

CASE HISTORY

Catcher Emergency Pipeline Repair Strategy

Project Description

The Catcher Area Development includes three discoveries namely; Catcher, Varadero and Burgman as well as Catcher North / Laverda.

During detailed design, FMECA (failure mode, effects and criticality analysis) were performed to evaluate reliability and identify the most critical failure modes in the Subsea Pipeline System. Each potential failure mode was analysed and ranked based on its effects on the system, people, and the environment.

Harbour Energy identified the requirement to review the emergency pipeline repair strategy (EPRS) and critical spares inventory to ensure that it is representative of the integrated Greater Catcher Area (GCA) and recognise any potential synergies with the EPRS work completed for the Solan field by Sealand Projects.

Our Scope

Harbour Energy engaged Sealand Projects to provide the following support:

- Develop understanding of the GCA pipeline system and how it is operated;
- Review the pipeline system FMECA to help define the key components and credible failure scenarios;
- For each critical component identify impact on containment and production and develop repair methodologies for each scenario;
- Develop repair schedules with and without spares and prepare costing norms for critical procurement items and major equipment;
- Determine Spares Priority Factor highlighting the requirement to pre-purchase critical spares to reduce lead time and lost production;
- Facilitate EPRS workshop to review and agree on response strategies and repair methodologies.

Deliverables

EPRS Workshop Terms of Reference;
Emergency Pipeline Response Strategy Document.



Key Facts

Client:	Harbour Energy
Location:	UKCS
Water Depth:	90m
Date:	Q4 2020 - Q1 2021
Project Reference:	P0572

Services Provided

- Package Management
- Business Assurance
- Carbon Management
- Energy Transition
- Engineering Design and Analysis
- Marshalling, Transport, Installation and Field Support
- Floating systems, Towing, Mooring and Hook-Up
- Visualisation and Digitalisation

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