CASE STUDY:
UTA and SDU Electrical System Upgrade

J+S Subsea
UNDER CONTROL

The Background

The client experienced a full electrical failure in the field, traced to ageing inductive coupler technology within the UTA and SDU interfaces. The system had become unreliable, with limited OEM support due to obsolescence.

Loss of power and communications impacted production, requiring a solution that could be implemented quickly while improving long-term reliability.

The Project

J+S Subsea designed, manufactured and installed a replacement UTA and SDU to replace failed OEM equipment and restore power and communications to the field. The solution replaced inductive couplers with conductive connectors, improving electrical performance and long-term reliability.

Inline power and signal transformers were integrated to support compatibility with existing infrastructure. The UTA included a retrievable EDU with fused outputs to protect subsea equipment.

Scope included disconnection of the existing umbilical, re-termination into the new system, and full pre-commissioning testing, followed by installation and commissioning support.

The Results

Power and communications were restored, allowing production to resume within a short timeframe. The upgraded system improved reliability and removed reliance on obsolete technology.

The solution provides a more maintainable system with improved protection and long-term supportability.

- **Turnkey design to commissioning**
- **Replaced obsolete inductive systems**
- **Fused outputs and retrievable EDU**
- **Rapid restoration of operations**

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