mjr Power & Automation

CASE STUDY: Marine Installation

Prysmian Ulisee - Active Heave Compensated Crane Installation



MJR Power & Automation provided turnkey vessel electrical installation for the Prysmian Ulisee's Active Heave Compensated (AHC) crane, fitting the required work around the vessel's busy operational schedule. This included work at ports in Scandanavia, the Baltics and Eastern Europe.

The Prysmian Ulisee is a cable laying barge that is specialised in shallow-water cable laying and burial. This vessel has a variety of tools at its disposal, including carousels, a rock saw and a specialist hydroplow that allows for simultaneous lay and burial of cables.

To increase operational capacity of the vessel, an active heave compensated (AHC) crane was installed. To support this upgrade project, MJR Power & Automation carried out turnkey vessel electrical installation at ports in Poland, Finland and Estonia to fit in with the vessels operational schedule so that no production time was lost.

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The mobilisation of this project needed to be done in stages, with different phases being completed before, during and after the installation of the AHC crane.

This included:

- **Modifications to the main switchboard, including adding new busbars, new circuit breakers and controls**
- **Engineering of the interface to the vessel's power management system to accommodate the new crane**
- **Installation and termination of the medium voltage power cables from the switchboard to the crane, supplied the crane with power**
- **230V cabin supply and lighting installation**

Scope of Work included:

- **Power Distribution Installation & Termination for MV 230V & 110V Vessel Networks**
- **Main Switchboard Modifications**
- **Electrical Load Analysis**
- **Design of Cable Management Systems, Cable Penetrations & Cable Schedules**
- **Installation of Deck Equipment, in this case, the active heave-compensated crane**
- **Class Approval and Certification of all modifications**





"We are pleased to have completed electrical mobilisation of the AHC crane for the Prysmian Ulisee, having carried out multiple mobilisations for them in the past. This demonstrates our trusted relationship with Prysmian, built with the company over time. For the Ulisee, this required careful planning and execution to fit in with the vessel's busy schedule, with the project also calling for electrical engineering before, during and after the mobilisation of the crane."

Paul Cairns, Manager Director of MJR Power & Automation

Upon competition of the work, the Ulisee was taken to Virginia, USA, where it will begin cable laying operation on America's East Coast.

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