



ASSET **FIXED PLATFORM**

TEAM **25-PERSON**

LOCATION **NORTH SEA**

DURATION **5 YEARS**

PROJECT OVERVIEW

Decommissioning and replacement of 16 off 20” live cell fill lines, and oil fill lines inside concrete structure Utility Shaft, by means of Hot Tapping Techniques.

SCOPE OF WORK

- Comprehensive PDO sweep and cleaning of entire column
- Installation of Life Support Systems (Air Cylinder Caches, Line-Fed BA system, hoses and equipment, lighting and gas detection) at identified locations throughout the column.
- NDT/Inspection (MPI, UT, TOFD, SLOFEC) and mapping of lines especially on areas for hot tapping, manifold, valves and equipment
- Installation of suspended 20.0m dia. steel frame and composite platform
- Deactivation of main manifold at EL +76.000m using hot tapping and grouting
- Sequential deactivation of cell fill lines, hot-tapping (in conjunction with a specialist contractor to hot tap, pig and plug the lines) and plugging (within the column wall).
- Cold cutting and removal to topside all piping section, valves etc for disposal
- Flange-facing, installation of new flanges. Installation of new lines including isolation valves
- Construction and installation of new manifold and manifold support platform including associated pipework, tie-ins, electrical panels and instrumentation
- The project required selection, training and management of 36 personnel to carry out initial NDT/Inspection of the lines, clamps and associated equipment using conventional and specialist techniques, isolation of the lines and deactivation the manifold and subsequent line removal and replacement
- Management and execution of an intensive programme of training and competence assessment for 36 personnel against a matrix of requirements, prior to and during all stages of the work.
- All operations carried out in a potentially hazardous environment requiring line-fed Breathing Apparatus (+150 000 hours).

CLIENT CHALLENGES

- Remote and difficult to access location on the platform
- Technically challenging operations beneath the Gas Tight Floor
- No previous such operations undertaken by the client
- Significant de-watering of the leg structure and potential uncontrolled re-flooding
- Potentially hazardous environment requiring line-fed breathing apparatus
- Physically and mentally demanding work in high temperature, isolated and constricted area
- Hot tapping live plant
- Complex lifting in a heavily congested live plant environment
- Emergency planning, emergency response and leg evacuation
- Recovery of personnel
- Limited time and restricted personnel at worksite due to operational constrictions/priorities
- High number of trade skills and capabilities, limited team size allowed in area



AQUATERRA SOLUTIONS

- Full project management control and responsibility
- Robust personnel evaluation and selection process
- Comprehensive, project specific training and competence verification programme
- Multi-disciplined construction, inspection electrical and rigging using a matrix of project requirements
- Personal development and teambuilding approach
- Single point of contact, Project Manager embedded in client team
- Pre-mobilisation onshore trials of procedures, processes, critical scopes and emergency response
- High level of communication and interface between client, platform and AquaTerra project personnel

ADDED VALUE

- ✓ Total project control – ownership of all aspects of the project, end to end
- ✓ Investment in people – highly motivated team, positive attitudes, behaviors
- ✓ Competent, experienced team – safe, efficient, productive
- ✓ Effective project planning – minimal non-productive time, maximised productivity
- ✓ Fallback work – alternative scopes and project completed when no access to leg
- ✓ Cultural safety behaviours – personal ownership, team responsibility, total buy-in
- ✓ Zero LTI's/FAC's – 350000 manhours operation (150000 hours under BA)
- ✓ Communication – transfer of knowledge, progress, information management
- ✓ Project time reduced – project completed 12 months ahead of client programme

YOUR INTEGRATED SERVICES PARTNER

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