced or added to the pipeline system need not be hydrostatically tested under paragraph (a) of this section if the manufacturer certifies that either—
 - (1) The component was hydrostatically tested at the factory; or
 - (2) The component was manufactured under a quality control system that ensures each component is at least equal in strength to a prototype that was hydrostatically tested at the factory.

§195.306 TEST MEDIUM.

- (a) Except as provided in paragraph (b) of this section, water must be used as the test medium.
- (b) Except for offshore pipelines, liquid petroleum that does not vaporize rapidly may be used as the test medium if—
 - (1) The entire pipeline section under test is outside of cities and other populated areas;
 - (2) Each building within 300 feet

- of the test section is unoccupied while the test pressure is equal to or greater than a pressure which produces a hoop stress of 50 percent of specified minimum yield strength;
- (3) The test section is kept under surveillance by regular patrols during the test; and
- (4) Continuous communication is maintained along entire test section.

§195.308 TESTING OF TIE-INS.

Pipe associated with tie-ins must be hydrostatically tested, either with the section to be tied in or separately.

§195.310 RECORDS.

- (a) A record must be made of each hydrostatic test required by this subpart, and the record of the latest test must be retained as long as the facility tested is in use.
- (b) The record required by paragraph (a) of this section must include:
 - (1) The pressure recording charts;
 - (2) Test instrument calibration data:
 - (3) The name of the operator, the name of the person responsible for making the test, and the name of the test company used, if any;
 - (4) The date and time of the test;
 - (5) The minimum test pressure;
 - (6) The test medium:
 - (7) A description of the facility tested and the test apparatus;
 - (8) An explanation of any pressure discontinuities, including test failures, that appear on the pressure recording charts; and
 - (9) Where elevation differences in the section under test exceed 100 feet, a profile of the pipeline that shows the elevation and test sites

over the entire length of the test section.

[Amdt. 195-34, 50 FR 34474, Aug. 26, 1985]

Subpart F—Operation and Maintenance

§195.400 SCOPE.

This subpart prescribes minimum requirements for operating and maintaining pipeline systems constructed with steel pipe.

§195.401 GENERAL REQUIREMENTS.

- (a) No operator may operate or maintain its pipeline systems at a level of safety lower than that required by this subpart and the procedures it is required to establish under §195.402(a) of this subpart.
- (b) Whenever an operator discovers any condition that could adversely affect the safe operation of its pipeline system, it shall correct it within a reasonable time. However, if the condition is of such a nature that it presents an immediate hazard to persons or property, the operator may not operate the affected part of the system until it has corrected the unsafe condition.
- (c) Except as provided in \$195.5, no operator may operate any part of any of the following pipelines unless it was designed and constructed as required by this part.
 - (1) An interstate pipeline on which construction was begun after March 31, 1970.
 - (2) An interstate offshore gathering line on which construction was begun after July 31, 1977.
 - (3) An intrastate pipeline on which construction was begun after October 20, 1985.

lAmdt. 195-22, 46 FR 38360, July 17, 1981, as amended by Amdt. 195-33, 50

FR 15899, Apr. 23, 1985; Amdt. 195-33A, 50 FR 39008, Sept. 26, 1985; Amdt. 195-36, 51 FR 15008, Apr. 22, 1986]

§195.402 PROCEDURAL MANUAL FOR OPERATIONS, MAINTENANCE, AND EMERGENCIES.

- (a) General. Each operator shall prepare and follow for each pipeline system a manual of written procedures for conducting normal operations and maintenance activities and handling abnormal operations and emergencies. This manual shall be reviewed at intervals not exceeding 15 months, but at least once each calendar year, and appropriate changes made as necessary to insure that the manual is effective. This manual shall be prepared before initial operations of a pipeline system commence, and appropriate parts shall be kept at locations where operations and maintenance activities are conducted.
- (b) Amendments. If the Secretary finds that an operator's procedures are inadequate to assure safe operation of the system or to minimize hazards in an emergency, the Secretary may, after issuing a notice of amendment and providing an opportunity for an informal hearing, require the operator to amend the procedures. In determining the adequacy of the procedures, the Secretary considers pipeline safety data, the feasibility of the procedures, and whether the procedures are appropriate for the pipeline system involved. Each notice of amendment shall allow the operator at least 15 days after receipt of such notice to submit written comments or request an informal hearing. After considering all material presented, the Secretary shall notify the operator of the required amendment or withdraw the notice proposing the amendment.
- (c) Maintenance and Normal Operations. The manual required by paragraph (a) of this section must include procedures for the following to provide safety

during maintenance and normal operations:

- (1) Making construction records, maps, and operating history available as necessary for safe operation and maintenance.
- (2) Gathering of data needed for reporting accidents under Subpart B of this part in a timely and effective manner.
- (3) Operating, maintaining, and repairing the pipeline system in accordance with each of the requirements of this subpart.
- (4) Determining which pipeline facilities are located in areas that would require an immediate response by the operator to prevent hazards to the public if the facilities failed or malfunctioned.
- (5) Analyzing pipeline accidents to determine their causes.
- (6) Minimizing the potential for hazards identified under paragraph (c)(4) of this section and the possibility of recurrence of accidents analyzed under paragraph (c)(5) of this section.
- (7) Starting up and shutting down any part of the pipeline system in a manner designed to assure operation within the limits prescribed by \$195.406, consider the hazardous liquid in transportation, variations in altitude along the pipeline, and pressure monitoring and control devices.
- (8) In the case of a pipeline that is not equipped to fail safe, monitoring from an attended location pipeline pressure during startup until steady state pressure and flow conditions are reached and during shut-in to assure operation within limits prescribed by §195.406.
 - (9) In the case of facilities not

- equipped to fail safe that are identified under \$195.402(c)(4) or that control receipt and delivery of the hazardous liquid, detecting abnormal operating conditions by monitoring pressure, temperature, flow or other appropriate operational data and transmitting this data to an attended location.
- (10) Abandoning pipeline facilities, including safe disconnection from an operating pipeline system, purging of combustibles, and sealing abandoned facilities left in place to minimize safety and environmental hazards.
- (11) Minimizing the likelihood of accidental ignition of vapors in areas near facilities identified under paragraph (c)(4) of this section where the potential exists for the presence of flammable liquids or gases.
- (12) Establishing and maintaining liaison with fire, police, and other appropriate public officials to learn the responsibility and resources of each government organization that may respond to a hazardous liquid pipeline emergency and acquaint the officials with the operator's ability in responding to a hazardous liquid pipeline emergency and means of communication.
- (13) Periodically reviewing the work done by operator personnel to determine the effectiveness of the procedures used in normal operation and maintenance and taking corrective action where deficiencies are found.
- (d) Abnormal Operation. The manual required by paragraph (a) of this section must include procedures for the following to provide safety when operating design limits have been exceeded:
 - (1) Responding to, investigating, and correcting the cause of:

- (i) Unintended closure of valves or shutdowns:
- (ii) Increase or decrease in pressure or flow rate outside normal operating limits;
- (iii) Loss of communications;
- (iv) Operation of any safety device;
- (v) Any other malfunction of a component, deviation from normal operation, or personnel error which could cause a hazard to persons or property.
- (2) Checking variations from normal operation after abnormal operation has ended at sufficient critical locations in the system to determine continued integrity and safe operation.
- (3) Correcting variations from normal operation of pressure and flow equipment and controls.
- (4) Notifying responsible operator personnel when notice of an abnormal operation is received.
- (5) Periodically reviewing the response of operator personnel to determine the effectiveness of the procedures controlling abnormal operation and taking corrective action where deficiencies are found.
- (e) Emergencies. The manual required by paragraph (a) of this section must include procedures for the following to provide safety when an emergency condition occurs:
 - (1) Receiving, identifying, and classifying notices of events which need immediate response by the operator or notice to fire, police, or other appropriate public officials and communicating this information to appropriate operator personnel for corrective action.

- (2) Prompt and effective response to a notice of each type emergency, including fire or explosion occurring near or directly involving a pipeline facility, accidental release of a hazardous liquid from a pipeline facility, operational failure causing a hazardous condition, and natural disaster affecting pipeline facilities.
- (3) Having personnel, equipment, instruments, tools, and material available as needed at the scene of an emergency.
- (4) Taking necessary action, such as emergency shutdown, or pressure reduction, to minimize the volume of hazardous liquid that is released from any section of a pipeline system in the event of a failure.
- (5) Control of released hazardous liquid at an accident scene to minimize the hazard, including possible intentional ignition in the cases of flammable highly volatile liquid.
- (6) Minimization of public exposure to injury and probability of accidental ignition by assisting with evacuation of residents and assisting with halting traffic on roads and railroads in the affected area, or taking other appropriate action.
- (7) Notifying fire, police, and other appropriate public officials of hazardous liquid pipeline emergencies and coordinating with them preplanned and actual responses during an emergency, including additional precautions necessary for an emergency involving a pipeline system transporting a highly volatile liquid.
- (8) In the case of failure of a pipeline system transporting a highly volatile liquid, use of appropriate instruments to assess the extent and coverage of the vapor cloud and determine the hazardous areas.

(9) Providing for a post accident review of employee activities to determine whether the procedures were effective in each emergency and taking corrective action where deficiencies are found.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982, as amended by Amdt. 195-24, 47 FR 46852, Oct. 21, 1982]

EFFECTIVE DATE NOTE: The effective date of §195.402 with respect to intrastate pipelines is April 23, 1987. See Amdt. 195-33 published at 50 FR 15895, Apr. 23, 1985.

§195.403 TRAINING.

- (a) Each operator shall establish and conduct a continuing training program to instruct operating and maintenance personnel to:
 - (1) Carry out the operating and maintenance, and emergency procedures established under §195.402 that relate to their assignments;
 - (2) Know the characteristics and hazards of the hazardous liquids transported, including, in the case of flammable HVL, flammability of mixtures with air, odorless vapors, and water reactions;
 - (3) Recognize conditions that are likely to cause emergencies, predict the consequences of facility malfunctions or failures and hazardous liquid spills, and to take appropriate corrective action:
 - (4) Take steps necessary to control any accidental release of hazardous liquid and to minimize the potential for fire, explosion, toxicity, or environmental damage;
 - (5) Learn the proper use of firefighting procedures and equipment, fire suits, and breathing apparatus by utilizing, where feasible, a simula-

ted pipeline emergency condition; and

- (6) In the case of maintenance personnel, to safely repair facilities using appropriate special precautions, such as isolation and purging, when highly volatile liquids are involved.
- (b) At intervals not exceeding 15 months, but at least once each calendar year, each operator shall:
 - (1) Review with personnel their performance in meeting the objectives of the training program set forth in paragraph (a) of this section; and
 - (2) Make appropriate changes to the training program as necessary to insure that it is effective.
- (c) Each operator shall require and verify that its supervisors maintain a thorough knowledge of that portion of the procedures established under \$195.402 for which they are responsible to insure compliance.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982, as amended by Amdt. 195-24, 47 FR 46852, Oct. 21, 1982]

§195.404 MAPS AND RECORDS.

