

Flare Systems Analysis

Is the current equipment size appropriate for safe plant operation?

Save CapEx without compromising safety by benefiting from previously oversized flare networks

Benefits

- Revalidation, or new design, of flare equipment
- Available simulation model for any future what-if study
- Updated and revalidated pressure relief devices sizing
- Single repository database of easy access from anywhere in the organization
- Consistent generation of any documentation related to safety devices

Functionalities

• Analysis of pressure relief devices

Contingencies analysis for emergency scenarios Loads calculation by steady state and dynamic simulation Relief devices (re-)sizing according to API standards PSV database creation/consolidation: IPSV

Flare header design & operational analysis
 Validation of existing flare header
 Header hydraulics behavior
 Temperature profiles

Dynamic analysis of peak loads simultaneity Time duration of constraints violation

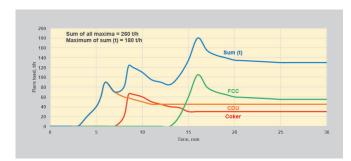
Flare Radiation Analysis
 Multiple flares in multiple stacks

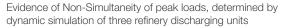
Dynamic radiation and temperature predictions

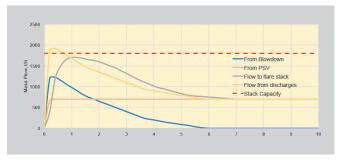
Flare Systems Analysis



Reduce CapEx by considering dynamic effects in your Flare Systems Analysis







Impact of taking into consideration the line packing effect of the flare network

