

Improving Safety And Productivity In Oil And Gas Operations

Preben Hempel Lindøe, Michael Baram, Ortwin Renn

The Human Factors of Process Safety and Worker Empowerment in the Offshore Oil Industry National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Human-Systems Integration, Steering Committee on the Human Factors of Process Safety and Worker Empowerment in the Offshore Oil Industry: A Workshop, 2018-08-20 Since the 2010 Deepwater Horizon blowout and oil spill, efforts to improve safety in the offshore oil industry have resulted in the adoption of new technological controls, increased promotion of safety culture, and the adoption of new data collection systems to improve both safety and performance. As an essential element of a positive safety culture, operators and regulators are increasingly integrating strategies that empower workers to participate in process safety decisions that reduce hazards and improve safety. While the human factors of personal safety have been widely studied and widely adopted in many high-risk industries, process safety – the application of engineering, design, and operative practices to address major hazard concerns – is less well understood from a human factors perspective, particularly in the offshore oil industry. The National Academies of Sciences, Engineering, and Medicine organized a workshop in January 2018 to explore best practices and lessons learned from other high-risk, high-reliability industries for the benefit of the research community and of citizens, industry practitioners, decision makers, and officials addressing safety in the offshore oil industry. This publication summarizes the presentations and discussions from the workshop.

Optimization and Business Improvement Studies in Upstream Oil and Gas Industry Sanjib Chowdhury, 2016-08-01 Delves into the core and functional areas in the upstream oil and gas industry covering a wide range of operations and processes Oil and gas exploration and production (E&P) activities are costly, risky and technology-intensive. With the rise in global demand for oil and fast depletion of easy reserves, the search for oil is directed to more difficult areas – deepwater, arctic region, hostile terrains; and future production is expected to come from increasingly difficult reserves – deeper horizon, low quality crude. All these are making E&P activities even more challenging in terms of operations, technology, cost and risk. Therefore, it is necessary to use scarce resources judiciously and optimize strategies, cost and capital, and improve business performance in all spheres of E&P business. Optimization and Business Improvement Studies in Upstream Oil and Gas

Industry contains eleven real-life optimization and business improvement studies that delve into the core E&P activities and functional areas covering a wide range of operations and processes. It uses various quantitative and qualitative techniques, such as Linear Programming, Queuing theory, Critical Path Analysis, Economic analysis, Best Practices Benchmark, Business Process Simplification etc. to optimize Productivity of drilling operations Controllable rig time loss Deepwater exploration strategy Rig move time and activity schedule Offshore supply vessel fleet size Supply chain management system Strategic workforce and human resource productivity Base oil price for a country Standardize consumption of materials Develop uniform safety standards for offshore installations Improve organizational efficiency through business process simplification The book will be of immense interest to practicing managers, professionals and employees at all levels/ disciplines in oil and gas industry. It will also be useful to academicians, scholars, educational institutes, energy research institutes, and consultants dealing with oil and gas. The work can be used as a practical guide to upstream professionals and students in petroleum engineering programs.

Performance Management for the Oil, Gas, and Process Industries Robert Bruce Hey, 2017-04-06 Performance Management for the Oil, Gas, and Process Industries: A Systems Approach is a practical guide on the business cycle and techniques to undertake step, episodic, and breakthrough improvement in performance to optimize operating costs. Like many industries, the oil, gas, and process industries are coming under increasing pressure to cut costs due to ongoing construction of larger, more integrated units, as well as the application of increasingly stringent environmental policies. Focusing on the 'value adder' or 'revenue generator' core system and the company direction statement, this book describes a systems approach which assures significant sustainable improvements in the business and operational performance specific to the oil, gas, and process industries. The book will enable the reader to: utilize best practice principles of good governance for long term performance enhancement; identify the most significant performance indicators for overall business improvement; apply strategies to ensure that targets are met in agreed upon time frames. - Describes a systems approach which assures significant sustainable improvements in the business and operational performance specific to the oil, gas, and process industries - Helps readers set appropriate and realistic short-term/ long-term targets with a pre-built facility health checker - Elucidates the relationship between PSM, OHS, and Asset Integrity with an increased emphasis on behavior-based safety - Discusses specific oil and gas industry issues and examples such as refinery and gas plant performance initiatives and hydrocarbon accounting

