Qualification of Applicators of Coating/ Plating Services for Equipment Used in the Petroleum and Natural Gas Industry

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Contents

Page

1 Scope ... 1

2 Normative References ... 1

3 Terms and Definitions ... 1

4 Quality Management System ... 3
4.1 General ... 3
4.2 Proprietary License Applications ... 3
4.3 Facility Requirements ... 3
4.4 Process Qualification Requirements ... 3
4.5 Personnel Training and Competency Requirements ... 4

5 Process Control Requirements ... 4

6 Production Control ... 5
6.1 General ... 5
6.2 Outsourced Activities ... 5
6.3 Inspection Requirements ... 5
6.4 Load thermocouple(s) ... 5

7 Records ... 5
7.1 Maintenance and Recording ... 5

8 Identification and Traceability ... 6

9 Nonconforming Product ... 7

10 Preservation of Product ... 7

11 Calibration ... 7
11.1 General ... 7
11.2 Dimensional Measurement ... 8
11.3 Pressure Measurement ... 8
11.4 Thermal Treatment Measurement ... 9

12 Certification ... 10

Bibliography ... 11

Tables

1 Calibration Requirements Summary ... 7

Qualification of Applicators of Coating/Plating Services for Equipment Used in the Petroleum and Natural Gas Industry

1 Scope

This standard specifies requirements for the qualification of organizations providing coating/plating services for use in the petroleum and natural gas industries.

This standard is applicable to the coating/plating of parts, components, and equipment in which API product standards require conformance with this standard or otherwise specified as a requirement.

The plating of electronic components, coating/plating process performed in the field, and the application of weld overlay and cladding are outside the scope of this document.

2 Normative References

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any addenda) applies.

ANSI/ASQ Z1.4,[1] *Sampling Procedures and Tables for Inspection by Attributes*

API Specification Q1, *Quality Management System Requirements for Organizations Providing Products for the Petroleum and Natural Gas Industry*

API Standard 20H:2020, *Heat Treatment Services—Batch Type for Equipment Used in the Petroleum and Natural Gas Industry, Second Edition*

ASTM F519,[2] *Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating/Coating Processes and Service Environments*

ISO/IEC 17025,[3] *General Requirements for the Competence of Testing and Calibration Laboratories*

3 Terms and Definitions

For the purposes of this document, the following definitions apply.

3.1
coating/plating
A layer of a substance added to the surface of an item.

NOTE 1 This can be applied by a vapor, liquid, liquefiable, or mastic composition that, after application to a surface, is converted into a solid protective, decorative, or functional adherent film.

NOTE 2 Coating/plating, which includes paints, can be:

— sprayed,

— thermally diffused,

[1] American Society for Quality, 600 North Plankinton Avenue, Milwaukee, Wisconsin 53203, https://asq.org.
[2] ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, Pennsylvania, 19428-2959, https://www.astm.org.
[3] International Organization for Standardization ISO Central Secretariat, Chemin de Blandonnet 8, CP 401 - 1214 Vernier, Geneva, Switzerland, https://www.iso.org.