



Natural Hazard Risk Management

Critical Asset Protection

A cost-effective natural hazard loss prevention strategy will require that some assets or systems remain functional post event to protect the business or to prevent damage escalation. ABS Consulting has over 40 years of experience in the field of performance-based engineering, especially in the nuclear sector where post event functionality of emergency shutdown systems is mandated. ABS Consulting has taken this experience to develop evaluation criteria to reduce the risk of damage to critical systems and assets. Example applications include:

- **Fire Detection and Fire Fighting Systems** – to protect people and mitigate damage escalation.
- **Critical Buildings** – to make sure that critical buildings with high personnel occupancy, or that serve an important post event function (e.g. control rooms, emergency systems etc), will be operational post event.
- **Critical Equipment** – equipment of high asset value, with a long replacement lead time or serves an important safety/asset protection function, can be specifically protected against natural hazard events.
- **Back-Up Electrical Power** – to provide uninterrupted power supplies to critical systems, such as fire detection, IT, communications, security, safe-shut down, control and monitoring, etc.
- **Utility Systems** – utility systems serve an important part of a site's recovery, therefore protection of electrical distribution systems, water treatment, cooling water, steam plant, etc. is important.
- **IT Systems** – to secure data and systems control.
- **Safe Shut Down Systems** – so that hazardous processes are shut down and maintained in a safe state.
- **Safety Stocks or Valuable Raw Materials** – to confirm that storage arrangements, i.e. racking or environmental control, are not compromised. This is an important consideration in protecting the supply chain.

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