



WebCorr Corrosion Consulting Services Presents

API RP 581 Risk-based Inspection Methodology

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Course Overview

API RP 581-2016 (3rd Edition) is the latest update on the Risk-based Inspection Methodology. This code provides (1) methods for developing an inspection plan for fixed equipment, including pressure vessels, piping, atmospheric storage tanks (AST), pressure relief devices (PRDs), and heat exchanger tube bundles; (2) quantitative methods for calculating the probability of failure (POF) for fixed equipment (the POF is based on the component type and damage mechanisms present based on the process fluid characteristics, design conditions, materials of construction, and the original construction code); (3) quantitative methods for computing the consequence of failure (COF). This 5-day course provides participants with a clear and thorough understanding of the quantitative procedures used to establish an inspection program using risk-based methods outlined in API 581. WebCorr's API RP 580 course is a prerequisite to this API 581 course (API 580 introduces the principles and presents minimum general guidelines for RBI while API 581 provides quantitative calculation methods to determine an inspection plan).

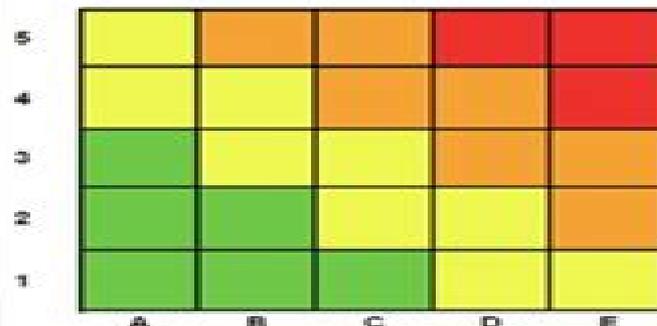
This 5-day corrosion short course is available for in-house training, on-site training, online and distance learning worldwide. It can also be customized to meet the specific needs of your organization.

Who Should Attend

Designers, engineers, inspection and maintenance personnel who are concerned with corrosion, process safety, mechanical integrity, and reliability in the various industries such as refining, petrochemical, chemical process, power, onshore and offshore industries.

Course Outline

1. Introduction to Mechanical Integrity and Risk
2. Scope of API 581
3. Inspection Planning Methodology
 - 3.1 Probability of Failure
 - 3.2 Consequence of Failure
 - 3.3 Risk Analysis



- 3.4 Inspection Planning Based on Risk Analysis
- 3.5 Pressure Vessels And Piping
- 3.6 Atmospheric Storage Tanks
- 3.7 Pressure Relief Devices
- 3.8 Heat Exchanger Tube Bundles
4. Probability of Failure Methodology
 - 4.1 Probability of Failure Methodology
 - 4.2 Thinning Damage Factor
 - 4.3 Component Lining Damage Factor
 - 4.4 SCC Damage Factor – Caustic Cracking
 - 4.5 SCC Damage Factor – Amine Cracking
 - 4.6 SCC Damage Factor – Sulfide Stress Cracking
 - 4.7 SCC Damage Factor – HIC/SOHIC-H₂S
 - 4.8 SCC Damage Factor – Alkaline Carbonate SCC
 - 4.9 SCC Damage Factor – Polythionic Acid SCC
 - 4.10 SCC Damage Factor – Chloride SCC
 - 4.11 SCC Damage Factor – Hydrogen Stress Cracking-HF



Api Rp 581 Risk Based Inspection Methodology Documenting

**Richard B. Eckert, Torben Lund
Skovhus**



Api Rp 581 Risk Based Inspection Methodology Documenting:

Oil and Gas Pipelines R. Winston Revie, 2015-04-01 A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines both onshore and offshore Covers a wide variety of topics including design pipe manufacture pipeline welding human factors residual stresses mechanical damage fracture and corrosion protection inspection and monitoring pipeline cleaning direct assessment repair risk management and abandonment Links modern and vintage practices to help integrity engineers better understand their system and apply up to date technology to older infrastructure Includes case histories with examples of solutions to complex problems related to pipeline integrity Includes chapters on stress based and strain based design the latter being a novel type of design that has only recently been investigated by designer firms and regulators Provides information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety

