

# Quantapoint Case Study

## ExxonMobil and Mobil Producing Nigeria – Offshore

### Dimensional Control of East Area Project (EAP) EPC 4A Platforms

#### Situation

As part of the East Area Project (EAP), ExxonMobil and Mobil Producing Nigeria Unlimited (MPNU) were modifying existing platforms to capture and process natural gas currently being flared. The project involved extensive modifications to the platforms. The platforms were grouped, with EPC 4A including four production platforms and ten well-head platforms.



#### Challenge

Piping spools were being in fabrication but were not being verified against the design or existing field conditions. ExxonMobil and MPNU were concerned that this would result in significant construction rework and hot work, which would negatively impact project schedule and expenses.



#### Solution

ExxonMobil and MPNU selected Quantapoint and Ariosh to perform dimensional control to verify that piping spools being fabricated in Nigeria and the Louisiana in the USA both conform to the design specifications and would not clash with existing field conditions.

#### Results

A team of three field specialists performed dimensional control in both Nigeria and the USA using a novel and proprietary verification technique developed by Quantapoint. The fabrication designs were also compared to existing field conditions to ensure there were no clashes or issues due to bolt rotations, dimensional errors, etc. The field teams also ensured proper labeling of fabricated equipment before they were shipped and recommended modifications to “closing” spools to account for accumulated tolerances.

