



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

May 9, 2014

All Power Reactor Licensees and Holders of
Construction Permits in Active or Deferred Status
on the Enclosed List

**SUBJECT: SCREENING AND PRIORITIZATION RESULTS REGARDING INFORMATION
PURSUANT TO TITLE 10 OF THE *CODE OF FEDERAL REGULATIONS*
50.54(f) REGARDING SEISMIC HAZARD RE-EVALUATIONS FOR
RECOMMENDATION 2.1 OF THE NEAR-TERM TASK FORCE REVIEW
OF INSIGHTS FROM THE FUKUSHIMA DAI-ICHI ACCIDENT**

On March 12, 2012, the U.S. Nuclear Regulatory Commission (NRC) issued a request for information pursuant to Title 10 of the *Code of Federal Regulations*, Part 50 (10 CFR), Section 50.54(f) (hereafter referred to as the 50.54 (f) letter) (Agencywide Document Access and Management System (ADAMS) Accession No. ML12053A340). The purpose of that request was to gather information concerning, in part, the seismic hazards at operating reactor sites and to enable the NRC staff to determine whether licenses should be modified, suspended, or revoked. The "Required Response" section of Enclosure 1 indicated that licensees and construction permit holders should provide a Seismic Hazard Evaluation and Screening report within 1.5 years from the date of the letter for central and eastern United States (CEUS) nuclear power plants, and within 3 years for western United States (WUS) plants. For CEUS plants, the date to submit the report was extended to March 31, 2014, by NRC letter dated May 7, 2013.¹ Further, the 50.54(f) letter stated that NRC would provide the results of the screening and prioritization indicating deadlines for individual plants to complete seismic risk evaluations to assess the total plant response to the re-evaluated seismic hazard. Additionally, by letter² dated February 20, 2014, the NRC provided supplemental information on the content of the seismic re-evaluated hazard submittals including guidance on reportability and operability. The purpose of this letter is to inform licensees of the NRC's screening and prioritization and to allow licensees to appropriately plan the completion of further seismic risk evaluations described in Enclosure 1 of the 50.54(f) letter.

To respond to the 50.54(f) letter, all addressees committed to follow the Electric Power Research Institute (EPRI) Report, "Seismic Evaluation Guidance: Screening, Prioritization and Implementation Details (SPID) for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic,"³ as supplemented by the EPRI Report, "Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force (NTTF) Recommendation 2.1: Seismic"⁴ (referred to as the Expedited Approach). The NRC held multiple public meetings and teleconferences with industry and the public leading to the development of the guidance documents supporting review of re-evaluated seismic hazards.

¹ The May 7, 2013, endorsement letter is available in ADAMS under Accession No. ML13106A331.

² The February 20, 2014, supplemental information letter is available in ADAMS under Accession No. ML14030A046

³ The SPID guidance document is found in ADAMS under Accession No. ML12333A170. The staff endorsement letter for the SPID guidance is found in ADAMS under Accession No. ML12319A074.

⁴ The Expedited Approach guidance document is found in ADAMS under Accession No. ML13102A142.

Licenseses submitted the re-evaluated seismic hazards or letter of intent to provide the hazard for their sites by letters dated March 2014 (references are provided in Enclosure 3 of this letter). The NRC staff conducted the screening and prioritization review of the submittals by assessing each licensee's screening evaluation and hazard analysis utilizing the endorsed SPID guidance.

INTERIM EVALUATIONS⁵

The 50.54(f) letter requested that licensees provide "interim evaluations and actions taken or planned to address the higher seismic hazard relative to the design basis, as appropriate, prior to completion of the risk evaluation." For those plants where the re-evaluated seismic hazard exceeds the seismic design basis, licensees stated they will provide interim evaluations to demonstrate that the plant can cope with the higher re-evaluated seismic hazard while the longer term seismic risk evaluations are ongoing. In support of licensee interim evaluations, the Nuclear Energy Institute (NEI) by letter⁶ dated March 12, 2014, provided an EPRI study that estimated fleetwide seismic risk and provided a discussion of the inherent seismic design margins for structures, systems, and components (SSCs).

The March 12, 2014, EPRI fleetwide study calculated seismic risk following the approach the NRC staff used in 2010 for the Safety/Risk Assessment conducted as part of Generic Issue (GI)-199, "Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States on Existing Plants"⁷. The EPRI study concluded that "site-specific seismic hazards show that there [...] has not been an overall increase in seismic risk for the fleet of U.S. plants" based on the re-evaluated seismic hazards. As such, the "current seismic design of operating reactors continues to provide a safety margin to withstand potential earthquakes exceeding the seismic design basis." Lastly, the March 12, 2014, NEI letter provided "Perspectives on the Seismic Capacity of Operating Plants," which (1) assessed a number of qualitative reasons why the design of SSCs inherently contain margin beyond their design level, (2) discussed industrial seismic experience databases of performance of industry facility components similar to nuclear SSCs, and (3) discussed earthquake experience at operating plants.

In their March 2014 submittals, licensees confirmed that the conclusions of the EPRI fleetwide study apply to their plants. The submittals also discussed completing plant seismic walkdowns as part of NTF Recommendation 2.3 in order to verify that the current plant configuration is consistent with the licensing basis. In addition, licensees described any insights gained from previous seismic evaluations.

To assess each licensee's interim evaluations, the NRC staff reviewed the fleetwide study as well as each licensee's plant-specific discussion. The results of the staff's independent review confirm that fleetwide seismic risk estimates are consistent with the approach and results used in the GI-199 safety/risk assessment. As a result, the staff has confirmed that the conclusions reached in GI-199 safety/risk assessment remain valid and that the plants can continue to operate while additional evaluations are conducted.

⁵ Enclosure 1 of this letter provides a Glossary of Seismic Evaluations

⁶ Industry-issued letter on seismic risk evaluations for plants in the Central and Eastern United States is available in ADAMS under Accession No. ML14083A596.

