

CASE STUDY



ASSET FPSO
LOCATION WEST AFRICA

TEAM 3 PERSON
DURATION 6 WEEKS

PROJECT OVERVIEW

Baseline inspection on process pipework and pressure vessels onboard a floating production facility, West Africa. Techniques included ultrasonic, eddy current and visual inspection, in accordance with API150 and API570 requirements.

SCOPE OF WORK

- Development of project work packs and dedicated procedures
- Preparation of surfaces for inspection and subsequent monitoring
- Visual and UT thickness measurements of piping and pressure vessels under survey
- Survey, visual inspection and UT thickness measurement of process piping to API 570
- Survey, visual inspection and UT thickness measurement of pressure vessels to API 51
- Additional scope – SRU stainless steel pipework added during baseline inspection and was completed without the need for additional personnel



CLIENT CHALLENGES

- Temperature of pipework under inspection in excess of 120 °C
- Existing pipework did not have monitoring points through insulation
- Stainless steel SRU unit was found to be affected by significant defects
- Limited bed space onboard the FPSO
- High mobilisation costs



AQUATERRA SOLUTIONS

- Project managed by AquaTerra Team Lead from client offices in-country (prior to offshore mobilisation)
- Sourced, trained and mobilised in-country multi-skilled inspection team (under UK Team Lead)
- Project-specific work packs and inspection procedures developed with client in-country
- Pipework insulation cut, plugged and mapped to datum reference points for future inspections
- Multi-skilled team provided flexibility for additional, unforeseen scopes to be completed
- Self-sufficient team relied on no external (third party) support

ADDED VALUE

- ✓ Multi-skilled flexibility – 3 personnel to execute complete scope
- ✓ Reduced non-productive time – multi-disciplined, flexible team, no downtime
- ✓ Cultural safety behaviours – no LTI's or FA Cases
- ✓ Cost focus – investment in local people, in-country procurement
- ✓ Project control – effective pre-mobilisation planning and management