Evaluating the Effectiveness of Offshore Safety and Environmental Management Systems United States. Committee on the Effectiveness of Safety and Environmental Management Systems for Outer Continental Shelf Oil and Gas Operations, 2012 This report recommends that the Bureau of Safety and Environmental Enforcement (BSEE) take a holistic approach to evaluating the effectiveness offshore oil and the Safety and Environmental Management Systems (SEMS)

programs of gas industry operators. According to the report, this approach should, at a minimum, include inspections, audits by the operator and BSEE, key performance indicators, and a whistleblower program. SEMS is a safety management system (SMS) aimed at shifting from a completely prescriptive regulatory approach to one that is proactive, risk based, and goal oriented in an attempt to improve safety and reduce the likelihood that events similar to the April 2010 Macondo incident will reoccur. According to the committee that produced the report, it is not possible for a regulator to create a culture of safety in an organization by inspection or audit; that culture needs to come from within the organization. To be successful, the tenets of SEMS must be fully acknowledged and accepted by workers, motivated from the top, and supported throughout the organization and must drive worker actions. The report also notes that BSEE can encourage and aid industry in development of a culture of safety by the way it measures and enforces SEMS. The committee believes BSEE should seize this opportunity to make a step change in safety culture by adopting a goal based holistic approach to evaluating the effectiveness of SEMS programs. In recommending a holistic approach to evaluating the effectiveness of SEMS programs, the report explores in detail the role of SEMS in helping to develop a culture of safety, highlights the pros and cons of various methods of assessing the effectiveness of a SEMS program, and investigates existing approaches for assessing the SMS programs of various U.S. and international regulatory agencies whose safety mandates are similar to that of BSEE.

Process Safety in Upstream Oil and Gas CCPS (Center for Chemical Process Safety),2021-04-13 The book makes the case for process safety and provides a brief overviews of the upstream industry and of CCPS Risk Based Process Safety. The majority of the book focuses on the concepts of implementing process safety in wells, onshore, offshore, and projects. Topics include Overview of Upstream Operations; Overview of Risk Based Process Safety (RBPS); Application of RBPS in Drilling, Completions, Work-Overs & Interventions, Application of RBPS in Onshore Production, Application of RBPS in Offshore Production, Application of RBPS to Engineering Design, Installation, and Construction, Future Developments in the Field

Strengthening the Safety Culture of the Offshore Oil and Gas Industry National Academies of Sciences, Engineering, and Medicine (U.S.). Committee on U.S. Offshore Oil and Gas Industry Safety Culture,2016 TRB Special Report 321: Strengthening the Safety Culture of the Offshore Oil and Gas Industry offers recommendations to industry and regulators to strengthen and sustain the safety culture of the offshore oil and gas industry. The committee that prepared the report addresses conceptual challenges in defining safety culture and discusses the empirical support for the definition of safety culture offered by the Bureau of Safety and Environmental Enforcement, the nine characteristics or elements of a robust safety culture, methods for assessing company safety culture, and barriers to improving safety culture in the offshore industry. The committee's report also identifies topics on which further research is needed with respect to assessing, improving, and sustaining safety culture--Provided by publisher.

Safety Engineering in the Oil and Gas Industry Karan Sotoodeh,2023-08-10 When accidents occur in the oil and gas

