



Client

Valero (Ultramar Ltd.)

Vessel Type

Post-Panamax Tankers w Interactive Tugs

Location

Saint Romuald, Quebec, Canada

Study of Post Panamax Tanker Manoeuvres for an Oil-handling Terminal

Ultramar, a subsidiary of Valero Energy Corporation, called on the services of the Maritime Simulation and Resource Centre (MSRC) to establish new berthing procedures in its port facilities for Post-Panamax tankers.

The MSRC began by developing a complete geographic database for the site. It also converted some current fields predicted by means of digital modelling, depicting the evolution of currents throughout the tidal cycle for spring tide and neap tide conditions. For each geo-referenced point, 12 different vector values were assigned to reflect the dynamic current evolution during tidal cycles.

In collaboration with pilots from the Corporation of Lower Saint Lawrence Pilots, using its full mission bridge simulator, the MSRC then conducted a series of simulations designed to determine the safe berthing procedures for Post Panamax oil tankers assisted by tugboats.

