

Regulations Update

2022 PIPELINE SAFETY SEMINAR

Hosted by the California Public Utilities Commission (CPUC)
and the U.S. Pipeline and Hazardous Materials Safety Administration
(PHMSA)



Overview Topics

- [Amendments to Part 191](#)
- [Amendments to Part 192](#)
- [PIPES ACT 2020 Section 114](#)
- [Where Do I Find Information?](#)



AMENDMENTS TO PART 191



Incident Means...

- § 191.3
 - Amended
 - Estimated property damage of \$129,300 or more, including loss to the operator and others, or both, but excluding the cost of gas lost.
 - For adjustments for inflation observed in calendar year 2021 onwards, changes to the reporting threshold will be posted on PHMSA's website. These changes will be determined in accordance with the procedures in appendix A to part 191.



Mechanical Fitting Failure Reports

- §191.12
 - A dedicated report is no longer required
 - Still must account in the Annual Report

| PART C - TOTAL LEAKS AND HAZARDOUS LEAKS ELIMINATED/REPAIRED DURING YEAR | | | | |
|--|--|--|--|--|
| INCORRECT OPERATION | | | | |
| OTHER CAUSE | | | | |
| NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR _____ | | | | |
| NUMBER OF HAZARDOUS LEAKS INVOLVING A MECHANICAL JOINT FAILURE _____ | | | | |



Reporting Requirements

Safety Related Conditions

- By July 1, 2020 (Effective Date of Rule)
 - Report MAOP **exceedances** (§191.23(a)(6),
 - In writing within 5 working days after determination; no later than 10 day after discovery.



AMENDMENTS TO PART 192



Documents Incorporated by Reference

- API Standard 1104, "Welding of Pipelines and Related Facilities," 20th edition
- ASTM D2513 -18a, "Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings," approved August 1, 2018
- ASTM F2620-19, "Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings," approved February 1, 2019



Limitations On Welders And Welding Operators

- § 192.229(b)
 - Amended to add
 - Welders or welding operators can weld to a specific process if they demonstrate they have done it in the previous 7 ½ months and the welds were found acceptable under API 1104.



Plastic Pipe

- § 192.283 - Qualifying Joining Procedures
 - Amended to eliminate the test according to ASTM D638, and just require a listed specification.
- § 192.285(b)(2)(i) Plastic pipe: Qualifying persons to make joints
 - Amended to add ... and for PE heat fusion joints (except for electrofusion joints) visually inspected **in accordance with ASTM F2620** or a procedure that demonstrated to provide an equivalent or superior level of safety



External corrosion control: Monitoring

- § 192.465(b)
 - It now allows for rectifiers and power sources to be inspected through remote methods, but at least once each calendar year it must be inspected on site.



Atmospheric corrosion control: Monitoring

- § 192.481(a)
 - Evaluation interval was expanded
 - Onshore – not a service line – 3 years not exceeding 39 months
 - Onshore – service line – 5 years – note exceeding 63 months
 - Unless corrosion is found, then 3 years not exceeding 39 months
 - Offshore – Once each calendar year not exceeding 15 months



Corrosion Control Records

- § 192.491(c)
 - Amended to add a requirement to keep records of the 2 most recent atmospheric corrosion inspections of service lines inspected every 5 years.



MAOP

- 192.619(a)(2)(ii) – For steel pipe operating at 100 p.s.i.g. or more, test pressure divided by the applicable factor

| Class location | Installed before (Nov. 12, 1970) | Factors, ^{1,2} segment - | | |
|----------------|-------------------------------------|--|--|---|
| | | Installed after (Nov. 11, 1970) and before July 1, 2020 | Installed on or after July 1, 2020 | Converted under § 192.14 |
| 1 | 1.1 | 1.1 | 1.25 | 1.25 |
| 2 | 1.25 | 1.25 | 1.25 | 1.25 |
| 3 | 1.4 | 1.5 | 1.5 | 1.5 |
| 4 | 1.4 | 1.5 | 1.5 | 1.5 |



DIMP

- § 192.1003
 - Amended to exempt:
 - Individual service lines directly connected to a production line or a gathering line **(farm taps)** other than a regulated onshore gathering line
 - Additional maintenance and inspection requirements added to §192.740
 - (2) Individual service lines directly connected to either a transmission or regulated gathering pipeline and
 - **(3) Master meter systems**



DIMP

- § 192.1007
 - (b) Identify threats
 - Amended to include **atmospheric corrosion** as a threat.
 - § 192.1009 - **Removed**
 - What must an operator report when a mechanical fitting fails?
 - Since a dedicated report is no longer required, this section no longer applies.



Emergency Plans 10-5-2022

- §192.615 (a)(2)
 - Added establishing and maintaining communication with a public safety answering point, i.e., 911
 - Accessible from the pipeline and public officials' (fire, police...) location
 - Liaison with the public safety answering point can be used instead of individual public safety agencies
 - The operator is responsible for establishing their responsibilities and capabilities in a pipeline emergency.



