



Gate terminal reaches two million hours of construction work without any lost time incidents

The “turnkey” project to realize Gate terminal, a Liquefied Natural Gas (LNG) terminal, which SENER and TECHINT are carrying out in Rotterdam (the Netherlands) as part of the TSEV consortium, has reached two million hours of construction work without any lost time incidents. The improvement of existing safety systems, thanks also to the introduction of a recent method called ‘(A)live on Site’, has yielded one of the best safety records achieved to date for work performed on the Rotterdam Europoort.

Gate terminal, which will be ready for operation in the second half of 2011, is one of the leading energy projects in the Netherlands and a technological showcase on European scale.

Within the TSEV consortium, made up of the Joint Venture TSLNG, in turn made up of SENER and TECHINT, and the sub-consortium EV (made up of the companies Entrepose and Vinci), SENER is responsible for managing the implementation and commissioning of the plant, as well as for basic engineering and most of the detail engineering of the project. In turn, TECHINT, besides consortium leadership, is responsible for part of the engineering, procurement and construction management.

Located on the Maasvlakte, in the Rotterdam area, Gate terminal will initially include three 180,000-m³/h storage tanks, with capacity for exporting 12 BCMA (Billion Cubic Metres per Annum) of natural gas, plus an extra 20% during consumption peaks. In any case, the plant is designed and prepared to allow a maximum expansion of up to 16 BCMA + 20% peak which includes a fourth LNG tank. It will have two Jetties, an unloading area, a storage and pumping area, the gasification and delivery area, auxiliary services and the complex of buildings (offices, control, security, workshops, etc.) required for the operation.

As pointed out by Guido Piazzoli, TSEV Project Director, the strong commitment of the whole Consortium management towards safety has allowed to reach such an important achievement. TS LNG Project Manager, Roberto Felipe, highlighted that Gate Terminal has been designed in accordance with four major aspects: safety, environment, availability and flexibility of the operation.

As regards security and the environment, the plant is designed to comply with the European regulation EN-1473 on onshore natural gas facilities. An innovative aspect is the preference the contract gives to the use of European regulations over any others, for example American. The design of the plant also complies with the demands imposed by the Dutch authorities and applicable local regulations. Furthermore, it includes the effluent management and control systems required to ensure the levels of solid, liquid and gaseous emissions remain well below the legal limits defined in the EIA (Environmental Impact Assessment) at all times.

About SENER

SENER is a private engineering and technology group founded in 1956 in Bilbao, which seeks to offer its clients the most advanced technological solutions and which enjoys international recognition thanks to its commitment to innovation, quality and its independence. SENER employs more than 5,700 professionals and has a turnover of 900 million euros. SENER comprises activities in the engineering field, and is an industrial stakeholder in companies that work in the fields of Power and Environment, as well as Aerospace.

The Engineering Division, SENER Ingeniería y Sistemas, S.A. is an engineering, construction and systems integration company which has become one of Spain's leading engineering firms, with a turnover of more

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than 490 million Euros, more than 2,650 employees and offices in Abu Dhabi, Algiers, Barcelona, Bilbao, Buenos Aires, Lisbon, Madrid, Mexico City, Okayama, San Francisco, Seville, Valencia and Warsaw.
www.sener.es

About TECHINT

The Techint Group is a multinational group with about 49,000 employees and revenues of 22 billion dollars. In almost 70 years of activity, the companies, operative in five continents, have reached levels of excellence in the following areas of business: Engineering & Construction (Techint), Steel (Tenaris and Ternium), Oil & Gas (Tecpetrol), Industrial Plants (Tenova) and Healthcare (Humanitas).

Techint E&C, a group of companies rooted in Italy, Argentina, Brazil, Mexico, Middle East, Asia and Africa, has completed more than 3,500 projects around the world. Its highly qualified and experienced workforce realizes oil and gas facilities, petrochemical plants, power plants and transmission lines, pipelines, mining and metals complexes, and other infrastructure and civil projects.

www.techint-engineering.com

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