



EMERGENCY PIPELINE REPAIR SYSTEM (EPRS)
SERVICE OVERVIEW

Project: Emergency Pipeline Repair System (EPRS)

Location: Northwest Australia

Water Depth: 0-1,350m (system rated to 2,000m)

Project Type: Life of Field / Emergency Pipeline Repair Service

Completion Date: 2017

The Emergency Pipeline Repair System (EPRS) is designed to provide emergency pipeline repair solution for pipelines off Northwest Australia. These pipelines are located in various water depths of up to 1,350m and are up to 44" in diameter.

i-Tech 7 developed and delivered a pipeline repair solution with the scope comprising:

- design, fabrication and procurement of the repair equipment and
- development of bespoke methodologies and procedures to be available during the life of the operated assets

Project management, engineering and procurement was undertaken by i-Tech 7' office in Perth, Australia, with support from offices in the UK and Norway.

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Emergency Pipeline Repair System (EPRS)

Our Values



Safety



Integrity



Sustainability



Performance



Collaboration



Innovation

Overview

The Emergency Pipeline Repair System (EPRS) Project included the development and delivery of a pipeline repair system capable of performing:

- Straight spool repairs using telescopic connectors on pipeline sizes from 34" to 44"
- Inline repairs using structural pressure retaining clamps on pipeline sizes from 20" to 44"
- Small diameter pipeline and umbilical repairs.

Scope of Work

Project Management:

- Management of all engineering, design, procurement and fabrication activities.
- Management of key subcontractors
- Management of all system integration testing
- Delivery of complete system and documentation consequent remediation requirements are fast-tracked.

Development / Engineering:

- Overall system basis of design
- Design analysis including design manuals
- Repair installation analysis
- Detailed specification and design of EPRS components

EPRS components supplied, fabricated, assembled and tested:

- Pipeline Flange Adaptor – 34" to 44"
- Pipeline Repair Clamp - structural pressure retaining
- Pipeline Lifting and Alignment frames - handling loads up to 120t
- Coating Removal Unit - concrete up to 100mm thick
- Mechanical Coating Removal Tool
- Weld Seam Removal Tool
- ROV Interface Skid
- Pipeline Flange Adaptor Deployment Frame
- Flange Bolting Tool
- Flange Seal Replacement Tool
- End Preparation Tool
- Deck Test System

This project demonstrated i-Tech 7' ability to engineer, build and deliver subsea intervention technology projects that meet our clients requirements.



ROV deploying Flange Bolting Tool



Connector dock