- (a) Each operator shall maintain current maps and records of its pipeline systems that include at least the following information:
 - (1) Location and identification of the following pipeline facilities:
 - (i) Breakout tanks;
 - (ii) Pump stations;
 - (iii) Scraper and sphere facilities;
 - (iv) Pipeline valves;
 - (v) Cathodically protected facilities;

- (vi) Facilities to which §195.402(c)(9) applies;
 - (vii) Rights-of-way; and
- (viii) Safety devices to which §195.428 applies.
- (2) All crossings of public roads, railroads, rivers, buried utilities, and foreign pipelines.
- (3) The maximum operating pressure of each pipeline.
- (4) The diameter, grade, type, and nominal wall thickness of all pipe.
- (b) Each operator shall maintain for at least 3 years daily operating records that indicate:
 - (1) The discharge pressure at each pump station; and
 - (2) Any emergency or abnormal operation to which the procedures under §195.402 apply.
- (c) Each operator shall maintain the following records for the periods specified:
 - (1) The date, location, and description of each repair made to pipe shall be maintained for the useful life of the pipe.
 - (2) The date, location, and description of each repair made to parts of the pipeline system other than pipe shall be maintained for at least one year.
 - (3) A record of each inspection and test required by this subpart shall be maintained for at least two years or until the next inspection or test is performed, whichever is longer.

[Amdt. 195-22, 46 FR 38360, July 27, 1981, as amended by Amdt. 195-34, 50 FR 34474, Aug. 26, 1985]

§195.406 MAXIMUM OPERATING PRESSURE.

(a) Except for surge pressures and other

variations from normal operations, no operator may operate a pipeline at a pressure that exceeds any of the following:

- (1) The internal design pressure of the pipe determined in accordance with §195.106.
- (2) The design pressure of any other component of the pipeline.
- (3) Eighty percent of the test pressure for any part of the pipeline which has been hydrostatically tested under Subpart E of this part.
- (4) Eighty percent of the factory test pressure or of the prototype test pressure for any individually installed component which is excepted from testing under \$195.304.
- (5) In the case of onshore HVL interstate pipelines constructed before January 8, 1971, or onshore HVL intrastate pipelines constructed before October 21, 1985, that have not been tested under Subpart E of this part, 80 percent of the test pressure or highest operating pressure to which the pipeline was subjected for four or more continuous hours that can be demonstrated by recording charts or logs made at the time the test or operations were conducted. (See §195.302(b) for compliance schedules for HVL interstate pipelines in service before September 8, 1980, and for HVL intrastate pipelines in service before April 23, 1985.)
- (b) No operator may permit the pressure in a pipeline during surges or other variations from normal operations to exceed 110 percent of the operating pressure limit established under paragraph (a) of this section. Each operator must provide adequate controls and protective equipment to control the pressure within this limit.

[Amdt. 195-22, 46 FR 38360, July 27,

1981; as amended by Amdt. 195-33, 50 FR 15899, Apr. 23, 1985; 50 FR 38660, Sept. 24, 1985]

§195.408 COMMUNICATIONS.

- (a) Each operator must have a communication system to provide for the transmission of information needed for the safe operation of its pipeline system.
- (b) The communication system required by paragraph (a) of this section must, as a minimum, include means for:
 - (1) Monitoring operational data as required by \$195.402(c)(9);
 - (2) Receiving notices from operator personnel, the public, and public authorities of abnormal or emergency conditions and sending this information to appropriate personnel or government agencies for corrective action:
 - (3) Conducting two-way vocal communication between a control center and the scene of abnormal operations and emergencies; and
 - (4) Providing communication with fire, police, and other appropriate public officials during emergency conditions, including a natural disaster.

§195.410 LINE MARKERS.

- (a) Except as provided in paragraph (b) of this section, each operator shall place and maintain line markers over each buried pipeline in accordance with the following:
 - (1) Markers must be located at each public road crossing, at each railroad crossing, and in sufficient number along the remainder of each buried line so that its location is accurately known.
 - (2) The marker must state at least the following: "Warning" followed by the words "Petroleum (or the name

of the hazardous liquid transported) Pipeline" (in lettering at least 1 inch high with an approximate stroke of one-quarter inch on a background of sharply contrasting color), the name of the operator and a telephone number (including area code) where the operator can be reached at all times.

- (b) Line markers are not required for buried pipelines located—
 - (1) Offshore or at crossings of or under waterways and other bodies of water; or
 - (2) In heavily developed urban areas such as downtown business centers where—
 - (i) The placement of markers is impracticable and would not serve the purpose for which markers are intended: and
 - (ii) The local government maintains current substructure records.
- (c) Each operator shall provide line marking at locations where the line is above ground in areas that are accessible to the public.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended by Amdt. 195-27, 48 FR 25208. June 6. 1983]

§195.412 INSPECTION OF RIGHTS-OF-WAY AND CROSSINGS UNDER NAVIGABLE WATERS.

- (a) Each operator shall, at intervals not exceeding 3 weeks, but at least 26 times each calendar year, inspect the surface conditions on or adjacent to each pipeline right-of-way.
- (b) Except for offshore pipelines, each operator shall, at intervals not exceeding 5 years, inspect each crossing under a navigable waterway to determine the condition of the crossing.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended by Amdt. 195-24, 47 FR 46852, Oct. 21, 1982]

\$195.414 CATHODIC PROTECTION.

- (a) No operator may operate an interstate pipeline after March 31, 1973, or an intrastate pipeline after October 19, 1988, that has an effective external surface coating material, unless that pipeline is cathodically protected. This paragraph does not apply to breakout tank areas and buried pumping station piping. For the purposes of this subpart, a pipeline does not have an effective external coating and shall be considered bare, if its cathodic protection current requirements are substantially the same as if it were bare.
- (b) Each operator shall electrically inspect each bare interstate pipeline before April 1, 1975, and each bare intrastate pipline before October 20, 1990, to determine any areas in which active corrosion is taking place. The operator may not increase its established operating pressure on a section of bare pipeline until the section has been so electrically inspected. In any areas where active corrosion is found, the operator shall provide cathodic protection. Section 195.416 (f) and (g) apply to all corroded pipe that is found.
- (c) Each operator shall electrically inspect all breakout tank areas and buried pumping station piping on interstate pipelines before April 1, 1973, and on intrastate pipelines before October 20, 1988, as to the need for cathodic protection, and cathodic protection shall be provided where necessary.

[Amdt. 195-33, 50 FR 15899, April 23, 1985;50 FR 38660, Sept. 24, 1985]

§195.416 EXTERNAL CORROSION CONTROL.

(a) Each operator shall, at intervals not exceeding 15 months, but at least once each calendar year, conduct tests on each underground facility in its pipeline

- systems that is under cathodic protection to determine whether the protection is adequate.
- (b) Each operator shall maintain the test leads required for cathodic protection in such a condition that electrical measurements can be obtained to ensure adequate protection.
- (c) Each operator shall, at intervals not exceeding 2 1/2 months, but at least six times each calendar year, inspect each of its cathodic protection rectifiers.
- (d) Each operator shall, at intervals not exceeding 5 years, electrically inspect the bare pipe in its pipeline system that is not cathodically protected and must study leak records for that pipe to determine if additional protection is needed.
- (e) Whenever any buried pipe is exposed for any reason, the operator shall examine the pipe for evidence of external corrosion. If the operator finds that there is active corrosion, the surface of the pipe is generally pitted, or that corrosion has caused a leak, it shall investigate further to determine the extent of the corrosion.
- (f) Any pipe that is found to be generally corroded so that the remaining wall thickness is less than the minimum thickness required by the pipe specification tolerances must either be replaced with coated pipe that meets the requirements of this part or, if the area is small, must be repaired. However, the operator need not replace generally corroded pipe if the operating pressure is reduced to be commensurate with the limits on operating pressure specified in this subpart, based on the actual remaining wall thickness.
- (g) If localized corrosion pitting is found to exist to a degree where leakage might result, the pipe must be replaced or repaired, or the operating pressure must be reduced commensurate with the strength of the pipe based on the actual remaining wall thickness in the pits.
 - (h) Each operator shall clean, coat with

material suitable for the prevention of atmospheric corrosion, and maintain this protection for, each component in its pipeline system that is exposed to the atmosphere.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended by Amdt. 195-24, 47 FR 46852, Oct. 21, 1982; Amdt. 195-31, 49 FR 36384, Sept. 17, 1984]

§195.418 INTERNAL CORROSION CONTROL.

- (a) No operator may transport any hazardous liquid that would corrode the pipe or other components of its pipeline system, unless it has investigated the corrosive effect of the hazardous liquid on the system and has taken adequate steps to mitigate corrosion.
- (b) If corrosion inhibitors are used to mitigate internal corrosion the operator shall use inhibitors in sufficient quantity to protect the entire part of the system that the inhibitors are designed to protect and shall also use coupons or other monitoring equipment to determine their effectiveness.
- (c) The operator shall, at intervals not exceeding 7 1/2 months, but at least twice each calendar year, examine coupons or other types of monitoring equipment to determine the effectiveness of the inhibitors or the extent of any corrosion.
- (d) Whenever any pipe is removed from the pipeline for any reason, the operator must inspect the internal surface for evidence of corrosion. If the pipe is generally corroded such that the remaining wall thickness is less than the minimum thickness required by the pipe specification tolerances, the operator shall investigate adjacent pipe to determine the extent of the corrosion. The corroded pipe must be replaced with pipe that meets the requirements of this part or, based on the actual remaining wall thickness, the operating pressure must be reduced to be commensurate with the

limits on operating pressure specified in this subpart.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended by Amdt. 195-20B, 46 FR 38922, July 30, 1981; Amdt. 195-24, 47 FR 46852, Oct. 21, 1982]

§195.420 VALVE MAINTENANCE.

- (a) Each operator shall maintain each valve that is necessary for the safe operation of its pipeline systems in good working order at all times.
- (b) Each operator shall, at intervals not exceeding $7\,1/2$ months, but at least twice each calendar year, inspect each mainline valve to determine that it is functioning properly.
- (c) Each operator shall provide protection for each valve from unauthorized operation and from vandalism.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982, as amended by Amdt. 195-24, 47 FR 46852, Oct. 21, 1982]

§195.422 PIPELINE REPAIRS.

- (a) Each operator shall, in repairing its pipeline systems, ensure that the repairs are made in a safe manner and are made so as to prevent damage to persons or property.
- (b) No operator may use any pipe, valve, or fitting, for replacement in repairing pipeline facilities, unless it is designed and constructed as required by this part.

§195.424 PIPE MOVEMENT.

- (a) No operator may move any line pipe, unless the pressure in the line section involved is reduced to not more than 50 percent of the maximum operating pressure.
- (b) No operator may move any pipeline containing highly volatile liquids where materials in the line section involved are joined by welding unless—

- (1) Movement when the pipeline does not contain highly volatile liquids is impractical;
- (2) The procedures of the operator under §195.402 contain precautions to protect the public against the hazard in moving pipelines containing highly volatile liquids, including the use of warnings, where necessary, to evacuate the area close to the pipeline; and
- (3) The pressure in that line section is reduced to the lower of the following:
 - (i) Fifty percent or less of the maximum operating pressure; or
- (ii) The lowest practical level that will maintain the highly volatile liquid in a liquid state with continuous flow, but not less than 50 p.s.i.g. above the vapor pressure of the commodity.
- (c) No operator may move any pipeline containing highly volatile liquids where materials in the line section involved are not joined by welding unless—
 - (1) The operator complies with paragraphs (b)(1) and (2) of this section; and
 - (2) That line section is isolated to prevent the flow of highly volatile liquid.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 46 FR 38922, July 30, 1981]

§195.426 SCRAPER AND SPHERE FACILITIES.

No operator may use a launcher or receiver that is not equipped with a relief device capable of safely relieving pressure in the barrel before insertion or removal of scrapers or spheres. The operator must use a suitable device to indicate that pressure has been relieved in the barrel or

must provide a means to prevent insertion or removal of scrapers or spheres if pressure has not been relieved in the barrel.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; 47 FR 32721, July 29, 1982]

§195.428 OVERPRESSURE SAFETY DEVICES.

