Oil & Gas

PROJECT

PROJECT DATES:
August - September 2008

DESCRIPTION:
2 gas treatment sites
540m of pipe racks
Location: Gulf of Guinea

RESOURCES:
2 surveyors
2 3D laser scanners
1 theodolite

CONDITIONS:
11 days on-site
Plant in service
Rainy season
50,000 m² to be scanned

RESULT:
Cloud of points (5 billion)
Topographical surveys
200 scanner positions
Overall accuracy to 20 mm

GULF OF GUINEA: LASER SCANNING OF TWO GAS TREATMENT PLANTS

Nigeria, the Cameroon, Gabon, the Congo and the Gulf of Guinea possess attractive resources for investors.

Deep in western Africa, two gas compression plants are to be modernized, with a view to increasing production capacity by 50% by 2011.

To this end, the operator has appointed SAIPEM to conduct an analysis of installations, and wishes to establish an "as-built" cloud of points for its own facilities.

At the request of SOFRESID (a subsidiary of SAIPEM), Urbica has completed a detailed survey of both on-shore sites. Every item of equipment, from the smallest upwards (pipe racks, compressors and coolers, scrubbers, separators, heat exchangers, stripping column, dehydration plant, heating column) has been accurately scanned by two Urbica surveyors who are specialists in 3D scanning for "Oil & Gas" projects.

These surveys have provided specialized piping, structural and instrumentation engineers with rapid and simultaneous access to up-to-date as-built 3D plans for the numerous modifications undergone by pipe-racks.

From Paris, SAIPEM engineers can conduct a virtual inspection of a site 5,000 km away, with a precision and exhaustiveness which only laser survey can provide.

For more information on 3D scanning services for "Oil and Gas", consult the Urbica team.

Urbica
The 3D Laser Survey

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