



**Closure of Generic Letter 2015-01:
Treatment of Natural Phenomena Hazards at Fuel Cycle Facilities**

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Background

- Fukushima Dai-ichi event in 2011.
- Information Notice 2011-08.
(ADAMS Accession No. ML110830824).
- Temporary Instruction (TI) 2600/015.
(ADAMS Accession No. ML12286A284).
- Inspections identified potential generic issue.
- Unresolved items were issued.
- Generic Letter (GL) 2015-01 issued on June 22, 2015
(ADAMS Accession No. ML14328A029).
- Temporary Instruction 2600/016 to independently verify implementation of licensees responses
(ADAMS Accession No. ML15317A506).

Background (Cont.)

- GL-2015-01 Purpose
 - Request information to verify compliance with regulations regarding natural phenomena hazards (NPH).
 - Verify that integrated safety analyses (ISAs) address the impacts of natural phenomena events.
- Provisions of 10 CFR 70.62(c)(1) require that:
 - Each licensee shall conduct and maintain an ISA.
 - ISA identifies potential accident sequences caused by events internal to the facility and credible external events, including natural phenomena.

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- Evaluation of licensee responses
 - Conducted significant interactions with stakeholders.
 - Issued request for supplemental information.
 - Issued Technical Evaluation Reports (TERs).
- TI 2600/016
 - Inspections independently verified compliance with applicable regulatory requirements and license conditions regarding the treatment of NPH as described in the licensees responses and respective ISAs.
- Issued closure letter to each licensee

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- Examples of safety improvements achieved through this effort
 - Updates to ISA documentation in order to accurately reflect design and safety information for NPH.
 - Adoption of measures in safety programs, like a Configuration Management Program, to carefully evaluate the impacts of facility and design changes on the NPH safety assumptions and items relied on for safety.
 - One licensee implemented significant facility modifications for seismic and missile protection.
 - Modifications involving piping and equipment supports to improve resiliency against seismic hazards.

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- Additional regulatory activities as a result of this effort:
 - Development of Information Notice to inform licensees of recent issues and inspection findings regarding programs and procedures for determining and implementing management measures for isolation controls.
 - The staff is in the process of evaluating guidance on seismic hazards. The results of the evaluation will be used to inform the decision to issue or update NRC guidance.

Conclusion

- GL-2015-01 was an effective mechanism to provide NRC staff the basis for concluding that licensees are in compliance with applicable regulatory requirements related to NPH.
- Closure of GL-2015-01 is an example of a major regulatory effort that yielded significant programmatic accomplishments for the NRC's Fuel Facilities Business Line.