⁷ Results of Safety/Risk Assessment of GI-199 is available in ADAMS under Accession No. ML100270582.

The interim evaluation is a first step in the near-term assessment of the plant's capacity to withstand the re-evaluated hazard. Also in the near-term, by December 2014, plants with a higher re-evaluated hazard will complete an "Expedited Approach" to evaluate and identify reinforcements, if necessary, for certain equipment to ensure a safe shutdown pathway can withstand the higher seismic ground motion.

SCREENING PROCESS

As defined in the 50.54(f) letter and the SPID guidance, the seismic hazard re-evaluations were conducted using current analysis methods and guidance. The licensees' responses to the 50.54(f) letter provided seismic hazard re-evaluation results, which were the focus of the NRC staff's initial screening and prioritization review.

Although the safe shutdown earthquake (SSE) is commonly referred to as a single number, this number represents a distribution of ground motions that occur over a range of spectral frequencies. This results in a curve of ground acceleration over frequency. The ability of equipment and structures in the plant to withstand the effects of ground motions is frequency specific. For the purposes of the licensees' analyses and NRC staff's review, the SPID guidance identifies three frequency ranges that are of particular interest: 1–10 Hz, a low frequency range of <2.5 Hz, and a high frequency range of >10 Hz. The different ranges have been identified due to the different types of structures and equipment that may be impacted by ground motions in that range. For example, large components generally are not affected significantly by high frequencies (i.e., >10 Hz). The frequency range 1–10 Hz is the focus for this portion of the risk evaluation, as this range has the greatest potential effect on the performance of equipment and structures important to safety. For other frequency ranges, discussed below, limited-scope evaluations will be conducted, when appropriate.

In accordance with the SPID and Expedited Approach guidance, the re-evaluated seismic hazard determines if additional seismic risk evaluations are warranted for a plant. Specifically, the re-evaluated ground motion response spectra (GMRS) in the 1–10 Hz frequency range is compared to the existing SSE:

- If the re-evaluated GMRS, in the 1–10 Hz range, is less than the plant's existing SSE, then the plant screens out of conducting further seismic risk evaluations.
- If the GMRS, in the 1–10 Hz range, is greater than the existing SSE, then the plant will complete the Expedited Approach (including the Interim Evaluation). Most plants that meet this criterion also screen in to conduct a seismic risk evaluation and have committed to conduct high frequency and spent fuel pool evaluations.
- The SPID guidance provides criteria for a plant with a GMRS above the SSE, but bounded by the Individual Plant Examination for External Events (IPEEE) capacity spectrum. To use the IPEEE capacity spectrum to screen out of conducting a seismic risk evaluation, the licensee needed to demonstrate the adequacy of the plant's IPEEE evaluation by meeting the criteria in the SPID. If the IPEEE capacity is greater than the GMRS in the 1–10 Hz range, the plant screens out of conducting a seismic risk

evaluation. However, these plants have committed to evaluate the spent fuel pool at the re-evaluated hazard level, as spent fuel pools were not analyzed in the IPEEE program.

In addition, if the GMRS meets the low hazard threshold, which is described in the SPID, and only exceeds the SSE below 2.5 Hz, the licensee will perform a limited evaluation of equipment potentially susceptible to low frequency motions. Similarly, if the GMRS exceeds the SSE only above 10 Hz, then the licensee will perform an evaluation of the equipment or structures susceptible to that specific range of ground motion.

Enclosure 2 provides the staff's determination of priority for plants that screen in to conduct a seismic risk evaluation, and identification of plants to complete limited-scope evaluations (i.e., spent fuel pool, high frequency, or low frequency). Additionally, the enclosure identifies plants that screen out of any further evaluations.

CONDITIONAL SCREENING

As discussed in public meetings⁸ and a February 20, 2014 letter, the staff anticipated the possibility of not being able to complete the determination for conducting a seismic risk evaluation for some plants in the 30-day review period under certain circumstances. For example, if a licensee provided a unique submittal or deviated from the SPID guidance, additional time for the review might be needed. For other submittals, the staff's independent GMRS assessment could differ from the GMRS provided in the March 2014 submittals, and these differences need to be better understood before determining if a plant would screen out from further evaluation. Accordingly, during the NRC screening and prioritization process, the staff did identify some plants for which a determination could not be made and interactions with the licensees are needed to reach resolution. The staff determined these plants are "conditionally screened-in" for the purposes of prioritizing and conducting additional evaluations.

Plants identified as "conditional screen-in" should submit the Expedited Approach by December 31, 2014 and, until a final determination is made, conduct a seismic risk evaluation as prioritized in Enclosure 2. Those plants identified as "conditional screen-in," which based on their screening assessment, did not submit an interim evaluation in the March 2014 submittal, should complete the interim evaluations, identify any associated actions, and submit the results to the NRC by no later than June 6, 2014.

For plants identified as "conditional screen-in", after interactions with licensees have occurred, the staff will make a final screening and prioritization determination and provide a letter to each impacted licensee. If the plant remains screened in, the final screening letter also will affirm or update the plant priority for further evaluations. If the plant screens out, the final screening letter also will determine if the plant needs to complete limited-scope evaluations (i.e., spent fuel pool, high frequency, or low frequency).

⁸ Discussion as part of public meetings dated January 23, February 5, February 10, and March 25, 2014 (ADAMS Accession Nos. ML14028A062, ML14050A055, ML14050A084, and ML14091A102, respectively)

PLANT PRIORITIZATION

The NRC grouped the “screened in” (including those conditionally screened in) plants into three groups, which (i) reflects the relative priority for conducting a seismic risk evaluation that compares each plant’s current capabilities to the re-evaluated seismic hazard, and (ii) accounts for the appropriate allocation of limited staff and available expertise for reviewing and conducting seismic risk evaluations. During the prioritization review, the staff considered each licensee’s re-evaluated hazard submittals, seismic risk insights from GI 199 “Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States on Existing Plants,” and the staff’s confirmatory analysis of the seismic hazard.

