

Case Study

Corpus Christi Salus Implementation

Service: Relief & Flare Systems Documentation

Facility Type: Refinery

Ten years ago, a Gulf Coast refinery was audited exposing major gaps in their relief and flare systems documentation. Without a structured revision control system, design data had become disorganized and unreliable, making regulatory compliance difficult and increasing operational risk. A full documentation revalidation was required, a costly and time-consuming effort. The refinery needed a long-term solution to ensure data accuracy and accessibility while avoiding future large-scale revalidations.

The Salus Solution

To address these challenges, the refinery partnered with Smith & Burgess to implement Salus. The initial investment rebuilt the refinery's design basis, the largest portion of the project. By leveraging Salus' revision control capabilities, the facility transitioned from a reactive to a proactive documentation strategy, reducing annual maintenance costs to 4-6% of the original validation. Automated tracking and centralized data management streamlined processes, reducing effort while maintaining accuracy. Ten years later, a follow-up audit confirmed the facility's documentation remains complete and audit-ready, eliminating the need for another costly revalidation. By choosing Salus, the refinery achieved significant cost savings while securing long-term confidence in its PSV design basis and operational efficiency.

Results

- » **Sustained Cost Efficiency:** Annual maintenance costs stabilized at 4-6% of the original investment.
- » **Reduced Revalidation Costs:** Eliminated the need for costly recurring revalidations
- » **Peak Project Management:** Higher expenditures during peak years were managed for system updates.
- » **Regulatory Compliance:** Salus-enabled documentation updates ensure compliance.
- » **Operational Stability:** Maintenance strategies minimized disruptions and improved reliability.



**35% Cost
Reduction**



**Reduced
Maint. Cost**



**Regulatory
Compliance**

