192.8 How are onshore gathering lines and regulated onshore gathering lines determined?

192.9 What requirements apply to gathering lines?

192.10 Outer Continental Shelf pipelines. Petroleum gas systems.

What general requirements apply to pipelines regulated under this part?


Scope.

Subpart D—Design of Pipeline Components

192.117 [Reserved]
192.119 [Reserved]
192.121 Design of plastic pipe.
192.123 Design limitations for plastic pipe.
192.125 Design of copper pipe.

Subpart B—Materials

192.13 What general requirements apply to pipelines regulated under this part?

192.14 Conversion to service subject to this part.

192.15 Rules of regulatory construction.

192.16 Customer notification.

192.17 [Reserved]

Subpart C—Pipe Design

192.101 Scope.
192.103 General.
192.105 Design formula for steel pipe.
192.107 Yield strength (S) for steel pipe.
192.109 Nominal wall thickness (t) for steel pipe.
192.111 Design factor (F) for steel pipe.
192.112 Additional design requirements for steel pipe using alternative materials.
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE:
MINIMUM FEDERAL SAFETY STANDARDS

192.181 Distribution line valves.
192.183 Vaults: Structural design requirements.
192.185 Vaults: Accessibility.
192.187 Vaults: Sealing, venting, and ventilation.
192.189 Vaults: Drainage and waterproofing.
192.191 Design pressure of plastic fittings.
192.193 Valve installation in plastic pipe.
192.195 Protection against accidental overpressuring.
192.197 Control of the pressure of gas delivered from high-pressure distribution systems.
192.199 Requirements for design pressure relief and limiting devices.
192.201 Required capacity of pressure relieving and limiting stations.
192.203 Instrument, control, and sampling pipe and components.

Subpart E–Welding of Steel in Pipelines

192.221 Scope.
192.225 Welding procedures.
192.227 Qualification of welders.
192.229 Limitations on welders.
192.231 Protection from weather.
192.233 Miter joints.
192.235 Preparation for welding.
192.241 Inspection and test of welds.
192.243 Nondestructive testing.
192.245 Repair or removal of defects.

Subpart F–Joining of Materials Other Than by Welding

192.271 Scope.
192.273 General.
192.275 Cast iron pipe.
192.277 Ductile iron pipe.
192.279 Copper pipe.
192.281 Plastic pipe.
192.283 Plastic pipe; Qualifying joining procedures.

Subpart G–General Construction Requirements for Transmission Lines and Mains

192.301 Scope.
192.303 Compliance with specifications or standards.
192.305 Inspection: General.
192.307 Inspection of materials.
192.309 Repair of steel pipe.
192.311 Repair of plastic pipe.
192.313 Bends and elbows.
192.315 Wrinkle bends in steel pipe.
192.317 Protection from hazards.
192.319 Installation of pipe in a ditch.
192.321 Installation of plastic pipe.
192.323 Casing.
192.325 Underground clearance.
192.327 Cover.
192.328 Additional construction requirements for steel pipe using alternative maximum allowable operating pressure.

Subpart H–Customer Meters, Service Regulators, and Service Lines

192.351 Scope.
192.353 Customer meters and regulators: Location.
192.355 Customer meters and regulators: Protection from damage.
192.357 Customer meters and regulators: Installation.
192.359 Customer meter installations: Operating pressure.
192.361 Service lines: Installation.
192.363 Service lines: Valve requirements.

Revision 4/09 – Current thru 192-110
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE:
MINIMUM FEDERAL SAFETY STANDARDS

192.365 Service lines: Location of valves.
192.367 Service lines: General requirements for connections to main piping.
192.369 Service lines: Connections to cast iron or ductile iron mains.
192.371 Service lines: Steel.
192.373 Service lines: Cast iron and ductile iron.
192.375 Service lines: Plastic.
192.377 Service lines: Copper.
192.379 New service lines not in use.
192.381 Service lines: Excess flow valve performance standards.
192.383 Excess flow valve installation

Subpart I—Requirements for Corrosion Control

192.451 Scope.
192.452 How does this subpart apply to converted pipelines and regulated onshore gathering lines?
192.453 General.
192.455 External corrosion control: Buried or submerged pipelines installed after July 31, 1971.
192.457 External corrosion control: Buried or submerged pipelines installed before August 1, 1971.
192.459 External corrosion control: Examination of buried pipeline when exposed.
192.461 External corrosion control: Protective coating.
192.463 External corrosion control: Cathodic protection.
192.465 External corrosion control: Monitoring.
192.467 External corrosion control: Electrical isolation.
192.469 External corrosion control: Test stations.
192.471 External corrosion control: Test leads.
192.473 External corrosion control: Interference currents.