Enclosure 2 provides the plant prioritizations for completing the seismic risk evaluations. To prioritize the plants, staff examined certain key parameters such as (1) the maximum ratio of the new re-evaluated hazard (GMRS) to the SSE in the 1-10 Hz range; (2) the maximum ground motion in the 1-10 Hz range; and (3) insights from previous seismic risk evaluations. As such, Group 1 plants are generally those that have the highest re-evaluated hazard relative to the original plant seismic design basis (GMRS to SSE) as well as ground motions in the 1-10 Hz range that are generally higher in absolute magnitude. Group 1 plants are expected to conduct a seismic risk evaluation and submit it by June 30, 2017. Group 2 plants are also expected to conduct a seismic risk evaluation, which should be submitted by December 31, 2019.

Enclosure 2 also provides a list of Group 3 plants. Group 3 plants have GMRS to SSE ratios that are greater than 1, but the amount of exceedance in the 1-10 Hz range is relatively small, and the maximum ground motion in the 1-10 Hz range is also not high. Given the limited level of exceedance of the Group 3 plants, staff is evaluating the need for licensees to conduct a seismic risk evaluation in order for the staff to complete its regulatory decision making. However, the staff has had insufficient review time with the recently submitted seismic hazard submittals to reach a conclusion. After further review of the seismic hazard re-evaluations and the Expedited Approach submittals, the staff will decide which Group 3 plants need to complete a risk evaluation. Risk evaluations for Group 3 plants are due by December 31, 2020.

NEXT STEPS

For plants that screen in to conduct a risk evaluation, the licensees should finalize and submit each plant’s Expedited Approach no later than December 31, 2014. In accordance with the endorsed guidance, the staff acknowledges that the December 2014 Expedited Approach submittal will focus on plant equipment (i.e. safe shutdown pathway⁹) evaluations and modifications, as necessary, prior to submitting the plant seismic risk evaluations.

Additionally, the schedule milestones and content of limited-scope evaluations will require additional development and coordination with stakeholders. For example, for the high frequency evaluation, an industry study of the effects for sensitive equipment is currently in progress. Furthermore, recent assessments by the NRC staff and related decisions by the Commission may justify revisions to the existing guidance regarding the limited-scope evaluations of spent fuel pools at some sites. As needed, the NRC staff will initiate discussions

⁹ Section 3 of the Expedited Approach guidance (ADAMS No. ML13102A142) provides a process to identify a single seismically robust success path using a subset of installed plant equipment, FLEX equipment and connection points.

with stakeholders in the near future as part of the development of any revised guidance documents. Given the generic nature of the limited-scope evaluations, it is expected that these evaluations will be completed for plants within the next two years.

This letter transmits the NRC staff's results of the seismic hazard submittals for the purposes of screening and prioritizing the plants. It does not convey the staff's final determination regarding the adequacy of any plant's calculated hazard. As such, the NRC staff will continue its review of the submitted seismic hazard re-evaluations, and may request additional plant-specific information to support this review. The staff has placed a high priority on this review for the early identification of issues that might adversely affect each licensee's seismic risk evaluations. Initial interactions with licensees will occur as soon as practicable. The NRC staff plans to issue a staff assessment on the re-evaluated seismic hazard once each review is completed in approximately 12 to 18 months.

If you have any questions on this matter, please contact your NRC licensing Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric J. Leeds" followed by the initials "E.J.L." in a cursive style.

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation

Enclosures:

1. Glossary of Evaluations
2. Screening and Prioritization Results
3. List of Licensee March 2014 Re-evaluated Seismic Hazard Submittals
4. List of Addressees

Glossary of Evaluations

Associated with Near-Term Task Force Recommendation 2.1 Seismic Hazard Re-evaluations

Interim Evaluation or Actions – An immediate licensee and NRC review of the re-evaluated hazard to determine whether actions are needed to assure plant safety while further evaluations are ongoing. The staff has completed its review and concluded that, based on the licensees' interim evaluations and actions, all central and eastern United States (CEUS) plants are safe for continued operations. Interim evaluations and actions are provided in Section 5.0, "Interim Actions," of the licensee submittals.

Expedited Approach – A near-term licensee evaluation to be completed by December 31, 2014, for CEUS plants whose re-evaluated hazard exceeds the current design basis for the safe shutdown earthquake hazard level. The evaluation looks at the systems and components that can be used to safely shut down a plant under the conditions of a station blackout (i.e., no alternating current power is available) and loss of ultimate heat sink. The expedited approach will either confirm that a plant has sufficient margin to continue with a longer-term evaluation without any modifications, or confirm the need to enhance the seismic capacity to assure they can withstand the re-evaluated hazard. The Expedited Approach guidance document is found in the Agencywide Documents Access and Management System under No. ML13102A142.

Seismic Risk Evaluation – Longer-term seismic risk evaluation provides the most comprehensive information to make regulatory decisions, such as whether to amend a plant's design or licensing basis or make additional safety enhancements. These evaluations provide information to make risk-informed decisions. The staff will use this information in conjunction with the existing regulatory tools, such as backfit analysis, to decide on further regulatory actions. The longer-term seismic risk evaluations could be either a Seismic Margins Analysis or a Seismic Probabilistic Risk Assessment, depending on the magnitude of the exceedance.

Limited-Scope Evaluations – These include i) Spent Fuel Pool Evaluation, ii) High Frequency Evaluation, and iii) Low Frequency Evaluation. Respectively, these evaluations are focused on the following: i) spent fuel pool components and systems capable of draining water inventory to the level of the spent fuel, ii) a review of components susceptible to high frequency accelerations (e.g. electrical relays), and iii) a review of components susceptible to low frequency accelerations (e.g. water storage tanks).

