
Services Performed

IRC performed an escape, temporary refuge, evacuation, and rescue (ETRER) analysis for the Shenzi tension-leg platform (TLP). The analysis assessed the performance of ETRER facilities in the event of a major accident.

Objectives

- Verify the performance of ETRER facilities against potential consequences resulting from major accident events, such as ability of the temporary refuge to protect against smoke or gas ingress
- Verify the design of the TLP and ensure emergency preparedness for operations, such as by ensuring that appropriate rescue facilities are provided

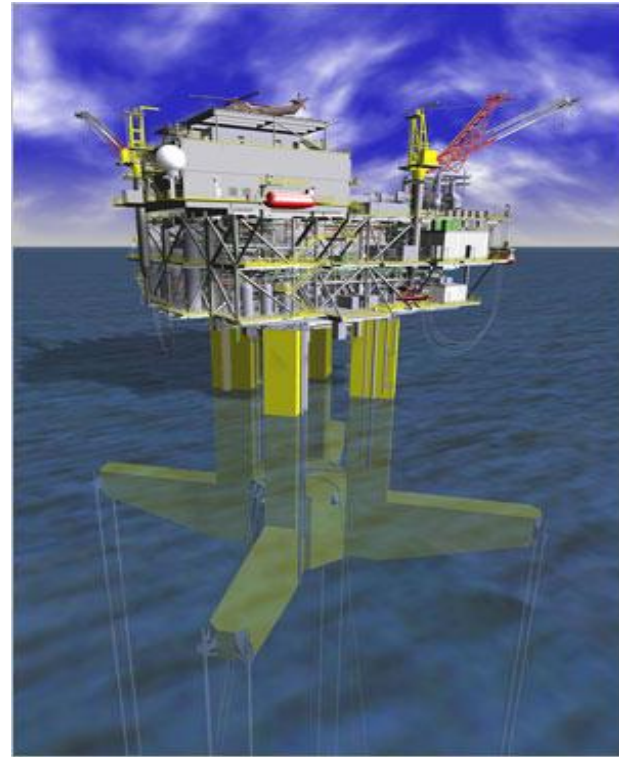
Project Description

BHP Billiton was developing the Shenzi field in the Green Canyon block, deepwater Gulf of Mexico (GoM). The facility comprises a tension-leg platform with main, production, and cellar decks in approximately 4,300 feet of water.

Safety of personnel was the primary concern when considering escape, temporary refuge, evacuation, and rescue. The analysis followed industry accepted standards for safe layout design for ETRER facilities such as layout of escape routes, fire and blast walls, and mustering philosophies.

This ETRER analysis was conducted as part of the HSE operations safety case for this TLP to ensure that the facilities were adequate for any major accident event identified in the safety case. That included:

- Personnel can reach a safe muster area from any part of the platform
- The temporary refuge (TR) is not susceptible to impairment for the defined endurance times
- Personnel can evacuate the platform safely
- Personnel can be safely rescued from the sea after an evacuation



Key Benefits to Client

- Assurance that all ETRER facilities on the TLP provide effective means of escape, temporary refuge, evacuation, and rescue during hazardous events
- Clear identification of opportunities to demonstrate that risks are reduced to as low as reasonably practicable (ALARP); for example the study recommended minor modifications to escape route marking to ensure that the TLP would provide effective means of evacuation during hazardous events