



UNITED STATES
NUCLEAR REGULATORY COMMISSION
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July 24, 2017

MEMORANDUM TO: File

FROM: Joseph Giitter, Director **/RA/**
Division of Risk Assessment
Office of Nuclear Reactor Regulation

SUBJECT: RISK ASSESSMENT STANDARDIZATION PROJECT
(RASP) HANDBOOK, VOLUME 2 UPDATE: EXTERNAL
FLOODING EVENT MODELING AND RISK
QUANTIFICATION

The purpose of this memorandum is to document completion of the Risk Assessment Standardization Project (RASP) Handbook Volume 2 update to include a section entitled "External Flooding Event Modeling and Risk Quantification."

The RASP Handbook documents methods and guidance that NRC staff should use to achieve consistent results when performing risk assessments of operational events and licensee performance issues. It is a "best-practices" document that provides technical guidance on methods used for risk assessment. When assessing the significance of findings related to external flooding using the method and/or guidance provided in the RASP Handbook, the complexity of those findings may require Senior Reactor Analysts (SRAs) to deviate from the RASP Handbook guidance. For those instances where the RASP Handbook does not provide specific guidance or where the guidance is not applicable to a particular situation, the staff has the flexibility to use the best available information, e.g., inspection results or engineering judgement, to come up with the most appropriate model. In such instances, SRAs are requested to document the basis for the deviation to allow for the ease of peer review.

On September 28, 2015, NRR/DRA/APHB requested NRC's Regional Offices and the Office Nuclear Regulatory Research (RES) to review the proposed update (ADAMS Accession No. ML15267A504).

Enclosures:

1. Update of RASP Handbook Volume 2
2. RASP Handbook Update Comment Resolution: Regional Comments
3. RASP Handbook Update Public Comment Resolution: NEI Comments

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Subsequent to that, NRR\DRA\APHB staff held a number of discussions with cognizant staff in the Regional Offices and RES to solicit their views and comments. After reviewing the comments, NRR\DRA\APHB staff revised the proposed update. This Section was further revised after NRR\DRA\APHB staff received comments from the Nuclear Energy Institute (NEI). The updated RASP guidance is attached to this memorandum as Enclosure 1. The summary of the comments received from Regional Offices and NEI and the resolution is attached to this memorandum as Enclosure 2 and Enclosure 3.

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