

Specification for Drilling and Well Servicing Structures

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Contents

	Page
1 Scope.....	1
2 Normative References.....	1
3 Terms and Definitions.....	2
4 Product Specification Levels.....	5
5 Marking and Information.....	5
5.1 Nameplate.....	5
5.2 Derrick and Mast Nameplate Information.....	5
5.3 Service Rig Mast Nameplate Information.....	6
5.4 Substructure Nameplate Information.....	7
5.5 Crown Block Assembly Nameplate Information (Required Only for Crown Block Assemblies for Use with Derricks).....	8
6 Structural Safety Level.....	8
7 Design Loading.....	9
8 Design Specification.....	11
8.1 Allowable Strength.....	11
8.2 Design for Stability.....	13
8.3 Operating Loads.....	14
8.4 Wind Loads.....	14
8.5 Dynamic Loads.....	23
8.6 Earthquake Loads.....	24
8.7 Ice Loads.....	24
8.8 Erection Loads.....	24
8.9 Transportation Loads.....	24
8.10 Overturning and Sliding.....	25
8.11 Design Verification.....	26
8.12 Design Validation.....	26
9 Materials.....	26
9.1 General.....	26
9.2 Written Specifications.....	26
9.3 Mechanical Properties.....	27
9.4 Material Qualification.....	27
9.5 Material Manufacture.....	27
9.6 Bolts.....	27
9.7 Wire Rope.....	27
10 Welding Requirements.....	27
10.1 General.....	27
10.2 Welding Qualifications.....	27
10.3 Written Documentation.....	28
10.4 Control of Consumables.....	28
10.5 Weld Properties.....	28
10.6 Postweld Heat Treatment.....	28
10.7 Quality Control Requirements.....	28

Contents

	Page
10.8 Specific Requirement—Repair Welds.....	28
11 Quality Control.....	29
11.1 General.....	29
11.2 Quality Control Personnel Qualifications.....	29
11.3 Measuring and Test Equipment.....	29
11.4 Nondestructive Examination.....	29
11.5 Dimensional Verification.....	30
11.6 Workmanship and Finishing.....	31
11.7 Purchaser’s Inspection and Rejection.....	31
11.8 Testing.....	31
11.9 Traceability.....	32
11.10 Processes Requiring Validation.....	32
12 Documentation.....	33
12.1 General.....	33
12.2 Documentation to Be Kept by the Manufacturer.....	33
12.3 Documentation to Be Delivered with Equipment.....	34
Annex A (normative) Supplementary Requirements.....	35
Annex B (informative) Commentary.....	37
Annex C: The information in this annex has been intentionally removed.....	49
Annex D (informative) Purchasing Guidelines.....	50
Bibliography.....	55

Figures

1 Member Angle of Inclination.....	19
2a Shape Coefficients.....	21
2b Shape Coefficients (Continued).....	22
3 Member Projected Area.....	23
B.1 Projected Area Approach.....	43
B.2 Projected Pressure Approach.....	43
B.3 Velocity Component Approach.....	44

Tables

1 Structural Safety Levels for Drilling Structures.....	9
2 Design Loadings for Drilling Structures.....	10
3 Design Loadings for Service Rig Masts.....	10
4 Onshore Structural Safety Level Multiplier, α_{onshore}	15
5 Offshore Structural Safety Level Multiplier, α_{offshore}	16

Contents

	Page
6 Minimum Design Wind Speed m/s (knots), V_{des}	16
7 Elevation Factor, β Location: All	17
8 Gust Effect Factor	20
A.1 Adjustment Factors for Subsize Impact Specimens	35
B.1 Wind Force Components Using Three Approaches.....	4

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Specification for Drilling and Well Servicing Structures

1 Scope

This specification states requirements and gives recommendations for suitable steel structures for drilling and well servicing operations in the petroleum industry, provides a uniform method of rating the structures, and provides two product specification levels (PSLs).

This specification is applicable to all new steel derricks, masts (including masts with guy lines and service rig masts), substructures, and crown block assemblies with a date of manufacture after the effective date of this specification.

[Annex A](#) provides standard supplementary requirements (SRs) that apply only if specified by the purchaser. [Annex B](#) is an informative annex to assist in an understanding/application of this API specification. [Annex C](#) is an informative annex regarding the API Monogram Program and the API Monogram marking requirements. [Annex D](#) is an informative annex providing guidelines to assist the purchaser with purchasing equipment manufactured to the requirements in this API 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.

API Bulletin 2INT-MET, *Interim Guidance on Hurricane Conditions in the Gulf of Mexico*

API Recommended Practice 2A-WSD, *Recommended Practice for Planning, Designing and Constructing Fixed Offshore Platforms—Working Stress Design*

API Recommended Practice 4G, *Recommended Practice for Use and Procedures for Inspection, Maintenance, and Repair of Drilling and Well Servicing Structures*

API Recommended Practice 9B, *Recommended Practice on Application, Care and Use of Wire Rope for Oilfield Service*

API Specification 8C, *Specification for Drilling and Production Hoisting Equipment (PSL 1 and PSL 2)*

API Specification 9A, *Specification for Wire Rope*

ANSI/AISC 360-16, *Specification for Structural Steel Buildings*

ASCE/SEI 7-05,¹ *Minimum Design Loads for Buildings and Other Structures*

ASTM A370,² *Standard Test Methods and Definitions for Mechanical Testing of Steel Products*

ASTM A778, A578M, *Standard Specification for Straight-Beam Ultrasonic Examination of Rolled Steel Plates for Special Applications*

AWS D1.1/D1.1M,³ *Structural Welding Code — Steel*

¹ American Society of Civil Engineers, 1801 Alexander Bell Drive Reston, Virginia 20191, www.asce.org.

² ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, Pennsylvania 19428-2959, www.astm.org.

³ American Welding Society, Incorporated, 8669 NW 36 Street, # 130, Miami, Florida 33166-6672, www.aws.org.