Emergency Plans 10-5-2022

- §192.615 (a)(6)
 - Must include procedure for action to minimize hazards to life, property, or the environment by released gas.
 - emergency shutdown,
 - valve shut-off, or
 - pressure reduction



Emergency Plans 10-5-2022

- § 192.615 (a)(8)
 - Expanded to include notifying the public safety answering point (i.e., 9-1-1 emergency call center)
 - within the community and jurisdiction in which the pipeline is located
 - to coordinate response



Emergency Plans 10-5-2022

- §192.615 (a)(12)
 - New section added
 - Have a procedure to determine if a **notification of a potential rupture** – as defined in 192.3 – is an actual rupture event.
 - It must include
 - the source of the information
 - operational factors and
 - anything else that can be used to determine if a rupture has occurred



Emergency Plans 10-5-2022

- §192.615 (c)
 - Amended to require establishing and maintaining liaison with the public safety answering point (i.e., 9-1-1 emergency call center) to
 - learn and establish responsibilities in a gas pipeline emergency;
 - familiarize them with the operator's capabilities;
 - identify the type of emergencies that will be communicated; and
 - plan mutual assistance to minimize hazards



Investigation of Failures

- §192.617 - All the text has been replaced
 - Post failure incident procedures
 - investigating and analyzing failures and incidents
 - including sending the failed pipe, component, or equipment for laboratory testing or examination
 - Post-failure and incident lessons learned
 - Have a procedure for incorporating and implementing lessons learned from incident reviews into the operator's plans, programs and specifications.



Notification of Potential Rupture

- § 192.635 - **New Section**
 - Must establish in the O&M as a potential rupture
 - that an unplanned pressure loss greater than 10% within 15 minutes is outside of the normal operating pressures
 - an unexpected change in pressure, flow rate or equipment function downstream or upstream
 - unexplained rapid release of a large volume of gas, a fire, or an explosion in the immediate vicinity of the pipeline.



SECTION 114 PIPES ACT OF 2020



U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

To Protect People and the Environment From the Risks of
Hazardous Materials Transportation



Summary

- The **PIPES Act of 2020** was signed on December 27, 2020
 - [\(Pub. L. 116-260\). Division R](#)
- Section 114 contains self-implementing requirements for operators with respect to their inspection and maintenance plans.
- The requirements appear in the Act itself and 49 U.S.C. 60102 and 60108.



Main Points

- Applies to operators of all regulated pipeline facilities, including DOT-jurisdictional storage facilities and LNG (part 193) facilities.
- By **Dec 27, 2021**, operators must update their inspection and maintenance plans to address:
 - Eliminating hazardous leaks of natural gas
 - Minimizing releases of natural gas
 - Replacement or remediation of all pipelines that are known to leak



Who must update their plans?

- “...each person owning or operating a *gas pipeline facility* or *hazardous liquid pipeline facility*.
- could apply to a hazardous liquid pipeline facility that uses natural gas in the pipeline facility.
- the replacement or remediation is not limited to gas pipeline operators.



What Does it Look Like?

- O&M Plans procedures to minimize
 - Fugitive emissions - unintentional leaks from equipment such as pipelines, flanges, valves, meter sets, or other equipment
 - Vented emissions - release of natural gas to the atmosphere due to equipment design or operations and maintenance procedures
 - pneumatic device bleeds, blowdowns, incomplete combustion, or overpressure protection venting (e.g., relief valves)

Advisory Bulletin ADB-2021-01



What Does it Look Like?

- O&M Plans procedures for the replacement or remediation of pipelines that are known to leak based on
 - the material
 - design,
 - or past operating and maintenance history of the pipeline

Advisory Bulletin ADB-2021-01



What Does it Look Like?

PHMSA's inspections will continue to include an evaluation of the extent to which the plans contribute to both public safety and the protection of the environment.



When must plans be updated?

O&M Plans must update
by December 27, 2021



Where can I find information on the Status of Significant rulemakings?

- DOT
 - Report on DOT Significant Rulemakings (Monthly reports)
 - <http://www.dot.gov/regulations/report-on-significant-rulemakings>
- OMB
 - www.reginfo.gov
 - [DOT Rule List](#)
- eCFR
 - <https://www.ecfr.gov/current/title-49/subtitle-B/chapter-1/subchapter-A/part-106>



Where can I find information on the Status of Significant rulemakings?

- PHMSA Technical Resources
 - <https://www.phmsa.dot.gov/technical-resources/pipeline/pipeline-technical-resources-overview>
- GPAC Meeting slides for reference at “Public Meetings” tab
 - <https://primis.phmsa.dot.gov/meetings/>



Where can I find information on the Status of Significant rulemakings?

- Gas Pipeline Leak Detection and Repair
 - [Docket PHMSA-2021-0039](#)
 - [U.S.C. 60108 govinfo.gov](#)
 - [U.S.C. 60102 govinfo.gov](#)



HOW DID WE DO?



https://dotocio.gov1.qualtrics.com/jfe/form/SV_2rTNDG3eRJgY5h3





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