

AKPO FIELD DEVELOPMENT PROJECT (UFR) SAIPEM / TOTAL ONSHORE FIELD JOINT COATING

The AKPO Field lies Offshore Nigeria within OML 130, some 200 km south of Port Harcourt, in water depths ranging from 1 250 m to 1 480 m.

Total Upstream Nigeria Limited a company organised and existing under the laws of Nigeria, as operator of the Oil mining Lease (OML) 130 with a 24% share, and its partners Nigerian National Petroleum Corporation (50%), Brasoil Oil Services Company Nigeria (16%) and South Atlantic Petroleum Limited (10%) are developing the AKPO Field, estimated to contain reserves of 1 billion barrels of oil and 4 trillion cubic feet of natural gas.

Saipem s.a. has been contracted for the engineering of the UFR (Umbilicals, Flowlines and Risers) package of the AKPO Field Development Project. And within this framework, EUPEC has been awarded for the Field Joint Coating services.

The EUPEC scope of work consisted on the application and the fabrication of anti-corrosion and insulation of bends, flets, field joints coating, carbon steel, skirted anchors, spools, flexible joints and jumpers stainless steel for the Offshore field. The main challenge for EUPEC was to organize and design production of those different items characterized by specific constraints in term of



design and localisation on site (f.i. Coating of FJ at 8 meter high). EUPEC performed the full study of the scope of work from the design of the moulds to the implementation on site.

The work was performed on the SCNL base in Romuolumeni (Port Harcourt - Nigeria).

The operations started on October 2007 in Gravelines premises, with the bends coating, and were finalized on SCNL site on February 2009.

8 expatriates and 26 local workers were mobilized in Nigeria in order to achieve all the scope.



Location: Port-Harcourt, Nigeria
Final destination : Nigeria Offshore
Duration of the project: 17 months

Coatings: Solid PU
Quantity: 28 flets, 706 field joints on spool, 464 field joints on jumpers, 10 skirted anchor, 8 flexible joints, 480 bends

Client: Saipem
Final client: Total

Commercial Contact: Julien BLONDEEL
Project Management: Ludovic OMS

ABU DHABI CRUDE OIL PIPELINE PROJECT EUROPIPE EXTERNAL ANTICORROSION PIPELINE COATING

The company IPIC (International Petroleum Investment Company), founded in 1984, is owned 100% by the Government of the United Arab Emirates and its main objective is the development of anything related to hydrocarbons (oil and gas pipelines, offshore oil platforms, petrochemical complex...).

In December 2007, IPIC has signed a contract for 310 million euros with 3 pipes manufacturers: Sumitomo (Japan), Jindal (India) and Europipe for the 48" pipes supply for the Abu Dhabi Crude Oil Pipeline (ADCOP).

This project is to deliver no less than 225,000 tons of coated pipes.

The pipeline will deliver crude oil from the field

Habshan (located in the desert, 150 km south of Abu Dhabi) throughout the country until the oil terminal at Fujairah. It will transport 240,000 m³ of oil per day, over 370 km range.

In this region, the majority of oil is exported by ship through the Strait of Hormuz. Hundreds of tankers to navigate daily. But today, tensions with Iran make this taxiway tenuous and dangerous. Moreover, some tankers suffered recurrent attacks during the 80 years of the Iran-Iraq war.

This project is crucial for the UAE, as it will enable them to export oil even if the Strait of Hormuz should be closed to all navigation.

In addition, the Port of



Fujairah has a strong enough draft; tankers with larger volumes can be accommodated and exportations can be extended to the East Coast of the Emirates.

Eventually, the capacity of the pipeline will be more than 60% of total exports of oil from the UAE. Note that this country is now the third largest producer of oil in the Persian Gulf after Saudi Arabia and Iran.

EUPEC was awarded the contract by EUROPIPE for the external coating. The scope of work consisted of the Three Layer Polyethylene coating (3LPE) for the external coating. For a total coating order of 158 km.

These 48" pipes dedicated to the production lines were 3LPE coated by EUPEC at our Dunkirk coating plant. The production coating operations were performed in good conditions.

The order was fully completed one month ago and the last coated pipes leaved Dunkirk port storage area to Abu Dhabi.

The main purpose of this project is the construction of the pipeline but it will also provide the enlargement of the oil terminal in Fujairah.

Some works have already begun in March 2008 and the operation of the line is scheduled for March 2010.



Location: France

Final destination: Abu Dhabi

Coating: external coating 3LPE

Diameter: 48"

Commercial Contact Maryline BUYS

Project Manager: José SEMEDO DE BARROS