

Process Safety Webinar Series - Part 3

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Emergency Preparedness and Response

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Requirements for Emergency Preparedness and Response?

The facility shall have adequate systems, procedures, resources and trained people to control processes and equipment during emergencies

MHI Regulations requirement:

SANS 1514:2018

Major Hazard Installation: Emergency Response Planning

What Happens When it Goes Wrong? (1)

Du Pont Laporte – 15 November 2014

- Emergency responders did not have sufficient or correct information on the emergency – they were prepared for a rescue related to fall from heights
- The emergency responders did not know the lay out of the building and there was no drawing available
- No process knowledge supplied by Operations to the emergency responders
- Management of the toxic release was poor as the “hot zone” was poorly defined
- There were no SCBAs available as the vehicle containing them did not start when the emergency team responded
- The emergency responders were sent into a building where there was a toxic release, but the risk of an explosive atmosphere was not assessed

What Happens When it Goes Wrong? (2)

West Fertiliser – 17 April 2013

- Poor awareness from the company on the risk associated with storage of 40 - 60 tonnes of Ammonium Nitrate
- Inadequate emergency planning
- Emergency responders were not aware of the hazardous materials in the facility
- Emergency responders were not trained on the properties of the hazardous chemicals
- Buildings in the town were damaged

What Should You Check in Your Systems?

- How rigorous is the process for ensuring emergency equipment/vehicles are operational when required?
- Is there appropriate emergency planning?
- Do your emergency responders have appropriate knowledge through training on the hazards of each unit on site?
- Are emergency exercises conducted and actions addressed as a priority?
- Are the emergency response requirements adequately addressed during ad hoc activities?
- Is there a way to harness social media to ensure communication is possible with the community during an emergency?

Thank you

Any questions?

