



Client

GNL Québec - Énergie Saguenay

Vessel Type

LNG Tanker

Location

Saguenay, Quebec, Canada

Full Mission Bridge Navigation Simulation Study

GNL Québec (GNLQ) is developing an industry benchmark, low-carbon emissions, liquefied natural gas (LNG) export terminal for 10.5 million tons per annum (MTPA) nominal liquefaction capacity located in Saguenay, Québec. The proposed terminal will receive, treat, liquefy and export approximately 1.55 billion standard cubic feet of natural gas per day from gas supply sources in Canada.

As part of the development of the project, and specifically the design of the marine terminal and the marine shipping operations, a multiphase Full Mission Bridge Navigation Simulation Program was conducted from December 2018 through to June of 2019. The purpose of these navigation simulations was to prove the viability of the marine layout, and to demonstrate that vessel manoeuvring in the proximity of the terminal (turning, berthing and departures), and vessel transits of the Saguenay estuary, could be conducted safely, and with the utmost concern for minimising environmental or ecological impact. In all cases, manoeuvring outcomes were analysed to determine if planned vessel movements can be conducted with a degree of manoeuvring control that:

- i) adheres with the high level of safety, the risk mitigation policies, and the overall procedural standards maintained by the Corporation of Lower St. Lawrence Pilots (CLSLP); and
- ii) is consistent with internationally accepted practises and safety standards for manoeuvring LNG vessels.