A Practical Approach to Fire Hazard Analysis for Offshore Structures

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ABSTRACT

Offshore quantitative risk assessments have historically been very complex and costly. However, fire hazard analysis (FHA) can be used to determine an optimum design and a performance standard developed that also achieve risk reductions. As a result, companies are now recognizing that performing fire hazard analysis on new and existing offshore facilities is simply good business practice.

The fire hazard analysis is calculates the consequence of each fire scenario, determines what can be impacted on the platform such as equipment, structural members, egress routes and safety systems, and determines the effectiveness of potential options for mitigation. The FHA typically addresses jet, pool, flash and sea fires.

This paper uses recent experience to outline a practical approach to fire hazard analysis and fire hazard management for deep-water structures. The methods discussed will include discussions from the upcoming June 2002 International Workshop for Fire Loading and Response.