Near-Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident
Seismic Risk Evaluations Screening and Prioritization Results for
Central and Eastern Reactor Sites

Plant Name	Screening Result	Expedited Approach Evaluation	Seismic Risk Evaluation (Prioritization Group)	Limited-scope Evaluations		
				High Frequency Evaluation	Low Frequency Evaluation	Spent Fuel Pool Evaluation
Callaway Plant, Unit 1	In	x	1	x		x
Donald C. Cook Nuclear Plant, Units 1 and 2	In	x	1	x		x
Indian Point Nuclear Generating Unit Nos. 2 and 3	In	x	1	x		x
North Anna Power Station, Units 1 and 2	In	x	1	x		x
Oconee Nuclear Station, Units 1, 2, and 3	In	x	1	x		x
Peach Bottom Atomic Power Station Units 2 and 3	In	x	1	x		x
Pilgrim Nuclear Power Station, Unit No. 1	In	x	1	x		x
H. B Robinson Steam Electric Plant, Unit No. 2	In	x	1	x		x
Vogtle Electric Generating Plant, Units 1 and 2	In	x	1	x		x
Watts Bar Nuclear Plant, Units 1 and 2	In	x	1	x		X
Beaver Valley Power Station, Units 1 and 2	In	x	2	x		x

Plant Name	Screening Result	Expedited Approach Evaluation	Seismic Risk Evaluation (Prioritization Group)	Limited-scope Evaluations		
				High Frequency Evaluation	Low Frequency Evaluation	Spent Fuel Pool Evaluation
Browns Ferry Nuclear Plant, Units 1, 2, and 3	In	x	2	x		x
Dresden Nuclear Power Station, Units 2 and 3	In	x	2	x		x
Fermi, Unit 2	In	x	2	x		x
Edwin I. Hatch Nuclear Plant, Units 1 and 2	In	x	2	x		x
LaSalle County Station, Units 1 and 2	In	x	2	x		x
Oyster Creek Nuclear Generating Station	Conditional In	x	2	x		x
Palisades Nuclear Plant	In	x	2	x		x
Virgil C. Summer Nuclear Station, Unit 1	In	x	2	x		x
Catawba Nuclear Station, Units 1 and 2	In	x	2	x		x
Sequoyah Nuclear Plant, Units 1 and 2	In	x	2	x		x
Arkansas Nuclear One, Units 1 and 2	Conditional In	x	3	x		x
Bellefonte Nuclear Plant, Units 1 and 2	In	x	3	x		x
Brunswick Steam Electric Plant, Units 1 and 2	Conditional In	x	3	x		x
Calvert Cliffs Nuclear Power Plant, Units 1 and 2	In	x	3	x		X
Clinton Power Station, Unit 1	Conditional In	x	3	x		x
Cooper Nuclear Station	Conditional In	x	3	x		x

Plant Name	Screening Result	Expedited Approach Evaluation	Seismic Risk Evaluation (Prioritization Group)	Limited-scope Evaluations		
				High Frequency Evaluation	Low Frequency Evaluation	Spent Fuel Pool Evaluation
Davis-Besse Nuclear Power Station, Unit 1	In	x	3	x		x
Duane Arnold Energy Center	Conditional In	x	3	x		x
James A. FitzPatrick Nuclear Power Plant	Conditional In	x	3	x		x
Fort Calhoun Station, Unit 1	Conditional In	x	3	x		x
Limerick Generating Station, Units 1 and 2	Conditional In	x	3	x		x
William B. McGuire Nuclear Station, Units 1 and 2	In	x	3	x		x
Millstone Power Station, Unit 2	Conditional In	x	3	x		x
Monticello Nuclear Generating Plant	Conditional In	x	3	x		x
Perry Nuclear Power Plant, Unit 1	In	x	3	x		x
Point Beach Nuclear Plant, Units 1 and 2	In	x	3	x		x
Quad Cities Nuclear Power Station, Units 1 and 2	Conditional In	x	3	x		x
Salem Nuclear Generating Station, Units 1 and 2	Conditional In	x	3	x		x
Seabrook, Unit 1	In	x	3	x		x
Surry Power Station, Unit Nos. 1 and 2	Conditional In	x	3	x		x
Three Mile Island Nuclear Station, Unit 1	In	x	3	x		x
Wolf Creek Generating Station, Unit 1	In	x	3	x		x

Plant Name	Screening Result	Expedited Approach Evaluation	Risk Evaluation (Prioritization Group)	Limited-scope Evaluations		
				High Frequency Evaluation	Low Frequency Evaluation	Spent Fuel Pool Evaluation
Vermont Yankee Nuclear Power Station	Conditional In	x	3	x		x
Braidwood Station, Units 1 and 2	Out			x		
Byron Station, Units 1 and 2	Out	x ¹		x		x
Comanche Peak Nuclear Power Plant, Units 1 and 2	Out					
Joseph M. Farley Nuclear Plant, Units 1 and 2	Out			x	x	
R.E. Ginna Nuclear Power Plant	Out			x		
Grand Gulf Nuclear Station, Unit 1	Out					
Shearon Harris Nuclear Power Plant, Unit 1	Out			x		
Hope Creek Generating Station	Out			x		
Millstone Power Station, Unit 3	Out	x ¹		x		x
Nine Mile Point Nuclear Station, Units 1 and 2	Out			x		
Prairie Island Nuclear Generating Plant, Units 1 and 2	Out			x		
River Bend Station	Out			x		
St. Lucie Plant, Units 1 and 2	Out					
South Texas Project, Units 1 and 2	Out					
Susquehanna Steam Electric Station, Units 1 and 2	Out	x ¹		x		
Turkey Point, Units 3 and 4	Out					
Waterford Steam Electric Station, Unit 3	Out			x		

¹ Re-evaluated hazard is greater than plant licensing basis safe shutdown earthquake. Licensee has demonstrated IPEEE plant capacity consistent with endorsed guidance bounds the re-evaluated hazard. Expedited approach evaluation will provide a demonstration of safe shutdown capability at a greater hazard level.

