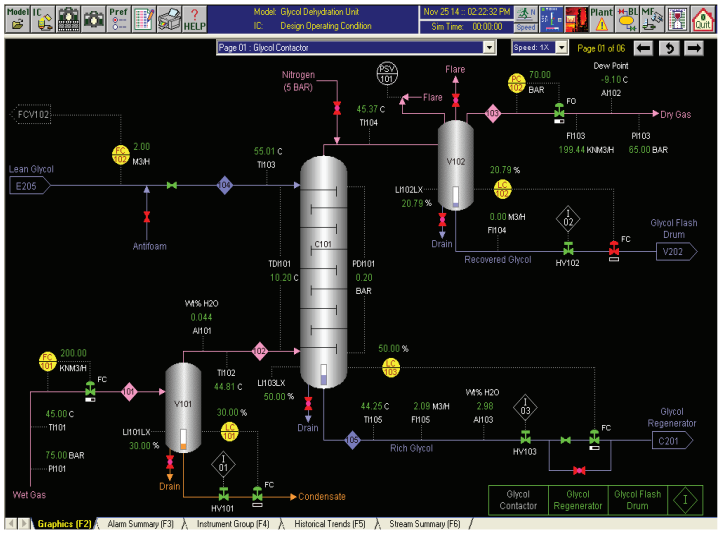
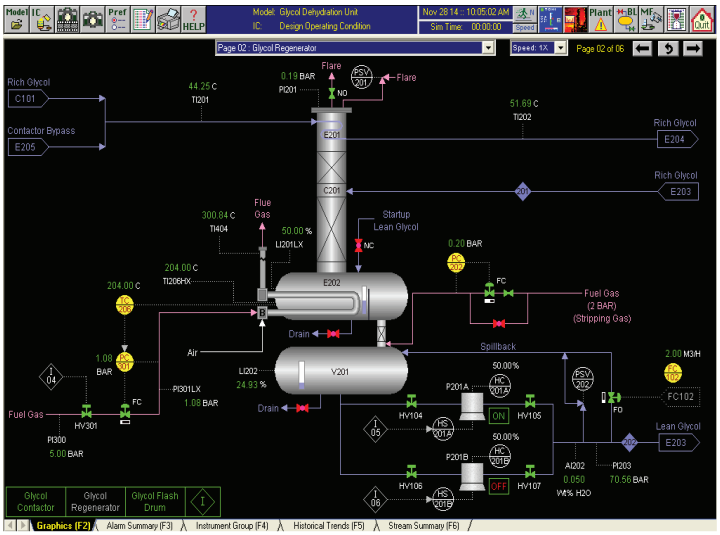
EnVision
e-Learning & Universal Simulation

Glycol Dehydration Unit

A real-time dynamic simulation of Glycol Dehydration 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

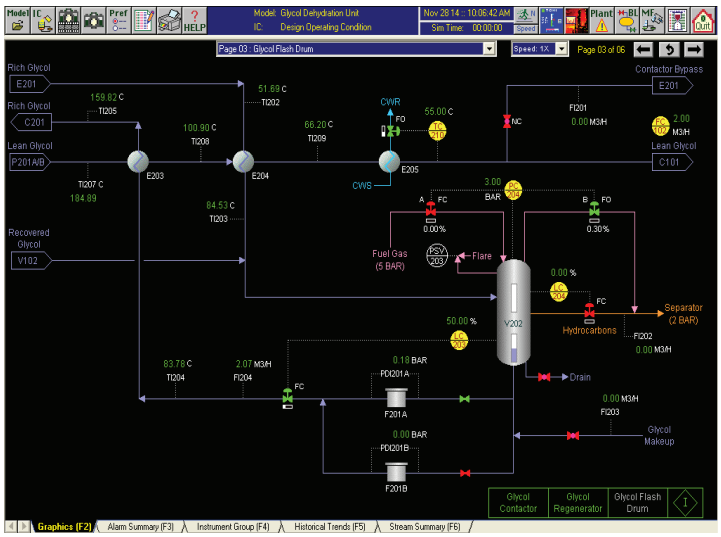
- Simulation comes with a Learning Management System (LMS) called SimAdmin that allows an instructor to register trainees and monitor their performance
- Simulation is available as Standalone (Single or Dual Monitor) and Instructor-Trainee versions

GSE Solutions
www.gses.com/EnVision

Glycol Dehydration Unit

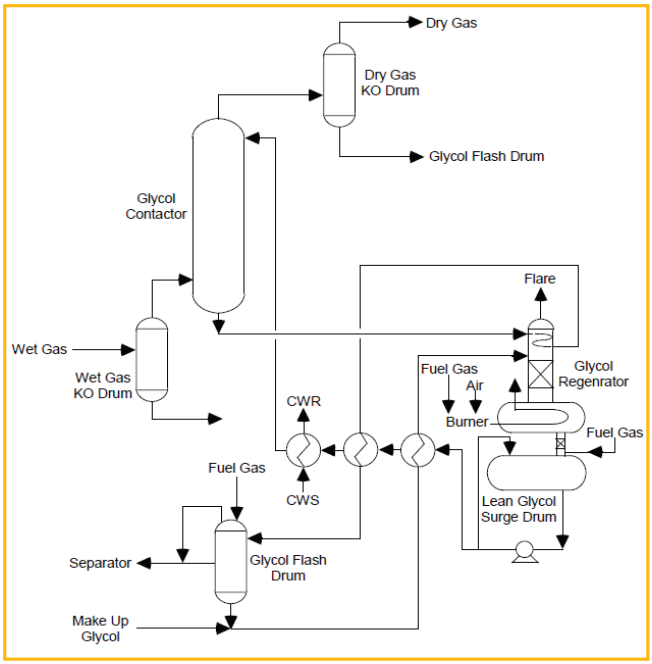
Major Equipment:

- Wet Gas KO Drum
- Glycol Contactor
- Dry Gas KO Drum
- Glycol Flash Drum
- Glycol Still Column
- Gas-fired Glycol Reboiler
- Glycol Surge Drum
- Lean Glycol Pump



Key Operating Variables:

• Glycol Contactor Pressure:	70.0	BAR	(1015.0 PSIG)
• Wet Gas Flow:	200.0	KNM3/H	(7000.0 MSCFH)
• Wet Gas Temperature:	45.0	C	(115.0 F)
• Dry Gas Flow:	199.5	M3/H	(6980.0 MSCFH)
• Glycol Regenerator Pressure:	0.2	BAR	(3.0 PSIG)
• Glycol Reboiler Temperature:	204.0	C	(400.0 F)
• Lean Glycol Flow:	2.0	M3/H	(8.8 GPM)
• Lean Glycol Temperature:	55.0	C	(130.0 F)



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