Subpart J—Test Requirements

192.501 Scope.
192.503 General requirements.
192.505 Strength test requirements for steel pipeline to operate at a hoop stress of 30 percent or more of SMYS.
192.507 Test requirements for pipelines to operate at a hoop stress less than 30 percent of SMYS and above 100 psig.
192.509 Test requirements for pipelines to operate below 100 psig.
192.511 Test requirements for service lines.
192.513 Test requirements for plastic pipelines.
192.515 Environmental protection and safety requirements.
192.517 Records.

Subpart K—Uprating

Revision 4/09 – Current thru 192-110
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE:
MINIMUM FEDERAL SAFETY STANDARDS

192.551 Scope.
192.553 General requirements.
192.555 Uprating to a pressure that will produce a hoop stress of 30 percent or more of SMYS in steel pipelines.
192.557 Uprating: Steel pipelines to a pressure that will produce a hoop stress less than 30 percent of SMYS; plastic, cast iron, and ductile iron pipelines.

Subpart L–Operations

192.601 Scope.
192.603 General provisions.
192.605 Procedural manual for operations, maintenance, and emergencies.
192.607 [Removed]
192.609 Change in class location: Required study.
192.611 Change in class location: Confirmation or revision of maximum allowable operating pressure.
192.612 Underwater inspection and reburial of pipelines in the Gulf of Mexico and its inlets.
192.613 Continuing surveillance.
192.614 Damage prevention program.
192.615 Emergency plans.
192.616 Public awareness.
192.617 Investigation of failures.
192.619 Maximum allowable operating pressure: Steel or plastic pipelines.
192.620 Alternative maximum allowable operating pressure for certain steel pipelines.
192.621 Maximum allowable operating pressure: High-pressure distribution systems.
192.623 Maximum and minimum allowable operating pressure: Low-pressure distribution systems.
192.625 Odorization of gas.

192.627 Tapping pipelines under pressure.
192.629 Purging of pipelines.
192.631 Control room management

Subpart M–Maintenance

192.701 Scope.
192.703 General.
192.705 Transmission lines: Patrolling.
192.706 Transmission lines: Leakage surveys.
192.707 Line markers for mains and transmission lines.
192.709 Transmission lines: Record keeping.
192.711 Transmission lines: General requirements for repair procedures.
192.713 Transmission lines: Permanent field repair of imperfections and damages.
192.715 Transmission lines: Permanent field repair of welds.
192.717 Transmission lines: Permanent field repair of leaks.
192.719 Transmission lines: Testing of repairs.
192.721 Distribution systems: Patrolling.
192.723 Distribution systems: Leakage surveys and procedures.
192.725 Test requirements for reinstating service lines.
192.727 Abandonment or deactivation of facilities.
192.729 [Removed]
192.731 Compressor stations: Inspection and testing of relief devices.
192.733 [Removed]
192.735 Compressor stations: Storage of combustible materials.
192.736 Gas detection and monitoring in compressor station buildings.
192.737 [Removed]
192.739 Pressure limiting and regulating stations: Inspection and testing.
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE:
MINIMUM FEDERAL SAFETY STANDARDS

192.741 Pressure limiting and regulating stations: Telemetering or recording gages.
192.743 Pressure limiting and regulating stations: Capacity of relief devices.
192.745 Valve maintenance: Transmission lines.
192.747 Valve maintenance: Distribution systems.
192.749 Vault maintenance.
192.751 Prevention of accidental ignition.
192.753 Caulked bell and spigot joints.
192.755 Protecting cast iron pipelines.

Subpart N—Qualification of Pipeline Personnel

192.801 Scope.
192.803 Definitions.
192.805 Qualification Program.
192.807 Recordkeeping.
192.809 General.

Subpart O—Gas Transmission Pipeline Integrity Management

192.901 What do the regulations in this subpart cover?
192.903 What definitions apply to this subpart?
192.905 How does an operator identify a high consequence area?
192.907 What must an operator do to implement this subpart?
192.909 How can an operator change its integrity management program?
192.911 What are the elements of an integrity management program?
192.913 When may an operator deviate its program from certain requirements of this subpart?
192.915 What knowledge and training must personnel have to carry out an integrity management program?
192.917 How does an operator identify potential threats to pipeline integrity and use the threat identification in its integrity program?
192.919 What must be in the baseline assessment plan?
192.921 How is the baseline assessment to be conducted?
192.923 How is direct assessment used and for what threats?
192.925 What are the requirements for using External Corrosion Direct Assessment (ECDA)?
192.927 What are the requirements for using Internal Corrosion Direct Assessment (ICDA)?
192.929 What are the requirements for using Direct Assessment for Stress Corrosion Cracking (SCCDA)?
192.931 How may Confirmatory Direct Assessment (CDA) be used?
192.933 What actions must be taken to address integrity issues?
192.935 What additional preventive and mitigative measures must an operator take?
192.937 What is a continual process of evaluation and assessment to maintain a pipeline's integrity?
192.939 What are the required reassessment intervals?
192.941 What is a low stress reassessment?
192.943 When can an operator deviate from these reassessment intervals?
192.945 What methods must an operator use to measure program effectiveness?
192.947 What records must an operator keep?
192.949 How does an operator notify PHMSA?
192.951 Where does an operator file a report?
PART 192—TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE:  
MINIMUM FEDERAL SAFETY STANDARDS