March 2014 Re-evaluated Seismic Hazard Submittals
for Central and Eastern United States Reactor Sites

Licensee Facility	Date of letter (ADAMS Accession Nos.)
Arkansas Nuclear One, Units 1 and 2	March 28, 2014 (ML14092A021)
Beaver Valley Power Station, Units 1 and 2	March 31, 2014 (ML14090A143)
Bellefonte Nuclear Plant, Units 1 and 2	March 31, 2014 (ML14098A478)
Braidwood Station, Units 1 and 2	March 31, 2014 (ML14091A243)
Browns Ferry Nuclear Plant, Units 1, 2, and 3	March 31, 2014 (ML14098A478)
Brunswick Steam Electric Plant, Units 1 and 2	March 31, 2014 (ML14106A461)
Byron Station, Units 1 and 2	March 31, 2014 (ML14091A010)
Callaway Plant, Unit 1	March 28, 2014 (ML14090A446)
Calvert Cliffs Nuclear Power Plant, Units 1 and 2	March 31, 2014 (ML14099A196)
Catawba Nuclear Station, Units 1 and 2	March 31, 2014 (ML14099A184)
Clinton Power Station, Unit 1	March 31, 2014 (ML14091A011)
Comanche Peak Nuclear Power Plant, Units 1 and 2	March 27, 2014 (ML14099A197)
Cooper Nuclear Station	March 31, 2014 (ML14094A048)
Davis-Besse Nuclear Power Station, Unit 1	March 31, 2014 (ML14090A143)
Donald C. Cook Nuclear Plant, Units 1 and 2	March 27, 2014 (ML14092A327)
Dresden Nuclear Power Station, Units 2 and 3	March 31, 2014 (ML14091A012)
Duane Arnold Energy Center	March 28, 2014 (ML14092A331)
Joseph M. Farley Nuclear Plant, Units 1 and 2	March 31, 2014 (ML14092A020)
Fermi, Unit 2	March 31, 2014 (ML14090A326)
James A. FitzPatrick Nuclear Power Plant	March 31, 2014 (ML14090A243)
Fort Calhoun Station, Unit 1	March 31, 2014 (ML14097A087)
R.E. Ginna Nuclear Power Plant	March 31, 2014 (ML14099A196)
Grand Gulf Nuclear Station, Unit 1	March 31, 2014 (ML14090A098)
Shearon Harris Nuclear Power Plant, Unit 1	March 27, 2014 (ML14090A441)
Edwin I. Hatch Nuclear Plant, Units 1 and 2	March 31, 2014 (ML14092A017)
Hope Creek Generating Station	March 28, 2014 (ML14087A436)
Indian Point Nuclear Generating Unit Nos. 2 and 3	March 31, 2014 (ML14099A110 and ML14099A111)
LaSalle County Station, Units 1 and 2	March 31, 2014 (ML14091A013)
Limerick Generating Station, Units 1 and 2	March 31, 2014 (ML14090A236)
William B. McGuire Nuclear Station, Units 1 and 2	March 20, 2014 (ML14098A421)
Millstone Power Station, Units 2 and 3	March 31, 2014 (ML14092A417)
Monticello Nuclear Generating Plant	March 31, 2014 (ML14090A297) and April 3, 2014 (ML14093B361)
Nine Mile Point Nuclear Station, Units 1 and 2	March 31, 2014 (ML14099A196)

Licensee Facility	Date of letter (ADAMS Accession Nos.)
North Anna Power Station, Units 1 and 2	March 31, 2014 (ML14092A416)
Oconee Nuclear Station, Units 1, 2, and 3	March 31, 2014 (ML14092A024)
Oyster Creek Nuclear Generating Station	March 31, 2014 (ML14090A241)
Palisades Nuclear Plant	March 31, 2014 (ML14090A069)
Peach Bottom Atomic Power Station Units 2 and 3	March 31, 2014 (ML14090A247)
Perry Nuclear Power Plant, Unit 1	March 31, 2014 (ML14090A143)
Pilgrim Nuclear Power Station, Unit No. 1	March 31, 2014 (ML14092A023)
Point Beach Nuclear Plant, Units 1 and 2	March 31, 2014 (ML14090A275)
Prairie Island Nuclear Generating Plant, Units 1 and 2	March 27, 2014 (ML14086A628)
Quad Cities Nuclear Power Station, Units 1 and 2	March 31, 2014 (ML14090A526)
River Bend Station	March 26, 2014 (ML14091A426)
H. B Robinson Steam Electric Plant, Unit No. 2	March 31, 2014 (ML14099A204)
St. Lucie Plant, Units 1 and 2	March 31, 2014 (ML14099A106)
Salem Nuclear Generating Station, Units 1 and 2	March 31, 2014 (ML14090A043)
Seabrook, Unit 1	March 27, 2014 (ML14092A413)
Sequoyah Nuclear Plant, Units 1 and 2	March 31, 2014 (ML14098A478)
South Texas Project, Units 1 and 2	March 31, 2014 (ML14099A235)
Surry Power Station, Unit Nos. 1 and 2	March 31, 2014 (ML14092A414)
Susquehanna Steam Electric Station, Units 1 and 2	March 26, 2014 (ML14086A163)
Three Mile Island Nuclear Station, Unit 1	March 31, 2014 (ML14090A271)
Turkey Point, Units 3 and 4	March 27, 2014 (ML14106A032)
Virgil C. Summer Nuclear Station, Unit 1	March 26, 2014 (ML14092A250)
Vermont Yankee Nuclear Power Station	March 12, 2014 (ML14079A025)
Vogtle Electric Generating Plant, Units 1 and 2	March 31, 2014 (ML14092A019)
Waterford Steam Electric Station, Unit 3	March 27, 2014 (ML14086A427)
Watts Bar Nuclear Plant, Units 1 and 2	March 31, 2014 (ML14098A478)
Wolf Creek Generating Station, Unit 1	March 31, 2014 (ML14097A020)