Metallurgy and Corrosion Control in Oil and Gas Production Robert

Heidersbach, 2018-09-17 Details the proper methods to assess prevent and reduce corrosion in the oil industry using today's most advanced technologies This book discusses upstream operations with an emphasis on production and pipelines which are closely tied to upstream operations It also examines protective coatings alloy selection chemical treatments and cathodic protection the main means of corrosion control The strength and hardness levels of metals is also discussed as this affects the resistance of metals to hydrogen embrittlement a major concern for high strength steels and some other alloys It is intended for use by personnel with limited backgrounds in chemistry metallurgy and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated Metallurgy and Corrosion Control in Oil and Gas Production Second Edition updates the original chapters while including a new case studies chapter Beginning with an introduction to oilfield metallurgy and corrosion control the book provides in depth coverage of the field with chapters on chemistry of corrosion corrosive environments materials forms of corrosion corrosion control inspection monitoring and testing and oilfield equipment Covers all aspects of upstream oil and gas production from downhole drilling to pipelines and tanker terminal operations Offers an introduction to corrosion for entry level corrosion control specialists Contains detailed photographs to illustrate descriptions in the text Metallurgy and Corrosion Control in Oil and Gas Production Second Edition is an excellent book for engineers and related professionals in the oil and gas production industries It will also be an asset to the entry level corrosion control professional who may have a theoretical background in metallurgy chemistry or a related field but who needs to understand the practical limitations of large scale industrial operations associated with oil and gas production

Corrosion Management of Seawater Cooling Systems Francois Ropital, Valerie Bour Beucler, Antoine Surbled, 2024-06-15

Corrosion Management of Seawater Cooling Systems Volume 71 provides an overview on main seawater heat exchanger systems different forms of corrosion biocide treatments corrosion scale inhibitors materials used coatings and cathodic protection maintenance and monitoring and

control The book will be a valuable reference resource for academics technicians and engineers who are interested in the corrosion management of seawater cooling systems The evolution of practices in terms of sustainability materials choice treatment selection and changes to regulations have demonstrated the need to establish this new guide on recommended best practices that support corrosion management and the development of seawater heat exchangers Seawater is considered an attractive resource for utilities in many industries such as power plants refineries and chemical plants Seawater cooling systems are used in heat exchangers in once through cooling water systems and for recirculating cooling water systems The metallurgy and materials used in these facilities need to be compatible with seawater and allow good corrosion control As seawater composition and suspended solids can cause corrosion scaling fouling microbiological growth and macrofouling problems this book is a necessary addition to the conversation Covers key technological developments in corrosion management of seawater cooling systems Includes coverage of seawater heat exchangers Provides information on many different forms of corrosion Presents tactics for the selection of materials corrosion protections inhibitors coatings cathodic protection Discusses maintenance control monitoring and inspection

Failure Analysis of Microbiologically Influenced Corrosion Richard B. Eckert, Torben Lund Skovhus, 2021-11-07 Failure Analysis of Microbiologically Influenced Corrosion serves as a complete guide to corrosion failure analysis with an emphasis on the diagnosis of microbiologically influenced corrosion MIC By applying the principles of chemistry microbiology and metallurgy readers will be able to reliably determine the mechanistic cause of corrosion damage and failures and select the appropriate methods for mitigating future corrosion incidents FEATURES Provides background information on the forensic process types of data or evidence needed to perform the analysis industrial case studies details on the MIC failure analysis process and protocols for field and lab use Presents up to date advances in molecular technologies and their application to corrosion failure investigations Offers specific guidelines for conducting MIC failure analyses and case studies to illustrate their application Examines state of the art information on MIC analytical tools and methods With authors with expertise in microbiology corrosion materials and failure investigation this book provides tools for engineers scientists and technologists to successfully combat MIC issues

Multi-Attribute Decision-Making Rajesh S. Prabhu Gaonkar, 2026-03-12 This book is designed and developed to link the theory emerging methods and applications The theory part focuses on explaining the background and concept of multi attribute decision making The emerging methods part elaborates on frequently adopted and emerging approaches in multi attribute decision making The applications part provides in depth illustrations of various methods using numerical examples The book Uses uncertainty theories such as fuzzy sets Fermatean sets and Dempster Shafer model Illustrates MADM techniques such as AHP TOPSIS MOORA CoCoSO GRA BWM DEA etc and its hybridization with uncertainty theories Covers practical applications from diverse fields including production engineering industrial engineering mechanical engineering and civil engineering Explains circular economy industry 4 0 supplier selection process parameter optimization building