Subpart P—Gas Distribution Pipeline Integrity Management (IM)

192.1001 What definitions apply to this subpart?
192.1003 What do the regulations in this subpart cover?
192.1005 What must a gas distribution operator (other than a master meter or small LPG operator) do to implement this subpart?
192.1007 What are the required elements of an integrity management plan?
192.1009 What must an operator report when compression couplings fail?
192.1011 What records must an operator keep?
192.1013 When may an operator deviate from required periodic inspections of this part?
192.1015 What must a master meter or small liquefied petroleum gas (LPG) operator do to implement this subpart?

Appendix A — [Reserved]

Appendix B — Qualification of Pipe.

Appendix C — Qualification of Welders for Low Stress Level Pipe.

Appendix D — Criteria for Cathodic Protection and Determination of Measurements.

Appendix E to Part 192—Guidance on Determining High Consequence Areas and on Carrying Out Requirements in the Integrity Management Rule

Authority: 49 U.S.C. 5103, 60102, 60104, 60108, 60109, 60110, 60113, and 60118; and 49 CFR 1.53.
PART 192—TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE:
MINIMUM FEDERAL SAFETY STANDARDS

Subpart A—General

§192.1 What is the scope of this part?

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

(b) This part does not apply to—

1. Offshore gathering of gas in State waters upstream from the outlet flange of each facility where hydrocarbons are produced or where produced hydrocarbons are first separated, dehydrated, or otherwise processed, whichever facility is farther downstream;

2. Pipelines on the Outer Continental Shelf (OCS) that are producer-operated and cross into State waters without first connecting to a transporting operator's facility on the OCS, upstream (generally seaward) of the last valve on the last production facility on the OCS. Safety equipment protecting PHMSA-regulated pipeline segments is not excluded. Producing operators for those pipeline segments upstream of the last valve of the last production facility on the OCS may petition the Administrator, or designee, for approval to operate under PHMSA regulations governing pipeline design, construction, operation, and maintenance under 49 CFR 190.9;

3. Pipelines on the Outer Continental Shelf upstream of the point at which operating responsibility transfers from a producing operator to a transporting operator;

4. Onshore gathering of gas—

(i) Through a pipeline that operates at less than 0 psig (0 kPa);

(ii) Through a pipeline that is not a regulated onshore gathering line (as determined in §192.8); and

(iii) Within inlets of the Gulf of Mexico, except for the requirements in §192.612; or

(5) Any pipeline system that transports only petroleum gas or petroleum gas/air mixtures to—

(i) Fewer than 10 customers, if no portion of the system is located in a public place; or

(ii) A single customer, if the system is located entirely on the customer's premises (no matter if a portion of the system is located in a public place).


§192.3 Definitions.

As used in this part:

Abandoned means permanently removed from service.

Active corrosion means continuing corrosion that, unless controlled, could result in a condition that is detrimental to public safety.

Administrator means the Administrator, Pipeline and Hazardous Materials Safety Administration or his or her delegate.

Alarm means an audible or visible means of indicating to the controller that equipment or processes are outside operator-defined, safety-related parameters.

Control room means an operations center staffed by personnel charged with the responsibility for remotely monitoring and controlling a pipeline facility.
Controller means a qualified individual who remotely monitors and controls the safety-related operations of a pipeline facility via a SCADA system from a control room, and who has operational authority and accountability for the remote operational functions of the pipeline facility.

Customer meter means the meter that measures the transfer of gas from an operator to a consumer.

Distribution Line means a pipeline other than a gathering or transmission line.

Electrical survey means a series of closely spaced pipe-to-soil readings over pipelines which are subsequently analyzed to identify locations where a corrosive current is leaving the pipeline.

Exposed underwater pipeline means an underwater pipeline where the top of the pipe protrudes above the underwater natural bottom (as determined by recognized and generally accepted practices) in waters less than 15 feet (4.6 meters) deep, as measured from mean low water.

Gas means natural gas, flammable gas, or gas which is toxic or corrosive.

Gathering Line means a pipeline that transports gas from a current production facility to a transmission line or main.

Gulf of Mexico and its inlets means the waters from the mean high water mark of the coast of the Gulf of Mexico and its inlets open to the sea (excluding rivers, tidal marshes, lakes, and canals) seaward to include the territorial sea and Outer Continental Shelf to a depth of 15 feet (4.6 meters), as measured from the mean low water.

