Frac Iron Guidelines and Requirements

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Suggested revisions are invited and should be submitted to the Standards Department, API, 200 Massachusetts Avenue, Suite 1100, Washington, DC 20001, standards@api.org.

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Frac Iron Guidelines and Requirements

1 Scope

This document establishes minimum guidelines that set the foundation for reducing the severity and frequency of failures in frac iron equipment.

This document covers temporarily installed pressure-containing equipment (commonly known as frac iron) used to convey stimulation fluids from the fluid end to the wellhead, inclusive of pump-down equipment associated with plug and perforating or ball-drop operations. This document addresses the following equipment:

a) piping or treating lines;

b) connections;

c) hoses;

d) manifolds;

e) pressure-relief devices.

NOTE This document is not intended to cover frac iron equipment intended for use in hydrogen sulfide (H_2S) environments.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document applies (including any addenda/errata).

API Specification 7HU2, *Oilfield Hammer Unions*, First Edition

API Specification 6A, *Specification for Wellhead and Tree Equipment*

API Specification 16C, *Choke and Kill Equipment*

API Recommended Practice 585, *Pressure Equipment Integrity Incident Investigation, Second Edition*

ISO 9712, *Non-destructive testing — Qualification and certification of NDT personnel, Fifth Edition*

ASME *Boiler and Pressure Vessel Code (BPVC), Section IX: Welding and Brazing Qualifications*

ASTM A370, *Standard Test Methods and Definitions for Mechanical Testing of Steel Products*

ASTM E10, *Standard Test Method for Brinell Hardness of Metallic Materials*

ASTM E18, *Metallic materials — Rockwell hardness test*

ASTM E112, *Standard Test Methods for Determining Average Grain Size*

ASTM E110, *Standard Test Method for Rockwell and Brinell Hardness of Metallic Materials by Portable Hardness Testers*

ASTM E165, *Standard Practice for Liquid Penetrant Testing for General Industry*