



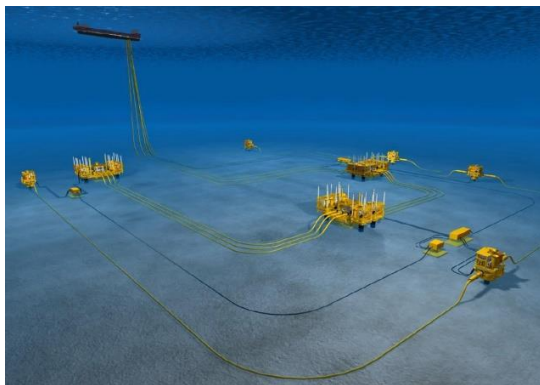
|                  |                             |
|------------------|-----------------------------|
| <b>Infinity:</b> | Engineering                 |
| <b>Client:</b>   | Confidential E&P            |
| <b>Project:</b>  | Subsea Integrity Management |
| <b>Scope:</b>    | Asset Integrity Management  |

### Background

Infinity were requested to develop the subsea integrity management strategy for their customers North Sea subsea facility.

The strategy was to define the system limits and division of the subsea facility into a manageable sub-system (FPSO components, riser tower and flexible risers, subsea flowlines and umbilicals, subsea equipment, internal corrosion, subsea controls and flow assurance).

The process for integrity management together with roles and responsibilities were required as part of the scope.



The integrity management process was developed incorporating the client's engineering technical practises and processes where appropriate.

### Solution

Infinity provided a multidiscipline team of engineers to develop the following:

- Inspection, Maintenance and Repair (IMR) philosophy and plan for subsea assets (pipelines, risers) based on risk prioritisation and management.
- Develop a suitable inspection and maintenance program strategy for the subsea assets.
- Performed engineering assessments for free spanning, Fitness for Purpose (FFP) and remaining life.
- Cathodic Protection (CP) assessment of the pipelines and structures.
- Developed, compiled and verified information management system for the subsea assets.



Infinity provided technical competency and industry best practice in the development of the subsea integrity management strategy for the client.

The success of this project led to further involvement in the development of the client's strategy for the flowlines and umbilicals corrosion management as well as the flow assurance philosophy.