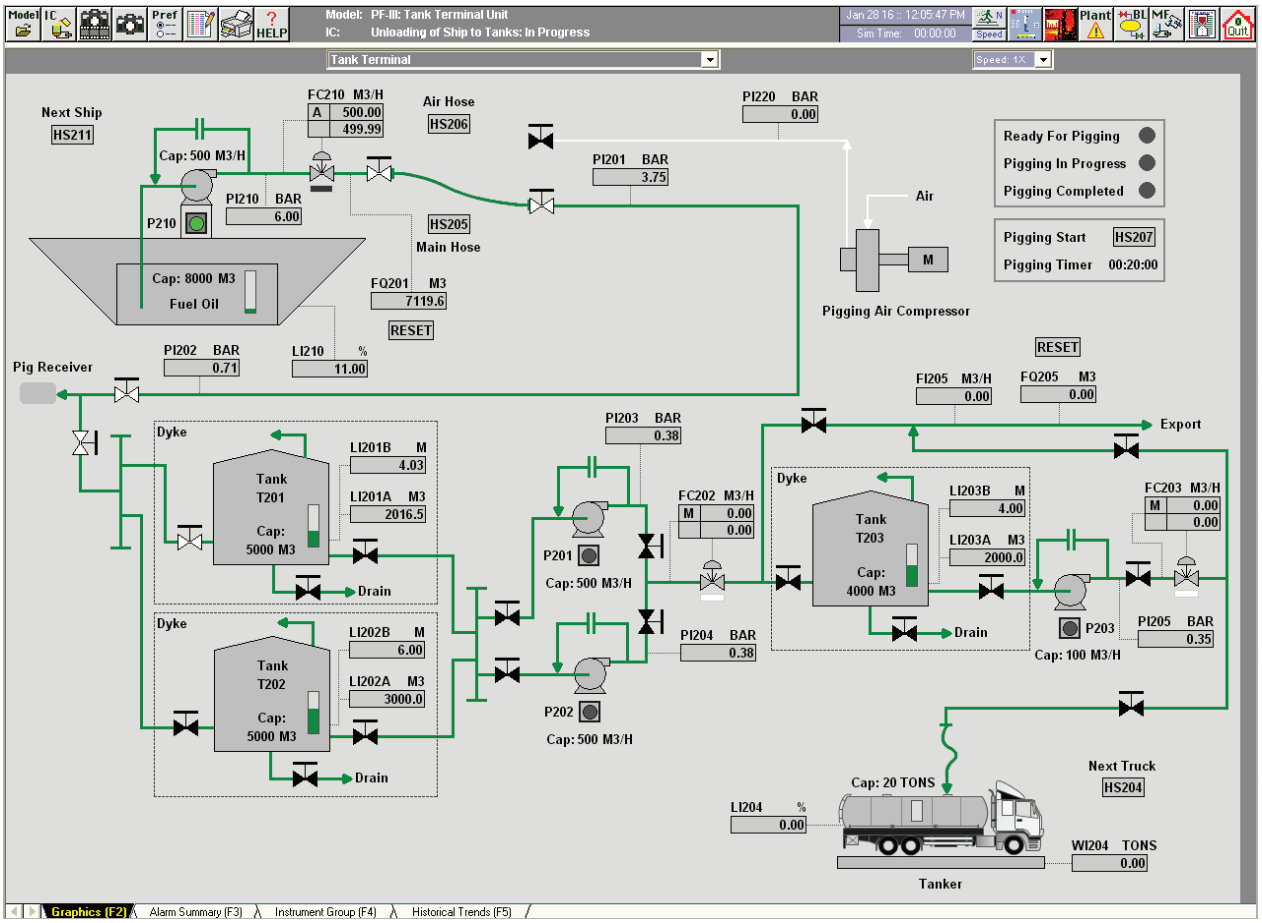
EnVision
e-Learning & Universal Simulation

Tank Terminal Simulation

GSE's Tank Terminal EnVision simulation is a rigorous and high-fidelity mathematical process model that provides a realistic dynamic response of a tank terminal unit with specific simulation exercises.



- Simulation comes with a Learning Management System (LMS) called SimAdmin that allows an instructor to register trainees and monitor their performance
- Simulation is available as Standalone (Single or Dual Monitor) and Instructor-Trainee versions

Tank Terminal Simulation

Process Overview:
This simulation model will help in understanding the operations involved in a tank terminal. The Tank Terminal has three fixed conical roof tanks. Fuel Oil from ship has to be unloaded into the tanks in the terminal. A pipeline connects the jetty to the tank terminal and once the shipment is unloaded, pigging has to be carried out to push the fuel oil in the pipeline to the tanks. Fuel oil loading to tanker truck can also be done from one of the tanks. Each of the tanks is surrounded by a dyke to contain any spillage or leak from the tank.

Major Operations for Trainee Practice:

- Unloading of Fuel Oil from Ship to Empty / Partially Filled Tanks
- Transfer of fuel Oil from One Tank to Another
- Loading of Fuel Oil from Tanks to Tanker Truck / Export
- Pigging Operation after the Transfer of Fuel Oil from Ship
- Troubleshooting Equipment and Instrument Malfunctions
- Malfunction Recovery Actions

Simulation Features:

- Effect of changes in Ship Capacity on Unloading Strategies
- Effect of changes in Tanker Truck Capacity on Loading / Unloading Strategies

EnVision™ is a trademark of GSE Systems, Inc. All other trademarks are the property of their respective owners. The information in this literature is subject to change without notice and is not to be construed as a warranty.

DS.ENV.55.VA 07/24

GSE SOLUTIONS® Future of Power Operations

info@gses.com | www.gses.com