industry, the impacts can be profound. Serious injury or death to workers, environmental disasters and colossal costs for insurance or clean ups make the industry a hazardous one to operate in. Disasters become major news events such as the Prestige oil spill, Piper Alpha, Exxon Valdez oil spill and Deepwater Horizon. A move towards improving the health and safety of the industry is underway. This book emphasizes controlling, managing, and mitigating the risk of hazards in the oil and gas industry, increasing safety, and protecting the environment by identifying the hazards in the oil and gas industry through safety engineering techniques and management methods. Safety Engineering in the Oil and Gas Industry discusses how to improve safety and reliability in the oil and gas industry so that hazards can be reduced to the lowest level feasible. It covers the techniques needed to operate safely in an oil and/or gas industry setting, the standards that should be adhered to, the impacts of PPE, fire and explosions, equipment and infrastructure failures and storage and reliability engineering, amongst many other topics. This book is written in an easy-to-read and appealing style and multiple-choice questions are included to help with learning and understanding the concepts included. Underpinned by real life case studies and examples, this book aims to allow readers to consider how they can reduce the costs associated with bad safety practices to their business through maintained and consistent health, safety and environmental (HSE) standards. This book is a must-read for any student or professional studying or working in the oil and gas industries. It also has additional appeal to those with an academic or professional interest in occupational health and safety, civil engineering, offshore engineering and maritime engineering.

Oil and Gas, Technology and Humans Denis Besnard, Eirik Albrechtsen, 2018-08-22 The oil and gas industry is going through a major technological shift. This is particularly true of the Norwegian continental shelf where new work processes are being implemented based on digital infrastructure and information technology. The term Integrated Operations (IO) has been applied to this set of new processes. It is defined by the Centre for Integrated Operations in the Petroleum Industry as 'work processes and technology to make smarter decisions and better execution, enabled by ubiquitous real time data, collaborative techniques and access to multiple expertise'. It's claimed that IO is efficient, optimises exploration, reduces costs and improves safety performance. However, the picture is not as clear-cut as it may appear. On the one hand, the new work processes do not prevent major accidents: IO-related factors have been identified in recent events such as the Deepwater Horizon catastrophe. On the other hand, IO technology provides improved decision-making support (such as access to real-time data and expertise), which can reduce human and material losses and damage to the environment. Given these very different properties, it's vital that the industry has a detailed understanding of the benefits and drawbacks of IO, which this book sets out to do from a multidisciplinary point of view. It analyses Integrated Operations from the angles of statistics, management science, human factors and resilience engineering. These varied disciplines provide a multifaceted understanding of IO that better informs risk assessment practices, as well as explaining new techniques and methods and

provides state-of-the-art guidance to risk assessment practitioners working in the oil and gas industry.

Applied Operational Excellence for the Oil, Gas, and Process Industries Dennis P. Nolan, Eric T Anderson, 2015-08-13 Applied Operational Excellence for the Oil, Gas, and Process Industries offers a straightforward practical guide for oil and gas companies to understand the comparisons and contrasts between various types of safety management processes, including the standardized structure and ongoing extended benefits that operational excellence can bring to an oil and gas company. The goal of achieving operational excellence is to reduce costs, improve productivity, and enhance efficiency—in other words, operational excellence contributes to the bottom line. Following along with pre-built success in the process industries, many companies in the oil and gas industry appear to use a subset form of operational excellence, yet many are unsure or unaware of all the safety system components that will truly benefit the company holistically, and current literature is only applicable to the process and manufacturing industries. Packed with clear objectives and tools, structure guidelines specific to oil and gas, and guidance for how to imbed your existing safety program under the operational excellence umbrella known as One-Step Merger, this book will help you establish an overall safety culture vision and challenge your organization to achieve higher levels of safety management and overall company value. - Explores how to solidify a foundational operational excellence program applicable for your oil and gas company - Clarifies the differences and benefits among various programs under operational excellence (OE), such as SHE (safety, health, and environment), PSM (process safety management), and SMS (safety management system) - Explains how to audit and consistently assess how oil and gas OE systems are planned, implemented, and managed, with explanations on cost and time impacts as well as administrative protocols - Includes a glossary, acronym appendix, and additional references for further reading

Strengthening the Safety Culture of the Offshore Oil and Gas Industry National Academies of Sciences, Engineering, and Medicine (U.S.). Committee on U.S. Offshore Oil and Gas Industry Safety Culture, 2016 TRB Special Report 321: Strengthening the Safety Culture of the Offshore Oil and Gas Industry offers recommendations to industry and regulators to strengthen and sustain the safety culture of the offshore oil and gas industry. The committee that prepared the report addresses conceptual challenges in defining safety culture and discusses the empirical support for the definition of safety culture offered by the Bureau of Safety and Environmental Enforcement, the nine characteristics or elements of a robust safety culture, methods for assessing company safety culture, and barriers to improving safety culture in the offshore industry. The committee's report also identifies topics on which further research is needed with respect to assessing, improving, and sustaining safety culture--Provided by publisher.