LIST OF APPLICABLE POWER REACTOR LICENSEES AND HOLDERS OF
CONSTRUCTION PERMITS IN ACTIVE OR DEFERRED STATUS

Arkansas Nuclear One

Entergy Operations, Inc.
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6

Vice President, Operations
Arkansas Nuclear One
Entergy Operations, Inc.
1448 S.R. 333
Russellville, AR 72802

Beaver Valley Power Station

First Energy Nuclear Operating Co.
Docket Nos. 50-334 and 50-412
License Nos. DPR-66 and NPF-73

Mr. Eric A. Larson
Site Vice President
Beaver Valley Power Station
P.O. Box 4, Route 168
Shippingport, PA 15077

Bellefonte Nuclear Plant

Tennessee Valley Authority
Docket Nos. 50-438 and 50-439
Construction Permit Nos. CPPR
No. 122 and CPPR No. 123

Mr. Michael D. Skaggs
Senior Vice President, Nuclear Construction
Tennessee Valley Authority
Lookout Place 6A
1101 Market Street
Chattanooga, TN 37402-2801

Braidwood Station

Exelon Generation Co., LLC
Docket Nos. STN 50-456 and STN 50-457
License Nos. NPF-72 and NPF-77

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Browns Ferry Nuclear Plant

Tennessee Valley Authority
Docket Nos. 50-259, 50-260 and 50-296
License Nos. DPR-33, DPR-52 and DPR-68

Mr. Joseph W. Shea
Vice President, Nuclear Licensing
Tennessee Valley Authority
1101 Market Street, LP 3D-C
Chattanooga, TN 37402-2801

Brunswick Steam Electric Plant

Duke Energy Progress, Inc.
Docket Nos. 50-325 and 50-324
License Nos. DPR-71 and DPR-62

George T. Hammrick, Vice President
Brunswick Steam Electric Plant
P.O. Box 10429
Southport, NC 28461

Byron Station

Exelon Generation Co., LLC
Docket Nos. STN 50-454 and STN 50-455
License Nos. NPF-37 and NPF-66

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

Callaway Plant

Union Electric Company
Docket No. 50-483
License No. NPF-30

Mr. Fadi Diya
Senior Vice President and
Chief Nuclear Officer
Ameren Missouri
Callaway Plant
P.O. Box 620
Fulton, MO 65251

Calvert Cliffs Nuclear Power Plant
Calvert Cliffs Nuclear Power Plant, LLC
Docket Nos. 50-317 and 50-318
License Nos. DPR-53 and DPR-69

Mr. George H. Gellrich, Vice President
Calvert Cliffs Nuclear Power Plant, LLC.
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

Catawba Nuclear Station

Duke Energy Carolinas, LLC
Docket Nos. 50-413 and 50-414
License Nos. NPF-35 and NPF-52

Mr. Kelvin Henderson
Site Vice President
Duke Energy Carolinas, LLC
Catawba Nuclear Station
4800 Concord Road
York, SC 29745

Clinton Power Station

Exelon Generation Co., LLC
Docket No. 50-461
License No. NPF-62

Mr. Michael J. Pacilio
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Comanche Peak Nuclear Power Plant

Luminant Generation Co., LLC
Docket Nos. 50-445 and 50-446
License Nos. NPF-87 and NPF-89

Mr. Rafael Flores
Senior Vice President and
Chief Nuclear Officer
Attention: Regulatory Affairs
Luminant Generation Company, LLC
P.O. Box 1002
Glen Rose, TX 76043

Cooper Nuclear Station

Nebraska Public Power District
Docket No. 50-298
License No. DPR-46

Mr. Oscar A. Limpas
Vice President Nuclear and
Chief Nuclear Officer
Nebraska Public Power District
72676 648A Avenue
P.O. Box 98
Brownville, NE 68321

Davis-Besse Nuclear Power Station

First Energy Nuclear Operating Co.
Docket No. 50-346
License No. NPF-3

Mr. Raymond A. Lieb
Site Vice President
FirstEnergy Nuclear Operating Company
c/o Davis-Besse NPS
5501 N. State Route 2
Oak Harbor, OH 43449-9760

Donald C. Cook Nuclear Plant
Indiana Michigan Power Company
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74

Mr. Lawrence J. Weber
Senior Vice President and Chief
Nuclear Officer
Indiana Michigan Power Company
Nuclear Generation Group
One Cook Place
Bridgman, MI 49106

Dresden Nuclear Power Station
Exelon Generation Company
Docket Nos. 50-237 and 50-249
License Nos. DPR-19 and DPR-25

Mr. Michael J. Pacilio
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Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

Duane Arnold Energy Center
NextEra Energy Duane Arnold, LLC
Docket No. 50-331
License No. DPR-49

Mr. Rich Anderson
Site Vice President
NextEra Energy
Duane Arnold Energy Center
3277 DAEC Road
Palo, IA 52324-9785

Edwin I. Hatch Nuclear Plant
Southern Nuclear Operating Co.
Docket Nos. 50-321 and 50-366
License Nos. DPR-57 and NPF-5

Mr. C.R. Pierce
Regulatory Affairs Director
Southern Nuclear Operating Company, Inc.
P.O. Box 1295/BIN B038
Birmingham, AL 35201-1295

Fermi
DTE Electric Company
Docket No. 50-341
License No. NPF-43

Mr. Joseph H. Plona
Senior Vice President and Chief
Nuclear Officer
DTE Electric Company
Fermi 2 – 210 NOC
6400 North Dixie Highway
Newport, MI 48166

Fort Calhoun Station
Omaha Public Power District
Docket No. 50-285
License No. DPR-40

Mr. Louis Cortopassi
Site Vice President and Chief
Nuclear Officer
Omaha Public Power District
Fort Calhoun Station
Mail Stop FC-2-4
9610 Power Lane
Blair, NE 68008

Grand Gulf Nuclear Station
Entergy Operations, Inc.
Docket No. 50-416
License No. NPF-29

Vice President, Operations
Entergy Operations, Inc.
Grand Gulf Nuclear Station
P.O. Box 756
Port Gibson, MS 39150

