This standard covers steel storage tanks built to API 650 and its predecessor API 12C. It provides minimum requirements for maintaining the integrity of such tanks after they have been placed in service and addresses inspection, repair, alteration, relocation, and reconstruction.

The scope is limited to the tank foundation, bottom, shell, structure, roof, attached appurtenances, and nozzles to the face of the first flange, first threaded joint, or first welding-end connection. Many of the design, welding, examination, and material requirements of API 650 can be applied in the maintenance inspection, rating, repair, and alteration of in-service tanks. In the case of apparent conflicts between the requirements of this standard and API 650 or its predecessor API 12C, this standard shall govern for tanks that have been placed in service.

This standard employs the principles of API 650; however, storage tank owner/operators, based on consideration of specific construction and operating details, may apply this standard to any steel tank constructed in accordance with a tank specification.

This standard is intended for use by organizations that maintain or have access to engineering and inspection personnel technically trained and experienced in tank design, fabrication, repair, construction, and inspection.

This standard does not contain rules or guidelines to cover all the varied conditions which may occur in an existing tank. When design and construction details are not given, and are not available in the as-built standard, details that will provide a level of integrity equal to the level provided by the current edition of API 650 must be used.

This standard recognizes fitness-for-service assessment concepts for evaluating in-service degradation of pressure containing components. API 579-1/ASME FFS-1, Fitness-For-Service, provides detailed assessment procedures or acceptance criteria for specific types of degradation referenced in this standard. When this standard does not provide specific evaluation procedures or acceptance criteria for a specific type of degradation or when this standard explicitly allows the use of fitness-for-service criteria, API 579-1/ASME FFS-1 may be used to evaluate the various types of degradation or test requirements addressed in this standard.

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## Contents

1. Scope ........................................................................................................... 1-1
   1.1 Introduction ......................................................................................... 1-1
   1.2 Compliance with This Standard ......................................................... 1-1
   1.3 Jurisdiction ......................................................................................... 1-1
   1.4 Safe Working Practices ...................................................................... 1-1
2. References ..................................................................................................... 2-1
   2.1 Referenced Publications ...................................................................... 2-1
   2.2 Other References ................................................................................ 2-2
3. Definitions ..................................................................................................... 3-1
4. Suitability for Service .................................................................................. 4-1
   4.1 General ............................................................................................... 4-1
   4.2 Tank Roof Evaluation .......................................................................... 4-2
   4.3 Tank Shell Evaluation .......................................................................... 4-2
   4.4 Tank Bottom Evaluation ...................................................................... 4-11
   4.5 Tank Foundation Evaluation ............................................................... 4-16
5. Brittle Fracture Considerations .................................................................. 5-1
   5.1 General ............................................................................................... 5-1
   5.2 Basic Considerations ........................................................................... 5-1
   5.3 Assessment Procedure ......................................................................... 5-1
6. Inspection ...................................................................................................... 6-1
   6.1 General ............................................................................................... 6-1
   6.2 Inspection Frequency Considerations ............................................... 6-1
   6.3 Inspections from the Outside of the Tank .......................................... 6-1
   6.4 Internal Inspection .............................................................................. 6-2
   6.5 Alternative to Internal Inspection to Determine Bottom Thickness .... 6-6
   6.6 Preparatory Work for Internal Inspection ......................................... 6-6
   6.7 Inspection Checklists .......................................................................... 6-7
   6.8 Records ............................................................................................... 6-7
   6.9 Reports ................................................................................................ 6-7
   6.10 Nondestructive Examination (NDE). ............................................... 6-8
7. Materials ....................................................................................................... 7-1
   7.1 General ............................................................................................... 7-1
   7.2 New Materials ................................................................................... 7-1
   7.3 Original Materials for Reconstructed Tanks ..................................... 7-1
   7.4 Welding Consumables ........................................................................ 7-1
8. Design Considerations for Reconstructed Tanks ....................................... 8-1
   8.1 General ............................................................................................... 8-1
   8.2 New Weld Joints ................................................................................ 8-1
   8.3 Existing Weld Joints ............................................................................ 8-1
   8.4 Shell Design ....................................................................................... 8-1
   8.5 Shell Penetrations .............................................................................. 8-1
   8.6 Windgirders and Shell Stability ........................................................... 8-2
Contents

B.8 Bottom Settlement Near Shell ................................................................. B-9
B.9 Localized Bottom Depressions or Bulges Remote from Shell ........................ B-10
B.10 Localized Bottom Settlement Limits for Single Pass Welds ........................... B-12
B.11 Maximum Allowable Edge Settlement for Areas with Bottom Lap Welds
    Approximately Parallel to the Shell ......................................................... B-13
B.12 Maximum Allowable Edge Settlement for Areas with Bottom Lap Welds
    Approximately Perpendicular to the Shell ............................................... B-14
B.13 Edge Settlement with a Lap Weld at an Arbitrary Angle to the Shell ................ B-15
H.1 Steps in Conducting Similar Service Assessment ....................................... H-6
H.2 Example Corrosion Rate Curves for Bottom of Storage Tank ......................... H-7
H.3 Example Corrosion Rate Curves for Top Course of Storage Tank .................... H-8

Tables
4.1 Maximum Allowable Shell Stresses ....................................................... 4-7
4.2 Joint Efficiencies for Welded Joints ...................................................... 4-8
4.3 Joint Efficiencies for Riveted Joints ...................................................... 4-9
4.4 Bottom Plate Minimum Thickness .......................................................... 4-15
4.5 Annular Bottom Plate Thicknesses (in.) .................................................. 4-15
6.1 Tank Safeguard ........................................................................................ 6-3
9.1 Hot Tap Connection Sizes and Shell Plate Thicknesses ............................... 9-22
10.1 Maximum Thicknesses on New Welds ...................................................... 10-3
10.2 Radii Tolerances ..................................................................................... 10-5
11.1 Welding Methods as Alternatives to Post-weld Heat Treatment (PWHT) Qualification Thicknesses for Test Plates and Repair Grooves ..................... 11-2
A.1 Editions of API Standard 650 and its Precursor, API Standard 12C .................. A-1
G.1 Suggested Essential Variables for Qualification Tests ................................ G-6
H.1 Similar Service Product Classification ..................................................... H-5