

Planning for Environmental Protection in Offshore Oil Drilling and Production Industry

Ossama Aboul Dahab
University of Alexandria, Egypt

This work summarizes the types and environmental negative effects of offshore oil drilling and production wastes. These wastes include production chemicals, drilling fluids, production and formation waters, heavy metals, salt, petroleum hydrocarbons, air pollutants, nuclear radiation in addition to the acoustic impacts. Damage to the coastal environment has three potential costs to present and future human welfare. Human health may be harmed. Economic productivity may be reduced. The pleasure or satisfaction obtained from an unspoiled environment, often referred to as its “amenity” value may be lost. The present work also discusses the importance of developing comprehensive environmental protection plans and measures to optimize the use of offshore oil resources. Environmental protection plans for offshore oil drilling and production industry may include environmental audits, waste management plans, waste management actions, contingency plans and employee training. Environmental protection measures which can be considered in offshore oil drilling and production are drilling operations, management requirements, planning and phasing, site visits, environmental preparedness, restoration and abandonment completion.

Biography:

Ossama Mohamed Taha Aboul Dahab got his Ph. D. in marine chemistry and pollution in 1985, joint supervision between Alexandria university, Egypt and Liverpool university, UK. He was graduated from Oceanography Dept., Alexandria University in 1975 and since that time he is still working in the department of oceanography, faculty of science, University of Alexandria till now. He visited as a scientific scholar more than 15 different countries. He attended more than 40 international conferences and meetings about oceanography in the area of marine chemistry and pollution. He published 4 books and more than 40 papers in open literature. He supervised and shared executing of more than 20 projects in the field of pollution prevention and environmental protection and management especially with regard to offshore oil and gas industry.