PLC CONSTRUCTION inc

Relief System Study

Performing a relief study for a large-scale facility in Loving County, Texas

Key Benefits:

- ✓ **Comprehensive Coverage**: All critical systems and devices are evaluated for safety and compliance.
- ✓ **Efficiency-Driven Approach**: Smart assumptions reduce time and cost without sacrificing quality.
- ✓ **Scalable Scope**: Flexible structure allows for seamless integration of additional systems.
- ✓ **Expert Insight**: Informed assumptions based on extensive industry experience.
- ✓ **Cost Control**: Clear scope boundaries help manage budget expectations and avoid surprises.

Relief System Study

(*Loving County, TX*)

PLC is a one-stop shop that performs compliance evaluations, defines problems, and provides turn-key solutions.

Comprehensive Relief System Evaluation

Our team was engaged to conduct a full relief system study for a large-scale gas processing & stabilization facility located in Loving County, TX. This project included a detailed evaluation of all pressure-relief devices and low-pressure tanks, as well as a thorough assessment of the vent and disposal systems. In addition to the standard scope, flagged pump systems and potentially unprotected equipment were reviewed to ensure adequate overpressure protection.

Leveraging provided facility drawings and equipment & instrumentation documentation, we applied strategic assumptions to streamline the evaluation of less complex systems, such as thermal or duplicate configurations, enhancing overall efficiency. Stress analysis was scoped based on device sizing and included contingency to account for new relief device recommendations and MDMT piping concerns. Where data was unavailable, our team relied on proven experience to make informed assumptions.

This proactive and flexible approach ensures a robust and cost-effective evaluation, with scalability built in to accommodate additional scope as needed.

This project includes a full evaluation of:

- Pressure-relief devices
- Low-pressure tanks
- Vent and disposal systems
- Pump systems and unprotected equipment