- (a) Except as provided in paragraph (b) of this section, each operator shall, at intervals not exceeding 15 months, but at least once each calendar year, or in the case of pipelines used to carry highly volatile liquids, at intervals not to exceed 7 1/2 months, but at least twice each calendar year, inspect and test each pressure limiting device, relief valve, pressure regulator, or other item of pressure control equipment to determine that it is functioning properly, is in good mechanical condition, and is adequate from the standpoint of capacity and reliability of operation for the service in which it is used.
- (b) In the case of relief valves on pressure breakout tanks containing highly volatile liquids, each operator shall test each valve at intervals not exceeding 5 years.

[Amdt. 195-22, 46 FR 38360, July 27, 1981; as amended by Amdt. 195-24, 47 FR 46852, Oct. 21, 1982]

§195.430 FIREFIGHTING EQUIPMENT.

Each operator shall maintain adequate firefighting equipment at each pump station and breakout tank area. The equipment must be—

- (a) In proper operating condition at all times:
- (b) Plainly marked so that its identity as firefighting equipment is clear; and
- (c) Located so that it is easily accessible during a fire.

§195.432 BREAKOUT TANKS.

Each operator shall, at intervals not

exceeding 15 months, but at least once each calendar year, inspect each breakout tank (including atmospheric and pressure tanks).

[Amdt. 195-24, 47 FR 46852, Oct. 21, 1982]

§195.434 SIGNS.

Each operator shall maintain signs visible to the public around each pumping station and breakout tank area. Each sign must contain the name of the operator and an emergency telephone number to contact.

§195.436 SECURITY OF FACILITIES.

Each operator shall provide protection for each pumping station and breakout tank area and other exposed facility (such as scraper traps) from vandalism and unauthorized entry.

§195.438 SMOKING OR OPEN FLAMES.

Each operator shall prohibit smoking and open flames in each pump station area and each breakout tank area where there is a possibility of the leakage of a flammable hazardous liquid or of the presence of flammable vapors.

§195.440 PUBLIC EDUCATION.

Each operator shall establish a continuing educational program to enable the public, appropriate government organizations, and persons engaged in excavation related activities to recognize a hazardous liquid pipeline emergency and to report it to the operator or the fire, police, or other appropriate public officials. The program must be conducted in English and in other languages commonly understood by a significant number and concentration of non-English speaking population in the operator's operating areas.

APPENDIX A—DELINEATION BETWEEN FEDERAL AND STATE JURISDICTION— STATEMENT OF AGENCY POLICY AND INTERPRETATION.

In 1979, Congress enacted comprehensive safety legislation governing the transportation of hazardous liquids by pipeline, the Hazardous Liquids Pipeline Safety Act of 1979, 49 U.S.C. 2001 et seg. (HLPSA). The HLPSA expanded the existing statutory authority for safety regulation, which was limited to transportation by common carriers in interstate and foreign commerce, to transportation through facilities used in or affecting interstate or foreign commerce. It also added civil penalty, compliance order, and injunctive enforcement authorities to the existing criminal sanctions. Modeled largely on the Natural Gas Pipeline Safety Act of 1968, 49 U.S.C. 1671 et seg. (NGPSA), the HLPSA provides for a national hazardous liquid pipeline safety program with nationally uniform minimal standards and with enforcement administered through a Federal-State partnership. The HLPSA leaves to exclusive Federal regulation and enforcement the "interstate pipeline facilities," those used for the pipeline transportation of hazardous liquids in interstate or foreign commerce. For the remainder of the pipeline facilities, denominated "intrastate pipeline facilities," the HLSPA provides that the same Federal regulation and enforcement will apply unless a State certifies that it will assume those responsibilities. A certified State must adopt the same minimal standards but may adopt additional more stringent standards so long as they are compatible. Therefore, in States which participate in the hazardous liquid pipeline safety program through certification, it is necessary to distinguish the interstate from the intrastate pipeline facilities.

In deciding that an administratively practical approach was necessary in distinguishing between interstate and intrastate liquid pipeline facilities and in determining how best to accomplish this, DOT has logically examined the approach used in the NGPSA. The NGPSA defines

the interstate gas pipeline facilities subject to exclusive Federal jurisdiction as those subject to the economic regulatory jurisdiction of the Federal Energy Regulatory Commission (FERC). Experience has proven this approach practical. Unlike the NGPSA however, the HLPSA has no specific reference to FERC jurisdiction, but instead defines interstate liquid pipeline facilities by the more commonly used means of specifying the end points of the transportation involved. For example, the economic regulatory jurisdiction of FERC over the transportation of both gas and liquids by pipeline is defined in much the same way. In implementing the HLPSA, DOT has sought a practicable means of distinguishing between interstate and intrastate pipeline facilities that provide the requisite degree of certainty to Federal and State enforcement personnel and to the regulated entities. DOT intends that this statement of agency policy and interpretation provide that certainty.

In 1981, DOT decided that the inventory of liquid pipeline facilities identified as subject to the jurisdiction of FERC approximates the HLPSA category of "interstate pipeline facilities." Administrative use of the FERC inventory has the added benefit of avoiding the creation of a separate Federal scheme for determination of jurisdiction over the same regulated entities. DOT recognizes that the FERC inventory is only an approximation and may not be totally satisfactory without some modification. The difficulties stem from some significant differences in the economic regulation of liquid and of natural gas pipelines. There is an affirmative assertion of jurisdiction by FERC over natural gas pipelines through the issuance of certificates of public convenience and necessity prior to commencing operations. With liquid pipelines, there is only a rebuttable presumption of jurisdiction created by the filing of pipeline operators of tariffs (or concurrences) for movement

of liquids through existing facilities. Although FERC does police the filings for such matters as compliance with the general duties of common carriers, the question of jurisdiction is normally only aired upon complaint. While any person, including State or Federal agencies, can avail themselves of the FERC forum by use of the complaint process, that process has only been rarely used to review jurisdictional matters (probably because of the infrequency of real disputes on the issues). Where the issue has arisen, the reviewing body has noted the need to examine various criteria primarily of an economic nature. DOT believes that, in most cases, the formal FERC forum can better receive and evaluate the type of information that is needed to make decisions of this nature than can DOT.

In delineating which liquid pipeline facilities are interstate pipeline facilities within the meaning of the HLPSA, DOT will generally rely on the FERC filings; that is, if there is a tariff or concurrence filed with FERC governing the transportation of hazardous liquids over a pipeline facility or if there has been an exemption from the obligation to file tariffs obtained from FERC, then DOT will, as a general rule, consider the facility to be an interstate pipeline facility within the meaning of the HLPSA. The types of situations in which DOT will ignore the existence or non-existence of a filing with FERC will be limited to those cases in which it appears obvious that a complaint filed with FERC would be successful or in which blind reliance on a FERC filing would result in a situation clearly not intended by the HLPSA such as a pipeline facility not being subject to either State or Federal safety regulation. DOT anticipates that the situations in which there is any question about the validity of the FERC filings as a ready reference will be few and that the actual variations from relliance on those filings will be rare. The following examples indicate the types of facilities which DOT believes are interstate pipeline facilities subject to the HLPSA despite the lack of a filing with FERC and the types of facilities over which DOT will generally defer to the jurisdiction of a certifying state despite the existence of a filing with FERC.

Example 1. Pipeline company P operates a pipeline from "Point A" located in State X to "Point B" (also in X). The physical facilities never cross a state line and do not connect with any other pipeline which does cross a state line. Pipeline company P also operates another pipeline between "Point C" in State X and "Point D" in an adjoining State Y. Pipeline company P files a tariff with FERC for transportation from "Point A" to "Point B" as well as for transportation from "Point C" to "Point D". DOT will ignore filing for the line from "Point A" to "Point B" and consider the line to be intrastate.

Example 2. Same as in example 1 except that P does not file any tariffs with FERC. DOT will assume jurisdiction of the line between "Point C" and "Point D."

Example 3. Same as in example 1 except that P files its tariff for the line between "Point C" and "Point D" not only with FERC but also with State X. DOT will rely on the FERC filing as indication of interstate commerce.

Example 4. Same as in example 1 except that the pipeline from "Point A" to "Point B" (in State X) connects with a pipeline operated by another company transports liquid between "Point B" (in State X) and "Point D" (in State Y). DOT will rely on the FERC filing as indication of interstate commerce.

Example 5. Same as in example 1 except that the line between "Point C" and "Point D" has a lateral line connected to it. The lateral is located entirely with State X. DOT will rely on the existence or non-existence of a FERC filing covering transportation over that lateral as determinitive of interstate commerce.

Example 6. Same as in example 1 except that the certified agency in State

X has brought an enforcement action (under the pipeline safety laws) against P because of its operation of the line between "Point A" and "Point B." P has successfully defended against the action on jurisdictional grounds. DOT will assume jurisdiction if necessary to avoid the anomaly of a pipeline subject to neither State nor Federal safety enforcement. DOT's assertion of jurisdiction in such a case would be based on the gap in the state's enforcement authority rather than a DOT decision that the pipeline is an interstate pipeline facility.

Example 7. Pipeline Company P operates a pipeline that originates on the Outer Continental Shelf. P does not file any tariff for that line with FERC. DOT will consider the pipeline to be an interstate pipeline facility.

Example 8. Pipeline Company P is constructing a pipeline from "Point C" (in State X) to "Point D" (in State Y). DOT will consider the pipeline to be an interstate pipeline facility.

Example 9. Pipeline company P is constructing a pipeline from "Point C" to "Point E" (both in State X) but intends to

file tariffs with FERC in the transportation of hazardous liquid in interstate commerce. Assuming there is some connection to an interstate pipeline facility, DOT will consider this line to be an interstate pipeline facility.

Example 10. Pipeline Company P has operated a pipeline subject to FERC economic regulation. Solely because of some statutory economic deregulation, that pipeline is no longer regulated by FERC. DOT will continue to consider that pipeline to be an interstate pipeline facility.

As seen from the examples, the types of situations in which DOT will not defer to the FERC regulatory scheme are generally clear-cut cases. For the remainder of the situations where variation from the FERC scheme would require DOT to replicate the forum already provided by FERC and to consider economic factors better left to that agency. DOT will decline to vary its reliance on the FERC filings unless, of course, not doing so would result in situations clearly not intended by the HLPSA.

[Amdt. 195-33, 50 FR 15899, Apr. 23, 1985]

THIS PAGE INTENTIONALLY LEFT BLANK

Hazardous Liquids Pipeline Safety Rules 16 TAC §§7.80-7.87

§7.80. DEFINITIONS.

The following words and terms, when used in §§7.80-7.87 of this title (relating to Substantive Rules), shall have the following meanings, unless the context clearly indicates otherwise. In addition to the following defined terms, definitions given in 49 C.F.R. Part 195, including any amendments thereto, are hereby adopted as definitions for purposes of this section.

- (a) Commission—The Railroad Commission of Texas.
- (b) Hazardous liquid—Petroleum or any petroleum product, and any substance or material which is in liquid state, excluding liquefied natural gas, when transported by pipeline facilities and which has been determined by the United States Secretary of Transportation to pose an unreasonable risk to life or property when transported by pipeline facilities.
- (c) Intrastate pipeline facilities—Pipeline facilities located within the State of Texas which are not used for the transportation of hazardous liquids in interstate or foreign commerce.
- (d) *Operator*—A person who owns or operates on his own behalf, or is an agent designated by the owner to operate, intrastate pipeline facilities.
- (e) Person—Any individual, firm, joint venture, partnership, corporation, association, state, municipality, cooperative association, or joint stock association, including any trustee, receiver, assignee, or personal representative thereof.
- (f) Pipeline facilities—New and existing pipe, rights-of-way, and any equipment, facility, or building used or intended for use in the transportation of hazardous liquids.

