



PROCESS ENGINEERING

FIRE FIGHTING SYSTEM

- How to prepare Fire water Demand Calculation
- Sizing Fire water pumps and Jockey pump (NFPA 20)
- How to perform spray nozzle sizing and selection
- How to size FW pipes and ring main header using pipenet
- Developed FW pump & Jockey Pump operating philosophy and maintenance
- Generate FW utility flow diagram & utility engineering flow scheme

RELIEF SYSTEM DESIGN ANALYSIS

- How to perform relief load analysis
- How to prepare flare load summary for flare design
- Relief valve type and mechanical operation
- Relief valve sizing and selection
- How to size flare lines (tall pipe, sub header, main header) using flarenet
- How to perform flare radiation study using flaresim

DEPRESSURIZATION STUDY

- How to perform blow down analysis
- Emergency Depressurization and low temperature studies
- Blow down orifice sizing

DYNAMIC SIMULATION USING ASPEN HYSYS

- Dynamics Simulation of process simulation