

ABB Schweiz

UNIREC – Kleven Maritime NKT Victoria

marine propulsion & DC on-board grid

Project Description

NKT Victoria is the world's most advanced cable-laying vessel build in the year 2017 at Kleven shipyard in Norway. The new vessel uses many of ABB's leading marine technologies, one of them the UNIREC product. The award-winning Onboard DC Grid and power distribution solution, for instance, uses a single DC circuit for ship propulsion to reduce power consumption. The vessel sets new standards for reliability and accuracy and is equipped with roll-reduction tanks, and the subsea operations will be executed and monitored by a remotely operated vehicle using cameras and sonar, avoiding the need for drives. Together with an energy storage system for marine applications it will cut fuel consumption by 27 percent and reduce maintenance compared to traditional AC systems.

Sensors, monitoring hardware and software enables data to be sent to shore via a satellite link, to allow the onshore technical support centres to work closely with the ship as part of ABB's Integrated Marine Operations solution.



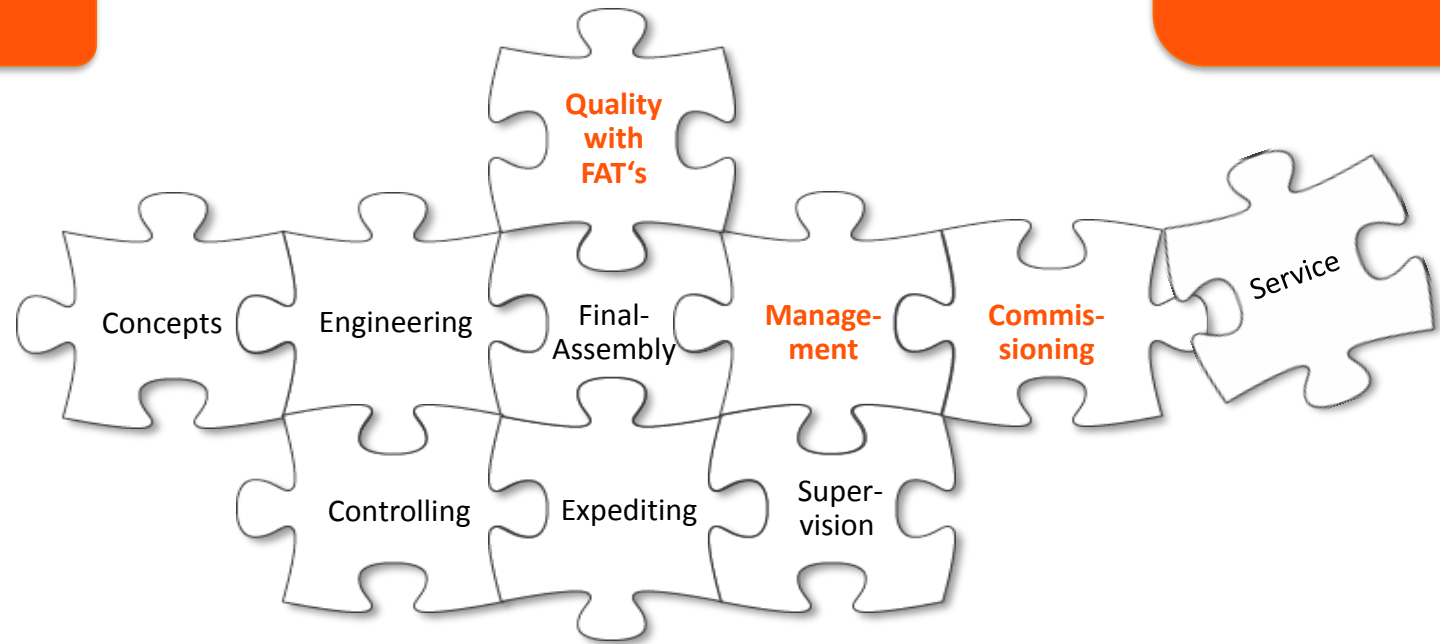
Role of INP Switzerland

INP supported ABB to achieve the type approval certificate for UNIREC product. The INP project manager coordinated the project team, including the R&D department, the engineering and the product team. He also identified and organised the necessary type tests and test equipment to achieve the certification for the new product.

INP was involved in project management services for the first series implementation of UNIREC system on the vessel NKT Victoria ensuring on-time delivery and supporting implementation of system modifications to improve. Last but not least INP supplied commissioning services for the UNIREC system on the Victoria vessel for ABB at the Kleven shipyard and during the sea trial.

Smart E-Engineering Services

Flexibility throughout the project



- Coordination of the project team
- Product development support
- Close coordination with ABB's R&D department
- Organisation of weekly meetings between R&D, engineering and product group
- Identification of the ABB internal test specification
- Identification of test specification for the Marine DNV
- Identification of the necessary test equipment
- Preparation and monitoring of the time schedule
- Electrical commissioning of the UNIREC system
- Sea trial



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