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INDUSTRY
PRACTICES

TECHNICAL REVISION
November 2021

Piping

PIP PNSM0115
Purchasing Requirements for Pipe

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PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determinations concerning fitness for purpose and particular matters or application of this Practice to particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

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PRINTING HISTORY

<i>October 2000</i>	<i>Issued</i>	<i>September 2013</i>	<i>Complete Revision</i>	<i>January 2019</i>	<i>Complete Revision</i>
<i>February 2008</i>	<i>Complete Revision</i>	<i>December 2016</i>	<i>Technical Correction</i>	<i>November 2021</i>	<i>Technical Revision</i>

Not printed with State funds



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1. Scope

This Practice describes the minimum requirements for the procurement of metallic pipe.

2. References

Applicable parts of the following Practice and industry codes and standards shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used except as otherwise noted. Short titles will be used herein where appropriate.

Process Industry Practices (PIP)

- VESPMI01 - *Positive Material Identification Specification*

Industry Codes and Standards

- American Petroleum Institute (API)
 - API Recommended Practice 578 - *Material Verification Procedures for New and Existing Alloy Piping Systems*
 - API Specification 5L - *Line Pipe*
- American Society of Mechanical Engineers (ASME)
 - ASME Boiler and Pressure Vessel Code, Section IX - *Welding and Brazing Qualifications*
 - ASME B1.20.1 - *Pipe Threads, General Purpose (Inch)*
 - ASME B16.11 - *Forged Fittings, Socket Welding and Threaded*
 - ASME B16.25 - *Buttwelding Fittings*
 - ASME B31.3 - *Process Piping*
 - ASME B31.4 - *Pipeline Transportation Systems for Liquids*
 - ASME B31.8 - *Gas Transmission and Distribution Systems*
 - ASME B36.10M - *Welded and Seamless Wrought Steel Pipe*
 - ASME B36.19M - *Stainless Steel Pipe*
- American Society for Testing and Materials (ASTM)
 - ASTM A123 - *Standard Specification for Zinc (Hot-Dip Galvanized) Coatings*
- Compressed Gas Association (CGA)
 - CGA G-4.1 - *Cleaning Equipment for Oxygen Service*
 - CGA G-4.4 - *Industrial Practices for Gaseous Oxygen Transition and Distribution Piping Systems*
- Manufacturers Standardization Society (MSS)
 - MSS SP-25 - *Standard Marking System for Valves, Fittings, Flanges and Unions*
 - MSS SP-138 - *Quality Standard Practice for Oxygen Cleaning of Valves & Fittings*