Jorge Contreras, SENER Ingeniería y Sistemas, Spain, and José María Ferrer, AspenTech, Spain, describe how dynamic simulation is being used to verify safety system performance and study transient behaviour for the new Sagunto LNG terminal.

Dynamic simulation: a case study

Planta de Regasificacion de Sagunto, S.A (Saggas) is constructing a new LNG receiving facility in Sagunto, 50 km north of Valencia (Spain), with a capacity of 3 million tpy of LNG, to be supplied from Egypt through a project initially promoted by Union Fenosa.

Saggas is owned by three major electric companies in Spain: Union Fenosa (50%), Iberdrola (30%) and Endesa (20%). Saggas will be in charge of the management of the plant from construction through to the final operational stage, including responsibility for the operation and maintenance of the facility once it is fully operational.

In February 2003, Saggas awarded the EPC contract to a consortium of five European and Japanese companies: ACS, a general construction firm in Spain, and leader of the consortium; SENER, a Spanish engineering firm; DYWIDAG, a German civil engineering firm; TKK, a Japanese LNG tank construction firm; and Osaka Gas Engineering (OGE).

SENER's scope of responsibility in this project includes:

- Basic engineering update, from the initial Kellogg design.
- Detailed engineering.
- Purchase management of all equipment.

The Sagunto regasification plant is of prime strategic importance for the Spanish gas market, as it will allow the injection of LNG into the Spanish system, resulting in increased competition. The new terminal is scheduled to commence operations in March 2006.

Process description

The process of an LNG import terminal is relatively simple; a simplified diagram of the process is shown in Figure 2.

When a ship arrives at the docking bay, the gas is in its liquid state (LNG) at a temperature of -163 °C. The liquid is unloaded from the containers on the vessel through arms located on the dock. Then the LNG is transported through a 600 m pipe and is held inside cryogenic storage tanks.

The addition of heat to the LNG (from the pumping process or from solar radiation) causes a fraction of the liquid to become vaporised. This boil off gas is used for refilling the empty space in the ship as the liquid is unloaded,

and for reinjection into the process via the recondenser unit. When there is an excess of boil off gas, it is flared.

The primary pumping system is located inside the tanks. It pumps the LNG towards the recondenser, where the liquid is collected prior to the secondary pumping stage, and any boil off gas is added back to the liquid gas flow. The LNG is then pumped to the vaporisers at high pressure by the secondary pumps, where it is transformed into vapour above 0 °C.

There are two kinds of vaporiser: the 'open rack' vaporisers (ORVs), which use seawater to heat the LNG; and the 'submerged combustion' vaporisers (SCVs), which burn a portion of regasified gas to heat a water tank, which in turn heats the LNG.

The gas from the vaporisers is directed through a common collector to the regulation, measurement and odourisation systems. The gas is then injected into the general network.

In the first phase of the project, the plant has two LNG storage tanks, providing a capacity of 600 000 Nm³/h with a peak flow of 750 000 Nm³/h. In the second phase, a third LNG tank will be added, increasing the capacity to 1 million Nm³/h with a peak flow of 1.3 million Nm³/h.

Dynamic modelling

An LNG terminal has two modes of operation: unloading from a ship or no ship present. Neither of these modes reaches a true steady state, as the ship or LNG storage tanks are continually being filled or emptied. As a result, the material balance of the ship or the tanks is never zero.

The design simulation tools typically used by engineering companies only work in steady state mode, so the material balance is always set at zero (no accumulation). When these simulation tools are used to model LNG terminals, some special treatments and custom calculations are required to calculate the right material balance within the ship and tanks, and the right amount of gas to be evacuated from the loading tank or suctioned from the ship.

In contrast, however, the intrinsic nature of dynamic simulation tools means that all these effects are taken into account by default, thus avoiding the need for any special custom calculations or analysis.

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