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An American National Standard

Standard Practice for Establishing Shipbuilding Quality Requirements for Hull Structure, Outfitting, and Coatings[1]

This standard is issued under the fixed designation F 2016; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice consists of three annexes: hull structure, outfitting, and coating. The subject of these annexes was selected for several reasons. Other commercial shipbuilding nations already have in place widely recognized standards of expectations in these areas. These constitute the most significant areas where workmanship is a critical factor in customer satisfaction. The cost associated with the labor involved in these three areas is a significant factor in construction man-hours and overall schedules.

1.2 The standard criteria provided in this practice are intended to apply to conventional, commercial ship construction. In many cases, specialized, nonconventional vessels using nonstandard materials or built-to-serve sole requirements may require unique acceptance criteria that are beyond those provided in this practice.

2. Referenced Documents

2.1 *ASTM Standards:*

D 4417 Test Methods for Field Measurement of Surface Profile of Blast-Cleaned Steel[2]

E 337 Test Method for Measuring Humidity with a Psychrometer (the Measurement of Wet-Bulb and Dry-Bulb Temperatures[3]

2.2 *ISO Standards:*[4]

ISO 8502–3 Assessment of Dust on Steel Surfaces Prepared for Painting (Pressure-Sensitive Tape Method)

ISO 8502–6 Extraction of Soluble Contaminants for Analysis—The Bresle Method

2.3 *NACE Standards:*[5]

NACE No. 5 Surface Preparation and Cleaning of Steel and Other Hard Materials by High-and Ultrahigh-Pressure Water Jetting Prior to Re-coating (SSPC-SP 12)

NACE No. 7 Interim Guide and Visual Reference Photographs for Steel Cleaned by Water Jetting (SSPC-VIS 4(1))

2.4 *SSPC Standards:*[6]

SSPC-AB 1 Mineral and Slag Abrasives

SSPC-AB 2 Specification for Cleanliness of Recycled Ferrous Metallic Abrasives

SSPC-PA 2 Measurement of Dry Coating Thickness With Magnetic Gages

SSPC-SP 1 Solvent Cleaning

SSPC-SP 2 Hand Tool Cleaning

SSPC-SP 3 Power Tool Cleaning

SSPC-SP 7 Brush-Off Blast Cleaning

SSPC-SP 10 Near-White Blast Cleaning

SSPC-SP 11 Power Toll Cleaning to Bare Metal

SSPC-SP 12 Surface Preparation and Cleaning of Steel and Other Hard Materials by High-and Ultrahigh-Pressure Water Jetting Prior to Re-coating (NACE No. 5)

SSPC-VIS 1-89 Visual Standard for Abrasive Blast Cleaned Steel

SSPC-VIS 3 Visual Standard for Power- and Hand-Tool Cleaned Steel

SSPC-VIS 4(1) Interim Guide and Visual Reference Photographs for Steel Cleaned by Water Jetting (NACE No. 7)

2.5 *NSRP Documents:*[7]

National Shipbuilding Research Project 6–97–1 "American Shipbuilding Quality Standards," dated May 28, 1999

3. Summary of Practice

3.1 This practice provides workmanship criteria to be applied to commercial shipbuilding or ship repair, or both. The criteria covers three primary phases of ship construction, that is, hull structure, outfitting, and coatings. Specific criteria to be

[1] This practice is under the jurisdiction of ASTM Committee F–25 on Ships and Marine Technologyand is the direct responsibility of Subcommittee F25.07on General Requirements.

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[2] *Annual Book of ASTM Standards*, Vol 06.02.

[3] *Annual Book of ASTM Standards*, Vol 11.03.

[4] Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

[5] Available from National Association of Corrosion Engineers, PO Box 218340, Houston, TX 77218.

[6] Available from Society for Protective Coatings, 40 24th St., 6th Floor, Pittsburgh, PA 15222–4656.

[7] Available from The Librarian, Documentation Center, Marine Systems Division, University of Michigan Transportation Research Institute, 2901 Baxter Rd., Ann Arbor, MI 48109–2150.

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