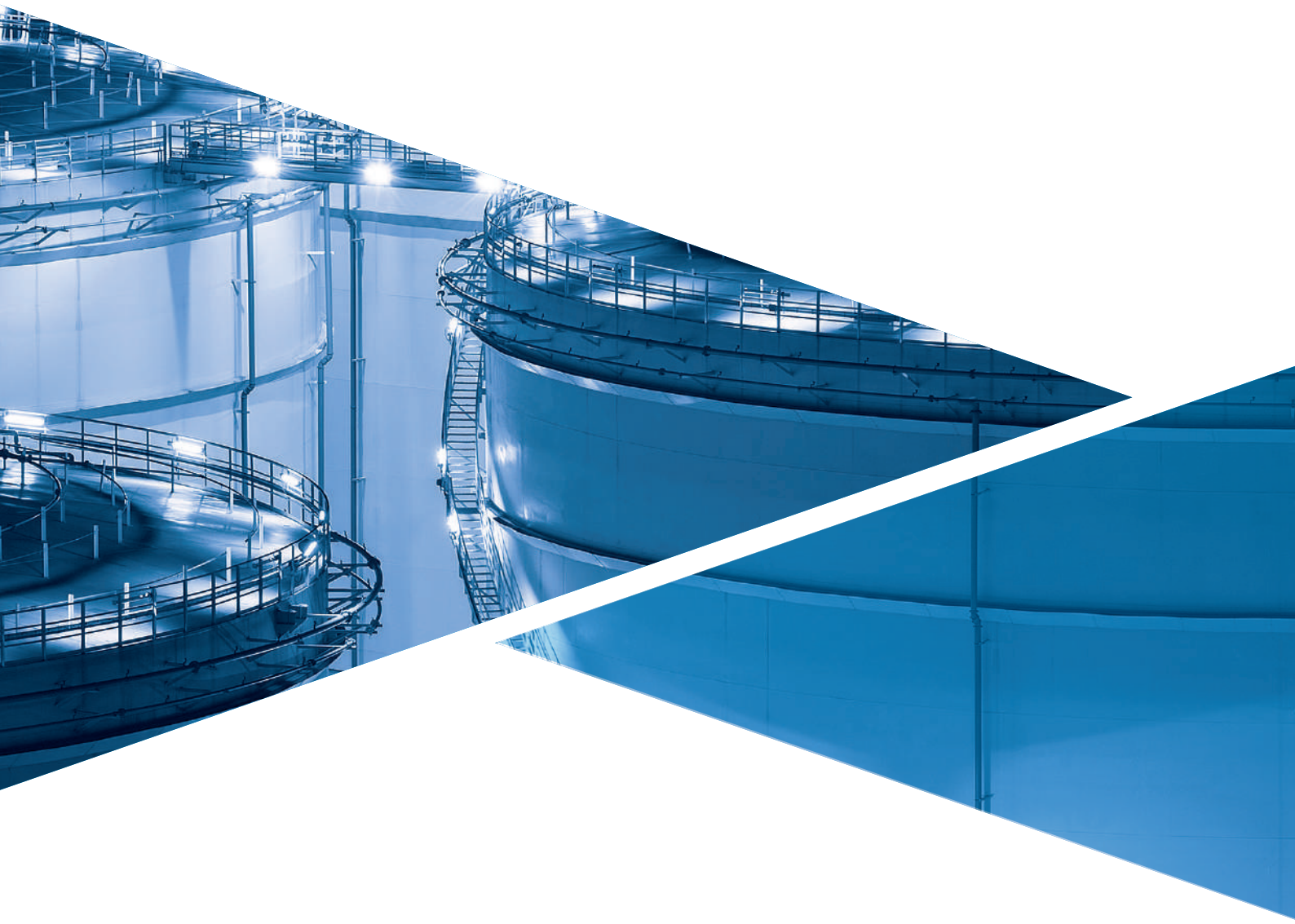
# DRON & DICKSON

## SBT INSPECTION AND CORRECTIVE REMEDIATION WORK

Success Stories



Dron & Dickson

A highly experienced Dron & Dickson team comprising of SBT Technician, Project Coordinator, and SBT Technical Authority provide a bespoke solution for simultaneous SBT inspection and corrective remediation work.

## Background

Due to limited POB onboard one of their assets, a North Sea operator required the mobilisation of a single multi skilled and competent SBT Technician. The technical requirement was for someone who could not only complete SBT inspections but also remediate previously identified SBT anomalies and also install some new SBT associated with several ongoing maintenance projects across their asset. The Client sent a list of corrective work orders, project scope documents, and also their SBT asset register to Dron & Dickson who engaged with the operator and collaborated to provide a solution and build a scope of work.

Dron & Dickson reviewed all the documentation and identified the BOM (bill of materials) and tools to complete the corrective work orders and project requirements, and also identified a risk based prioritised list of SBT inspections. Dron & Dickson then identified the required SBT competence profile and engaged with their SBT Technician prior to mobilisation to the asset.

## Project Overview

The experienced and competent Dron & Dickson Technician was mobilised offshore to the asset for 20 days and ongoing support was provided by a Dron & Dickson Project Coordinator and the SBT Technical Authority. The scope of work was split into 3 main areas across several functional locations onboard the asset;

- SBT corrective repairs (from previous SBT inspections)
- Ongoing project support (SBT and component installation including 6Mo)
- Outstanding 2024 SBT inspection items

Dron & Dickson worked through a list of corrective work orders which included the repair or replacement of various SBT components (fittings/tubing/clamps/supports) across several SBT assemblies and instrument loops including;

- Pressure differential transmitters
- Pressure transmitters
- Emergency shutdown valves
- Pressure downhole gauges
- Pressure gauges

Ongoing project support included the fabrication and installation of SBT and associated support structures, strength testing and leak testing of 12mm 6Mo SBT assemblies connected to a flare tip package detection system and also a gas decoupling control system. This included both workshop and site activities on the asset.
SBT inspection was carried out across several asset functional locations and plant equipment/types including;

- Injection pump skids
- Gas metering skids

- Turbine generator packages
- Hydraulically and pneumatically operated valves
- Flow/indicator transmitters
- Pressure/differential indicating transmitters
- Pressure gauges
- Pressure indicator transmitters
- Pressure switches

An end of job summative report was compiled by Dron & Dickson and submitted to the client.

### The Result

Dron & Dickson closed and/or remediated a back log of 15 corrective work orders which removed the client's bottle neck within their maintenance data management system.

The asset flare tip package detection panel installation was completed, signed off and handed over. The fabrication and installation of the gas decoupling control system was completed and all SBT and associated manifolds were leak tested.

The inspection of 93 prioritised SBT tags (69 x P1, 20 x P2, 4 x P3) helped to clear the Client's backlog of 2024 SBT inspections. This included localised SBT defect tagging and updating the client's asset register line lists.

The operator has a stock profile of critical spare parts to ensure future operations are maintained, and exposure to contamination is mitigated.

**Feedback from the client;**

*"Positive feedback from offshore management on the Dron & Dickson SBT Technician's work ethic and workmanship. All rectification / new installation works were completed to a high standard and the worksites always kept neat and tidy. The request has been made that the Dron & Dickson SBT Technician is the preferred option for the asset in the future."*

## Gallery

Preparation and Pre Fabrication Testing of the Flare Tip Package Detection Components

Gas Decoupling Control System Header to PT Enclosure

BT Inspection Tagging and Recording