Distillation Emergency Response Management Simulation

Prepare your Board Operators and Emergency Responders to work together by practicing coordination and communication in the event of a plant emergency. Regular practice is needed to ensure all personnel have knowledge of plant command, control, and communication protocols. Such practice can mean the difference between a disaster and a safe recovery.

GSE’s EnVision Emergency Response Management simulations combine a real-time dynamic process simulation with process 3D, Plot Plan, and Alarm Panel displays. The dynamic simulation uses DCS-like graphics, trends, and pop-up controls to give the user interface an authentic look-and-feel.

In an emergency, board room operators and emergency responders will have their hands full – coordinating process operations with fire control, evacuation, even recognizing limitations due to roadblocks and traffic control.

Use the Emergency Response Management product to rehearse emergency scenarios before they happen in real life.
Simulation

GSE’s EnVision simulation is a real-time dynamic process simulation program used for Operator Training. It is based upon a rigorous and High-Fidelity mathematical process model to provide a realistic dynamic response of a process unit.

The Simulator allows a Trainee to Practice:
- Startup and Shutdown Operations
- Normal Operations
- Emergency Shutdown Operation
- Control Exercises
- Troubleshoot and practice recovery from Equipment, Instrument, and Control Valve Malfunctions

Major Units:
- Column with 40 trays
- Feed Preheat: Feed / Bottom Exchanger
- Reboiler: Gas Fired Furnace
- Total Condenser: Water Cooled
- Reflux Drum, Cold Flare Drum and Flare Seal Drum
- Pumps with Seal Oil System

Key Operating Variables:
- Feed (Deethanizer Bottom): 26.1 T/H (57.5 MLB/HR)
- Top Product: 9.4 T/H (20.8 MLB/HR)
- Bottom Product: 16.7 T/H (36.8 MLB/HR)
- Reflux Flow: 29.4 T/H (65.0 MLB/HR)
- Tower Pressure: 11.9 BAR (172.2 PSIG)
- Top Temperature: 44.0 C (111.2 F)
- Bottom Temperature: 89.2 C (192.5 F)

Controls:
- Feed Flow Controller
- Reflux Flow Controller
- Bottom Temperature Controller
- Split Range Tower Pressure Controller
- Tower Bottom Level Controller
- Reflux Drum Level Controller

- 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