Vacuum Crude Distillation Simulation

A real-time dynamic simulation of an Vacuum Crude Distillation Unit

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

- 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

GSE Systems
www.gses.com/EnVision
**Major Equipment:**

- Vacuum Furnace (Natural Draft)
- Vacuum Tower
- Overhead Ejectors & Condensers
- Overhead Drum
- Vacuum Pump & Discharge Separator

**Key Operating Variables:**

- Feed: 360 M3/H (55 MBPD)
- LVGO: 63 M3/H (9.5 MBPD)
- HVGO: 151 M3/H (23 MBPD)
- Residue: 145 M3/H (22 MBPD)
- Furnace Out Temp.: 380 C (715 F)
- Tower Pressure: 93.5 mBARA (2.75 INHGA)