



Operational Excellence Services

**Health · Safety · Environment
(HSE)**

Active Fire Protection Assessment



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Active Fire Protection Assessment

Do you have any of these issues?

- ☹ **Fire and explosion incidents**
- ☹ **High maintenance and inspection cost**
- ☹ **High insurance fees**

Active Fire Protection Assessment Solution

- Re-evaluation for facilities based on credible fire scenario and codes & standards
- Fire scenario simulation based on identified fire scenario
- Fire fighting system evaluation by;
 - Hydraulic calculation
 - Fire water monitor coverage assessment
 - Foam system performance evaluation
 - Etc.



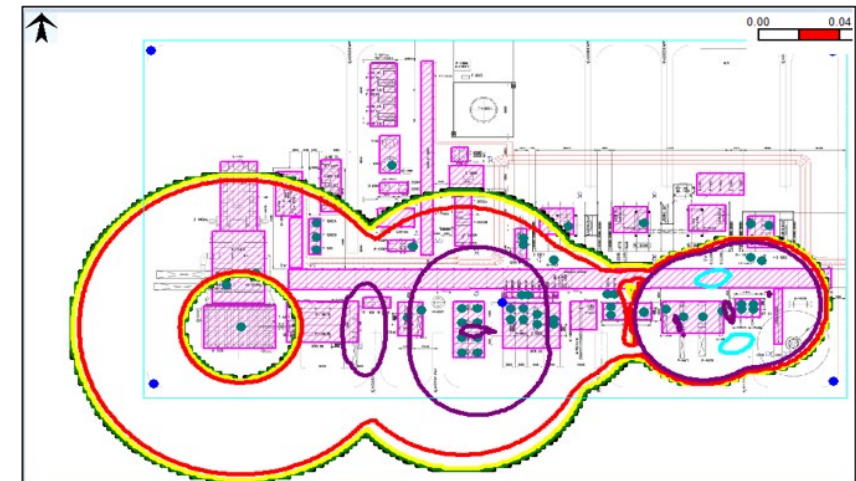
Foam Extinguisher System



Monitor Protection



Water Spray Protection



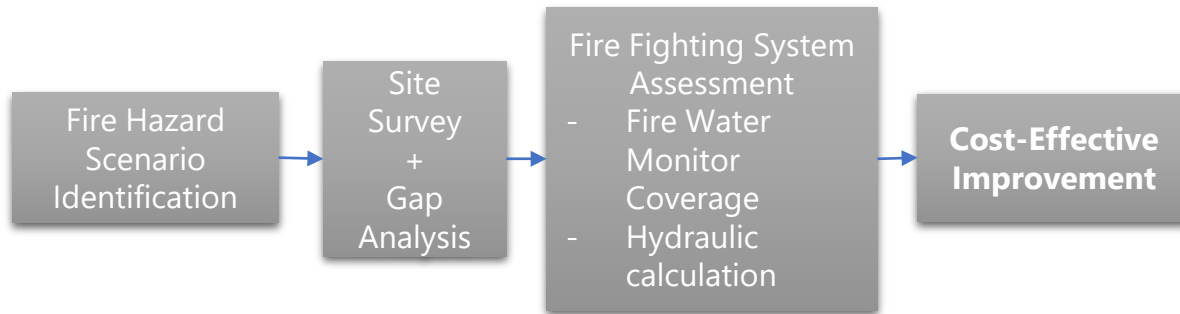
Example of Jet Fire Risk Contour

Active Fire Protection Assessment

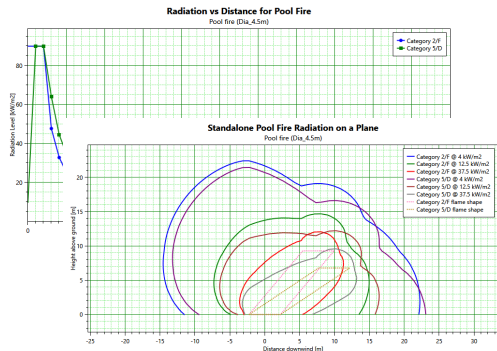
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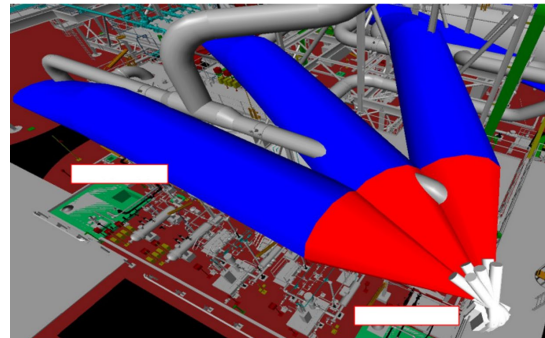
Workflow & Result



Fire Hazard Scenario + Fire Water Monitor Coverage Assessment



Fire Hazard Simulation



Visualizing Monitor Coverage in 3D model

Our Strengths

- Professional Fire Protection and Analysis Teams
 - Top global experiences of active fire protection design and application from EPC execution
- Plant type** - Refinery, Gas Processing, LNG, Chemical
Plant location – Onshore, Offshore
Client – IOCs, NOCs
Code and Standards – NFPA, API, BS, etc.
- Strong relationships with global firefighting equipment suppliers
 - Analysis software – Phast (DNV), in-house simulation

Our Experiences

20+
Study

Fire water monitor coverage assessment 20+ studies.

500+
Cases

500+ Active Fire Protection Design