

## CLIENT CASE STUDY

### “SIL DESIGN”

- ✧ **Facility Type:** Refinery
- ✧ **Services Provided:** LOPA Review & SIL/SIS Design

### The Opportunity:

- ✧ As part of a relief valve study, a competing engineering firm recommended a major United States refinery to replace multiple relief valves and modify the associated piping on a column system in order to mitigate for a higher flare load. The proposed changes would have cost the refinery approximately \$300,000. Unsure of the recommendations and associated expenses, the refinery reached out to Smith & Burgess to review the EPC's findings.

### Our Solution:

- ✧ Smith & Burgess' engineers were able to recommend installing a SIL 2 System to eliminate the heat source and thereby mitigating the higher flare load.

### The Results:

- ✧ The customer was able to reduce the higher flare load with our recommended solution which resulted in a cost saving of \$250,000 and no in-field modifications.



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