

**MALIN
ABRAM**

CASE STUDY M470

**TRANSPORTATION OF KARISH NORTH PROJECT
CARGO FOR TECHNIPFMC**



Figure 1: Cargo inspection alongside in Aviles

OVERVIEW

Malin Abram were contracted by TechnipFMC to conduct the transportation engineering for various items of cargo in support of the Karish North development. This involved design of seafastenings, generation of stowage and securing plans, and detailed lift engineering using the vessel cranes aboard BBC Brisbane. The cargo was loaded at Aviles, Spain and discharged in Limassol, Cyprus. The cargo consisted of a subsea Manifold, well jumper termination heads and suction pile.

THE CLIENT

TechnipFMC is a leading technology provider to the traditional and new energies industry; delivering fully integrated projects, products, and new services. Malin Abram has been privileged to have a long and healthy relationship with the client, strengthened by this latest milestone project.



Figure 2: Project cargo on quayside ready to be lifted on board in Aviles

THE CARGO, SCOPE AND VESSEL

The cargo included: A subsea manifold, 4 well jumper termination heads, suction pile and additional containerised project equipment

The scope included: Design of seafastenings, generation of stowage and securing plans, detailed lift engineering and marine superintendence for loading and discharge

Vessel: BBC Brisbane, 6310GT multipurpose tweendecker with 2 x 85Te cranes

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THE PROJECT

Malin Abram were contracted by TechnipFMC to undertake the required engineering support to safely and securely transport various items of OOG cargo in support of the Karish North development, a deep water development off the coast of Israel in the Mediterranean, led by Energean.

The Malin Abram team were tasked with transporting integral subsea equipment, which will be deployed during the development of the field, by TechnipFMC.

Malin were required to plan and execute all of the lifting operations, including development of lift plans, rigging arrangements, and procurement of equipment.

Several of the cargo items were complete with pre-installed rigging components which would be used during offshore deployment, and Malin Abram were required to design an arrangement with a suitable interface for use during loading and discharge. In doing so, we made the best use of equipment already procured to ensure the operation was as cost effective as possible for the client.

All detailed lift planning was conducted by one of our in-house Appointed Persons (AP) experienced in lifted load outs, ensuring well planned, safe lifts, all executed in line with TechnipFMC standards.

Acting as the sole point of contact for TechnipFMC, we engaged local resources and port services throughout the project, ensuring the timely delivery of the vessel, completion of the required load out and sea fastening, and discharge to quayside at the final destination. This simplified the process for TechnipFMC, allowing them to deliver to the quay at Aviles and take receipt in Limassol, eliminating the need for an interface between the client and multiple service providers.



Figure 3: Project cargo to be loaded to the BBC Brisbane

The Malin Abram team were all very proud to complete the successful delivery of this critical infrastructure for one of our trusted clients, TechnipFMC. As a major project for the client, we were privileged to partner on this scope and understood the importance of delivering on time, to specification, and to ensure the subsequent project milestones were achieved.



Figure 4: Subsea Manifold Closed Caisson Foundation (CCF)