



## Client

CANAPORT LNG Terminal and Repsol

## Vessel Type

Moss Rosenberg and Membranes (QMAX) with interactive Z-Drive tugs

## Location

Saint John, New Brunswick, Canada

## Berthing and Unberthing Manoeuvres at an LNG Terminal Pier with Tugboat Assistance

CANAPORT LNG called on the services of the Maritime Simulation and Resource Centre (MSRC) to determine safe and proper procedures for approaching, berthing and unberthing manoeuvres at the LNG terminal pier with tugboat assistance.

Pilots from the Atlantic Pilotage Authority and tugboat captains from Atlantic Towing Ltd. used four interactive bridges of the MSRC's navigation simulator to conduct a series of simulations on various types of LNG (QMAX, Moss-Rosenberg and 138,000 cbm) vessels assisted by four 5,000 HP tugboats fitted with azimuthing podded propulsion (Z-drive).

The MSRC developed a geographic database for the site and integrated the currents used for the simulations.

