

PROJECT SHEET

NASR FULL FIELD DEVELOPMENT, PACKAGE 2 UNITED ARAB EMIRATES

LIFTED INSTALLATIONS OF 3 JACKETS AND 2 TOPSIDES

BOSKALIS

Royal Boskalis Westminster is a leading global marine contractor and services provider. With safety as our core value, we offer a wide variety of specialist activities to the oil & gas and renewables sectors. These activities include marine installation and decommissioning, seabed intervention, marine transport and services, subsea services and marine survey. In addition, Boskalis is a global dredging contractor, provides towage and terminal services across the globe and delivers marine salvage solutions.

By understanding what drives our clients we are able to provide the solutions that enable them to meet their specific business goals. For this reason we are constantly looking for new ways to broaden and optimize our offering and are committed to expanding our proposition, supported by our financial strength.

With our committed professionals in engineering, project management and operations, 900 specialized vessels and an unprecedented breadth of activities in 90 countries across six continents we help our clients in the offshore industry push boundaries and create new horizons.

NASR FULL FIELD DEVELOPMENT

Hyundai Heavy Industries Co. Ltd. (HHI) was awarded the NASR Full Field Development Project Package No.2 from Abu Dhabi Marine Operating Company (ADMA-OPCO) for carrying out engineering, procurement, fabrication, construction, installation, pre-commissioning and commissioning works.



A

FEATURES

Client	ADMA-OPCO/ADNOC
Location	United Arab Emirates, NASR and Umm Shaif Fields
Period	2017 - 2018
Contractor	Hyundai Heavy Industries Co., Ltd.



A Asian Hercules3 with the GTP Jacket

B Oilfield overview UAE

Full Field Development (NSFFD) is achieved by producing to DAS Island, while sourcing injection water and exporting excess dry gas to Umm Shaif Super Complex.

Boskalis was subcontracted to install 2 topsides and 3 jackets in the NASR and Umm Shaif oil fields: The Accommodation Platform/AP Jacket, the Separation Platform/SP Jacket and the Gas Treatment Platform/GTP Jacket are installed in the NASR Field. The installed net weights of the jackets ranged from 2,270 to 3,070 metric tons.

A year later Boskalis installed the MFT/Manifold Tower topside in the NASR Field and the PDP/Power Distribution Platform topside in the Umm Shaif Field. The installed net weights were 3,776 and 3,969 metric tons respectively.

PROJECT EXECUTION

The floating sheerleg Asian Hercules 3, a 5,000 metric tons heavy lift vessel, was mobilized to Abu Dhabi in 2017 for the jacket installations, thereafter demobilized to NW-Europe for other work and then re-mobilized to Abu Dhabi in 2018 for the topside installations.

Asian Hercules3 and supporting marine spread underwent a strict third-party certification regime to comply with ADMA-OPCO specifications. Project personnel and crew was trained and certified to be able to work in the ADMA

OPCO fields.

The jackets were fabricated in Shenzhen, China where the lifting rigging for the jackets was pre-installed under Boskalis supervision.

The Topsides were fabricated in Ulsan, Korea where the lifting rigging on the topsides was pre-installed under Boskalis supervision.

Heavy Transport Vessels were used for the transport of the jackets and topsides to Abu Dhabi. These were equipped with additional mooring winches to enable a safe mooring in the congested NASR and Umm Shaif fields, required for the lift off operations.

The Asian Hercules 3 mooring system was modified for the use of Dyneema® mooring ropes, which had to be connected to 75 t piggy backed gravity anchors.

The mooring operations and installation lifts went smoothly and provided a quick, safe and successful installation of the 3 jackets and 2 topsides for our customer and end client.



C Asian Hercules 3 with the MFT Upper Deck
D Asian Hercules 3 with the PDP Topsides