- (g) Pipeline Safety Section—The Pipeline Safety Section of the Gas Utilities Division, Railroad Commission of Texas.
- (h) Transportation of hazardous liquids—The movement of hazardous liquids by pipeline, or their storage incidental to movement, except that it does not include any such movement through gathering lines in rural locations or production, refining, or manufacturing facilities or storage or in-plant piping systems associated with any of those facilities.

§7.81. SAFETY REGULATIONS ADOPTED.

The Commission adopts by specific reference the provisions (except as modified herein or hereafter) established by the United States Secretary of Transportation under the Pipeline Safety Act of 1979 (Public Law 96-129), and set forth in 49 C.F.R. Part 195. Amendments. changes and revisions of 49 C.F.R. Part 195 shall be effective as a rule of the Commission unless specifically rejected by the Commission. Nothing in this rule shall prevent the Commission, after notice and hearing, from prescribing more stringent standards in individual situations. Any documents or parts of documents incorporated by reference into these rules shall be a part of these rules as if set out in full.

§7.82. JURISDICTION.

The Commission has authority to exercise jurisdiction over the intrastate pipeline transportation of hazardous liquids and over all intrastate pipeline facilities as provided in the Hazardous Liquid Pipeline Safety Act of 1979 (Public Law 96-129), and the *Texas Natural Resources Code*, §117.011.

§7.83. RETROACTIVITY.

Nothing in §§7.80-7.87 of this title (relating to Substantive Rules) shall be applied retroactively to existing intrastate pipeline facilities concerning design, fabrication, or installation, but all intrastate pipelines shall be subject to the other safety requirements of these sections.

§7.84. REQUIRED RECORDS AND REPORTING.

- (a) Accident reporting. In the event of any failure or accident involving an intrastate pipeline facility from which any hazardous liquid is released, if the failure or accident is required to be reported by the Code of Federal Regulations, Title 49, Part 195, or if the failure or accident results in the release of hazardous liquid into any river, lake, or stream in Texas, and is required to be reported pursuant to §3.20(a) and (b) of this title (relating to Notification of Fire, Breaks, Leaks, or Blow-Outs) or §3.66(19) of this title (relating to Pipeline Tariffs), the operator shall report to the Commission as follows:
 - (1) Incidents involving crude oil. In the event of an incident involving crude oil, the operator shall:
 - (A) Notify, by telephone, the Oil and Gas Division of the Commission at the earliest practicable moment following discovery of the incident; and
 - (B) Within 30 days of discovery of the incident, submit a completed Form H-8 (available from the Commission) to the Oil and Gas Division of the Commission. In situations specified in the Code of Federal Regulations, Title 49, Part 195, the operator must also file duplicate copies of the required Department of Transportation form with the Pipeline Safety Section.

- (2) Hazardous liquids other than crude oil. For incidents involving hazardous liquids other than crude oil, the operator shall:
 - (A) Notify the Pipeline Safety Section of such incident by telephone at the earliest practicable moment following discovery; and
 - (B) Within 30 days of discovery of the incident, file in duplicate with the Pipeline Safety Section a written report using the appropriate Department of Transportation form (as required by the Code of Federal Regulations, Title 49, Part 195) or a fascimile.
- (b) Annual report. Each operator shall file with the Commission an annual report listing line sizes and lengths, hazardous liquids being transported, and accident/failure data. The report must be filed with the Commission on or before February 15 following the calendar year reported. An operator need only file additions or changes made to a pipeline system(s) following the first year filing. Reporting forms may be obtained from the Pipeline Safety Section.
- (c) New construction report. Each operator shall file with the Commission, at least 30 days prior to commencement of construction, the proposed location, path, size and type of pipe to be used, intended use, design pressure, and length of the proposed line.
- (d) Operations and maintenance manual. Each operator shall prepare a manual outining normal operating, maintenance and emergency procedures for the facility as required by 49 C.F.R., Part 195, or §7.84(a) of this title (relating to Substantive Rules), and shall file a copy of said manual with the Director of the Pipeline Safety Section for review. Copies of changes or additions to the manual shall be filed for review at least 20 days

prior to the date on which they are scheduled to become effective.

- (e) Records. Each operator shall maintain and have available for inspection the same documents and records required of interstate operators by the Code of Federal Regulations, Title 49, Part 195, and such additional records as the Commission from time to time may require. These documents and records shall be retained for the period established for interstate operators by the Code of Federal Regulations, Title 49, Part 195, or for a period of not less than five years if no such federal requirement has been established. These records shall include, but not be limited to, the following:
 - (1) Records of all design and installation of new and used pipe including design pressure calculations, pipeline specifications, specified minimum yield strength and wall thickness calculations, each valve, fitting, fabricated branch connection, closure, flange connection, station piping, fabricated assembly, and aboveground breakout tank.
 - (2) Records of all pipeline construction, procedures, training, and inspection pertaining to welding, nondestructive testing, and cathodic protection.
 - (3) Records of all hydrostatic testing performed on all pipeline segments, components, and tie-ins.
 - (4) Records involved in the performance of the procedures outlined in the Operations and Maintenance Procedure Manual.

§7.85. INTRASTATE PIPELINE FACILITY CONSTRUCTION.

Pipelines must be constructed of steel pipe and placed in accordance with the requirements of the Code of Federal Regulations, Title 49, Part 195, except that pipelines other than steel may be granted special exceptions by following the filing procedures outlined in the Code of Federal Regulations, Title 49, Part 195, and submitting them to the Commission for approval.

§7.86. CORROSION CONTROL REQUIREMENTS.

The following requirements are applicable to the installation and construction of new pipeline metallic systems, the relocation or replacement of existing facilities, and the operation and maintenance of steel pipelines.

- (1) Atmospheric corrosion control. Each aboveground pipeline or portion of pipeline exposed to the atmosphere must be cleaned and coated or jacketed with material suitable for the prevention of atmospheric corrosion. For onshore pipelines, the intervals between inspections shall not exceed five years; for offshore pipelines, reevaluations are required at least once each calendar year, with intervals not to exceed 15 months.
- (2) Coatings. All coated pipe used for the transport of hazardous liquids shall be electrically inspected prior to placement, using coating deficiency (holiday) detectors to check for any faults not observable by visual examination. The holiday detector shall be operated in accordance with manufacturer's instructions and at a voltage level appropriate for the electrical characteristics of the pipeline system being tested.
- (3) **Installation.** Joints, fittings, and tie-ins shall be coated with material(s) compatible with the coating(s) on the pipe.
- (4) Cathodic protection test stations. Each cathodically protected pipeline must have test stations or

other electrical measurement contact points sufficient to determine the adequacy of cathodic protection. These locations shall include, but are not limited to, pipe casing installations and/or foreign metallic structure crossings. Test stations (electrode locations) used when taking pipe-to-soil readings for determining cathodic protection shall be selected to give representative pipe-to-soil readings. Readings taken at test stations (electrode locations) over or near one or more anodes shall not, by themselves, be considered representative.

- (A) All test lead wire attachments and bared test lead wires shall be coated with an electrically insulating material. Where the pipe is coated, the insulation of the test lead wire material should be compatible with the pipe coating and wire insulation.
- (B) Cathodic protection systems must meet or exceed the minimum criteria set forth in "Criteria for Cathodic Protection" of the most current edition of the National Association of Corrosion Engineers (NACE) Standard RP-01-69.

(5) Monitoring and inspection.

- (A) Each cathodic protection rectifier or impressed current power source must be inspected at least six times each calendar year, with intervals not to exceed 2½ months, to ensure that it is operating properly.
- (B) Each reverse current switch, diode, and interference bond whose failure would jeopardize structure protection must be checked electrically for proper performance six times

each calendar year, with intervals not to exceed 2½ months. Each remaining interference bond must be checked at least once each calendar year, with intervals not to exceed 15 months.

- (C) Each operator shall utilize right-of-way inspections to determine areas where interfering currents are suspected. In the course of these inspections, personnel should be alert for electrical or physical conditions which could indicate interference from a neighboring source. Whenever suspected areas are identified, the operator must conduct appropriate electrical tests within six months to determine the extent of interference and take appropriate action.
- (6) **Remedial action.** Each operator shall take prompt remedial action to correct any deficiencies observed during monitoring.

\$7.87. ENFORCEMENT.

Following reasonable notice, the Pipeline Safety Section may inspect the books and records of each operator at any reasonable time to ensure compliance with the provisions of these Hazardous Liquids Pipeline Safety Rules.

(1) Each operator or its officers, employees or representatives shall make readily available to the authorized representative of the Pipeline Safety Section all files, records and other documents required to be maintained by the Hazardous Liquids Pipeline Safety Rules and/or the Code of Federal Regulations, Title 49, Part 195, in addition to other documents which reasonably may be required to determine compliance with the

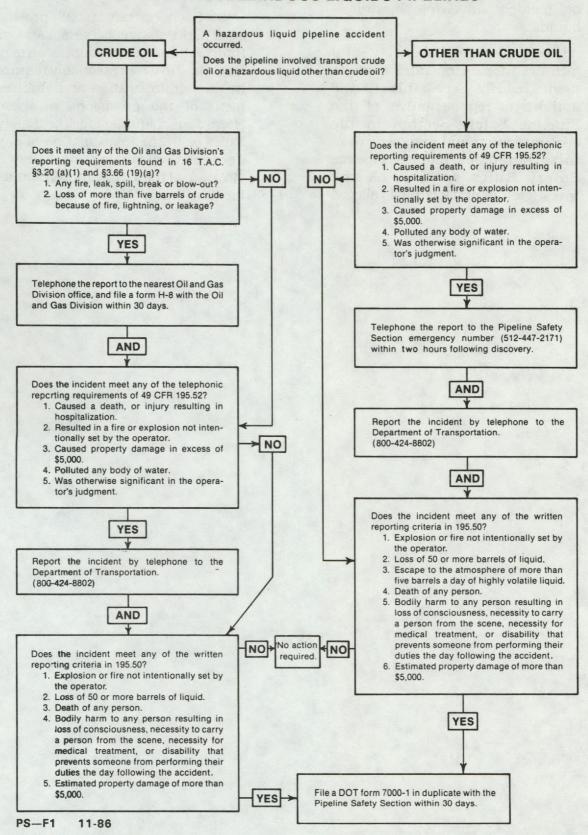
provisions of these Hazardous Liquids Pipeline Safety Rules or aid in the investigation of any accident or incident involving hazardous liquids.

(2) The plant, property and facilities of each operator shall be made readily accessible to the authorized representative of the Pipeline Safety Section in the administration and enforcement of these Hazardous Liquids Pipeline Safety Rules as well as the investigation of violations, alleged

violations, accidents or incidents involving intrastate pipeline facilities.

(3) Each operator shall provide such additional reports, data and/or information as the Commission may from time to time reasonably require in the administration and enforcement of the provisions of these Hazardous Liquids Pipeline Safety Rules or in the investigation of any accident, violation or alleged violation of these Hazardous Liquids Pipeline Safety Rules.

