



FLARE SYSTEM RETROFIT: A TURNKEY SOLUTION



Redesigning and Retrofitting A New
Control System for Flare Operations

THE PROBLEM

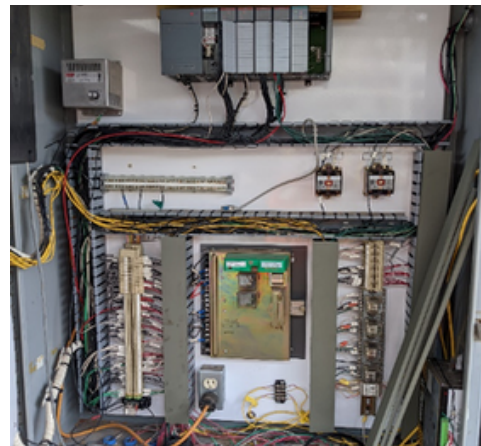
Outdated Control System for Flare Operation

A landfill customer was in need of a new control system for their flare operation—a secondary disposal path for methane. Their current system was 20 years old, outdated, and remained dormant for 4 years.

Their old panel had an obsolete circular chart recorder. Since their system was down for 4 years, NSI worked with them through the process of identifying potential roadblocks and old units that needed to be replaced.



Exterior Before



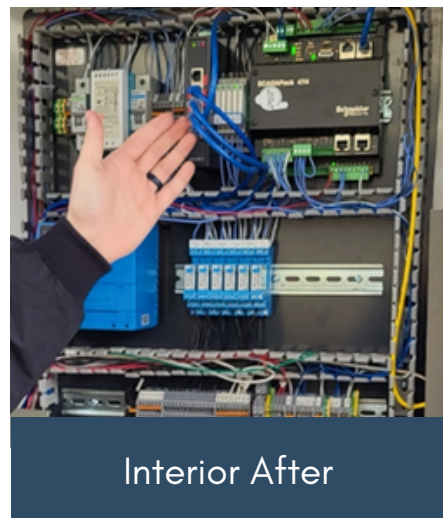
Interior Before

THE SOLUTION

Redesign and Retrofit

Neal Systems redesigned and retrofitted their old system with custom screens and newer technology, creating a cleaner, EPA compliant, operator interface.

NSI retrofitted and rewired their current panel with Foxboro Scadapack 474 RTU and Eurotherm Nanodac for recording and PID loop control. The Scadapack 474 is ruggedized and able to operate in harsh environments, which makes it the perfect solution for outdoor operations.





CONCLUSION

With Neal Systems' solution, the landfill's methane flare is operable and compliant with EPA regulations and recording requirements. The new solution provides the customer with reduced operator involvement in startup and operation. They can simply turn it on and forget about it. Our customer now has a viable secondary disposal path for methane in the event that their generators are unavailable.

Labor

- Custom panel creation
- Field Installation/Modification
- Custom Engineering drawings
- Integration with existing field devices
- Trained staff and provided back-end support

Solutions Delivered

- Cleaner/more intuitive and capable operator interface
- Easier data recording and storage
- Custom screens for flare operation and maintenance
- Worked with customer to revive dormant system

Products

- Foxboro Scadapack RTU
- Eurotherm Nanodac (recorder/controller)
- Weintek HMI (display)