Hazard to navigation means, for the purpose of this part, a pipeline where the top of the pipe is less than 12 inches (305 millimeters) below the underwater natural bottom (as determined by recognized and generally accepted practices) in water less than 15 feet (4.6 meters) deep, as measured from the mean low water.

High pressure distribution system means a distribution system in which the gas pressure in the main is higher than the pressure provided to the customer.

Line section means a continuous run of transmission line between adjacent compressor stations, between a compressor station and storage facilities, between a compressor station and a block valve, or between adjacent block valves.

Listed specification means a specification listed in section I of Appendix B of this part.

Low-pressure distribution system means a distribution system in which the gas pressure in the main is substantially the same as the pressure provided to the customer.

Main means a distribution line that serves as a common source of supply for more than one service line.

Maximum actual operating pressure means the maximum pressure that occurs during normal operations over a period of 1 year.

Maximum allowable operating pressure (MAOP) means the maximum pressure at which a pipeline or segment of a pipeline may be operated under this part.

Municipality means a city, county, or any other political subdivision of a State.

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
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS

§192.189 Vaults: Drainage and waterproofing.

(a) Each vault must be designed so as to minimize the entrance of water.

(b) A vault containing gas piping may not be connected by means of a drain connection to any other underground structure.

(c) Electrical equipment in vaults must conform to the applicable requirements of Class I, Group D, of the National Electrical Code, ANSI/NFPA 70.


§192.191 Design pressure of plastic fittings.

(a) Thermosetting fittings for plastic pipe must conform to ASTM D 2517, (incorporated by reference, see §192.7).

(b) Thermoplastic fittings for plastic pipe must conform to ASTM D 2513-99, (incorporated by reference, see §192.7).


§192.193 Valve installation in plastic pipe.

Each valve installed in plastic pipe must be designed so as to protect the plastic material against excessive torsional or shearing loads when the valve or shutoff is operated, and from any other secondary stresses that might be exerted through the valve or its enclosure.


§192.195 Protection against accidental overpressuring.

(a) General requirements. Except as provided in §192.197, each pipeline that is connected to a gas source so that the maximum allowable operating pressure could be exceeded as the result of pressure control failure or of some other type of failure, must have pressure relieving or pressure limiting devices that meet the requirements of §192.199 and §192.201.

(b) Additional requirements for distribution systems. Each distribution system that is supplied from a source of gas that is at a higher pressure than the maximum allowable operating pressure for the system must

1. Have pressure regulation devices capable of meeting the pressure, load, and other service conditions that will be experienced in normal operation of the system, and that could be activated in the event of failure of some portion of the system; and
2. Be designed so as to prevent accidental overpressuring.


§192.197 Control of the pressure of gas delivered from high-pressure distribution systems.

(a) If the maximum actual operating pressure of the distribution system is 60 psi (414 kPa) gage, or less, and a service regulator having the following characteristics is used, no other pressure limiting device is required:

1. A regulator capable of reducing distribution line pressure to pressures recommended for household appliances.
2. A single port valve with proper orifice for the maximum gas pressure at the regulator inlet.
3. A valve seat made of resilient material designed to withstand abrasion of the gas, impurities in gas, cutting by the valve, and to resist permanent deformation when it is pressed against the valve port.
4. Pipe connections to the regulator not exceeding 2 inches (51 millimeters) in diameter.
5. A regulator that, under normal operating conditions, is able to regulate the downstream pressure within the necessary limits of accuracy and to limit the build-up of pressure under no-flow conditions to prevent a pressure
pressuring, be designed and installed to prevent
any single incident such as an explosion in a
vault or damage by a vehicle from affecting the
operation of both the overpressure protective
device and the district regulator; and,

(h) Except for a valve that will isolate the
system under protection from its source of
pressure, be designed to prevent unauthorized
operation of any stop valve that will make the
pressure relief valve or pressure limiting device
inoperative.

[Part 192 - Org., Aug. 19, 1970, as amended by
Amdt. 192-3, 35 FR 17660, Nov. 17, 1970]

§192.201 Required capacity of pressure re-
lieving and limiting stations.

(a) Each pressure relief station or pressure
limiting station or group of those stations in-
stalled to protect a pipeline must have enough
capacity, and must be set to operate, to insure
the following:

(1) In a low pressure distribution system,
the pressure may not cause the unsafe opera-
tion of any connected and properly adjusted
gas utilization equipment.