ACCIDENT REPORTING PROCEDURES FOR INTRASTATE HAZARDOUS LIQUIDS PIPELINES



Pipeline Safety Notice Hazardous Liquid Pipeline Facilities

I. 24 HOUR EMERGENCY ACCIDENT/INCIDENT REPORTING REQUIREMENTS:

Telephonic notice is required of certain accidents. In the event of a reportable accident as defined in 49 CFR 195.52 and 16 TAC §7.84 upon an intrastate hazardous liquid pipeline operators facilities;

IF INCIDENT INVOLVES CRUDE OIL:

Notify the Oil & Gas Division's nearest district office telephonically by the numbers listed below:

District 1 & 2	(512) 227-1313	San Antonio
District 3	(713) 460-0631	Houston
District 4	(512) 242-3113	Corpus Christi
District 5 & 6	(214) 984-3026	Kilgore
District 7B	(915) 677-3545	Abilene
District 7C	(915) 653-6776	San Angelo
District 8	(915) 684-5581	Midland
District 8A	(806) 744-6944	Lubbock
District 9	(817) 723-2153	Wichita Falls
District 10	(806) 665-1653	Pampa

IF INCIDENT INVOLVES OTHER THAN CRUDE OIL;

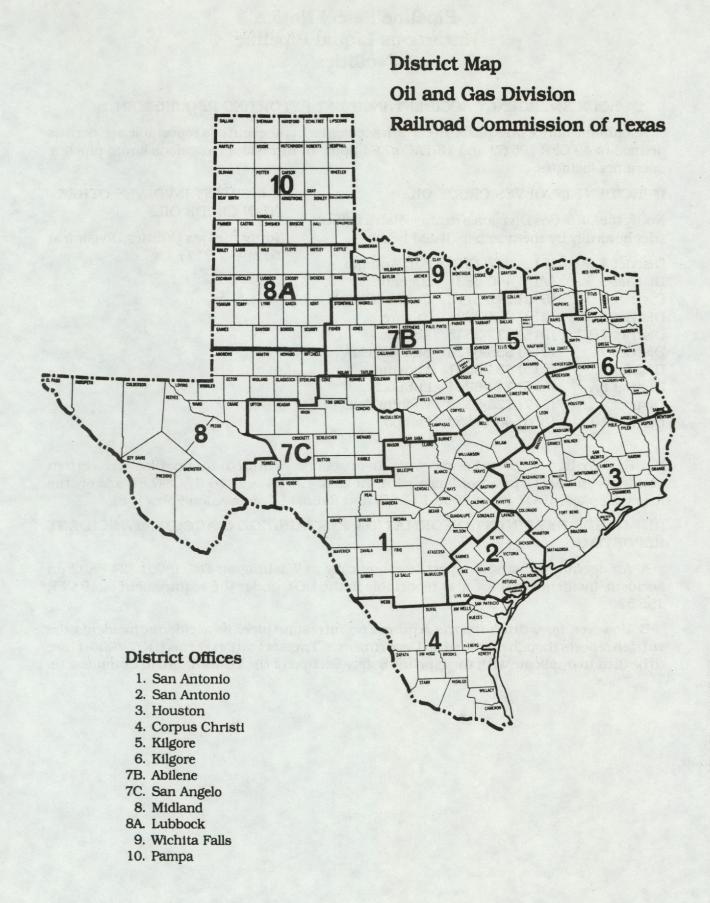
Notify the Gas Utilities Division at (512) 447-2171

II. The Written Report Forms with instructions required to be filed on certain accidents/incidents in accordance with 49 CFR 195.54 and 16 TAC §7.84 are on the following pages [DOT Form 7000-1 (4-85) and Railroad Commission Form H-8].

III. OTHER PERTINENT INFORMATION PERTAINING TO ACCIDENT/INCIDENT REPORTING:

A. An operator must still report telephonically to Washington D.C. (800) 424-8802 on accident/incidents that are also reportable to the DOT under the requirement of 49 CFR 195.52.

B. However, for written reports required on intrastate pipeline accidents/incidents the written reports though prepared on Department of Transportation Forms (DOT 7000-1) are to be filed in duplicate with the Pipeline Safety Section of the Texas Railroad Commission.



Excerpts From the Oil and Gas Division's Statewide Rules for Oil, Gas and Geothermal Operations

§3.20 RULE 20. NOTIFICATION OF FIRE, BREAKS, LEAKS OR BLOW-OUTS.

- (a) (1) (Reference Order No. 20-60,399, effective 9-24-70). Operators shall give immediate notice of a fire, leak, spill or break to the appropriate Commission district office by telephone or telegraph. Such notice shall be followed by a letter giving the full description of the event, and it shall include the volume of crude oil, gas, geothermal resource, other well liquids, or associated products lost.
 - (2) All operators of any oil wells, gas wells, geothermal wells, pipelines receiving tanks, storage tanks, or receiving and storage receptacles into which crude oil, gas or geothermal resources is produced, received, stored, or through which oil, gas or geothermal resources is piped or transported, shall immediately notify the Commission by letter, giving full details concerning all fires which occur at oil wells, gas wells, geothermal wells, tanks, or receptacles owned, operated or controlled by them or on their property, and all such persons shall immediately report all tanks or receptacles struck by lightning and any other fire which destroys crude oil and/or natural gas, or geothermal resources of any of them, and shall immediately report by letter any breaks or leaks in or from tanks or other receptacles and pipelines from which oil, gas, or geothermal resources is escaping or has escaped. In all such reports of fire, breaks, leaks, or escapes, or other accidents of this nature, the location of the well, tank, receptacle, or line break shall be given by county, survey, and property, so that the exact location thereof can be readily located on the ground. Such report shall likewise specify what steps have been taken or are in progress to remedy the situation reported and shall detail the quantity (estimated, if no accurate measurement can be obtained, in which case the report shall show that the same is an estimate) of oil, gas, or geothermal resources, lost, destroyed, or permitted to escape. In case any tank or receptacle is permitted to run over, the escape thus occurring shall be reported as in the case of a
- (b) The report hereby required as to oil losses shall be necessary only in case such oil loss exceeds five (5) barrels in the aggregate.

§3.66 Rule 71. PIPELINE TARIFFS.

(a)(19) Fires, Lightning and Leakage, Reports of Loss From.

- (A) Each pipeline shall immediately **notify** the Commission, by telegraph, telephone, or letter, of each fire that occurs at any oil tank owned or controlled by the pipeline, or of any tank struck by lightning. Each pipeline shall in like manner report each break or leak in any of its tanks or pipelines from which more than five (5) barrels escapes. Each pipeline shall report in writing to the Commission, by the fifteenth (15th) day of each calendar month, the estimated amount of loss of oil by fire or leakage from its tanks and pipelines for the preceding month; but not including leakage or evaporation ordinarily incident to transportation.
- (B) No risk of fire, storm, flood, or act of God, and no risk resulting from riots, insurrection, rebellion, war or act of the public enemy, or from quarantine or authority of law or any order, requistion or necessity of the government of the United States in

time of war, shall be borne by a pipeline, nor shall any liability accrue to it from any damage thereby occasioned. If loss of any crude oil from any such causes occurs after the oil has been received from transportation, and before it has been delivered to the consignee, the shipper shall bear a loss in such proportion as the amount of his shipment is to all of the oil held in transportation by the pipeline at the time of such loss, and the shipper shall be entitled to have delivered only such portion of his shipment as may remain after a deduction of his due proportion of such loss, but in such event the shipper shall be required to pay charges only on the quantity of oil delivered. This rule shall not apply if the loss occurs because of negligence of the pipeline.

DEPARTMENT OF TRANSPORTATION

Liquid Pipeline Accident Report

Instructions: Submit in duplicate for each accident reportable under Code of Federal Regulations, Title 49, Part 195, Subpart B. If the space provided for any question is not adequate, attach an additional sheet. File both copies of this report within 30 days after discovery of the accident with the Information Systems Manager (DMT-63), Materials Transportation Bureau, Department of Transportation, 400 Seventh Street, S.W., Washington, D.C. 20590. However, reports for intrastate pipelines subject to the jurisdiction of a State agency pursuant to certification under Section 205 of the Hazardous Liquid Pipelines Safety Act of 1979 may be submitted in duplicate to the State agency if the regulations of that agency require submission of these reports and provide for further transmittal of one copy within 10 days of receipt to the Information Systems Manager.

Please write or call the Information Systems Manager (202-472-1024) concerning questions about this report or these instructions, or to obtain copies of DOT Form 7000-1.

Each operator shall prepare each report of an accident on Form DOT 7000-1 or a facsimile as follows:

- (1) General. Each applicable item must be marked or filled in as fully and as accurately as information accessible to the operator at the time of filing the report will permit. More than one item may apply.
- (2) Part A. Enter the complete corporate name of the operator. Enter the address of the operator's principal place of business, including zip code.
- (3) Part B, Item 1. Enter the date the accident occurred or was discovered. If the accident was not discovered on the date it occurred, state this under Part K. Indicate whether the accident occurred on Federal lands. For purposes of this report "Federal lands" means all lands owned by the United States except lands in the National Park System, lands held in trust for an Indian or Indian tribe, and lands on the Outer Continental Shelf.
 - Item 2. Enter the time the accident occurred according to a 24 hour clock (e.g., 1945). If the time of occurrence is not known, enter the time the accident was discovered and state this fact under Part K.
- (4) Part E. Give the number of deaths and injuries known at the time of filing this report even if they were previously reported telephonically to the Department of Transportation. If none, state none.
- (5) Part F. Indicate the total estimated property damage in present day costs including the cost of the commodity not recovered, damage to other parties, and cost of clean up. If none, state none.
- (6) Part G, Item 1. State the commonly used name of the commodity spilled such as #2 fuel oil, regular gasoline, propane, etc.
 - Item 2. Give the classification of the commodity spilled and if it is a petroleum product, indicate whether it is a highly volatile liquid (HVL) or non-HVL. "HVL" means a hazardous liquid which will form a vapor cloud when released to the atmosphere and which has a vapor pressure exceeding 276kPa (40 psia) at 37.8 °c (100 °F). If the commodity spilled is not anhydrous ammonia, petroleum, or a petroleum product, it is not necessary to file this report.
- (7) Part K. Give an account of the accident sufficiently complete and detailed to convey an understanding of the cause of the accident. Continue on an extra sheet of paper if more space is needed.

THIS PAGE INTENTIONALLY LEFT BLANK

		Repo	rt Date
	ACCIDENT REPORT-HAZARDOUS LIQUID PIPELINE	No	7000-1
			(DOT)
PART	A—OPERATOR INFORMATION		
1.)	Name of operator		
	Principal business address		
3.)	(city) (state) (zip code) Is pipeline interstate? □ yes □ no		
PART	B—TIME AND LOCATION OF ACCIDENT		
1.)		Marie E	
2.)	Hour (24 hour clock)		
3.)	If onshore give state (including Puerto Rico and Washington, D.C.), and county or city.		
4.)	If offshore, give offshore coordinates		
5.)	Did accident occur on Federál Land? ☐ yes ☐ no		
6.)	(See instructions for definition of Federal Land.) Specific location (If location is near offshore platforms, buildings, or other landmarks, such as highways, waterwardlroads, attach a sketch or drawing showing relationshp of accident location to these landmarks)	ays, or	
	The state of the s		
PART	C—ORIGIN OF RELEASE OF LIQUID OR VAPOR. (Check a	11 1:	able items
	□ line pipe □ tank farm □ pump station Item Involved: □ pipe □ valve □ scraper trap □ pump □ welding fitting □ girth weld □ tank □ bolted fitting □ longitudial weld Other (specify) Year item installed	tabuk	
DADT	D—CAUSE OF ACCIDENT		
□ c	corrosion		
PART	E—DEATH OR INJURY		
	Number of persons killed		
	Operator employees Non-employees		
2.)	Number of persons injured		
	Operator employees Non-employees		
PART	F—ESTIMATED TOTAL PROPERTY DAMAGE \$		
PART	G—COMMODITY SPILLED		
	Name of commodity spilled:		
	Classification of commodity spilled: □ Petroleum Petroleum product □ HVL or □ Non-HVL		
3.)	Estimated amount of commodity involved Barrels spilled Barrels recoverd		
4.)	Was there an explosion?		
5.)	Was there a Fire? ☐ yes ☐ no		

