U.S. Coast Guard Academy Receives Upgrades to Simulation Complex

HOUSTON – The technology group Wärtsilä has completed replacement of the Ship Analytics simulator solution at the U.S. Coast Guard Academy's Ship Control and Navigation Training System (SCANTS) facility, the company said in a release.

The original simulator system was installed at the academy in the 1990s, and the replacement work was carried out primarily by, and in partnership with, NavSim Services Inc., the prime contractor.

The upgrade was accomplished in two stages to accommodate the operational training schedule of the academy and to fit within the academic breaks. The primary purpose of SCANTS is bridge training for academy cadets and officers preparing to take command of their own cutters. The training emphasis is on navigation, piloting and collision avoidance.

However, the inclusion of specialty modules within the Wärtsilä simulator solution also enables highly advanced training in naval operations, search and rescue, and other operational activities unique to the mission of the U.S. Coast Guard.

The advanced Wärtsilä system consists of two full mission navigation and ship-handling bridges, three additional part task bridges and five separate yet interconnected instructor stations, designed to provide the instructors and operators with the maximum flexibility in accomplishing their training missions.

Designed to provide trainees with a realistic perception of

operating in a real-life shipboard environment, the simulator complex uses an advanced physics engine and high-fidelity hydrodynamic vessel modelling capabilities to replicate the behavior of vessels in various sea states, and at all speeds and environmental conditions.