

LNG Operator Calls for Connection Integrity Management Verification

An operator of an offshore Liquefied Natural Gas (LNG) loading facility required mechanical torque value verification on multiple structural assemblies in order to abide by the manufacturer's recommended specifications and standards.

PLAN OF EXECUTION

1. **Project Planning & Preparation**
 - a. On site project management support.
 - b. Reviewed and analyzed equipment schematics; identified bolted joint type and bolt data.
 - c. Identified manufacturer's recommended torque values.
 - d. Planned with client for Customs requirements and entry.
 - e. Evaluation of tools for scope of work completion.
 - f. Developed a serialized weatherproof torque verification tag containing all relevant data per joint.
2. **Scope Execution**
 - a. Hydraulic Bolting and Flange Management System coordination.
 - b. Connection integrity management on all joints.

TECHNICAL ACHIEVEMENTS & BENEFITS

- Successful integration with end user and general contractor management, consultants, and field personnel.
- Provided integrated management and project controls.
- Reviewed and mapped bolted connections as per design and construction drawings.
- Provided calibration certificates and quality check sheets on proper, fit-for-purpose equipment.
- Provided training certifications on fully trained and competent personnel.
- Provided final reports on torqued connections, and applied a tagging system verifying work was performed and completed in accordance with the regulation/standard.

LOCATION

Caribbean Island Nation

SPECIFICATIONS

Operator Type: Downstream
Facility: LNG
Hydrocarbon Type: LNG

SCOPE OF WORK

Torque Verification of:

- Gangways
- Marine Loading Arm
- Apex Guides
- Apex Swivel Flanges
- Pivot Pin Cover Plates
- Fulcrum Structure Bearings
- Fulcrum Swivel Joints
- Rigid Link Flanges
- TSA Swivel Joints
- Fendering Systems

CHALLENGE

- International equipment logistics
- Working at heights