INSTRUCTIONS: Answer sections H, I, or J or	nly if it applies to the particular accident being reported.
PART H—OCCURRED IN LINE PIPE	SHAN SECTION OF THE RESERVE OF THE SECTION OF THE S
 Nominal diameter (inches)	☐ flanged ☐ threaded ☐ coupled ☐ other
 7. Pressure at time and location of accident (psig) 8.) Had there been a pressure test on system? yes	
 9.) Duration of test (hrs) 10.) Maximum test pressure (psig) 11.) Date of latest test 	
PART I—CAUSED BY CORROSION	
 Location of corrosion internal	 3. Facilty under cathodic protection? ☐ yes ☐ no 4. Type of corrosion ☐ galvanic ☐ other (Specify)
PART J—CAUSED BY OUTSIDE FORCE	And the state of the second of
1. Damage by operator or its contractor Damage by others Damage by natural forces Landslide Subsidence Washout Frostheave Earthquake Ship anchor Mudslide Fishing Operations Other PART K—ACCOUNT OF ACCIDENT	2. Was a damage prevention program in effect yes no 3. If yes, was the program 'one-call' other 4. Did excavator call? yes no 5. Was pipeline location temporarily marked for the excavator? yes no
	Some altreams in series
NAME AND TITLE OF OPERATOR OFFICIAL FILING THI	IS REPORT.
Telephone no. (Including area code)	Date

DOT Form 7000-1 (4-85)

Form H-8 (Eff. 6-4-70)

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

CRUDE OIL, GAS WELL LIQUIDS, OR ASSOCIATED PRODUCTS LOSS REPORT

1. Field Name (as per current proration schedu	ule, including reservo	ir, if applicable)	2. RRC District
3. Company		Check appropriate block(s): Producer Transporter Other	4. County
5. Lease Name(s) and RRC Lease Number(s) ((if applicable)		
6. Location where Liquid Hydrocarbon (crude	oil, gas well liquids	or associated products) I oss Occ	urrad (Section Block & Comme)
	ori, gas well liquids,	or associated products) Loss Occ	urred (Section, Block, & Survey)
7. Description of Facility from which Liquid 1	Hydrocarbon Loss Oc	curred	
8. Name of Landowner where Liquid Hydrocarb	on Loss Occurred	9. Type of Liquid Hydrocarbo	on Loss
		Crude Oil Gas Well Liquid Other	AL LOSS
0. Date Liquid Hydrocarbon Loss Occurred		11. Date Liquid Hydrocarbon I by Telephone or Telegraph	Loss Reported to RRC District Office
12. Total Barrels of Liquid Hydrocarbon Lost in Leak or Spill	13. Total Barre Recovered	ls of Liquid Hydrocarbon	14. Barrels of Liquid Hydrocarbon Unrecovered (Net Loss)
15. Did Liquid Hydrocarbon Loss Affect Inland or Coastal Water? (If			
5. Did Elquid Hydrocarbon Loss Affect Inland	or Coastal Water? (If	yes, explain.)	
			C.
6 Cause of Liquid Hudra carbon Lana (Funtail	- > (75 - 11)		
6. Cause of Liquid Hydrocarbon Loss (Explain	n.) (ii additional spac	ce is required, attach page (s).)	
7. Domodial Manager Makes of FX			
7. Remedial Measures Taken and How Success	siui (Explain.)		
8. Remarks			
declare under penalties prescribed in Article 6	6036c, R. C. S., that I	am authorized to make this report	, that this report was prepared by me
r under my supervision and direction, and that	data and facts stated	therein are true, correct, and com	plete, to the best of my knowledge.
Date		Signature	
Company		Name of Person (type or prin	nt)
		27 2 3 6 5 M (c) pe or pri	
Street Address or P.O. Box		Title of Person	
		2	
City State	7:- 0 1	Telephone:	
City, State	Zip Code	Area Code	Number

(COMPANY MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE HEREOF.) (OVER)

- INSTRUCTIONS -

- 1. File the original and one copy of this form in the Railroad Commission District Office.
- 2. <u>Immediate notification</u> shall be given first by <u>telephone</u> or <u>telegraph</u> to the Commission District Office of a fire, leak, spill, or break in facilities causing a loss of more than five (5) barrels of crude oil, gas well liquids, or associated products and then followed by the filing of this form when appropriate measures have been taken.
- 3. This form complies with <u>Statewide Rules 20</u> and <u>71</u> which require notification to the Commission of all fires, leaks, spills, or breaks of facilities which cause a loss of more than five (5) barrels of crude oil, gas well liquids, or associated products.
- 4. This form is for the <u>emergency written notification</u> of all fires, leaks, spills, or breaks in facilities causing a loss of more than five (5) barrels and is not a substitute for the monthly loss report required of common carrier pipelines by Statewide Rule 71.
- 5. The use of liquid hydrocarbon in this form refers to crude oil, gas well liquids, or associated products.

FORM PS 8000-A

TEXAS INTRASTATE HAZARDOUS LIQUIDS PIPELINE QUESTIONNAIRE 16 TAC §§7.80 - 7.87

RAILROAD COMMISSION OF TEXAS

GAS UTILITIES DIVISION PIPELINE SAFETY SECTION

		T4	Permit No		informa	e is any change in tion, please indicat F OPERATOR	
					NUMBE	ER AND STREET	
					CITY	STREET	ZIP
hazardous lig	juids under the ation on file. If a	all intrastate transr specified T-4 Permit additional informatio	t Number. Please	e complete	a separ	ate questionnai	re for each T-4
	NFORMATION	Are the pipeline covered under this permit?	es Interst Intrast Both	The state of the state of the same	procee	perations are intended with this que interstate sta	uestionnaire.
NAME OF COMP	LIANCE REPRESENTATI	VE	NUMBER	AND STREE			
CITY	STA	TE .	ZIP TELEPHO	NE NUMBER			
The referen	nced T-4 permit	M AND LOCATION may be several pipel escribe the extent a 'A" as a reference.	ines or pipelines and location of o	ystems, or a	a single li under ea	sting permit with	h one pipeline ermit, please
SYSTEM NAME/ LINE NUMBER	PRODUCT(S) TRANSPORTED	TYPE (check as applicable— definitions above)	PIPELINE SPECIFICATIONS	APPL	CK AS ICABLE ons above)	NUMBER OF PUMP STATIONS	COUNTIES
		TRANSMISSION/ TRUNKLINE	MILES	RURAL NON-RU	RAL		
		GATHERING	MAOP:	BAY ARE	A		
		LINE DIAMETER:	(%) SMYS	OFFSHOI	RE		
		TRANSMISSION/ TRUNKLINE	MILES:	RURAL NON-RU	RAL		
		L GATHERING	MAOP:	BAY ARE			
		LINE DIAMETER:	(ºe) SMYS	OFFSHO!	RE	-	
		TRANSMISSION/ TRUNKLINE	MILES:	RURAL NON-RU	RAL		
		GATHERING	MAOP:	BAY ARE	Α		
		LINE DIAMETER:	(°v) SMYS	OFFSHO	RE		
	A SANS A CUETOS	TRANSMISSION/ TRUNKLINE	MILES:	RURAL NON-RU	RAL		
		GATHERING	MAOP:	BAY ARE	A		
		LINE DIAMETER:	(%) SMYS	OFFSHO	RE		

FORM PS 8000-A

Rev. 10/87

II. SYSTEM IDENTIFICATION AND LOCATION (Con't)

YSTEM NAME/ INE NUMBER	PRODUCT(S) TRANSPORTED	TYPE (check as applicable- definitions above)	PIPELINE SPECIFICATIONS	CHECK AS APPLICABLE (definitions above)	NUMBER OF PUMP STATIONS	COUNTIES
		TRANSMISSION/	MILES	RURAL	100	
		TRUNKLINE	MAOP:	NON-RURAL BAY AREA		
		LINE DIAMETER:	% SMYS:	OFFSHORE		
	The Control of	TRANSMISSION/	MILES	RURAL		
		TRUNKLINE	MAOP:	NON-RURAL		
	1982 (CHA 2	LINE DIAMETER:	% SMYS:	BAY AREA OFFSHORE		
		TRANSMISSION/	MILES	RURAL		
		TRUNKLINE GATHERING	MAOP:	NON-RURAL		
		LINE DIAMETER:	% SMYS:	BAY AREA OFFSHORE	He for sele	
9.5 1 19.70	400 E-2 20 M	☐ TRANSMISSION/	MILES	RURAL	Total Salud	
	Company (Sept.	TRUNKLINE GATHERING	MAOP:	NON-RURAL	alithe tight.	
		LINE DIAMETER:	BAT AREA	BAY AREA OFFSHORE		
		TRANSMISSION/	MILES	RURAL		
		TRUNKLINE	MAOP:	NON-RURAL		
		LINE DIAMETER:	% SMYS:	BAY AREA OFFSHORE		
		TRANSMISSION/	MILES	RURAL		
		TRUNKLINE		NON-RURAL		
		LINE DIAMETER:	MAOP:	BAY AREA		
		TRANSMISSION/	% SMYS:	OFFSHORE RURAL		
		TRUNKLINE		NON-RURAL		
		GATHERING	MAOP:	BAY AREA		
		LINE DIAMETER: TRANSMISSION/	% SMYS:	☐ RURAL		Tales and
		TRUNKLINE	Emercial Colors	NON-RURAL	1 16 (E) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		GATHERING	MAOP:	BAY AREA		
		LINE DIAMETER: TRANSMISSION/	% SMYS:	OFFSHORE	1	
	r ig neden d	TRUNKLINE	MILES	RURAL NON-RURAL		
		GATHERING	MAOP:	BAY AREA		
		LINE DIAMETER:	% SMYS:	OFFSHORE		
		TRANSMISSION/ TRUNKLINE	MILES	RURAL NON-RURAL		
		GATHERING	MAOP:	BAY AREA		
		LINE DIAMETER:	% SMYS:	OFFSHORE		
		TRANSMISSION/ TRUNKLINE	MILES	RURAL NON-RURAL		
		GATHERING	MAOP:	BAY AREA		
		LINE DIAMETER:	% SMYS:	OFFSHORE		
		TRANSMISSION/ TRUNKLINE	MILES	RURAL NON-RURAL	4	
		GATHERING	MAOP:	BAY AREA		
		LINE DIAMETER:	% SMYS:	SE CONTINUATIO		

AME AND TITLE OF REPORTING OFFICIAL	SIGNATURE OF REPORTING OFFICIAL
()-	
TELEPHONE	FORM PS 8000-A

New Construction Report Gas Utilities Railroad Commission of Texas Pipeline Safety

This report is required by 16 TAC ± 37.84 (c), which pertains to the filing of a pre-construction report. This report must be filed with the Pipeline Safety Section thirty (30) days prior to the commencement of construction.

Name of Operator		Numbe	r and Street
T-4 Permit Number	City	State	Zip
Date(s) construction is to be	egin:		
Proposed Location and Path Pipeline (include all countie			
Pipeline Material (Grade) Example: 5LSX42	SETTING V. 1. MON	K TEM BOAS CHIT	
Pipeline Diameter			
Design Pressure			
Length of Line			
Intended Use (Hazardous Liquid to be tra	nsported)		
Name and Title of Reporting (Official		Signature
Telephone Number			
Please return completed for Gas Utilities Division, Pipeli Austin, Texas 78711-2967	n to Railroad Comi ne Safety, P. O. Dra	mission of Texas wer 12967,	
PS-48			Rev. 1/8

THIS PAGE INTENTIONALLY LEFT BLANK

INSTRUCTIONS FOR COMPLETING FORM PS-45, 45A, ANNUAL REPORT FOR CALENDAR YEAR — HAZARDOUS LIQUIDS PIPELINES

GENERAL INSTRUCTIONS

Each operator of a gathering system in a non-rural area, or of an intrastate transmission system, is required to file an annual report. The reporting requirements are contained in the Hazardous Liquids Pipeline Safety Rules 16 TAC 7.84 (b). A form PS-45 should be submitted for each calendar year not later than February 15 to the Gas Utilities Division.

