

The Project

MMI Engineering (MMI) performed the Owner's Engineer (OE) scope of work for the Pre-FEED and FERC Filing phase of Kinder Morgan's Gulf LNG Liquefaction Project. The Pre-FEED and FERC Filing phase of the project included preliminary design, engineering and development of resource reports for regulatory filings for natural gas liquefaction capability at the Gulf LNG LLC plant located outside of Pascagoula, Mississippi. When completed the terminal will have a total natural gas liquefaction capacity of approximately 11.5 million tonnes per annum ("MTPA"). Once in operation, in late 2019/early 2020, the plant will be able to receive and liquefy domestic natural gas. Once liquefied the LNG will be stored in the existing storage tanks and then transferred to awaiting LNG Carriers via the existing marine jetty.

The project will enable the facility to become bi-directional as the Terminal would retain its capability to receive, store, regasify, and deliver natural gas into the interstate pipeline system, as originally constructed.

OE Roles and Responsibilities

As the OE, MMI performed project management services for the Owner including monitoring the progress and quality of the Pre-FEED and FERC Filing contractor's work. As OE, MMI also performed additional engineering surveys, investigations and studies that remained in the Owner's scope of work for project development. The OE was a participating member of the Contractor's Project Management Team and the Owner's Project Leadership Teams.

While the OE did not duplicate the Contractor's engineering activities, the OE ensured the Contractor incorporated agreed design philosophies, standards and objectives, and incorporated the operational requirements received from the plant management. The OE also ensured the Contractor's QA/QC and peer review systems were in place, had an acceptable level of robustness and were supported through implementation from all levels within the Contractor's project team.

The OE monitored and reported the Contractor's progress against an approved deliverables schedule and associated budget. The OE kept apprised of real and potential issues, and facilitated their closure to limit potential schedule or cost impact.

Value Delivered

MMI joined with members of Baker and O'Brien engineering consultants for the execution of the work. Together the team provided a multidisciplinary engineering team having the depth and strength to represent Kinder Morgan's design and engineering needs. Incorporating a lean approach to the role of OE and project management, MMI provided continual on-site technical and project management support, and an OE team empowered to acquire additional engineering, seismic and geotechnical expertise as needed while performing Owner's scope of work activities.



The original regasification plant located in Jackson County, Mississippi



The planned plant site showing the two liquefaction trains and associated plant expansion areas