

Nuclear Safety Construct Post-Fukushima

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First Principles Have Not Changed

- Prevent fuel damage
- Mitigate fuel damage
- Maintain containment integrity

Key Lessons

- **Preparedness for multiple unit impacts**
- **Preparedness for beyond design basis events**
 - **Knowledge of external hazards and potential cliff edge effects**
- **Need for clear command and control**
 - **Integration of emergency procedures**

U.S. Approach

- **Reevaluating external hazards**
 - Address any cliff edge effects and enhance safety margins
- **FLEX – Diverse, Flexible Coping Capability**
 - Provides operators with additional options for power and water to support key safety functions
 - Includes off-site response capability

Conclusions

- **The new nuclear safety construct should enhance the robustness of the current framework and principles**
 - **Considers and provides consistent treatment of beyond design basis events**
 - **Properly screens and evaluates new information for potential adverse impacts**