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Enhancing Emergency Management Through Risk Based Emergency
Response Plan - SEC Success Story

Earlier SEC is having generic Pre-Incident Plan (PIPs) & due to this; the company is having an Insurance Survey and other Internal and External Auditor recommendations. SEC introduced risk-based PIPs, PIPs contain following Process Safety Information for Emergency Response Staff, Process Operator & plant personal on specific Emergency Scenarios & its mitigation.

Overview of this Technical Paper: •Why PIP? • Governing standards and legal requirements • Key Parameters and inputs to PIP • Buncefield case study • Benchmarking of SEC PIPs • Key learnings. Expected Outcomes of PIPs: Revalidation of;

- Major worst case credible highest consequences scenarios (C5/C4)
- Fixed and mobile fire protection systems capabilities
- Competent Human Resources & logistic requirements
- Safe distances to combat emergency
- Evacuation and escape routes

Conclusion: PIP training to Emergency Response Staffs, Process Operators were arranged and practice these PIPs during drills and actual emergency.

Presentation Theme: New Implementation of Risk Based Emergency Response and Crisis Management Plan with Consequence Modelling has been started. Now Pre-Incident Plans (PIPs) are having following Process Safety Information, which is helping to Emergency Response Staff, Process Operator, and other plant personal the Emergency Scenarios and its mitigation.

Collaborators, Advisor(s) and Department(s) that assisted with this research:

1. Health, Safety, Security & Environment Business Line
2. Generation Business Line
3. National Grid
4. Distribution Business Line