It is preferred that each independent subsidiary or affiliate operation be reported separately. Satellite divisions that have independent operations, and transmission/trunk or non-rural gathering systems should continue to be reported as separate systems even though, through mergers and consolidations, they no longer are separate companies and function as a unified operation under a single corporate headquarters.

If you have any questions concerning this report or these instructions, or if you need copies of Form PS-45, 45A, please write or call the Railroad Commission of Texas, Gas Utilities Division, Pipeline Safety, P.O. Drawer 12967, Austin, Texas 78711-2967, telephone number (512) 463-7058.

SPECIFIC INSTRUCTIONS

An entry should be made in each block for which data is available. All figures are to be reported as whole numbers. Do not use decimals or fractions. Decimals or fractions should be rounded to the nearest whole number. Be careful to use "miles" of pipelines and not "feet."

Avoid "unknown" entries if possible. Estimated data is preferable to unknown data.

Check "Initial Report" if this is a first filing.

Check "Yearly Supplement with Changes" if this is a follow-up report with additional or corrected information. Submit only amended, revised, or added information.

Check "Yearly Supplement with no Changes" if there are no revisions necessary. Do not fill in any previously submitted information.

In both supplement cases, always complete the "report date," "operator's name," "address," and "preparer" portion of the form.

PART I OPERATOR INFORMATION

This section includes the operator's name and address and corporate headquarters address if different.

- 1) The name of company or operator responsible for the pipelines.
- 2) The address shown should be the address where information regarding this report can be obtained.
 - 3) If the headquarters address is different from number 2, please indicate.

PART II SYSTEM DESCRIPTION

Use this section to describe the total system in miles of pipe by material and pipe sizes.

- 1) List miles of pipe by material separated into transmission and gathering.
- 2) List miles of pipe by nominal size separated into transmission and gathering.

"Coated" means pipe coated with any effective hot or cold dielectric coating or wrapping.

"Other Pipe" means a pipe or any material not specifically designated on the form such as cast iron, plastic, copper, aluminum, etc. An explanation should be included with the form if "Other Pipe" is marked.

"Cathodically protected" applies to both "bare" and "coated."

If there are changes made from a previous filing to the total system description, mark "yes" and note the number of attachments.

PART III LEAK/SPILL DATA

This section includes all reportable incidents and non-reportable leaks or spills repaired or eliminated during the calendar year separated into transmission and gathering.

Leaks/spills are defined as an unintentional escape of hazardous liquids from the pipeline.

A reportable incident is one which meets the specific criteria of §195.50 and/or 16 TAC §7.84.

"Corrosion" is damage resulting from a hole or holes in the pipeline or component caused by galvanic, bacterial, chemical, stray current, or other corrosive action.

"Outside forces" is damage resulting from contact of the pipeline with earth moving or other equipment, tools, vehicles or movement of the earth surrounding the pipeline, such as landslides. Also included are incidents caused by fire or lightning, and deliberate or willful acts, such as vandalism.

A "Construction Defect" is one resulting from failure of original sound material that is due to an outside force being applied during field construction which caused a dent, gouge, excessive stress, or other defect which resulted in subsequent failure. Also included are faulty wrinkle bends, faulty field welds, and damage sustained in transportation to the construction or fabricated site.

A "Material Defect" is a defect within the material of the pipe, component, or the longitudinal weld/seam that is due to faulty manufacturing procedures.

"Other" would be the result of any other cause, such as equipment operating malfunction, failure of mechanical joints, or connection not attributable to any of the above.

Please indicate the leaks/spills repaired or eliminated. Make sure to include those reported on DOT Form 7000-1 "Accident Report-Hazardous Liquid Pipeline." Do not include test failures.

PART IV NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR

Indicate the number of leaks that are still known leaking and scheduled for repair.

PART V ANNUAL REQUIREMENTS UNDER 49 CFR 195

Record that latest date of annual review for operations procedural manual as well as training review.

PART VI PREPARATION AND AUTHORIZATION

"Preparer" is the name of the person most knowledgeable about the information submitted in the report or the person to be contacted for additional information.

"Authorized Signature" may be the "preparer" or an officer or other person whom the operator had designated to review and sign reports of this nature.

RAILROAD COMMISSION OF TEXAS GAS UTILITIES DIVISION

PIPELINE SAFETY
P. O. DRAWER 12967
AUSTIN, TEXAS 78711-2967

YEARLY SUPPLEMENT
WITH CHANGE

ANNUAL REPORT FOR CALENDAR YEAR
HAZARDOUS LIQUIDS PIPELINES
16 TAC §7.84 (b)

Please complete all information making only changes, additions, or deletions from last year's filing. If this is an initial filing, please complete the entire form.

I. OPERATOR INFORMATION	
1. NAME OF COMPANY OR OPERATOR	3. HEADQUARTERS NAME AND ADDRESS, IF DIFFERENT
2. LOCATION OF OFFICE WHERE ADDITIONAL INFORMATION MAY BE OBTAINED	
NUMBER AND STREET	
CITY AND COUNTY	
STATE ZIP CODE	

1. GENERAL—MILES OF PIPE	and the same		STEEL			OTHER	
Transmission/Trunkline	CATHODI	CALLY PROTECTED		UNPROTECTED			
	BARE	COATED	BA	RE	COATED	PIPE	
Onshore							
Offshore							
Gathering Onshore							
Offshore							
. MILES OF PIPE BY NOMINAL SIZE	2.3 (6.3				es le vivid	2,000,000,000	
Transmission/Trunkline	UNKNOWN	4" or LESS	OVER 4" THRU 10"	OVER 10" THRU 20"	OVER 20" THRU 28"	OVER 28"	
Onshore							
Offshore							
Gathering							
Onshore							
Offshore							

FORM PS-45

RE THERE REVISIONS OR C HE TOTAL SYSTEM DESCRI	HANGES TO PTION?	YES NO	IF YES, PLEASE MAKE CHANGES ON PS-45A. NUMBER OF ATTACHMENTS	
III. TOTAL SPILLS/LEAKS — ELIM	INATED/REPAIRED	AND THE PROPERTY OF	1011.2	
CAUSED BY	TRANSMISSIO	N/TRUNKLINE	GATHE	RING
	ONSHORE	OFFSHORE	ONSHORE	OFFSHORE
Corrosicn	minutes in announcement	CONTRACTOR STATE		dica acosto
Outside Forces		e por atilis	308 - 10 4-10 200 8	2017 EM 10
Construction				
Material Defect	16-16-1806			
Other				
TRANSMISSION/ NON-RURAL GAT	TRUNKLINE			The state of the state of
V. ANNUAL REVIEW				
REQUIREMENT		DESCRIPTION	DA	TE COMPLETED
195.402 (a)	Annual Rev Operation,	iew of Procedural Manual for Maintenance & Emergencies		
195.403 (b)	An	nual Training Review		
VI. PREPARATION AND AUTHORIZAT Prepared by (Type/Print)	TION) — e	
NAME & TITLE	TEL	EPHONE	AUTH	ORIZED SIGNATURE

Send completed report to: RAILROAD COMMISSION OF TEXAS, GAS UTILITIES DIVISION, PIPELINE SAFETY, P.O. DRAWER 12967, AUSTIN, TEXAS 78711-2967.

FOR EAC	RE A PS-8000A O CH PERMIT FILED THIS OPERATOR)	YES	If "Yes" make ar if "No" please co	ny necessary revisio omplete the form wi	ns:	of
T-4 PERMIT NUMBER	SYSTEM NAME/LINE NUMBER	PRODUCT BEING TRANSPORTED	TYPE (Check as applicable)	PIPELINE SPECIFICATIONS)	CHECK AS APPLICABLE	NUMBER OF PUMP STATIONS	COUNTIES
			TRANSMISSION/	MAOP	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/	MAOP	RURAL		
			TRUNKLINE GATHERING	SMYS (%):	NON-RURAL		
			LINE DIAMETER:	MILES:	BAY AREA OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
		1399 5.34	LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL NON-RURAL		
			GATHERING	SMYS (%):	BAY AREA		
			LINE DIAMETER:	MILES:	☐ OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL NON-RURAL		
			L GATHERING	SMYS (%):	BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/- TRUNKLINE	MAOP	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL NON-RURAL		
			GATHERING	SMYS (%):	BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/ TRUNKLINE	МАОР	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		
			TRANSMISSION/ TRUNKLINE	MAOP	RURAL		
			GATHERING	SMYS (%):	NON-RURAL BAY AREA		
			LINE DIAMETER:	MILES:	OFFSHORE		

FORM PS-45A

THIS PAGE INTENTIONALLY LEFT BLANK

V.T.C.A., NATURAL RESOURCES CODE 8§117.001 - 117.101 (VERNON SUPP. 1987) HAZARDOUS LIQUID PIPELINE TRANSPORTATION INDUSTRY (NEW)

Subchapter A. General Provisions

\$117.001. DEFINITIONS

In this chapter:

- (1) "Commission" means the Railroad Commission of Texas
 - (2) "Hazardous liquid" means:
 - (A) petroleum or any petroleum product; and
 - (B) any substance or material which is in liquid state, excluding liquefied natural gas, when transported by pipeline facilities and which has been determined by the United States secretary of transportation to pose an unreasonable risk to life or property when transported by pipeline facilities.
 - (3) "Transportation of hazardous

liquids" means the movement of hazardous liquids by pipeline, or their storage incidental to movement, except that it does not include any such movement through gathering lines in rural locations or production, refining, or manufacturing facilities or storage or in-plant piping systems associated with any of those facilities.

(4) "Pipeline facilities" includes new and existing pipe, rights-ofway, and any equipment, facility, or building used or intended for use in the transportation of hazardous liquids.

Added by Acts 1983, 68th Leg., p. 4914, ch. 873, §1, eff. Aug. 29, 1983.

[Sections 117.002 to 117.010 reserved for expansion]

Subchapter B. Jurisdiction, Powers, and Duties

§117.011. JURISDICTION

The commission has jurisdiction over all pipeline transportation of hazardous liquids and over all hazardous liquid pipeline facilities as provided in the Hazardous Liquid Pipeline Safety Act of 1979 (Pub. L. No. 96-129). ¹

§117.012. RULES AND STANDARDS

(a) The commission shall adopt rules that include safety standards for and practices applicable to the intrastate transportation of hazardous liquids by pipeline and intrastate hazardous liquid pipeline facilities.

- (b) Rules that adopt safety standards do not apply to movement of hazardous liquids through gathering lines in rural locations or production, refining, or manufacturing facilities or storage or inplant piping systems associated with any of those facilities.
- (c) The safety standards adopted by the commission in its rules must be compatible with those standards established by the United States secretary of transportation under the Hazardous Liquid Pipeline Safety Act of 1979 (Pub. L. No. 96-129).¹

Added by Acts 1983, 68th Leg., p. 4914, ch. 873, §1, eff. Aug. 29, 1983.

¹49 U.S.C.A. § 2001 et. seq.

