



Station Blackout Rulemaking and Grid Reliability Standards Activities Joint FERC/NRC Meeting

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- **Lessons learned from Fukushima – station blackout rulemaking and activities**
- **Geomagnetic disturbances (GMDs) and long-term coping for loss of electrical power**



Lessons Learned from Fukushima

- **Actions Being Taken Without Delay Based on the Near Term Task Force (NTTF) Report:**
- Seismic and flood hazard reevaluations
- Seismic and flood walkdowns
- Station blackout regulatory actions
- Mitigating strategies for beyond design basis events
- Reliable hardened vents for Mark I containments
- Strengthening and integration of emergency procedures
- Emergency preparedness regulatory actions

Geomagnetic Effects

- The NRC staff is participating with other federal agencies in evaluating the effects of GMDs
- Any recommendations from the NERC led Task Force will be considered for applicability to transmission system elements pertinent to nuclear plants

Geomagnetic Effects (cont.)

- Current NRC guidance and practice does not require evaluation of GMDs
- NRC evaluated performance capabilities of safety significant equipment
- NRC evaluating long term shutdown capability (beyond 7 days) without offsite power for existing plants

Acronyms

- **BOP** - Balance of Plant
- **CDA** - Critical Digital Asset
- **CSP** - Cyber Security Plan
- **IAW** - In Accordance With
- **SRM** - Staff Requirements Memorandum
- **SSC** - System, Structure, or Component
- **SSEP** - Safety, Important to Safety, Security, and Emergency Preparedness