

Asset integrity management build for offshore platform

SRJ CASE STUDY, 2021



PROBLEM

An offshore platform was suffering integrity and reliability issues. The operators' corporate integrity team undertook a review and concluded that the lack of a sufficiently robust integrity management system was identified as the root cause.

The asset scope included topsides processing, subsea wells, and subsea gathering system.

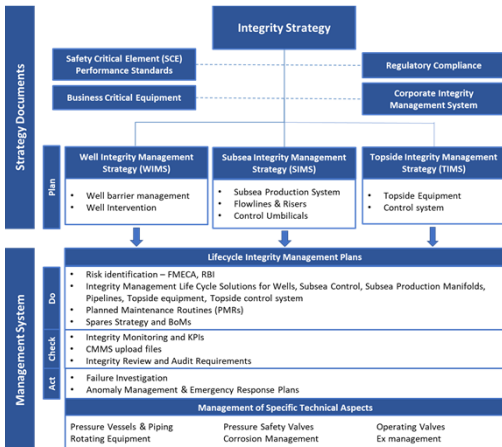
SRJ SOLUTION

A complete integrity framework was developed for the asset, including integrity management documents covering topsides, wells and subsea infrastructure.

Once the framework was in place an integrity management system was developed to encompass the required inspection and maintenance across the asset. This included the use of Failure Mode, Effects and Criticality Analysis (FMECA) to define the tasks required for maintainable equipment on topsides and the subsea infrastructure. Topsides vessels and piping were subject to a Risk Based Inspection (RBI) assessment to define suitable inspection tasks and frequencies.

The client was provided with necessary data for the criticality results along with the required work tasks and frequencies to update their maintenance management system.

To support and monitor the future effectiveness of the asset integrity management a series of metrics were identified to populate key performance indicators.



DELIVERED VALUE



IMPROVED SAFETY

By including criticality and risk based assessments the defined tasks ensure improved asset safety.



COST EFFECTIVE INTEGRITY MANAGEMENT

The assessment reduced the maintenance and inspection tasks previously defined by equipment vendors.



IMPROVED ASSET RELIABILITY

By applying a more robust integrity management system the asset reliability and uptime was increased.

SRJ provides specialised consultancy services.
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