Technical excellence: delivered

Forms Part of Alderley

Case Study

Project Type: Small Bore Tubing

Technical excellence: delivered

Forms Part of Alderley

Introduction

Our customer, an oil and gas supermajor, operates multiple assets in the Southern North Sea. Their assets include both manned and normally unmanned installations (NUI).

The Challenge

The failure of small-bore tubing (SBT) assemblies is one of the largest contributors to unplanned hydrocarbon releases in the oil and gas industry.

Degradation of SBT assemblies, including corrosion, can occur when they are incorrectly designed, installed and maintained. Assemblies are also vulnerable without an effective inspection programme.

Our client had to develop a risk-based inspection strategy for their SBT assemblies to prevent or mitigate health, safety or environmental consequences that may result from a process safety or environmental release of hydrocarbon or high-pressure medium.

Their aim was to find a single solution to proactively manage all their SBT assemblies, including the ability to:

- "Register" individual assemblies to record their makeup and location
- "Manage" their assemblies through inspection and tagging
- "Report" on the status of their assemblies in a prompt and consistent manner

This is to support their own high health and safety requirements, exceed and prove compliance to legislation, and reduce the asset downtime associated with SBT assemblies.

The Solution

Utilising our experience in installing, inspecting and maintaining SBT assemblies, we worked closely with the client to develop a SBT management and inspection procedure - all managed through our innovative inspection tool, Inspection Manager™.

This meant that all SBT assemblies could be consistently assessed, tagged and categorised to advise of their current status, as well as inform future inspection and management planning.

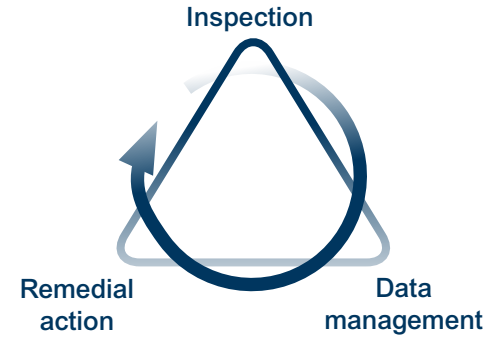
In addition, SMS provided a Technical Support Engineer with 30+ years' experience as a dedicated focal point. Gaining intimate understanding of the client's operating procedures, the engineer quickly raised notifications for any SBT assemblies deemed unsatisfactory during the inspections to inform prompt remedial activities and minimise the risk of downtime.

And with an established supply chain, dedicated hydraulic technicians and full back-office support, SMS provided all necessary remedial activities to deliver a complete SBT management service for our client.

The Results

Since commencing the project, our inspectors have inspected over 1,200 individual SBT assemblies across seven offshore installations.

Our client is extremely pleased with the results which have enabled them to fully comply with HSE requirements, and we continue to undertake SBT inspections and remedial activities on their Southern North Sea assets.



Contact enquiries@sms-alderley.com for more information