



Safety Panel 2

Nuclear Innovation North America LLC

Fukushima Recommendation 4.2
(Mitigation Strategies)

Design Vulnerabilities in Electrical Systems
Open Phase Condition

FLEX Strategy Summary



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- Combustion Turbine Generators Available, but Not Credited
- Phase 1 – 36 hours
 - ABWR Installed Equipment
 - Reactor Core Isolation Cooling System
 - AC Independent Water Addition System
 - Containment Overpressure Protection System
 - Remote Shutdown System
- Phase 2 – Portable Onsite Equipment Available, but Not Credited
- Phase 3 – Offsite Equipment

Open Phase Condition



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STP Implementation

- Detect Open Phase Condition
- Alarm in Control Room
- Negative Phase Sequence Relays actuate upon detecting conditions that could damage equipment
- Negative Phase Sequence Relays included in Technical Specifications