H. B. Robinson Steam Electric Plant
Duke Energy Progress, Inc.
Docket No. 50-261
License No. DPR-23

Mr. William R. Gideon, Vice President
H.B. Robinson Steam Electric Plant
3581 West Entrance Road
Hartsville, SC 29550

Hope Creek Generating Station

PSEG Nuclear, LLC
Docket No. 50-354
License No. NPF-57

Mr. Thomas Joyce
President and Chief Nuclear Officer
PSEG Nuclear LLC - N09
P.O. Box 236
Hancocks Bridge, NJ 08038

Indian Point Energy Nuclear Generating

Entergy Nuclear Operations, Inc.
Docket Nos. 50-247 and 50-286
License Nos. DPR-26 and DPR-64

Vice President, Operations
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
450 Broadway, GSB
P.O. Box 249
Buchanan, NY 10511-0249

James A. FitzPatrick Nuclear Power Plant

Entergy Nuclear Operations, Inc.
Docket No. 50-333
License No. DPR-59

Mr. Chris Adner, Licensing Manager
Entergy Nuclear Operations, Inc.
James A. FitzPatrick Nuclear Power Plant
P.O. Box 110
Lycoming, NY 13093

Joseph M. Farley Nuclear Plant

Southern Nuclear Operating Co.
Docket Nos. 50-348 and 50-364
License Nos. NPF-2 and NPF-8

Mr. C.R. Pierce
Regulatory Affairs Director
Southern Nuclear Operating Co., Inc.
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Birmingham, AL 35201-1295

LaSalle County Station

Exelon Generation Company
Docket Nos. 50-373 and 50-374
License Nos. NPF-11 and NPF-18

Mr. Michael J. Pacilio
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Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

Limerick Generating Station

Exelon Generation Co., LLC
Docket Nos. 50-352 and 50-353
License Nos. NPF-39 and NPF-85

Mr. Michael J. Pacilio
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Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

Millstone Nuclear Power Station

Dominion Nuclear Connecticut, Inc.
Docket Nos. 50-336 and 50-423
License Nos. DPR-65 and NPF-49

Mr. David A. Heacock
President and Chief Nuclear Officer
Dominion Nuclear Connecticut, Inc.
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

Monticello Nuclear Generating Plant

Northern States Power Company - Minnesota
Docket No. 50-263
License No. DPR-22

Mrs. Karen D. Feli
Site Vice President
Northern States Power Company - Minnesota
Monticello Nuclear Generating Plant
2807 West County Road 75
Monticello, MN 55362-9637

Nine Mile Point Nuclear Station
Nine Mile Point Nuclear Station, LLC
Docket No. 50-220
License No. DPR-63

Mr. Christopher Costanzo
Vice President Nine Mile Point
Nine Mile Point Nuclear Station, LLC
P. O. Box 63
Lycoming, New York 13093

North Anna Power Station
Virginia Electric & Power Co.
Docket Nos. 50-338 and 50-339
License Nos. NPF-4 and NPF-7

Mr. David A. Heacock
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Virginia Electric & Power Co.
Innsbrook Technical Center
5000 Dominion Boulevard
Glen Allen, VA 23060-6711

Oconee Nuclear Station
Duke Energy Carolinas, LLC
Docket Nos. 50-269, 50-270 and 50-287
License Nos. DPR-38, DPR-47 and DPR-55

Mr. Scott Batson
Vice President, Oconee Nuclear Station
Duke Energy Carolinas, LLC
7800 Rochester Highway
Seneca, SC 29672

Oyster Creek Nuclear Generating Station
Exelon Generation Co., LLC
Docket No. 50-219
License No. DPR-16

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

Palisades Nuclear Plant
Entergy Nuclear Operations, Inc.
Docket No. 50-255
License No. DPR-20

Vice President, Operations
Entergy Nuclear Operations, Inc.
Palisades Nuclear Plant
27780 Blue Star Memorial Highway
Covert, MI 49043

Peach Bottom Atomic Power Station
Exelon Generation Co, LLC
Docket Nos. 50-277 and 50-278
License Nos. DPR-44 and DPR-56

Mr. Michael J. Pacilio
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Exelon Nuclear
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Perry Nuclear Power Plant
FirstEnergy Nuclear Operating Co.
Docket No. 50-440
License No. NPF-58

Mr. Ernest J. Harkness
Site Vice President - Nuclear - Perry
FirstEnergy Nuclear Operating Company
Perry Nuclear Power Plant
PO Box 97, A290
Perry, OH 44081

Pilgrim Nuclear Power Station Unit No. 1
Entergy Nuclear Operations, Inc.
Docket No. 50-293
License No. DPR-35

Mr. John Dent, Jr.
Vice President and Site Vice President
Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360-5508

Point Beach Nuclear Plant
NextEra Energy Point Beach, LLC
Docket Nos. 50-266 and 50-301
License Nos. DPR-24 and DPR-27

Mr. Eric McCartney
Site Vice President
NextEra Energy Point Beach, LLC
6610 Nuclear Road
Two Rivers, WI 54241-9516

Prairie Island Nuclear Generating Plant
Northern States Power Co. -Minnesota
Docket Nos. 50-282 and 50-306
License Nos. DPR-42 and DPR-60

Mr. Kevin K. Davison
Site Vice President
Northern States Power Company -
Minnesota
Prairie Island Nuclear Generating Plant
1717 Wakonade Drive East
Welch, MN 55089-9642

Quad Cities Nuclear Power Station
Exelon Generation Company
Docket Nos. 50-254 and 50-265
License Nos. DPR-29 and DPR-30

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Exelon Nuclear
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Warrenville, IL 60555

R.E. Ginna Nuclear Power Plant
R.E. Ginna Power Plant, LLC
Docket No. 50-244
License No. DPR-18

Mr. Joseph E. Pacher
Vice President
R. E. Ginna Nuclear Power Plant
R. E. Ginna Nuclear Power Plant, LLC
1503 Lake Road
Ontario, NY 14519

