

Refinery Updates...

- ❑ The American Petroleum Institute issued two new refinery safety standards on April 22, 2010. The first will help processors identify and use safety indicators to reduce risks, while the second will provide guidance on reducing fatigue risks.
- ❑ One-third of all investigations by the Chemical Safety and Hazard Investigation Board are currently at refineries.
- ❑ Part of the problem in maintaining adequate safety is that there are few incentives for refiners to make work environments safer and little in the way of consequences from OSHA when there is a serious accident.
- ❑ OSHA recently hit BP with dozens of safety violations, at their refinery in Toledo, Ohio, which could cost them nearly 3 million in fines. This, after 5 months ago OSHA slapped them with 87.5 million in fines for failing to fix safety problems at the refinery in Texas found after the deadly explosion that killed 15 workers.



Tesoro's Aftermath

Recent Accidents

March 2, 2010: An explosion and fire at Dallas-based Holly Corp.'s refinery in New Mexico kills two workers.

Dec. 4, 2009: A boiler fails at San Antonio-based Valero Energy's Texas City plant, killing one worker.

March 10, 2009: Explosion at a Marathon Oil Corp. facility in Vacherie, La., kills one and injures three.

Nov. 6, 2005: Two workers are killed at Valero oil refinery in Delaware City, Del., after succumbing to nitrogen fumes.

Last 5 years = 26 deaths

Refinery Safety Overview Study

Marcel A. Müller



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An Introduction to System Safety Engineering Nancy G. Leveson, 2023-11-14 A comprehensive up to date introduction to the foundations of classical safety engineering with an emphasis on preparing for future challenges Systems today are orders of magnitude more complex than in the past and their complexity is increasing exponentially Preventing accidents and losses in such systems requires a holistic perspective that can accommodate unprecedented types of technology and design This textbook teaches the foundations of classical safety engineering while incorporating the principles of systems thinking and systems theory Beginning with the framing and lessons of her classic text Safeware Nancy Leveson builds on established knowledge and brings the field up to date challenging old approaches and introducing new ones This essential book provides the core information required to build safety critical systems today and in the future including coverage of the historical and legal frameworks in which the field operates as well as discussions of risk ethics and policy implications Presents cutting edge concepts anticipating the safety challenges of the future alongside thorough treatment of historical practices and ideas Provides a comprehensive introduction to the foundations of safety engineering Covers accident analysis hazard analysis design for safety human factors management and operations Incorporates extensive examples of real world accidents and applications Ideal for students new to safety engineering as well as professionals looking to keep pace with a rapidly changing field

Methods in Chemical Process Safety ,2017-04-06 Methods in Chemical Process Safety Volume One publishes fully commissioned reviews across the field of process safety risk assessment and management and loss prevention with this volume focusing on the process of learning from experience elements of process safety management human factors in the chemical process industries and the regulation of chemical process safety including current approaches and their effectiveness Users will find an informative tool and user manual for process safety for both engineering researchers and practitioners that details the latest methods in the field of chemical process safety Helps acquaint the reader researcher with the fundamentals of process safety Provides the most recent advancements and contributions on the topic from a practical point of view Presents users with the views opinions of experts in each topic Includes a selection of the author s of each chapter from among the leading researchers and or practitioners for each given topic

Safety and Reliability - Safe Societies in a Changing World Stein Haugen, Anne Barros, Coen Gulijk, Trond Kongsvik, Jan Erik Vinnem, 2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17 21 2018 The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world These methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications

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