(2) In pipelines other than a low pressure
distribution system:

(i) If the maximum allowable operating
pressure is 60 p.s.i. (414 kPa) gage or more,
the pressure may not exceed the maximum al-
lowable operating pressure plus 10 percent or
the pressure that produces a hoop stress of 75
percent of SMYS, whichever is lower;

(ii) If the maximum allowable operating
pressure is 12 p.s.i. (83 kPa) gage or more, but
less than 60 p.s.i. (414 kPa) gage, the pressure
may not exceed the maximum allowable oper-
ating pressure plus 6 p.s.i. (41 kPa) gage; or

(iii) If the maximum allowable operating
pressure is less than 12 p.s.i. (83 kPa) gage, the
pressure may not exceed the maximum allowable
operating pressure plus 50 percent.

(b) When more than one pressure regulat-
tor or compressor, or any single run of lesser
capacity regulators or compressors in that sta-
tion, will not impose pressures on any part of
the pipeline or distribution system in excess of
those for which it was designed, or against
which it was protected, whichever is lower.

(c) Relief valves or other pressure limiting
devices must be installed at or near each regu-
lator station in a low-pressure distribution sys-
tem, with a capacity to limit the maximum
pressure in the main to a pressure that will not
exceed the safe operating pressure for any con-
ected and properly adjusted gas utilization
equipment.

[Part 192 - Org., Aug. 19, 1970, as amended by
Amdt. 192-9, 37 FR 20826, Oct. 4, 1972;
Amdt. 192-85, 63 FR 37500, July 13, 1998]

§192.203 Instrument, control, and sampling
pipe and components.

(a) Applicability. This section applies to
the design of instrument, control, and sampling
pipe and components. It does not apply to per-
manently closed systems, such as fluid-filled
temperature-responsive devices.

(b) Materials and design. All materials
employed for pipe and components must be
designed to meet the particular conditions of
service and the following:

(1) Each takeoff connection and attaching
boss, fitting, or adapter must be made of suita-
ble material, be able to withstand the maxi-
mum service pressure and temperature of the
pipe or equipment to which it is attached, and
be designed to satisfactorily withstand all
stresses without failure by fatigue.

(2) Except for takeoff lines that can be iso-
lated from sources of pressure by other
valving, a shutoff valve must be installed in
each takeoff line as near as practicable to the
point of takeoff. Blowdown valves must be
installed where necessary.

(3) Brass or copper material may not be
used for metal temperatures greater than 400°F
(204°C).
Subpart L—Operations

§192.601 Scope.

This subpart prescribes minimum requirements for the operation of pipeline facilities.


§192.603 General provisions.

(a) No person may operate a segment of pipeline unless it is operated in accordance with this subpart.

(b) Each operator shall keep records necessary to administer the procedures established under §192.605.

(c) The Administrator or the State Agency that has submitted a current certification under the pipeline safety laws (49 U.S.C. 60101, et seq.) with respect to the pipeline facility governed by an operator's plans and procedures may, after notice and opportunity for hearing as provided in 49 CFR 190.23 7 or the relevant State procedures, require the operator to amend its plans and procedures as necessary to provide a reasonable level of safety.


§192.605 Procedural manual for operations, maintenance, and emergencies

Each operator shall include the following in its operating and maintenance plan:

(a) General. Each operator shall prepare and follow for each pipeline, a manual of written procedures for conducting operations and maintenance activities and for emergency response. For transmission lines, the manual must also include procedures for handling abnormal operations. This manual must be reviewed and updated by the operator at intervals not exceeding 15 months, but at least once each calendar year. This manual must be prepared before operations of a pipeline system commence. Appropriate parts of the manual must be kept at locations where operations and maintenance activities are conducted.

(b) Maintenance and normal operations. The manual required by paragraph (a) of this section must include procedures for the following, if applicable, to provide safety during maintenance and operations.

(1) Operating, maintaining, and repairing the pipeline in accordance with each of the requirements of this subpart and Subpart M of this part.

(2) Controlling corrosion in accordance with the operations and maintenance requirements of Subpart I of this part.

(3) Making construction records, maps, and operating history available to appropriate operating personnel.

(4) Gathering of data needed for reporting incidents under Part 191 of this chapter in a timely and effective manner.

(5) Starting up and shutting down any part of the pipeline in a manner designed to assure operation within the MAOP limits prescribed by this part, plus the build-up allowed for operation of pressure-limiting and control devices.

(6) Maintaining compressor stations, including provisions for isolating units or sections of pipe and for purging before returning to service.

(7) Starting, operating and shutting down gas compressor units.

