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Emerging Technologies; 5.1 Clean World Innovations and EncapSol; 5.1.1 Clean World Innovations Technology; 5.1.2 EncapSol Technology; 5.2 Centrifuges; 5.3 Skimmers and Response Vessels; 6 Spill Response and Worker Protection; 6.1 Countermeasure Options; 6.1.1 Dispersants; 6.1.2 Biological Agents; 6.1.3 Shoreline Cleaners; 6.1.4 Controlled or In-Situ Burning; 6.1.5 Suggested References Concerning In-Situ Burning at Sea; 6.2 Spill Response Protocols and Strategies 6.2.1 Defining Worker Training Requirements 6.2.2 National Contingency Plan; 6.2.2.1 Useful Definitions; 6.2.2.2 Planning and Coordination Structure (300.205); 6.2.2.3 Operational Response Phases for Oil Removal; 6.2.3 Environmental and Health and Safety Definitions; 6.3 Worker Protection; 6.3.1 Occupational Exposure Standards; 6.3.2 Glossary; 6.3.3 Medical Surveillance; 6.3.4 Fitness and Heat Stress; 6.3.5 Awareness and Recognizing the Hazards; 6.3.6 Material Safety Data Sheets and Worker Orientation; 6.3.7 Supplementing the Initial Orientation; 6.3.8 Safe Handling Of Drums 6.3.8.1 Transferring Flammable Liquids 6.3.9 Chemical Protective Clothing; 6.3.9.1 Classification of Protective Clothing; 6.3.9.2 Garment Selection Factors; 6.3.9.3 Decontamination; 6.3.10 Levels of Protection; 6.3.10.1 Respiratory Protection; 6.3.10.2 Atmospheres that are Immediately Dangerous to Life or Health (IDLH); 6.3.10.3 Glossary of Respiratory Protection Terms; 6.4 The Oil Spill Response Plan; 6.5 Air Monitoring; 6.5.1 Reasons for Air Monitoring; 6.5.2 Direct vs. Indirect Methods; 6.5.3 Instrumentation and Community Air Monitoring Program; 6.5.4 Odors

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Sommario/riassunto

The Deepwater Horizon catastrophe is shaping up to be the largest offshore oil spill in history and an ecological nightmare of epic proportions. Emergency Response Management of Offshore Oil Spills is intended to aid in the response of this tragic disaster by providing, in one volume, information to rapidly orient response workers. It outlines the toxic nature of crude oil, covering properties of crude oil, chemical composition, toxicity to humans and marine life, and investigates the impact of oil spills from historical case studies. The current arsenals available to address oil