§117.013. RECORDS AND REPORTS

- (a) Each owner or operator of a pipeline engaged in the transportation of hazardous liquids within this state shall maintain records, make reports, and provide any information the commission may require under the jurisdiction granted by the Hazardous Liquid Pipeline Safety Act of 1979 (Pub. L. No. 96-129)¹ and this chapter.
- (b) The Commission, by rule, shall designate the records that are required to be maintained and the reports that are to be filed by the owner or operator and shall provide forms for reports if necessary.
- (c) The commission may require the owners or operators of hazardous liquid pipeline facilities to prepare and make available for inspection by its employees or agents or file for approval a procedural manual for each such facility in accordance with the requirements of Title 49, Part 195.402, Code of Federal Regulations. Added by Acts 1983, 68th Leg., p. 4914, ch. 873, §1, eff. Aug. 29, 1983

§117.014. INSPECTION AND EXAMINA-TION OF RECORDS AND PROPERTY

(a) The commission and its employees and designated agents may enter property

on which is located pipeline facilities or any other property relating to the transportation of hazardous liquids by pipeline and may inspect and examine the records and property to the extent relevant to determine if a person is acting in compliance with this chapter and rules adopted by the commission under this chapter.

- (b) Before the commission or its employees or designated agents enter property for the purposes of this section, the person requesting entry must present proper credentials to the person in charge at the property.
- (c) Entry, examination, and inspection under this section may be made only at reasonable times and in a reasonable manner.

Added by Acts 1983, 68th leg., p. 4914, ch. 873, §1, eff. Aug. 29, 1983

§117.015. COMPLIANCE WITH FEDERAL LAW

The commission shall make reports and certifications to the United States Department of Transportation and shall take any other actions necessary to comply with the Hazardous Liquid Pipeline Safety Act of 1979 (Pub. L. No. 96-129).¹

Added by Acts 1983, 68th Leg., p. 4914, ch. 873, §1, eff. Aug. 29, 1983.

¹49 U.S.C.A. §1 2001 et seq.

[Sections 117.016 to 117.050 reserved for expansion]

Subchapter C. Enforcement

§117.051. CIVIL PENALTY

A person who violates this chapter or a rule adopted by the commission under this chapter is subject to a civil penalty of not less than \$50 nor more than \$1,000 for each act of violation and for each day of violation, provided that the maximum civil penalty that may be assessed for any related series of violations may not exceed \$200,000.

Added by Acts 1983, 68th Leg. p. 4914, ch.

873, §1, eff. Aug. 29, 1983.

§117.052. ENFORCEMENT BY COMMISSION AND ATTORNEY GENERAL

(a) If it appears that a rule of the commission has been or is being violated, the commission may have a civil suit instituted in a district court for injunctive relief to restrain the person from continuing the violation or for the assessment and recovery of a civil penalty under Section

117.051 of this code, or for both the injunctive relief and the civil penalty.

- (b) On application for injunctive relief and a finding that a person has violated or is violating this chapter or a rule of the commission adopted under this chapter, the district court shall grant the injunctive relief the facts so warrant.
- (c) At the request of the commission, the attorney general shall institute and conduct a suit in the name of the state for injunctive relief to recover the civil penalty, or for both injunctive relief and the civil penalty.

Added by Acts 1983, 68th Leg. p. 4914, ch. 873, §1, eff. Aug. 29, 1983.

§117.053. CRIMINAL PENALTY FOR VIOLATION OF CHAPTER AND RULES

(a) A person who intentionally violates this chapter or a rule adopted under this chapter commits an offense. (b) An offense under this section is punishable by a fine of not more than \$25,000, confinement in the Texas Department of Corrections for a term of not more than five years, or both such fine and imprisonment.

Added by Acts 1983, 68th Leg. p. 4914, ch. 873, §1, eff. Aug. 29, 1983.

§117.054. CRIMINAL PENALTY FOR INJURING OR DESTROYING PIPELINE FACILITIES.

- (a) A person who intentionally injures or destroys or attemps to injure or destroy any pipeline facility in this state commits an offense.
- (b) An offense under this section is punishable by a fine of not more than \$25,000, confinement in the Texas Department of Corrections for a term of not more than 15 years, or both such fine and imprisonment.

Added by Acts 1983, 68th Leg. p. 4914, ch. 873, §1, eff. Aug. 29, 1983.

[Sections 117.055 to 117.100 reserved for expansion]

Subchapter D. Miscellaneous Provisions

§117.101. LIMITATIONS ON POWERS OF CITIES

- (a) This chapter may not be construed to reduce, limit, or impair the authority provided by law to any city.
- (b) Except as provided by Subsection (c) of this section, a city may not adopt or enforce an ordinance that establishes safety standards or practices applicable to the pipeline transportation of hazardous

liquids or hazardous liquid pipeline facilities that are subject to regulation by federal or state law.

(c) A city may adopt ordinances that establish conditions for installing or relocating pipelines over, under, along, or across public streets and alleys within the boundaries of the city.

Added by Acts 1983, 68th Leg. p. 4914, ch. 873, §1, eff. Aug. 29, 1983.

THIS PAGE INTENTIONALLY LEFT BLANK

INDEX TO 49 CFR 195

A	COATING TWENTONAY
ADOVE ODOVED DEDIVIOUS SAVE	COATING—EXTERNAL
ABOVE-GROUND BREAKOUT TANKS	195.238
—Design requirements	COMMUNICATIONS
195.132	195.408
—Construction	COMPATIBILITY
195.264	195.4
ABOVE-GROUND COMPONENTS	COMPLIANCE—CONSTRUCTION
—Construction	195.202
195.254	COMPONENTS
ACCIDENT REPORTING	—Above-ground
195.54	195.254
—Rules governing	—Hydrostatic testing
195.50	195.304
ARC BURNS	CONSTRUCTION
—Welding	—Start Subpart D
195.226	195.200
	—Records
B	195.266
BACKFILLING	CONVERSION TO SERVICE
195.252	195.5
BARREL, DEFINITION	CORROSION CONTROL
195.2	—External
BENDING OF PIPE	195.416, 195.236, 195.238
195.212	—Internal
BRACES-WELDING	195.418
195.208	COVER OVER BURIED PIPELINE
BREAKOUT TANKS	195.248
-Operation and Maintenance	CROSSING OF RAILROAD & HIGHWAYS
195.432	195.256
—Above-ground design	
195.132	D
—Above-ground construction	DEDECTIO
195.264	DEFECTS
—Definition	—Removal
195.2	195.232
	—Repair
C	195.230
	DEFINITIONS
CATHODIC PROTECTION	195.2 DESIGN
—Construction of System	
195.242	—Requirements Subpart C
—Operation and Maintenance	195.56
195.414	—Supplies
CLEARANCE BETWEEN UNDER-	195.62
GROUND PIPE & STRUCTURES	
195.250	E
CLOSURES	EDUCATION, PUBLIC

195.440

195.124

D. (DD CD.) CO.	
EMERGENCIES	HIGHWAYS, CROSSING OF
—Procedure Manual	195.256
195.402	HYDROSTATIC TESTING
EQUIPMENT	—Subpart E
—Firefighting	—Scope
195.430	195.300
—Pumping	-Records
195.262	195.310
EXTERNAL CORROSION	-Backet
—Coating	
195.238	anglesterus.
—Control	INSPECTIONS
195.416	-Rights-of-way and
—Protection	navigable water
195.236	195.412
EXTERNAL LOADS	—Welds and Welding
195.110	195.228
EXTERNAL PRESSURE	INSTALLATION
195.108	—Pipe in a ditch
altro-Disease	195.246
P 332.791	INSTRUCTIONS
THE REPORT OF THE PARTY OF THE	—DOT form 7000-1
FABRICATED	195.56
-Assemblies	INTERNAL CORROSION CONTROL
195.130	195.418
—Branch Connections	INTERNAL DESIGN PRESSURE
195.122	195.106
FACILITIES	
—Security of	L
195.436	LEADS-TEST
FIREFIGHTING EQUIPMENT	195.244
195.430	LINE MARKERS
FITTINGS	195.410
195.118	LINE SECTION
FLANGE CONNECTION	—Definition
195.126	195.2
G	LOADS, EXTERNAL 195.110
	LOCATION
H STOTE OF	—Pipeline 195.210
HAZARDOUS LIQUIDS	-Valves
—Compatibility	
195.4	195.260
—Definition	The second of the second of the second
195.2	M
	MAINTENANCE
—Transportation 195.8	—Subpart F
	195.400 - 195.440
HIGHLY VOLATILE LIQUID —Definition	
letinition	—Valves

MANUAL, PROCEDURAL OPERATIONS. P MAINTENANCE, EMERGENCIES 195.402 PERSON -Definition MAPS 195.2 195.404 PIPE MARKERS, LINE -Definition 195.410 MATERIAL INSPECTION 195.2 -Movement 195.206 195.424 MAXIMUM OPERATING PRESSURE -New 195,406 MEDIUM, TEST 195.112 -Used 195.306 195.114 METALLIC COMPONENTS. PIPELINE OTHER THAN PIPE -Definition 195.101 195.2 MITER JOINTS, WELDING -Location 195.216 195.210 MOVEMENT, PIPE -Repairs 195.424 195.422 PIPELINE FACILITY N —Definition **NEW PIPE** 195.2 PIPING, STATION 195.112 195.128 NOMINAL WALL THICKNESS PRESSURE -Definition -External 195.2 195.108 NONDESTRUCTIVE TESTING -Internal Design -Welds 195.106 195.234 -Maximum Operating 195.406 0 -Variations in **OFFSHORE** 195.104 -Definition PROCEDURAL MANUAL FOR 195.2 OPERATION, MAINTENANCE, **OPEN FLAMES** AND EMERGENCIES 195.438 195.402 **OPERATION AND MAINTENANCE** PROTECTION 195.400 -Cathodic -Subpart F 195.242, 195.236. OPERATOR, ASSISTANCE 195.414 INVESTIGATION PROVISIONS FOR INTERNAL 195.60 PASSAGE -Definition 195.120 195.2 PUBLIC EDUCATION -Responsibility for compliance 195.440 PUMPING EQUIPMENT OVERPRESSURE SAFETY DEVICES 195.262 195.428

RECORDS	TANKS
—Construction	195.132
195.266	-Above-ground breakout
—Hydrostatic Testing	195.264
195.310	—Breakout
—Operational	195.432
195.404	TELEPHONIC NOTICE
REFERENCE MATERIALS	195.52
195.3	TEMPERATURE DESIGN
REMOVAL OF DEFECTS, WELDS	195.102
195.232	TEST
REPAIRS	—Leads
—Pipeline	195.244
195.422	-Medium
—Welds	195.306
195.230	TESTING
REPORTING, ACCIDENTS	—Components
-Subpart B	195.304
195.40 - 195.62	—Hydrostatic
A PRINCIPAL ENTRY OF	195.300
S northfly	-Nondestructive
THE RESERVE OF THE PARTY OF THE	195.234
SCRAPER FACILITIES	—Tie-ins
195.426	195.308
SECRETARY	—Welders
—Definition	195.222
195.2	TRAINING
SECURITY OF FACILITIES	195.403
195.436	TRANSPORTATION
SIGNS	195.8
195.434	
SMOKING 105 400	U
195.438	UNDERGROUND STRUCTURE
SPECIFIED MINIMUM YIELD	CLEARANCE
STRENGTH	195.250
—Definition	USED PIPE
195.2	195.114
SPHERE FACILITIES	195.114
195.426	V
STATION PIPING	
195.128	VALVES
STRESS LEVEL	—Design
—Definition	195.116
195.2	-Maintenance
SURGE PRESSURE	195.420
—Definition	VARIATIONS IN PRESSURE
195.2	195.104

W

WELDS

—Acceptibility standards

195.228

—Nondestructive testing

195.234

—Removal of defects

195.230

—Repair of defects

195.230

WELDING
—Arc burns
195.226

-Braces 195.208

—General

195.214
—Miter joints

195.216

-Supports 195.208

—Testing 195.222

—Weather 195.224

SPHERE FACILITIES 195.426 THIS PAGE INTENTIONALLY LEFT BLANK

