

# IHI E&C: SAVANNAH, GEORGIA, USA ELBA ISLAND LNG: AMINE DEGREASING, FLANGE MANAGEMENT, NITROGEN LEAK TESTING



56,152

man hours completed  
without incident

Elba Island LNG is a liquefied natural gas (LNG) terminal located in Chatham County, Georgia, near the Port of Savannah. EnerMech delivered a fully integrated specialist services offering including chemical degreasing, flange management, nitrogen leak testing, lube oil flushing and electrical & instrumentation support.

This scope was extended to include the tracking of any disturbed joints in the Movable Modular Liquefaction System pipework post the mechanical completion.

Client: IHI E&C

Year: 2018 - 2020

Product/Service: Amine degreasing, E&C support, flange management, leak testing, lube oil flushing

## Project Delivery

Chemical Degreasing - applied to all the Acid Gas Removal Unit (AGRU) of the MMLS System (MMLS) units 1 through 10 including the amine drain pipework, along with the amine storage and make-up systems of the Balance of Project.

Flange Management – c.9000 joints were tracked via our in-house System Integrity Management (SIM) software. The SIM Engineer completed automated work packs and provided the client with real time progress reports on flange status.

Leak Testing – leak testing completed on all hydrocarbon systems within the Balance of Project and Movable Modular

Liquefaction System units 1 through 10 during the commissioning phase.

Lube Oil Flushing – EnerMech provided all necessary equipment, personnel, engineering, tools and consumables to undertake the lube oil flushing on all mixed refrigerants compressors A & B MRC of the Movable Modular Liquefaction System Units along with K4007 & K4008 pipeline compressor systems for the balance of project.

Electrical & Instrumentation – provision of technical support during commissioning activities of the Movable Modular Liquefaction System and Balance of Project

## Project Delivery

56,152 total man hours delivered incident and injury free with no impact to the environment

Experienced, trained and competent personnel provided to perform the services

Integrated labour and equipment offering enabled timely and efficient completion of the scope of work

Provided essential engineering support and assistance to the IHI Team

Work was prioritized and kept aligned to key milestones identified on the project schedule

Provided real time progress reporting in the form of data dashboards to the IHI E&C Team

*"EnerMech have had an impeccable record of safety, quality and progress to ensure safe operation of Elba LNG. I want to thank all at EnerMech for taking this to the end successfully and safely. Many Thanks!"*  
Construction Superintendent