(8) Periodically reviewing the work done by operator personnel to determine the effectiveness and adequacy of the procedures used in normal operation and mainte-
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS

nance and modifying the procedure when deficiencies are found.
(9) Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapor or gas, and making available when needed at the excavation, emergency rescue equipment, including a breathing apparatus and, a rescue harness and line.
(10) Systematic and routine testing and inspection of pipe-type or bottle-type holders including –
(i) Provision for detecting external corrosion before the strength of the container has been impaired;
(ii) Periodic sampling and testing of gas in storage to determine the dew point of vapors contained in the stored gas which, if condensed, might cause internal corrosion or interfere with the safe operation of the storage plant; and,
(iii) Periodic inspection and testing of pressure limiting equipment to determine that it is in safe operating condition and has adequate capacity.
(11) Responding promptly to a report of a gas odor inside or near a building, unless the operator's emergency procedures under §192.615(a)(3) specifically apply to these reports.
(12) Implementing the applicable control room management procedures required by §192.631.
(c) Abnormal operation. For transmission lines, 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; and,
(v) Any other foreseeable malfunction of a component, deviation from normal operation, or personnel error which may result in 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) Notifying responsible operator personnel when notice of an abnormal operation is received.
(4) 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.
(5) The requirements of this paragraph (c) do not apply to natural gas distribution operators that are operating transmission lines in connection with their distribution system.
(d) Safety-related condition reports. The manual required by paragraph (a) of this section must include instructions enabling personnel who perform operation and maintenance activities to recognize conditions that potentially may be safety-related conditions that are subject to the reporting requirements of §191.23 of this subchapter.
(e) Surveillance, emergency response, and accident investigation. The procedures required by §§192.613(a), 192.615, and 192.617 must be included in the manual required by paragraph (a) of this section.

(a) No person may operate a segment of steel or plastic pipeline at a pressure that exceeds a maximum allowable operating pressure determined under paragraph (c) or (d) of this section, or the lowest of the following:

1. The design pressure of the weakest element in the segment, determined in accordance with Subparts C and D of this part. However, for steel pipe in pipelines being converted under §192.14 or uprated under subpart K of this part, if any variable necessary to determine the design pressure under the design formula (§192.105) is unknown, one of the following pressures is to be used as design pressure:

   (i) Eighty percent of the first test pressure that produces yield under section N5 of Appendix N of ASME B31.8 (incorporated by reference, see §192.7), reduced by the appropriate factor in paragraph (a)(2)(ii) of this section; or

   (ii) If the pipe is 12¾ inches (324 mm) or less in outside diameter and is not tested to yield under this paragraph, 200 p.s.i. (1379 kPa) gage.

2. The pressure obtained by dividing the pressure to which the segment was tested after construction as follows:

   (i) For plastic pipe in all locations, the test pressure is divided by a factor of 1.5.

   (ii) For steel pipe operated at 100 p.s.i. (689 kPa) gage or more, the test pressure is divided by a factor determined in accordance with the following table:

<table>
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<th>Class</th>
<th>Installed</th>
<th>Installed</th>
<th>Covered under</th>
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<td>after Nov. 11, 1970</td>
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<td>1.25</td>
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<td>1.4</td>
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<td>1.5</td>
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</table>

   For offshore segments installed, uprated or converted after July 31, 1977, that are not located on an offshore platform, the factor is 1.25. For segments installed, uprated or converted after July 31, 1977, that are located on an offshore platform or on a platform in inland navigable waters, including a pipe riser, the factor is 1.5.

3. The highest actual operating pressure to which the segment was subjected during the 5 years preceding the applicable date in the second column. This pressure restriction applies unless the segment was tested according to the requirements in paragraph (a)(2) of this section after the applicable date in the third column or the segment was uprated according to the requirements in subpart K of this part:

<table>
<thead>
<tr>
<th>Pipeline segment</th>
<th>Pressure date</th>
<th>Test date</th>
</tr>
</thead>
<tbody>
<tr>
<td>—Onshore gathering line that first became subject to this part (other than §192.612) after April 13, 2006.</td>
<td>March 15, 2006, or date line becomes subject to this part, whichever is later.</td>
<td>5 years preceding applicable date in second column.</td>
</tr>
<tr>
<td>—Onshore transmission line that was a gathering line not subject to this part before March 15, 2006.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. The pressure determined by the operator to be the maximum safe pressure after con-
considering the history of the segment, particularly known corrosion and the actual operating pressure.

(b) No person may operate a segment to which paragraph (a)(4) of this section is applicable, unless overpressure protective devices are installed on the segment in a manner that will prevent the maximum allowable operating pressure from being exceeded, in accordance with §192.195.

(c) The requirements on pressure restrictions in this section do not apply in the following instance. An operator may operate a segment of pipeline found to be in satisfactory condition, considering its operating and maintenance history, at the highest actual operating pressure to which the segment was subjected during the 5 years preceding the applicable date in the second column of the table in paragraph (a)(3) of this section. An operator must still comply with §192.611.

(d) The operator of a pipeline segment of steel pipeline meeting the conditions prescribed in §192.620(b) may elect to operate the segment at a maximum allowable operating pressure determined under §192.620(a).


§192.620 Alternative maximum allowable operating pressure for certain steel pipelines.