High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National

Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States. Advances in locating deposits, and improvements in drilling and recovery technology, have made it technically and economically feasible to extract these resources under harsh conditions. But extracting these offshore petroleum resources involves the possibility, however remote, of oil spills, with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction. The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and, thus, cleanup can be problematic. Bolted connections are an integral feature of deep-water well operations. High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment, as well as best practices from other industrial sectors. It focuses on critical bolting—bolts, studs, nuts, and fasteners used on critical connections.

Improving Contractor Safety Performance in the Natural Gas Industry Merlin J. Tomczyk, 1996

Conduct of Operations and Operational Discipline CCPS (Center for Chemical Process Safety), 2011-12-28 Process safety management (PSM) systems are only as effective as the day-to-day ability of the organization to rigorously execute system requirements correctly every time. The failure of just one person in completing a job task correctly just one time can unfortunately lead to serious injuries and potentially catastrophic incidents. In fact, the design, implementation, and daily execution of PSM systems are all dependent on workers at all levels in the organization doing their job tasks correctly every time. High levels of Operational Discipline, therefore, help ensure strong PSM performance and overall operational excellence. This book details management practices which help ensure rigor in executing process safety programs in order to prevent major accidents.

The Power of Artificial Intelligence for the Next-Generation Oil and Gas Industry Pethuru Raj Chelliah, Venkatraman Jayasankar, Mats Agerstam, B. Sundaravadivazhagan, Robin Cyriac, 2023-12-04 The Power of Artificial Intelligence for the Next-Generation Oil and Gas Industry Comprehensive resource describing how operations, outputs, and offerings of the oil and gas industry can improve via advancements in AI The Power of Artificial Intelligence for the Next-Generation Oil and Gas Industry describes the proven and promising digital technologies and tools available to empower the oil and gas industry to be future-ready. It shows how the widely reported limitations of the oil and gas industry are being nullified through the application of breakthrough digital technologies and how the convergence of digital technologies helps create new possibilities and opportunities to take this industry to its next level. The text demonstrates how scores of proven digital technologies, especially in AI, are useful in elegantly fulfilling complicated requirements such as process optimization, automation and orchestration, real-time data analytics, productivity improvement, employee safety, predictive maintenance,

yield prediction, and accurate asset management for the oil and gas industry. The text differentiates and delivers sophisticated use cases for the various stakeholders, providing easy-to-understand information to accurately utilize proven technologies towards achieving real and sustainable industry transformation. The Power of Artificial Intelligence for the Next-Generation Oil and Gas Industry includes information on: How various machine and deep learning (ML/DL) algorithms, the prime modules of AI, empower AI systems to deliver on their promises and potential Key use cases of computer vision (CV) and natural language processing (NLP) as they relate to the oil and gas industry Smart leverage of AI, the Industrial Internet of Things (IIoT), cyber physical systems, and 5G communication Event-driven architecture (EDA), microservices architecture (MSA), blockchain for data and device security, and digital twins Clearly expounding how the power of AI and other allied technologies can be meticulously leveraged by the oil and gas industry, The Power of Artificial Intelligence for the Next-Generation Oil and Gas Industry is an essential resource for students, scholars, IT professionals, and business leaders in many different intersecting fields.

