



# Operational Excellence Services

Health · Safety · Environment  
(HSE)

Active Fire Protection Assessment



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<https://www.jgc.com/en/business/epc/operation-maintenance/service/>

# Active Fire Protection Assessment

Do you have any of these issues?

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



Foam Extinguisher System



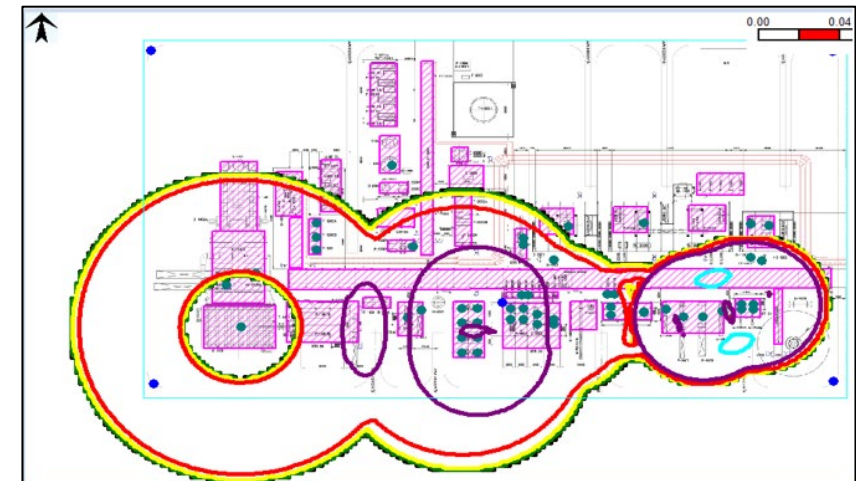
Monitor Protection



Water Spray Protection

## Active Fire Protection Assessment Solution

- 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

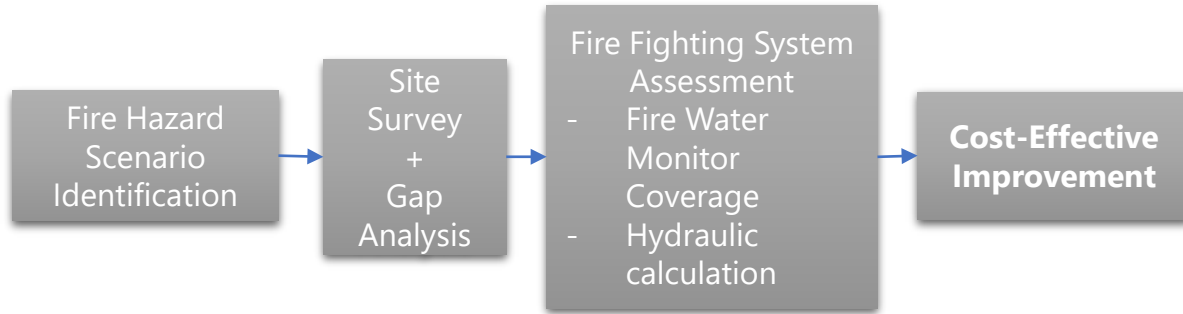


Example of Jet Fire Risk Contour

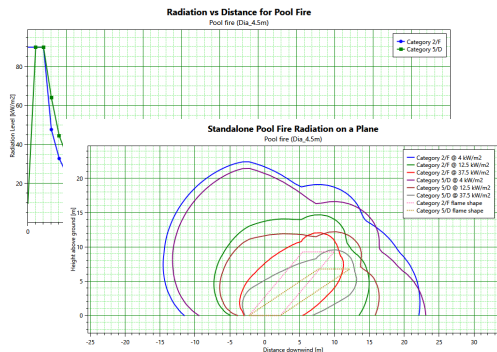
# Active Fire Protection Assessment

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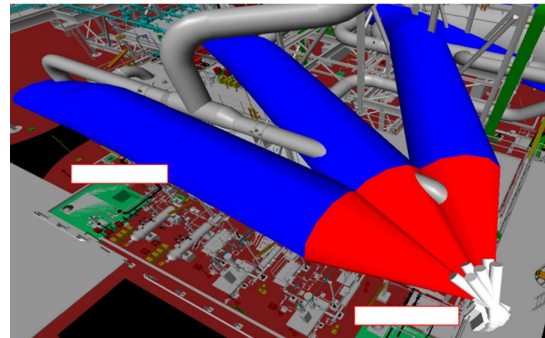
## Workflow & Result



## 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 Experiment

**20+**  
**Study**

Fire water monitor coverage assessment 20+ studies.

**500+**  
**Cases**

500+ Active Fire Protection Design