(a) How does an operator calculate the alternative maximum allowable operating pressure? An operator calculates the alternative maximum allowable operating pressure by using different factors in the same formulas used for calculating maximum allowable operating pressure under §192.619(a) as follows:

(1) In determining the alternative design pressure under §192.105, use a design factor determined in accordance with §192.111(b), (c), or (d) or, if none of these paragraphs apply, in accordance with the following table:

<table>
<thead>
<tr>
<th>Class Location</th>
<th>Alternative design factor (F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.80</td>
</tr>
<tr>
<td>2</td>
<td>0.67</td>
</tr>
<tr>
<td>3</td>
<td>0.56</td>
</tr>
</tbody>
</table>

(i) For facilities installed prior to December 22, 2008, for which §192.111(b), (c), or (d) apply, use the following design factors as alternatives for the factors specified in those paragraphs: §192.111(b)–0.67 or less; 192.111(c) and (d)–0.56 or less.

(ii) [Reserved]

(2) The alternative maximum allowable operating pressure is the lower of the following:

(i) The design pressure of the weakest element in the pipeline segment, determined under subparts C and D of this part.

(ii) The pressure obtained by dividing the pressure to which the pipeline segment was tested after construction by a factor determined in the following table:

<table>
<thead>
<tr>
<th>Class Location</th>
<th>Alternative test factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>1.50</td>
</tr>
<tr>
<td>3</td>
<td>1.50</td>
</tr>
</tbody>
</table>

1For Class 2 alternative maximum allowable operating pressure segments installed prior to December 22, 2008, the alternative test factor is 1.25.

(b) When may an operator use the alternative maximum allowable operating pressure calculated under paragraph (a) of this section? An operator may use an alternative maximum allowable operating pressure calculated under paragraph (a) of this section if the following conditions are met:

(1) The pipeline segment is in a Class 1, 2, or 3 location;

(2) The pipeline segment is constructed of steel pipe meeting the additional design requirements in §192.112;
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS

(a) Except for rupture discs, each pressure relieving device in a compressor station must be inspected and tested in accordance with §§ 192.739 and 192.743, and must be operated periodically to determine that it opens at the correct set pressure.

(b) Any defective or inadequate equipment found must be promptly repaired or replaced.

(c) Each remote control shutdown device must be inspected and tested at intervals not exceeding 15 months, but at least once each calendar year, to determine that it functions properly.


§192.733 [Removed]


§192.735 Compressor stations: Storage of combustible materials.

(a) Flammable or combustible materials in quantities beyond those required for everyday use, or other than those normally used in compressor buildings, must be stored a safe distance from the compressor building.

(b) Above ground oil or gasoline storage tanks must be protected in accordance with National Fire Protection Association Standard No. 30.


§192.736 Compressor stations: Gas detection.

(a) Not later than September 16, 1996, each compressor building in a compressor station must have a fixed gas detection and alarm system, unless the building is—

(1) Constructed so that at least 50 percent of its upright side area is permanently open; or

(2) Located in an unattended field compressor station of 1,000 horsepower (746 kilowatts) or less.

(b) Except when shutdown of the system is necessary for maintenance under paragraph (c) of this section, each gas detection and alarm system required by this section must—

(1) Continuously monitor the compressor building for a concentration of gas in air of not more than 25 percent of the lower explosive limit; and

(2) If that concentration of gas is detected, warn persons about to enter the building and persons inside the building of the danger.

(c) Each gas detection and alarm system required by this section must be maintained to function properly. The maintenance must include performance tests.


§192.737 [Removed]


§192.739 Pressure limiting and regulating stations: Inspection and testing.
PART 192 – TRANSPORTATION OF NATURAL AND OTHER GAS BY PIPELINE: MINIMUM FEDERAL SAFETY STANDARDS

(a) Each pressure limiting station, relief device (except rupture discs), and pressure regulating station and its equipment must be subjected at intervals not exceeding 15 months, but at least once each calendar year, to inspections and tests to determine that it is—

(1) In good mechanical condition;

(2) Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed;

(3) Except as provided in paragraph (b) of this section, set to control or relieve at the correct pressure consistent with the pressure limits of §192.201(a); and

(4) Properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.

(b) For steel pipelines whose MAOP is determined under §192.619(c), if the MAOP is 60 psi (414 kPa) gage or more, the control or relief pressure limit is as follows:

<table>
<thead>
<tr>
<th>If the MAOP produces a hoop stress that is:</th>
<th>Then the pressure limit is:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greater than 72 percent of SMYS</td>
<td>MAOP plus 4 percent.</td>
</tr>
<tr>
<td>Unknown as a percentage of SMYS</td>
<td>A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP.</td>
</tr>
</tbody>
</table>


§192.741 Pressure limiting and regulating stations: Telemetering or recording gauges.

