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Chapter 3 - Safety and environmental management programs;
 Introduction; API Standards; Center for Offshore Safety; Offshore
 Operators Committee; Fundamentals of Safety Management Systems;
 Recommended Practice 75; Elements of SEMP; General; SEMP and PSM;
 References
 Chapter 4 - Safety and environmental management
 systemsIntroduction; From SEMP to SEMS; First Version of SEMS; Final
 Rule; Organization of the Rule; Scope; Compliance; Contractors;
 Elements of SEMS; General; Safety and Environmental Information;
 Hazards Analysis; Management of Change; Operating Procedures; Safe
 Work Practices; Training; Mechanical Integrity; Prestart-up Review;
 Emergency Response and Control; Investigation of Incidents; Audits;
 Records and Documentation; References; Chapter 5 - Implementing
 SEMS; Introduction; Types of Operators; Timing; Designing a SEMS
 Program
 Risk-Based Approach-Plan BHigh Priority Elements; Economics of SEMS;
 References; Chapter 6 - Safety cases; Introduction; Safety Case
 Definition; Different Industries; Features of a Safety Case; Length of the
 Safety Case; Major Accidents; IADC HSE Case Guidelines; Structure of a
 Safety Case; Maintaining the Safety Case; Effectiveness of Safety Cases;
 References; Chapter 7 - Formal safety assessments; Introduction;
 Philosophies; Elements of an FSA; Assumptions Register; Hazards
 Register; Quantitative Risk Assessment; Facility Layout and Equipment
 Arrangement; Flare and Radiation Analysis
 Material Handling Assessment/Dropped ObjectsTransportation; Fire
 and Gas Detection; Gas Dispersion Analysis; Fire and Explosion
 Analysis; Emergency Systems Survivability Analysis; Escape, Evacuation,
 and Rescue Analysis (EERA); Non-Hydrocarbon Chemicals; Greenhouse
 Gas Emissions; Noise and Vibration; Human Factors Engineering;
 Reliability, Availability, and Maintainability; References; Chapter 8 -
 Offshore safety developments; Introduction; Leadership and
 Management; Follow the Rules; Lack of Technical Expertise;
 Convergence of Standards; Spill Response; Long-Tail Events;
 Conclusions
 References

Sommario/riassunto

2010 was a defining year for the offshore oil and gas industry in the United States. On April 20, 2010, the Deepwater Horizon (DWH) floating drilling rig suffered a catastrophic explosion and fire. Eleven men died in the explosion - 17 others were injured. The fire, which burned for a day and a half, eventually sent the entire rig to the bottom of the sea. The extent of the spill was enormous, and the environmental damage is still being evaluated. Following DWH the Bureau of Ocean Energy Management, Regulations and Enforcement (BOEMRE) issued many new regulations. One of them is the
