

# REFERENCE CASE

## REFINERY



## Worldwide Vendor Inspection Services to Develop Iraq's Supergiant Oil Field

Russia's second largest oil company was awarded four engineering, procurement and construction (EPC) contracts to start production on one of Iraq's largest oil fields. For this unique project, the company required comprehensive vendor assessment of the suppliers. That is why they turned to TÜV Rheinland.

| Basic Facts                    |  |
|--------------------------------|--|
| Client                         | Second largest oil company in Russia   |
| Timeframe                      | Since March 2011   |
| Project location               | Basra, Iraq  |
| Main services                  | <ul style="list-style-type: none"><li>▪ Vendor assessment</li><li>▪ Quality assurance and quality control (QA/QC)</li><li>▪ Inspection services at manufacturers' locations</li><li>▪ Pre-shipment inspection</li><li>▪ Material inspection</li></ul>  |
| Involved regulations/standards | <ul style="list-style-type: none"><li>▪ American Petroleum Institute (API) standards</li><li>▪ American Society of Mechanical Engineers (ASME) standards</li><li>▪ American Society for Testing and Materials (ASTM) standards</li><li>▪ International Electrotechnical Commission (IEC) standards</li></ul> |

### Initial situation and requirements

In December 2009, a large Russian oil consortium was awarded a contract for the development of the world's second largest oil field project in southern Iraq with 30 to 40 billion barrels of recoverable reserves. To complete the assignment, the Russian company was to provide engineering and construction of major facilities, including an export pipeline, a tank farm at the Tuba terminal, a gas turbine power plant and a central processing facility.

As an international venture, with many participants and suppliers from France to South Korea, from Turkey to Jordan, this project required a wide range of services to help safeguard a perfectly organized and managed supply chain at every project phase. In order to succeed, the company entrusted TÜV Rheinland as an independent third party to ensure quality and performance throughout the entire engineering, procurement and construction project.

## Solutions, results

On the strength of our global presence and international expertise, our expert team at TÜV Rheinland is able to provide comprehensive inspection services to all suppliers around the world. With our help, the client was assured of the quality of the supplied products and of its vendor's capabilities.

Our inspectors provided comprehensive vendor assessment services at all manufacturing sites. The assessment especially focused on the pre-shipment phase as well as on final product inspection, including verification of manufacturing processes and standard operating procedures, and supplier auditing.

We also reviewed all documents and test records, and provided tailored procedure reviews according to the client's requirements, ensuring compliance of products with national and international regulations and guaranteeing the timely completion of the project.

### Did you know?

The first oil is expected to be produced in mid-2014, with a production capacity of up to 400,000 barrels of oil per day.

### Benefits for the client

TÜV Rheinland supported the client with:

- [Inspection and verification services across the global supply chain.](#)
- [Quality assurance and ensured timely delivery of industrial equipment, components and products.](#)
- [The assurance of manufactured equipment in compliance with applicable standards.](#)

### About TÜV Rheinland:

Founded more than 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.

We inspect technical equipment, products and services, oversee projects and help to shape processes for companies around the world. Since 2006, we have been a member of the United Nations Global Compact to promote sustainability and combat corruption.

As a provider of comprehensive inspection services for the oil and gas industry, we can help to reduce risk, prevent material defects and ensure maximum safety of power plants and pipelines. We support clients with certification, inspection and testing services and help meeting obligations for all applicable standards and regulations. Our experts offer services throughout the entire life cycle of assets or plants.

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