

Corrosion Control, Prevention and Mitigation in Oil & Gas Industry

T. Nagalakshmi, A. Sivasakthi

Abstract: The impact of corrosion within the refining industry ends up in the failure of components. This failure leads to closing down the plant to scrub the corroded components. Additionally, corrosion normally causes serious environmental issues, namely spills and releases. A vital resource for all those that are concerned within the corrosion management of oil and gas infrastructure, corrosion management within the oil and gas industry provides engineers and designers with the tools and strategies to plan and implement comprehensive corrosion-management programs for oil and gas infrastructures. Control of corrosion is important for continuous production and eradicating the well control losses. Materials to be used in down hole have to meet certain characteristics to avoid corrosion and provide additional mechanical strength. It is potential to determine a logical series of steps for material choice, incorporating analysis of the surroundings, corrosion rate calculations, and final material choice based on established limits. Several developments have taken place in refinement the calculation of CO_2 corrosion rates. Moreover, the definition of bitter examination has been reviewed and a way wider evaluation of the relevance of varied established and new materials for various service conditions has been created.

Keywords: Corrosion, Corrosion Rates, Corrosion Resistance Environmental Issues, Plant Failure and Refining.

I. INTRODUCTION

Corrosion of materials could be a major challenge to maintaining the integrity of equipment within the industry. Mobile and static mechanical facilities like pipelines, vessels, tanks, compressors, turbines, and then forth are intermittently subjected to degradation and failure because of corrosion. The impact of corrosion within the oil and gas industry considerably contributes to the unproductive time (NPT) of 20–30% lost from exploration to production [3].

II. CORROSION PREVENTION

Unprotected pipelines corrode, in spite of wherever the pipeline is. If it's buried underground, higher than ground or in sea water, it's progressing to corrosion. About 60% of nation's transmission lines approach their lifespan of a half century, many industries dealing a lot about pipeline failures. While not implementing safety measures and having corrosion management program, corrosion makes transporting dangerous material unsafe [8]. Here are a number of the ways NACE (National Association of Corrosion

Engineers) recommends as a part of an effective corrosion management program to safeguard oil and gas pipelines. Those corrosion preventive methods are as follows,

- A. Cathodic protection
- B. Coatings and linings
- C. Corrosion Inhibitors
- D. Pipeline material

A. Cathodic Protection

Cathodic protection is a technique to manage corrosion by employing a direct electrical current that neutralizes external corrosion generally related to metal pipe. It is typically used once a pipeline is buried underground or in water. While executed on a new pipeline, cathodic protection will forestall corrosion from the beginning. On associate older pipeline, cathodic protection will impede existing corrosion of the pipeline. Tubing protected by cathode is shown in fig. 1.



Fig. 1.Cathode Protected Tubing

B. Coatings and Linings

These are applied to pipelines whether or not higher than or below ground and sometimes are employed in combination with cathodic protection. Another application that is presently obtaining some attention is that the use of fiber-reinforced polymers to strengthen and repair pipelines. The metal strength with and without coating is shown in fig. 2.



Fig. 2.Coatings at Metal Surface

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Corrosion Control In The Oil And Gas Industry

Malcolm A. Kelland



Corrosion Control In The Oil And Gas Industry:

Corrosion Control in the Oil and Gas Industry Sankara Papavinasam, 2013-10-15 The effect of corrosion in the oil industry leads to the failure of parts This failure results in shutting down the plant to clean the facility The annual cost of corrosion to the oil and gas industry in the United States alone is estimated at 27 billion According to NACE International leading some to estimate the global annual cost to the oil and gas industry as exceeding 60 billion In addition corrosion commonly causes serious environmental problems such as spills and releases An essential resource for all those who are involved in the corrosion management of oil and gas infrastructure *Corrosion Control in the Oil and Gas Industry* provides engineers and designers with the tools and methods to design and implement comprehensive corrosion management programs for oil and gas infrastructures The book addresses all segments of the industry including production transmission storage refining and distribution Selects cost effective methods to control corrosion Quantitatively measures and estimates corrosion rates Treats oil and gas infrastructures as systems in order to avoid the impacts that changes to one segment if a corrosion management program may have on others Provides a gateway to more than 1 000 industry best practices and international standards

Corrosion Inhibitors in the Oil and Gas Industry Viswanathan S. Saji, Saviour A. Umoren, 2020-02-10 Provides comprehensive coverage of corrosion inhibitors in the oil and gas industries Considering the high importance of corrosion inhibitor development for the oil and gas sectors this book provides a thorough overview of the most recent advancements in this field It systematically addresses corrosion inhibitors for various applications in the oil and gas value chain as well as the fundamentals of corrosion inhibition and interference of inhibitors with co additives *Corrosion Inhibitors in the Oil and Gas Industries* is presented in three parts The first part on Fundamentals and Approaches focuses on principles and processes in the oil and gas industry the types of corrosion encountered and their control methods environmental factors affecting inhibition material selection strategies and economic aspects of corrosion The second part on Choice of Inhibitors examines corrosion inhibitors for acidizing processes inhibitors for sweet and sour corrosion inhibitors in refinery operations high temperature corrosion inhibitors inhibitors for challenging corrosive environments inhibitors for microbiologically influenced corrosion polymeric inhibitors vapor phase inhibitors and smart controlled release inhibitor systems The last part on Interaction with Co additives looks at industrial co additives and their interference with corrosion inhibitors such as antiscalants hydrate inhibitors and sulfide scavengers Presents a well structured and systematic overview of the fundamentals and factors affecting corrosion Acts as a handy reference tool for scientists and engineers working with corrosion inhibitors for the oil and gas industries Collectively presents all the information available on the development and application of corrosion inhibitors for the oil and gas industries Offers a unique and specific focus on the oil and gas industries *Corrosion Inhibitors in the Oil and Gas Industries* is an excellent resource for scientists in industry as well as in academia working in the field of corrosion protection for the oil and gas sectors and will appeal to materials scientists