Human Factors Methods for Improving Performance in the Process Industries CCPS (Center for Chemical Process Safety),2007-02-03 Human Factors Methods for Improving Performance in the Process Industries provides guidance for managers and plant engineering staff on specific, practical techniques and tools for addressing forty different human factors issues impacting process safety. Human factors incidents can result in injury and death, damage to the environment, fines, and business losses due to ruined batches, off-spec products, unplanned shutdowns, and other adverse effects. Prevention of these incidents increases productivity and profits. Complete with examples, case histories, techniques, and implementation methodologies, Human Factors Methods for Improving Performance in the Process Industries helps managers and engineering staff design and execute an efficient program. Organized for topical reference, the book includes: An overview on implementing a human factors program at the corporate level or the plant level, covering the business value, developing a program to meet specific needs, improving existing systems, roles and responsibilities, measures of performance, and more Summaries of forty different human factors relating to process safety, with a description of the tools, a practical example with graphics and visual aids, and additional resources Information on addressing the OSHA Process Safety Management (PSM) requirement for conducting human factors reviews in process hazard analyses (PHAs) A CD-ROM with a color version of the book Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Risk Governance of Offshore Oil and Gas Operations Preben Hempel Lindøe,Michael Baram,Ortwin Renn,2014 This book evaluates and compares risk regulation and safety management for offshore oil and gas operations in the United States, United Kingdom, Norway, and Australia. It provides an interdisciplinary approach with legal, technological, and sociological perspectives on their efforts to assess and prevent major accidents and improve safety performance offshore. Presented in

three parts, the volume begins with a review of the technical, legal, behavioral, and sociological factors involved in designing, implementing, and enforcing a regulatory regime for industrial safety. It then evaluates the four regulatory regimes that encompass the cultural, legal, and other contextual factors that influence their design and implementation, along with their reliance on industrial expertise and standards and the use of performance indicators. The final section presents an assessment of the resilience of the Norwegian regime and its capacity to keep pace with new technologies and emerging risks, respond to near miss incidents, encourage safety culture, incorporate vested rights of labor, and perform inspection and self-audit functions. This book is highly relevant for those in government, business, academia, and elsewhere in civil society who are involved in offshore safety issues, including regulatory authorities and industrial safety professionals.

Macondo Well Deepwater Horizon Blowout National Research Council, National Academy of Engineering, Board on Environmental Studies and Toxicology, Marine Board, Committee on the Analysis of Causes of the Deepwater Horizon Explosion, Fire, and Oil Spill to Identify Measures to Prevent Similar Accidents to the Future, 2012-03-02 The blowout of the Macondo well on April 20, 2010, led to enormous consequences for the individuals involved in the drilling operations, and for their families. Eleven workers on the Deepwater Horizon drilling rig lost their lives and 16 others were seriously injured. There were also enormous consequences for the companies involved in the drilling operations, to the Gulf of Mexico environment, and to the economy of the region and beyond. The flow continued for nearly 3 months before the well could be completely killed, during which time, nearly 5 million barrels of oil spilled into the gulf. Macondo Well-Deepwater Horizon Blowout examines the causes of the blowout and provides a series of recommendations, for both the oil and gas industry and government regulators, intended to reduce the likelihood and impact of any future losses of well control during offshore drilling. According to this report, companies involved in offshore drilling should take a system safety approach to anticipating and managing possible dangers at every level of operation—from ensuring the integrity of wells to designing blowout preventers that function under all foreseeable conditions—in order to reduce the risk of another accident as catastrophic as the Deepwater Horizon explosion and oil spill. In addition, an enhanced regulatory approach should combine strong industry safety goals with mandatory oversight at critical points during drilling operations. Macondo Well-Deepwater Horizon Blowout discusses ultimate responsibility and accountability for well integrity and safety of offshore equipment, formal system safety education and training of personnel engaged in offshore drilling, and guidelines that should be established so that well designs incorporate protection against the various credible risks associated with the drilling and abandonment process. This book will be of interest to professionals in the oil and gas industry, government decision makers, environmental advocacy groups, and others who seek an understanding of the processes involved in order to ensure safety in undertakings of this nature.