(a) Each distribution system supplied by more than one district pressure regulating station must be equipped with telemetering or recording pressure gauges to indicate the gas pressure in the district.

(b) On distribution systems supplied by a single district pressure regulating station, the operator shall determine the necessity of installing telemetering or recording gauges in the district, taking into consideration the number of customers supplied, the operating pressures, the capacity of the installation, and other operating conditions.

(c) If there are indications of abnormally high- or low-pressure, the regulator and the auxiliary equipment must be inspected and the necessary measures employed to correct any unsatisfactory operating conditions.


§192.743 Pressure limiting and regulating stations: Capacity of relief devices.

(a) Pressure relief devices at pressure limiting stations and pressure regulating stations must have sufficient capacity to protect the facilities to which they are connected. Except as provided in §192.739(b), the capacity must be consistent with the pressure limits of §192.201(a). This capacity must be determined at intervals not exceeding 15 months, but at least once each calendar year, by testing the devices in place or by review and calculations.

(b) If review and calculations are used to determine if a device has sufficient capacity, the calculated capacity must be compared with the rated or experimentally determined relieving capacity of the device for the conditions under which it operates. After the initial calculations, subsequent calculations need not be made if the annual review documents that parameters have not changed to
§192.801 Scope.

(a) This subpart prescribes the minimum requirements for operator qualification of individuals performing covered tasks on a pipeline facility.

(b) For the purpose of this subpart, a covered task is an activity, identified by the operator, that:
   (1) Is performed on a pipeline facility;
   (2) Is an operations or maintenance task;
   (3) Is performed as a requirement of this part; and
   (4) Affects the operation or integrity of the pipeline.

[Amdt. 192-86, 64 FR 46853, Aug. 27, 1999]

§192.803 Definitions.

Abnormal operating condition means a condition identified by the operator that may indicate a malfunction of a component or deviation from normal operations that may:

(a) Indicate a condition exceeding design limits; or
(b) Result in a hazard(s) to persons, property, or the environment.

Evaluation means a process, established and documented by the operator, to determine an individual's ability to perform a covered task by any of the following:

(a) Written examination;
(b) Oral examination;
(c) Work performance history review;
(d) Observation during:
   (1) Performance on the job,
   (2) On the job training, or
   (3) Simulations;
(e) Other forms of assessment.

Qualified means that an individual has been evaluated and can:

(a) Perform assigned covered tasks; and
(b) Recognize and react to abnormal operating conditions.


§192.805 Qualification program.

Each operator shall have and follow a written qualification program. The program shall include provisions to:

(a) Identify covered tasks;
(b) Ensure through evaluation that individuals performing covered tasks are qualified;
(c) Allow individuals that are not qualified pursuant to this subpart to perform a covered task if directed and observed by an individual that is qualified;
(d) Evaluate an individual if the operator has reason to believe that the individual's performance of a covered task contributed to an incident as defined in Part 191;
(e) Evaluate an individual if the operator has reason to believe that the individual is no longer qualified to perform a covered task;
(f) Communicate changes that affect covered tasks to individuals performing those covered tasks;
(g) Identify those covered tasks and the intervals at which evaluation of the individual's qualifications is needed;
(h) After December 16, 2004, provide training, as appropriate, to ensure that individuals performing covered tasks have the necessary knowledge and skills to perform
cause the rated or experimentally determined relieving capacity to be insufficient.

(c) If a relief device is of insufficient capacity, a new or additional device must be installed to provide the capacity required by paragraph (a) of this section.

§192.745 Valve maintenance: Transmission lines.

(a) Each transmission line valve that might be required during any emergency must be inspected and partially operated at intervals not exceeding 15 months, but at least once each calendar year.

(b) Each operator must take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve.

§192.747 Valve maintenance: Distribution systems.

(a) Each valve, the use of which may be necessary for the safe operation of a distribution system, must be checked and serviced at intervals not exceeding 15 months, but at least once each calendar year.

(b) Each operator must take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve.

§192.749 Vault maintenance.

(a) Each vault housing pressure regulating and pressure limiting equipment, and having a volumetric internal content of 200 cubic feet (5.66 cubic meters) or more, must be inspected at intervals not exceeding 15 months, but at least once each calendar year, to determine that it is in good physical condition and adequately ventilated.

(b) If gas is found in the vault, the equipment in the vault must be inspected for leaks, and any leaks found must be repaired.

(c) The ventilating equipment must also be inspected to determine that it is functioning properly.

(d) Each vault cover must be inspected to assure that it does not present a hazard to public safety.

§192.751 Prevention of accidental ignition.

Each operator shall take steps to minimize the danger of accidental ignition of gas in any structure or area where the presence of gas constitutes a hazard of fire or explosion, including the following:

(a) When a hazardous amount of gas is being vented into open air, each potential source of ignition must be removed from