

# Sustainable operations review for an ageing asset

SRJ CASE STUDY, 2021



## PROBLEM

An operator was looking to extend the operating life of an FPSO beyond its original design life.

As part of the asset life extension the FPSO was due to go off-station and into dry dock.

SRJ was engaged to perform a study of the safety critical elements (SCEs) degradation, to identify remedial worksopes to be carried out during the planned dry dock to ensure safe and sustainable operations.

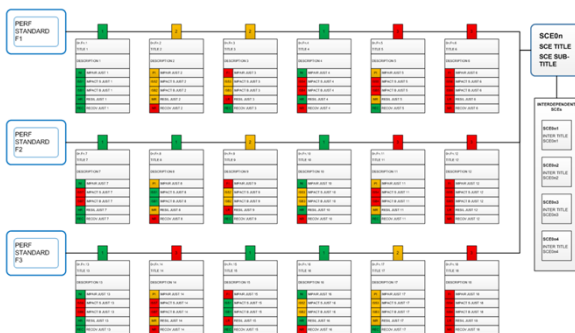
## SRJ SOLUTION

SRJ Technologies has a standard process for identifying and prioritising aspects of asset integrity that could impact the sustained operation of a facility. The process considers the current status, the future resilience and the recoverability of safety, environmental and business critical systems.

The resilience of the systems and equipment considers ageing aspects, including time-based degradation, obsolescence and considers historical inspection and corrective action data.

The recoverability essentially addresses whether the system can be reinstated during normal operation in the event of a failure.

SRJ conducted a sustainable operations study for the FPSO via facilitated workshops in the clients' offices. This study identified 10 critical worksopes that would need to be undertaken during the dry dock period and a further 39 worksopes that would be required to meet the operators' life extension goals.



## DELIVERED VALUE



### IMPROVED SAFETY

Safety critical elements requiring remedial attention identified and included in turn-around workscope.



### EFFECTIVE TAR PLANNING

The process identified the remediation tasks that required asset shutdown and/or dry dock as well as eliminating the tasks that did not need that level of shutdown.



### FOCUSSED LIFE EXTENSION

Application of a criticality based assessment to the ageing of safety and business critical systems.



### COMMON UNDERSTANDING

The client team became aligned on which integrity issues posed greatest risk via the use of a common assessment process.

SRJ provides specialised consultancy services.  
Contact us for more information.

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