

Prepared by: [Redacted]



TRANSPORTING PIPE BY RAIL

A-14

Asset Type: Gas Transmission and Distribution

Function: Design

Issued by: [Redacted]

← Original Signed By

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Rev. #01: This document replaces Revision #00. For a description of the changes, see the "Revision Notes" section.

Purpose and Scope

This numbered document provides information about and piping requirements for transporting pipe by rail.

Acronyms

- API: American Petroleum Institute
- CFR: Code of Federal Regulations
- MAOP: maximum allowable operating pressure
- OD: outside diameter
- SMYS: specified minimum yield strength
- WT: wall thickness

Requirements

[49 CFR 192.65](#), "Transportation of pipe" places the following restriction on transporting pipe by rail.

If a pipeline is to be operated at a hoop stress of 20% or more of SMYS, an operator **may not** use pipe having an outer diameter to wall thickness ratio of 70 to 1 or more that was transported by rail, unless one of the following conditions are met.

1. The pipe was transported in accordance with the API RP 5L1 (latest edition).
2. In the case of pipe transported before November 12, 1970, test the pipe in accordance with [Subpart J of 49 CFR 192](#) to at least 1.25 times the MAOP if it is to be installed in a Class 1 location and to at least 1.5 times the MAOP if it is to be installed in a Class 2, 3 or 4 location. Except for shorter time periods permitted under Subpart J, maintain the test pressure for at least eight hours (see Note 2).

Pipes with wall thicknesses less than those shown in Table 1 must meet the requirements specified in this section.

Table 1 Pipe Requirements

Outside Diameter	16	18	20	22	24	26	30	34	36	42
Minimum WT to Provide OD to WT Ratio of 70:1	0.229	0.257	0.286	0.314	0.343	0.372	0.428	0.486	0.514	0.600

Notes

1. Diameters smaller than 16" have an OD to WT ratio of less than 70 to 1 based on the minimum wall thickness shown in [Numbered Document A-10, "Pipe Dimensions and Properties."](#)
2. Section 2 permits using pipe salvaged from an abandoned line or pipe held in stock since before November 12, 1970, known to have been shipped by rail.

Revision Notes

Revision 01 has the following changes:

1. Updated the "Acronyms" section.
2. Revised the referenced document from General Order 112 to CFR.
3. Added the hyperlinks to the referenced documents.
4. This document is part of Change 61.

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