



Success Story:

SIS-TECH reduces customer turnaround by days and helps reduce costs by hundreds of thousands of dollars.

SIS-TECH provides focused solutions to meet project requirements.

One way to save on turnaround costs is to utilize process simulation to perform testing of safety instrumented systems (SIS) prior to shutdown. SIS-TECH recently assisted a petrochemical plant by providing a process simulation solution.

Simulation software was used to develop screens and algorithms that allowed testing of a Triconex® SIS using an interlock document to drive the hazardous scenario testing of an acrylonitrile unit.

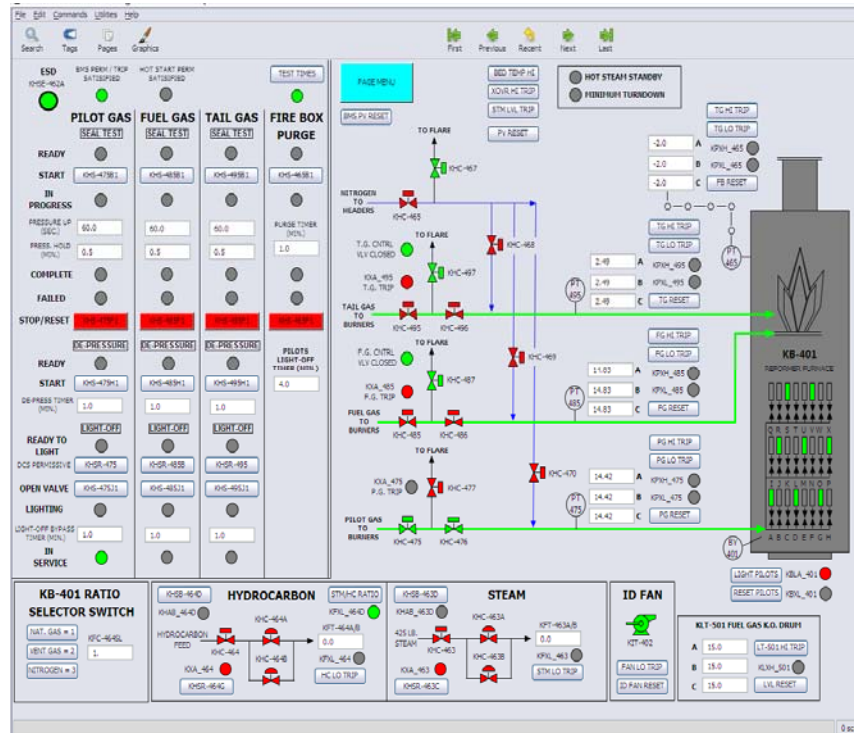
This testing before turnaround resulted in reduced down time by approximately 3 days for a savings in excess of \$500,000. The investment in the simulation software was recovered 100% during FAT alone. In addition the plant is able to use the simulation for operator training and future logic testing.

Advantages of utilizing Process Simulation

- Ensures proper system response by identifying errors in operating procedures and safety system logic.
- Reduces Factory Acceptance and Site acceptance Test (FAT and SAT) time by 40%. Simulation utilizes automated scripts to quickly and accurately test logic including permissives and interlocks.
- Turnaround time can be reduced by days by proof testing the Safety System logic offline, before the turnaround occurs.
- Operator training for start up, shutdown and abnormal conditions. Simulation has auditable, documented results.

SIS-TECH offers process simulation that duplicates a process control response by manipulating the process inputs according to a model or a particular test sequence procedure.

The simulation demonstrates that the application program fulfills the design intent and also meets good engineering practices. Long term benefits are derived in overall plant training, testing, and operation.



We are SIS-TECH

We are committed to process safety as evidenced by our more than 25 years of service on industrial standards committees. We work together as a team using detailed technical practices and management processes. No matter the discipline, the service, or the client expectation we deliver consistent, high quality results.

We identify and assess the potential for loss events, then design, program, build, test, and maintain the instrumentation and control systems that prevent these losses. Our knowledge and experience ensures that we deliver products and services that increase plant reliability and lower the cost of safe operation.

