



## Client

Halifax Port Authority

## Vessel Type

Container ships with interactive ASD tugs

## Location

Halifax, Nova Scotia, Canada

## Manoeuvring Feasibility Study for Loaded Panamax Vessel

Fairview Container Terminal in the Port of Halifax was recently called on by Ultra-Large Post-PANAMAX container ships with a 320-metre length overall and a potential maximum 15-metre draught. These vessels are significantly larger than the 5500 TEU vessels which had previously been the largest vessels to transit the Halifax Narrows. To ensure the safe transit and proper handling of these vessels, the Port of Halifax solicited the MSRC to perform a manoeuvring analysis to determine whether vessels this size could transit with an acceptable margin of under-keel clearance, whether the existing tug escort policy was suitable for the larger ships, and to determine whether wind speed transit restrictions should be imposed on these ships.

A total of 24 simulation runs were conducted over a three-day period with the Halifax pilots and Tug Masters. The primary test vessel was a 320-metre-long container ship, which was used for a total of 18 runs (10 inbound and 8 outbound) with the assistance of either two or three, 50- and 65-ton bollard pull Z-drive tug boats. Additionally, 3 comparative inbound runs were conducted with a vessel 367 metres in length, and 3 outbound runs with a PANAMAX size vessel.

Following this study, and at the request of the Atlantic Pilotage Authority (APA), the MSRC organized training sessions for the Port of Halifax pilots and Atlantic Towing Ltd.'s tug masters.

