

April 26, 2016

MEMORANDUM TO: Andrea D. Valentin, Executive Director  
Advisory Committee on Reactor Safeguards

FROM: Jack R. Davis, Director */RA Gregory Bowman for/*  
Japan Lessons-Learned Division  
Office of Nuclear Reactor Regulation

SUBJECT: UPDATED DRAFT ASSESSMENT OF FUKUSHIMA TIER 2  
RECOMMENDATION RELATED TO EVALUATION OF NATURAL  
HAZARDS OTHER THAN SEISMIC AND FLOODING

The purpose of this memorandum is to provide the Advisory Committee on Reactor Safeguards (ACRS) an updated draft U. S. Nuclear Regulatory Commission (NRC) staff assessment of natural hazards other than seismic and flooding to facilitate an ACRS Full Committee discussion on this topic scheduled for May 5, 2016. The attached updated assessment is an intermediate work product and does not necessarily represent the final NRC staff or agency position.

During an April 21, 2016, ACRS Fukushima Subcommittee meeting the NRC staff briefed the ACRS members on the NRC staff's assessment found in a March 24, 2016, document titled "White Paper Regarding Nuclear Regulatory Commission Staff Updated Assessment of Fukushima Tier 2 Recommendation Related to Evaluation of Natural Hazards other than Flooding and Seismic," (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16039A054). The staff provided an outline of its assessment of this issue in SECY-15-0137, "Proposed Plans for Resolving Open Fukushima Tier 2 and 3 Recommendations," dated October 29, 2015 (ADAMS Accession No. ML15254A008). In the staff requirements memorandum for SECY-15-0137 dated February 8, 2016, (ADAMS Accession No. ML16039A175), the Commission directed the staff to provide an updated assessment on this topic by the end of May 2016. The white paper was developed to be responsive to the Commission direction and to engage stakeholders, including the ACRS, on the NRC staff's assessment of this issue.

During the April 21, 2016, ACRS Fukushima Subcommittee meeting, the NRC staff informed the Subcommittee that changes were being made to the assessment based on stakeholders feedback on the document. The NRC staff noted, as an example, that it was updating the assessment of low water conditions caused by a downstream dam failure or a seiche to address stakeholder comments. To facilitate the ACRS Full Committee discussion on this topic scheduled for May 5, 2016, the NRC staff committed to provide the ACRS with an updated assessment reflecting the changes that the NRC staff was making to the document in this area. To this end the staff has enclosed two documents: 1) the draft Enclosure to the SECY paper on this issue that is based on the technical information provided in the white paper, and 2) a

redline/strikeout version of the technical evaluation showing the major differences between the white paper and the NRC staff's current draft version of the document. The staff anticipates further changes to the document to address ACRS member comments provided during the April 21, 2016, meeting and to address management comments as the document goes through the concurrence process. Because the NRC staff has not had an opportunity to make the changes to the document to address ACRS member comments from the April 21, 2016, Fukushima Subcommittee meeting, the NRC staff committed to brief the ACRS during the May 5, 2016, meeting on additional changes to the document the staff is considering based on ACRS member comments.

If you have any questions regarding the attached documents please contact me, or Joseph Sebrosky (301-415-1132) of my staff.

Enclosures:

- 1) Draft Nuclear Regulatory Commission Staff Updated Assessment of Fukushima Tier 2 Recommendation Related to Evaluation of Natural Hazards other than Flooding and Seismic
- 2) Redline Strikeout Showing Major Changes to the NRC staff's Assessment of Natural Hazards other than Seismic and Flooding from that Found in Enclosure 1 of this Memorandum and that Found in the March 24, 2016, White Paper on this Topic

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**Enclosure 1: ML16117A042**

**Enclosure 2: ML16117A044**

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