Guidelines for Integrating Management Systems and Metrics to Improve Process Safety Performance CCPS (Center for

Chemical Process Safety),2016-02-23 This book combines the synergies between performance improvement systems to help ensure safe and reliable operations, streamline procedures and cross-system auditing, and supporting regulatory and corporate compliance requirements. Many metrics are common to more than one area, such that a well-designed and implemented integrated management system will reduce the load on the Process Safety, SHE, Security and Quality groups, and improve manufacturing efficiency and customer satisfaction. Systems to improve performance include: process safety; traditional safety, health and environment; and, product quality. Chapters include: Integrating Framework; Securing Support & Preparing for Implementation; Establishing Common Risk Management Systems - How to Integrate PSM into Other EH; Testing Implementation Approach; Developing and Agreeing on Metrics; Management Review; Tracking Integration Progress and Measuring Performance; Continuous Improvement; Communication of Results to Different Stakeholders; Case Studies; and Examples for Industry.

Risk Management in the Oil and Gas Industry Gerardo Portela Da Ponte Jr,2021-06-09 Risk Management in the Oil and Gas Industry: Offshore and Onshore Concepts and Case Studies delivers the concepts, strategies and good practices of offshore and onshore safety engineering that are applicable to petroleum engineering and immediately surrounding industries. Guided by the strategic risk management line, this reference organizes steps in order of importance and priority that should be given to the themes in the practical exercise of risk management activities, from the conceptual and design phase to operational and crisis management situations. Each chapter is packed with practical case studies, lessons learned, exercises, and review questions. The reference also touches on the newest techniques, including liquefied natural gas (cryogenics) operations and computer simulations that contemplate the influence of human behavior. Critical for both the new and experienced engineer, this book gives the best didactic tool to perform operations safely and effectively. Helps readers by presenting practical case studies and exercises that are included in every chapter Presents an understanding on how to approach and apply best practices specific to the oil and gas industry, both offshore and onshore Provides the knowledge needed to gain new techniques in computer simulation and human factors to apply to various sectors of the industry, including subsea and refineries

Human Factors Handbook for Process Plant Operations CCPS (Center for Chemical Process Safety),2022-04-26 Human Factors Handbook for Process Plant Operations Provides clear and simple instructions for integrating Human Factors principles and practices in the design of processes and work tasks Human Factors, the science of interaction between humans and other elements of a system, draws from disciplines such as psychology, ergonomics, anthropometrics, and physiology to understand how and why people behave and perform as they do—and how best to support them in performing tasks. The goals of the Human Factors approach are to improve human reliability, minimize the risk from human error, and optimize the working environment, human wellbeing, and overall system performance. Human Factors Handbook for Process

Plant Operations guides supervisors, managers, and engineers on incorporating Human Factors principles and practices into plant maintenance and operations. With thorough and accessible coverage of all Human Factors topics of relevance to process industries, this easy-to-use handbook uses real-world anecdotes and case studies to demonstrate effective training and learning, task planning, communications, emergency response, risk and error management, and more. Throughout the text, the authors offer valuable insights into why people make mistakes while providing advice on how to help workers perform their process operational tasks successfully. Explains all essential Human Factors concepts and knowledge with clear descriptions and illustrative examples Offers actionable advice and models of good practice that can be applied to design, process operations, start-ups and shut-downs, and maintenance Addresses job aids, equipment design, competence, task support, non-technical skills, working with contractors, and managing change Discusses how lack of Human Factors considerations during the engineering design phase can adversely affect safety and performance Describes how to use indicators to both recognize and learn from human error and performance issues Written by highly experienced operating and maintenance personnel, Human Factors Handbook for Process Plant Operations is an indispensable resource for everyone involved with defining, planning, training, and managing process operations, maintenance, and emergency response in the food, pharmaceutical, chemical, petroleum, and refining industries. The missions of both the CCPS and EI include developing and disseminating knowledge, skills and good practices to protect people, the environment, and property by bringing the best knowledge and practices to industry, academia, governments and the public around the world through collective wisdom, tools, training and expertise. The CCPS, an industrial technology alliance of the American Institute of Chemical Engineers (AIChE), has been at the forefront of documenting and sharing important process safety risk assessment methodologies for more than 35 years and has published over 100 books in its process safety guidelines and process safety concept book series. The EI's Technical Work Program addresses the depth and breadth of the energy sector from fuels and fuels distribution to health and safety, sustainability and the environment. The EI program provides cost-effective, value-adding knowledge on key current and future international issues affecting those in the energy sector.

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