



PROCESS  
INDUSTRY  
PRACTICES

August 2016

**Pipeline Systems**

**PIP PLSC0001**  
**Fabrication and Examination**  
**of ASME B31.8 Metallic Piping**

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## PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

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## 1. Introduction

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### 1.1 Purpose

This Practice provides requirements for fabricating and examining piping systems in accordance with *ASME B31.8 Gas Transmission and Distribution Piping Systems*, (hereinafter referred to as the *Code*).

### 1.2 Scope

This Practice describes the requirements for both shop and field fabricated piping and pipelines constructed in accordance with *ASME B31.8*. Piping fabrication requirements are provided for materials, welding, forming, and heat treatment.

Examination requirements are provided for piping materials, components, fabrication, assembly, and erection. Requirements for examination documentation are provided. Examination methods, acceptance criteria, and requirements for correction of defective work are also provided.

## 2. References

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Applicable parts of the following Practices 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 are used hereon where appropriate. Code section references below are specific to the code editions in effect at the issuance of this Practice.

### 2.1 Process Industry Practices (PIP)

- PIP PLSC0011 - *Installation of ASME B31.8 Metallic Piping*
- PIP PLC00005 - *Design of ASME B31.8 Metallic Piping*
- PIP PLSC0021 - *Pressure Testing of ASME B31.8 Metallic Piping*
- PIP CTSU1000 - *Application of Underground Coatings*

### 2.2 Industry Codes and Standards

- American Petroleum Institute (API)
  - API Std 1104 - *Welding of Pipelines and Related Facilities*
- American Society of Mechanical Engineers (ASME)
  - *ASME Boiler and Pressure Vessel Code* (hereafter referred to as the BPV Code)
    - Section IX - “Welding, Brazing and Fusing Qualifications”
    - Section V - “Nondestructive Examination”
  - ASME B16.25 - *Buttwelding Ends*
  - ASME B31.8 - *Gas Transmission and Distribution Piping Systems*