

Contract: GUPCO – Structural Integrity Consulting

Client: GUPCO via Enppi

Location: Gulf of Suez, Middle East



Challenge

The decision of Gulf of Suez Petroleum Company (GUPCO) to extend the field life of the fixed structures in the Gulf of Suez for another twenty years sparked a major rehabilitation project for GUPCO's assets in the Gulf of Suez consisting of a fleet of one hundred and nineteen fixed structures. Enppi was awarded the engineering contract and appointed GL Noble Denton to provide structural integrity consultancy.

Outcome and benefits

GL Noble Denton's expertise and consulting enabled GUPCO to develop a structural ranking of its one hundred and nineteen platforms. This formed part of an overall risk assessment which enabled GUPCO to prioritise the work scope of this major rehabilitation project. GL Noble Denton also provided the Project's Structural Single Point Authority (SPA) between 2006 and 2009; who was responsible for the review of structural project documents and drawings prepared by Enppi.

Expertise provided

GL Noble Denton's work included:

- Preparation of the structural design basis to assess the structural integrity of the field's structures
- Preparation of Jacket Risk Ranking Methodology; enabling GUPCO and Enppi to establish which structures carry the greatest risk, and how the structural resources are focused in the best possible way
- Preparation of a weight assessment procedure; enabling GUPCO and Enppi to make initial estimates of topsides weights for the many platforms where no weight records exist
- The review of Enppi's structural analyses including; in-place storm, seismic, redundancy and push-over

GL Noble Denton

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