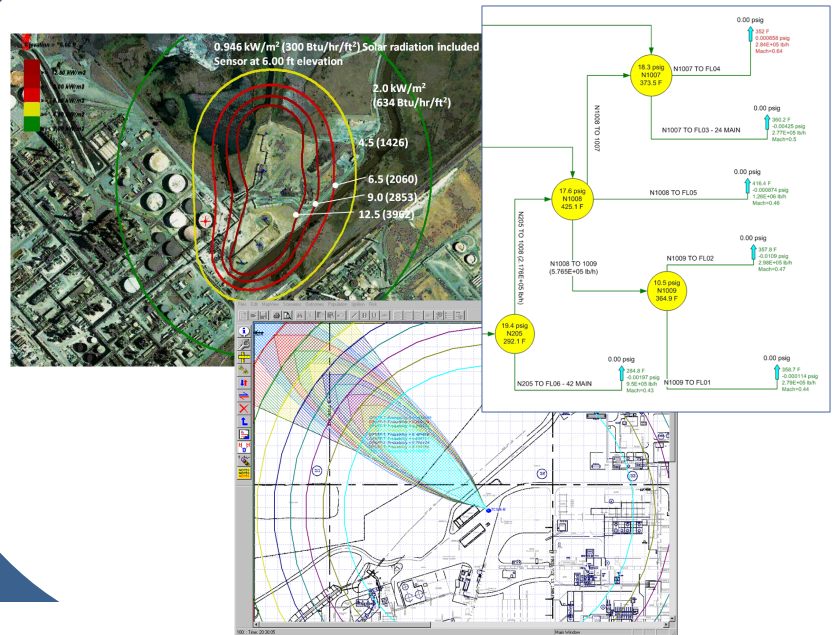


SuperChems™ for ioXpress

A comprehensive platform for process safety

SuperChems is an integrated platform for pressure relief design, chemical reactivity assessment and management, consequence analysis and quantitative risk analysis. Combine with ioXpress™ for a complete pressure relief system data lifecycle management solution.



Features

Consequence Analysis and Fluid Flow

- Source term estimation
- Dispersion modeling
- Explosion dynamics

Emergency Relief and Flare Systems

- Pressure relief design for multi-phase, reacting systems
- Flare systems hydraulics and vibration risk identification
- Piping networks
- Vent containment design
- Deflagration venting and dynamics

Chemical Reactivity

- Experimental data analysis and reduction
- Reaction kinetics and dynamics
- Thermal explosion theory (1D and 2D)

Facility Siting

- Identify structures at risk (building risk)
- Calculate maximum foreseeable loss

Quantitative Risk Analysis

- Fixed facilities QRA
- Individual and societal risk estimates
- Pipeline transportation risk
- Risk-based inspection per API-581