

API 579-1/ASME FFS-1 2007 Fitness-For-Service

FOREWORD

This standard is based on and supercedes the American Petroleum Institute's Recommended Practice 579, Fitness-For-Service.

In contrast to the straightforward and conservative calculations that are typically found in design codes, more sophisticated assessment of metallurgical conditions and analyses of local stresses and strains can more precisely indicate whether operating equipment is fit for its intended service or whether particular fabrication defects or in-service deterioration threaten its integrity. Such analyses offer a sound basis for decisions to continue to run as is or to alter, repair, monitor, retire or replace the equipment.

The publication of the American Petroleum Institute's Recommended Practice 579, Fitness-For-Service, in January 2000 provided the refining and petrochemical industry with a compendium of consensus methods for reliable assessment of the structural integrity of equipment containing identified flaws or damage. API RP 579 was written to be used in conjunction with the refining and petrochemical industry's existing codes for pressure vessels, piping and aboveground storage tanks (API 510, API 570 and API 653). The standardized Fitness-For-Service assessment procedures presented in API RP 579 provide technically sound consensus approaches that ensure the safety of plant personnel and the public while aging equipment continues to operate, and can be used to optimize maintenance and operation practices, maintain availability and enhance the long-term economic performance of plant equipment.

Recommended Practice 579 was prepared by a committee of the American Petroleum Institute with representatives of the Chemical Manufacturers Association, as well as some individuals associated with related industries. It grew out of a resource document developed by a Joint Industry Program on Fitness-For-Service administered by The Materials Properties Council. Although it incorporated the best practices known to the committee members, it was written as a Recommended Practice rather than as a mandatory standard or code.

While API was developing Fitness-For-Service methodology for the refining and petrochemical industry, ASME also began to address post-construction integrity issues. Realizing the possibility of overlap, duplication and conflict in parallel standards, ASME and API formed the Fitness-For-Service Joint Committee in 2001 to develop and maintain a Fitness-For-Service standard for equipment operated in a wide range of process, manufacturing and power generation industries. It was intended that this collaboration would promote the widespread adoption of these practices by regulatory bodies. The Joint Committee included the original members of the API Committee that wrote Recommended Practice 579, complemented by a similar number of ASME members representing similar areas of expertise in other industries such as chemicals, power generation and pulp and paper. In addition to owner representatives, it included substantial international participation and subject matter experts from universities and consulting firms.

This publication is written as a standard. Its words *shall* and *must* indicate explicit requirements that are essential for an assessment procedure to be correct. The word *should* indicates recommendations that are good practice but not essential. The word *may* indicates recommendations that are optional.

Most of the technology that underlies this standard was developed by the Joint Industry Program on Fitness-For-Service, administered by The Materials Properties Council. The sponsorship of the member companies of this research consortium and the voluntary efforts of their company representatives are acknowledged with gratitude.

The committee encourages the broad use of the state-of-the-art methods presented here for evaluating all types of pressure vessels, boiler components, piping and tanks. The committee intends to continuously improve this standard as improved methodology is developed and as user feedback is



Api Rp 579

Welding Research Council (U.S.)