electrochemists chemists and chemical engineers 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 Protection for the Oil and Gas Industry Mavis Sika Okyere, 2019-02-14 Corrosion Protection for the Oil and Gas Industry Pipelines Subsea Equipment and Structures summarizes the main causes of corrosion and requirements for materials protection selection of corrosion resistant materials and coating materials commonly used for corrosion protection and the limitations to their use application and repair This book focuses on the protection of steels against corrosion in an aqueous environment either immersed in seawater or buried It also includes guidelines for the design of cathodic protection systems and reviews of cathodic protection methods materials installation and monitoring It is concerned primarily with the external and internal corrosion protection of onshore pipelines and subsea pipelines but reference is also made to the protection of other equipment subsea structures risers and shore approaches Two case studies design examples and the author's own experiences as a pipeline integrity engineer are featured in this book Readers will develop a high quality and in depth understanding of the corrosion protection methods available and apply them to solve corrosion engineering problems This book is aimed at students practicing engineers and scientists as an introduction to corrosion protection for the oil and gas industry as well as to overcoming corrosion issues **Guidance for Corrosion Management in Oil and Gas Production and Processing**, 2019 **Corrosion in the Petrochemical**

Industry Linda Garverick,1994-01-01 A comprehensive collection of peer reviewed data and information on corrosion in the petroleum petrochemical and chemical processing industries from a number of ASM International publications The principal sources are Corrosion Volume 13 and Failure Analysis and Prevention Volume 11 of ASM H Oil and Gas Corrosion Prevention James G. Speight,2014-03-13 According to NACE National Association of Corrosion Engineers the total annual cost of corrosion in petroleum refining takes up 3 7 billion in the US alone Corrosion control is always a challenge for the downstream industry but as the quality of feedstock is declining due to refineries accepting more of the heavy and shale gas and oil resources that are more readily available today refinery managers petroleum and natural gas engineers are unprepared for the new set of corrosion problems that are showing up in their equipment and processing units Oil and Gas Corrosion Prevention From Surface Facilities to Refineries quickly gets the engineer and manager up to speed on the latest types of corrosion common for these lower grade crude oils and gases as well as the best prevention methods for all of the major sections of the refinery especially desalting and sulfur recovery units which are the most common problem areas for unconventional feedstocks Also covering the unique midstream sections or point of entry to the refinery as well as the major critical refinery equipment Oil and Gas Corrosion Prevention From Surface Facilities to Refineries offers the perfect quick cross reference for the oil and gas community Gets engineers and managers up to speed on the latest types of corrosion common for lower grade crude oils and gases Provides the best prevention methods for all of the major sections of the refinery especially desalting and sulfur recovery units Covers additional topics such as unique midstream sections or point of entry to the refinery as well as major critical refinery equipment **Metallurgy and Corrosion Control in Oil and Gas Production** Robert Heidersbach,2010-12-01 This book is intended for engineers and related professionals in the oil and gas production industries 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 It is also 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 While the may use by technicians and others with limited formal technical training it will be written on a level intended for use by engineers having had some exposure to college level chemistry and some familiarity with materials and engineering design **Production Chemicals for the Oil and Gas Industry** Malcolm A. Kelland,2014-03-13 This text discusses a wide variety of production chemicals used by the oil and gas industry for down hole and topside applications both onshore and offshore It reviews all past and present classes of production chemicals providing numerous difficult to obtain references Unlike other texts that focus on how products perform in the field this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance Where known it also details the environmental aspects of the chemicals discussed and their success in

the field *Crises in Oil, Gas and Petrochemical Industries* Mohammad Reza Rahimpour, Babak Omidvar, Nazanin Abrishami Shirazi, Mohammad Amin Makarem, 2023-07-13 *Crises in Oil Gas and Petrochemical Industries Disasters and Environmental Challenges* provides an overview of both natural and manmade disasters occurring in oil gas and petrochemical industries while also covering special solutions based on their types This volume includes the effects of natural disasters such as earthquakes floods and hurricanes as well as manmade incidents including fire events explosions and the release of dust and toxic substances on various related units and plants In addition the long term side effects on both humans and the environment resulted from these industries are presented Problems such as releasing wastes and venting gases into the environment and challenges from overusing the natural resources and producing noise pollutants are also discussed in detail Introduces the effects of natural disasters on the oil gas and petrochemical industries Describes the effect of manmade disasters on oil gas and petrochemical industries Discusses the long term side effects of oil gas and petrochemical units on humans and the environments

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