



Operational Excellence Services

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

**Hazardous Area Classification
(HAC) Optimization**



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Hazardous Area Classification (HAC) Optimization

Do you have any of these issues?

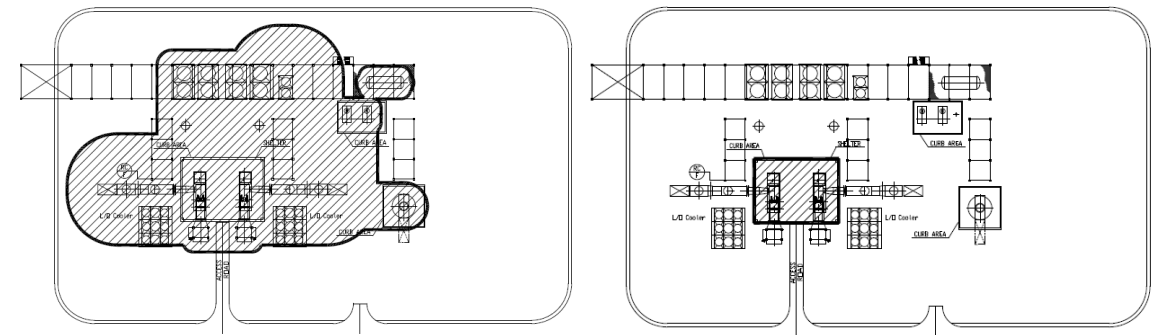
- ☹ **Cannot use unclassified electrical devices at site**
- ☹ **Many manual works for inspections and recording**
- ☹ **Increase cost for inspections and recording**

HAC Optimization Solution

- Optimize the hazardous area for unclassified electrical device with International Standards (IEC 60079-10)
- Based on the detail analysis, the classified area can be reduced/optimized
- Propose a plan to use unclassified electrical devices to minimize the accident risk



Unclassified electrical devices can not be used in hazardous area



HAC for permanent items

HAC for portable items

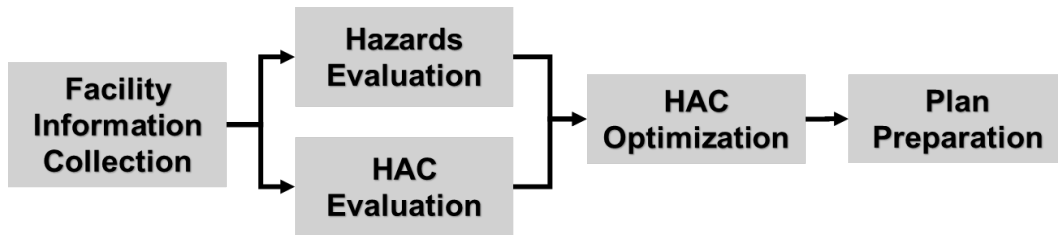
Hazardous Area Optimization for temporary use of unclassified electrical devices

Hazardous Area Classification (HAC) Optimization

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Workflow & Result



- Collection of facilities information
- Evaluation of existing hazardous area classification
- Evaluation of potential hazards' magnitude
- Optimization hazardous area classification considering not only hazardous area classification requirements but also potential impact in case of ignition
- Preparation of plan for use of unclassified electrical devices



Our Strengths

- Professional safety and electrical engineers for not only hazardous area classification but also risk assessment
- Top global experience of hazardous area classification design
Plant type - Refinery, Gas Processing, LNG, Chemical
Plant location – Onshore, Offshore
Clients – IOCs, NOCs
- Wide knowledge for international standard such as, IEC, IP, EI, API, NFPA, JIS, etc.

Our Experiences

**Hazardous Area
Classification Design
Experiences**

500+ Cases