



PROJECT

PROJECT DATE:

June 2008

DESCRIPTION:

137,000 m³ LNG tanker
Length 288 m
Location: Dubai
Name: Golar Frost

RESOURCES:

2 surveyors
2 Trimble FX scanners

CONDITIONS:

3 days / 3 nights on board
Temperature: 47° C
15 days of processing

RESULT:

Cloud of points (6 billion)
110 scanner positions
Overall accuracy to 15 mm

3D LASER SCANNING OF A LNG SUPER TANKER IN DUBAI

Every possible superlative can be used to describe these imposing vessels which plough the oceans, loaded with the gas which is essential to our economy. The Golar Frost is just such a vessel, a LNG tanker which is to become a gas terminal off the Italian coast. In order to assist the conversion of the vessel, the SOFRESID Brest design office, specialists in ship building, appointed Urbica in June 2008 to produce an exhaustive cloud of points for those zones of the tanker which are to be modified, by the capture of millions of 3D measurements in just a few days. The engine room, foredeck, manifolds, tanks, etc. have been accurately scanned, thereby allowing

an entire team of engineers to study the vessel on the basis of "as-built" plans. Exhaustive 3D plans obviate the need for the expensive mobilization of a vessel of this type over a period of many weeks. Fifteen days after the on-board survey, SOFRESID Brest already had access to a 3D model of the Golar Frost, as a starting point for the analysis of the conversion of the future FSRU and the installation of new equipments. The point clouds, managed in PDS format, guarantee flexibility, economy, exhaustiveness and precision.

For more information, please contact the Urbica team.

