

## RELIEF SYSTEM ANALYSIS: MITIGATION OF FLARE NETWORK CONSTRAINTS TO ACHIEVE SAVINGS



### WHERE?

Refinery in North-East USA

### WHY?

Challenges Addressed

- Flare network capacity issues

Goal

- Resolve flare network capacity issues with minimal field modifications

Engagement

- Dynamic Analysis, Safety Instrumented Solution and Quantitative Risk Analysis

### RESULT

#### Benefits Realized

Multi-million dollars in CAPEX savings by minimizing flare network modifications

Improved performance of relief valves

Drastic reduction in likelihood of release using safety instrumented solution

### TECHNIQUES AND EXPERTISE EMPLOYED

- Dynamic models for major relieving systems and rigorous flare model developed which accounts for reliability levels of safety instrumented systems

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