

## Offshore Case Studies

### Offshore Safety Case

GL were tasked to produce a Safety Case for a UK offshore installation, in order to deliver more accurate hazard consequence modelling in an easy to understand document to make it accessible to members of staff and ultimately increase safety.



The existing Safety Case was updated to reflect internal changes. Formal HAZOPs, explosion and other studies showed a small number of serious safety deficits on the platform that were corrected as part of the submission.

#### Benefits

Safety improvements were realised by studies performed during the update work. Using ARAMAS (GL's offshore risk assessment package) for the risk assessment, it is now a simpler process to update the assessment part of the safety case in the future.

### Corrosion Testing - Offshore Pipeline



GL were commissioned to conduct a full ring test to assess the risk of sour corrosion to an export pipeline. The initial test, conducted under standard NACE conditions produced significant corrosion. Further tests conducted in an environment simulating "worst-case" pipeline operation saw the Pipe material successfully pass the necessary criteria.

#### Benefits

GL enabled the clients corrosion management and inspection strategy to be defined.