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Guidelines for Asset Integrity Management CCPS (Center for Chemical Process Safety),2017-01-06 This book is an update and expansion of topics covered in *Guidelines for Mechanical Integrity Systems* 2006 The new book is consistent with Risk Based Process Safety and Life Cycle approaches and includes details on failure modes and mechanisms Also example testing an inspection programs is included for various types of equipment and systems Guidance and examples are provided for selecting and maintaining critical safety systems Pressure Vessel related interview Questions and Answers Chetan Singh, This book has been specifically designed for aspiring engineers technicians and professionals who are seeking to pursue a career in the field of pressure vessel technology In this book you will find an extensive collection of the most commonly asked interview questions along with their answers The questions are designed to test your understanding of the fundamental concepts of pressure vessels and their applications The answers on the other hand provide a clear and concise explanation of the key aspects of pressure vessels I have drawn upon my years of experience in the industry and have shared my knowledge on the best approaches to handle different interview scenarios Overall this book is an indispensable resource for anyone looking to secure a position in the field of pressure vessel technology So if you want to ace your pressure vessel interview and take your career to the next level this book is a must read **Guidelines for Mechanical Integrity Systems** CCPS (Center for Chemical Process Safety),2006-08-11 In recent years process safety management system compliance audits have revealed that organizations often have significant opportunities for improving their Mechanical Integrity programs As part of the Center for Chemical Process Safety s Guidelines series *Guidelines for Mechanical Integrity Systems* provides practitioners a basic familiarity of mechanical integrity concepts and best practices The book recommends efficient approaches for establishing a successful MI program **Piping and Pipelines Assessment Guide** Keith Escoe,2006-04-10 Whether it s called fixed equipment at ExxonMobil stationary equipment at Shell or static equipment in Europe this type of equipment is the bread and butter of any process plant Used in the petrochemical industry pharmaceutical industry food processing industry paper industry and the manufacturing process industries stationary equipment must be kept operational and reliable for companies to maintain production and for employees to be safe from accidents This series the most comprehensive of its kind uses real life examples and time tested rules of thumb to guide the mechanical engineer through issues of reliability and fitness for service This volume on piping and pipeline assessment is the only handbook that the mechanical or pipeline engineer needs to assess pipes and pipelines for reliability and fitness for service Provides essential insight to make informed decisions on when to run alter repair monitor or replace equipment How to perform these type of assessments and calculations on pipelines is a hot issue in the petrochemical industry at this time There is very little information on the market right now for pipers and pipeliners with regard to pipe and pipeline fitness for service *Fitness for Adverse Environments in Petroleum and Power Equipment* Martin Prager,1997 Contains 39 papers presented at the July

1997 conference Contributors address crack like flaws with reports on treatment in Fitness for Service evaluation review and validation of the basic failure assessment methodology the methods for acceptance of local thin areas and their justifications a *Proceedings of the ASME Pressure Vessels and Piping Conference--2006: Operations, applications, and components* ,2007 Pressure Vessels and Piping Codes and Standards Thomas C. Esselman,1996 The second of two volumes on codes and standards from a symposium of the July 1996 conference contains papers on international developments seismic developments fabrication repairs and installation issues application of risk based criteria to in service inspections reactor water fatigue and **Fitness-for-Service Evaluations for Piping and Pressure Vessels** George Antaki,2005 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Based on some of his students most frequently asked questions Antaki emphasizes the practical applications of this ASME recommended practice With this book readers will understand and apply API 579 in their daily work The material is based on the author s course and presented in clear concise manor The book demonstrates how the disciplines of stress analysis materials engineering and nondestructive inspection interact and apply to fitness for service assessment These assessment methods apply to pressure vessels piping and tanks that are in service This makes it the perfect companion book for Ellenberger s *Pressure Vessels ASME Code Simplified* as well as Ellenberger s *Piping Systems and Pipeline ASME B31 Code Simplified* **Proceedings of the ASME Pressure Vessels and Piping Conference--2005: Codes and standards** ,2005 **Bulletin** Welding Research Council (U.S.),2003 *Service Experience and Fitness-for-service in Power and Petroleum Processing* Marvin Cohn,Martin Prager,David Osage,2000 Flaw Evaluation, Service Experience, and Reliability Poh-Sang Lam,2003 **Proceedings of the ... International Pipeline Conference** ,2007 **WRC Bulletin** Welding Research Council (U.S.),1999 *Key Engineering Materials* ,2007 **Operations, Applications, and Components** ,1999 Publications, Programs & Services American Petroleum Institute,2005 **Proceedings of the ASME Pressure Vessels and Piping Conference--2006: Codes and standards** ,2007 Proceedings of the ASME Pressure Vessels and Piping Conference--2005: Operations, applications, and components ,2005 **Companion Guide to the ASME Boiler & Pressure Vessel Code** K. R. Rao,2006 This is Volume 2 of the fully revised second edition Organized to provide the technical professional with ready access to practical solutions this revised three volume 2 100 page second edition brings to life essential ASME Codes with authoritative commentary examples explanatory text tables graphics references and annotated bibliographic notes This new edition has been fully updated to the current 2004 Code except where specifically noted in the text Gaining insights from the 78 contributors with professional expertise in the full range of pressure vessel and piping technologies you find answers to your questions concerning the twelve sections of the ASME Boiler and Pressure Vessel Code as well as the B31 1 and B31 3 Piping Codes In addition you find useful examinations of special topics including rules for accreditation and certification perspective on cyclic

impact and dynamic loads functionality and operability criteria fluids pipe vibration stress intensification factors stress indices and flexibility factors code design and evaluation for cyclic loading and bolted flange joints and connections

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