

Operation, Inspection, Maintenance, and Repair of Drilling and Well Servicing Structures

API RECOMMENDED PRACTICE 4G
FOURTH EDITION, APRIL 2012

ERRATA, SEPTEMBER 2013
ADDENDUM 1, AUGUST 2016



AMERICAN PETROLEUM INSTITUTE

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Upstream Segment

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Foreword

Users/owners may require a period of time to bring existing structures into conformance with new criteria. Due to the number of structures involved and the limited availability of qualified inspectors, the date of the first inspection for existing structures should remain flexible.

This standard shall become effective on the date of publication. The forms in annexes A through D are intended for free exchange between owners/operators of the equipment or users of API 4G.

Shall: As used in a publication, “shall” denotes a minimum requirement in order to conform to the publication.

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Suggested revisions are invited and should be submitted to the Standards Department, API, 1220 L Street, NW, Washington, DC 20005, standards@api.org.

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Operation, Inspection, Maintenance, and Repair of Drilling and Well Servicing Structures

1 Scope

1.1 Objective

This document provides guidelines and establishes recommended procedures for inspection, maintenance, and repair of items for drilling and well servicing structures, in order to maintain the serviceability of this equipment. The information in this document should be considered as supplemental to, and not as a substitute for, the manufacturer's instructions and the recommendations in API 54.

1.2 Structures Covered

Items of drilling and well servicing structures covered by this document include:

- masts/derricks and accessories;
- substructures and accessories.

NOTE 1 Crown block sheaves and bearings are covered under API 8B.

NOTE 2 Offshore masts, derricks, substructures and accessories are not under the scope of this document relative to 6.2.4, Category IV inspection requirements.

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 (including any amendments) applies.

API Specification 4F, *Drilling and Well Servicing Structures*

AISC 335-89¹, *Specification for Structural Steel Buildings—Allowable Stress Design and Plastic Design*

ASNT SNT-TC-1A², *Recommended Practice for Personnel Qualification and Certification in Non-Destructive Testing*

AWS D1.1³, *Structural Welding Code*

3 Terms, Definitions, and Abbreviations

For the purposes of this document, the following terms, definitions and abbreviated terms apply.

3.1 Terms and Definitions

3.1.1 Certification

The act of endorsing as meeting set standards or requirements.

¹ American Institute of Steel Construction, One East Wacker Drive, Suite 700, Chicago, Illinois 60601, www.aisc.org.

² American Society for Nondestructive Testing, 1711 Arlingate Lane, P.O. Box 28518, Columbus, Ohio 43228, www.asnt.org.

³ American Welding Society, 550 NW LeJeune Road, Miami, Florida 33126, www.aws.org.