sustainability sustainable manufacturing etc The book is primarily written for graduate students and academic researchers in the fields of mechanical engineering engineering mathematics mathematics engineering design production engineering manufacturing engineering and industrial engineering Selected Topics on Aging Management, Reliability, Safety, and License Renewal Vikram N. Shah, F. L. Cho, 2002 Annotation The role of aging and risk management in safe operation and life extension of nuclear power plants and petrochemical plants is explored in these papers from an August 2002 conference Structural mechanical heat transfer thermal hydraulic fatigue fracture and creep problems are addressed Papers topics include generic aging management programs for license renewal of PWR reactor coolant system components high cycle analytical thermal fatigue test of pipe structures managing aging of coatings for nuclear plant license renewal and signal processing for lifetime management Subjects examined in the category of reliability and safety include a logic model approach to conceptual design of scientific industrial complexes and risk based maintenance There is no subject index Annotation c Book News Inc Portland OR booknews.com **Risk-based Inspection Methodology**, 2016 **Risk-based Inspection Methodology**, 2016 Risk-based Inspection Technology, 2008 **Risk-based Inspection**, 2000 **Risk based inspection methodology** Gerald Joseph Burns, *Risk-based Inspection: General document*, 1991 RECENT CASTASTROPHIC STRUCTURAL FAILURES OCCURING ACROSS MANY INDUSTRIES HIGHLIGHT THE NEED FOR SOCIETY TO RELATE RISK MORE EXPLICITLY WITH INSPECTION PROGRAMS THIS VOLUME DESCRIBES AND RECOMMENDS APPROPRIATE PROCESSES AND METHODS USING RISK BASED INFORMATION TO ESTABLISH INSPECTION GUIDELINES FOR FACILITIES OR STRUCTURAL SYSTEMS **Integrity management through risk based inspection**, 2005 Neste trabalho apresenta se um procedimento que envolve t cnicas de inspe obaseada em risco IBR e adequa o ao uso baseados nas recomenda es API 581 e 579 respectivamente para gerenciar a integridade estrutural de equipamentos est ticos e tubula es sujeitos a perda de espessura por corros o O risco de falhada um equipamento analisado de forma quantitativa atrav s do c lculo daprobabilidade de falha PoF e da conseq ncia de falha CoF Uma vis o geral da IBR e da an lise de risco introduzida e seus objetivos vantagens edesvantagens s o analisados A deteriora o da parede met lica de equipamento sujeitos corros o causa um aumento da PoF ao longo do tempo Esse aumentoda PoF depende da taxa de dano da qualidade da previs o da taxa e ainda daefici ncia dos m todos de inspe o usados para detectar e quantificar essa taxa Afalha de um equipamento pode resultar em conseq ncias tais como danos aosequipamentos vizinhos danos s pessoas parada e perda de produ o contamina o do meio ambiente e danos imagem da empresa Com base nesseprocedimento desenvolveu se um programa para o gerenciamento da integridadede equipamentos Com o programa poss vel estabelecer um plano de inspe o para o equipamento levando se em conta a efici ncia dos m todos de inspe o com o objetivo de manter o equipamento abaixo de um risco de falha dado comoadmiss vel Apresenta se ent o um exemplo de aplica o no qual um vasoseparador de leo e g s est sujeito corros o interna e corros o externa A PoF ea CoF do equipamento s o calculadas de forma quantitativa Um plano

pararealiza o de inspe es proposto sempre se respeitando os prazos m ximos estabelecidos pela NR 13 considerando se a efici ncia da inspe o interna externa e teste hidrost tico adequada para detec o e acompanhamento domecanismo de dano corros o interna e corros o externa atmosf rica atuante novaso Verifica se ent o que com o plano proposto consegue se controlar o riscode falha possibilitando assim um melhor aproveitamento dos recursos de inspe o verificado tamb m se o vaso na poca da inspe o estar adequadoao uso nas condi es de opera o estabelecidas

Risk-based Inspection ,2009 The Application of Risk-based Inspection Methodology in the Petroleum and Petrochemical Industry John T. Reynolds,1996 **Risk-based Inspection** American Petroleum Institute,2009 Risk-based Inspection Technology API (American Petroleum Institute),2008 Inspection Planning Using Risk-based Methods American Society of Mechanical Engineers,2008 This standard presents the concepts and principles used to develop and implement a risk based inspection RBI program Items covered are a an introduction to the concepts and principles of RBI b individual sections that describe the steps in applying these principles within the framework of the RBI process P 1

The Implementation of a Probabilistic Risk Based Inspection Approach Reem Abukharmh,2007 *Risk-based Inspection* ,2016

Api Rp 581 Risk Based Inspection Methodology Documenting Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Api Rp 581 Risk Based Inspection Methodology Documenting**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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