River Bend Station
Entergy Operations, Inc.
Docket No. 50-458
License No. NPF-47

Vice President, Operations
Entergy Operations, Inc.
River Bend Station
5485 U.S. Highway 61N
St. Francisville, LA 70775

Salem Nuclear Generating Station
PSEG Nuclear, LLC.
Docket Nos. 50-272 & 50-311
License Nos. DPR-70 and DPR-75

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PSEG Nuclear LLC - N09
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Hancocks Bridge, NJ 08038

Seabrook Nuclear Plant
NextEra Energy Seabrook, LLC
Docket No 50-443
License No. NFP-86

Mr. Kevin Walsh
Vice President, Seabrook Nuclear Plant
c/o Mr. Michael O'Keefe
NextEra Energy Seabrook, LLC
P.O. Box 300
Seabrook, NH 03874

Sequoyah Nuclear Plant
Tennessee Valley Authority
Docket Nos. 50-327 and 50-328
License Nos. DPR-77 and DPR-79

Mr. Joseph W. Shea
Vice President, Nuclear Licensing
Tennessee Valley Authority
1101 Market Street LP 3D-C
Chattanooga, TN 37402

Shearon Harris Nuclear Power Plant
Duke Energy Progress, Inc.
Docket No. 50-400
License No. NPF-63

Mr. Ernest J. Kapopoulos, Jr.
Vice President
Shearon Harris Nuclear Power Plant
5413 Shearon Harris Rd
New Hill, NC 27562-0165

South Texas Project
STP Nuclear Operating Company
Docket Nos. 50-498 and 50-499
License Nos. NPF-76 and NPF-80

Mr. Dennis L. Koehl
President and CEO/CNO
STP Nuclear Operating Company
South Texas Project Electric Generating
Station
P.O. Box 289
Wadsworth, TX 77483

St. Lucie Plant
Florida Power and Light Company
Docket Nos. 50-335 and 50-389
License Nos. DPR-67 and NPF-16

Mr. Mano Nazar
Executive Vice President
and Chief Nuclear Officer
NextEra Energy
P. O. Box 14000
700 Universe Boulevard
Juno Beach, FL 33408-0420

Surry Power Station
Virginia Electric & Power Company
Docket Nos. 50-280 and 50-281
License Nos. DPR-32 and DPR-37

Mr. David A. Heacock
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Virginia Electric & Power Company
5000 Dominion Blvd.
Glen Allen, VA 23060

Susquehanna Steam Electric Station
PPL Susquehanna, LLC
Docket Nos. 50-387 and 50-388
License Nos. NPF-14 and NPF-22

Mr. Timothy S. Rausch
Senior Vice President and Chief Nuclear Officer
PPL Susquehanna, LLC
769 Salem Boulevard
NUCSB3
Berwick, PA 18603-0467

Three Mile Island Nuclear Station
Exelon Generation Company, LLC.
Docket No. 50-289
License No.

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Warrenville, IL 60555

Turkey Point Nuclear Generating Station
Florida Power & Light Company
Docket Nos. 50-250 & 50-251
License Nos. DPR-031 and DPR-41

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and Chief Nuclear Officer
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Juno Beach, FL 33408-0420

Vermont Yankee Nuclear Power Station
Entergy Nuclear Operations
Docket No. 50-271
License No. DPR-28

Vice President, Operations
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Vermont Yankee Nuclear Power Station
P.O. Box 250
Governor Hunt Road
Vernon, VT 05354

Virgil C. Summer Nuclear Station
South Carolina Electric & Gas Company
Docket No. 50-395
License No. NPF-12

Mr. Thomas D. Gatlin, Vice President
Nuclear Operations
South Carolina Electric & Gas Company
Virgil C. Summer Nuclear Station
Post Office Box 88, Mail Code 800
Jenkinsville, SC 29065

Vogtle Electric Generating Plant
Southern Nuclear Operating Company, Inc.
Docket Nos. 50-424 & 50-425
License Nos. NPF-68 and NPF-81

Mr. C. R. Pierce
Regulatory Affairs Director
Southern Nuclear Operating Co., Inc.
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Birmingham, AL 35201-1295

Waterford Steam Electric Station
Entergy Operations, Inc.
Docket No. 50-382
License No. NPF-38

Vice President, Operations
Entergy Operations, Inc.
Waterford Steam Electric Station, Unit 3
17265 River Road
Killona, LA 70057-0751

Watts Bar Nuclear Plant
Tennessee Valley Authority
Docket Nos. 50-390 & 50-391
License Nos. NPF-90

Mr. Joseph W. Shea
Vice President, Nuclear Licensing
Tennessee Valley Authority
1101 Market Street, LP 3D-C
Chattanooga, TN 37402-2801

William B. McGuire Nuclear Station
Duke Energy Carolinas, LLC
Docket Nos. 50-369 and 50-370
License Nos. NPF-9 and NPF-17

Steven D. Capps
Duke Energy Carolinas, LLC
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

Wolf Creek Generating Station
Wolf Creek Nuclear Operating Corporation
Docket No. 50-482
License No. NPF-42

Mr. Adam C. Heflin
President, Chief Executive Officer, and
Chief Nuclear Officer
Wolf Creek Nuclear Operating
Corporation
P.O. Box 411
Burlington, KS 66839

with stakeholders in the near future as part of the development of any revised guidance documents. Given the generic nature of the limited-scope evaluations, it is expected that these evaluations will be completed for plants within the next two years.

This letter transmits the NRC staff's results of the seismic hazard submittals for the purposes of screening and prioritizing the plants. It does not convey the staff's final determination regarding the adequacy of any plant's calculated hazard. As such, the NRC staff will continue its review of the submitted seismic hazard re-evaluations, and may request additional plant-specific information to support this review. The staff has placed a high priority on this review for the early identification of issues that might adversely affect each licensee's seismic risk evaluations. Initial interactions with licensees will occur as soon as practicable. The NRC staff plans to issue a staff assessment on the re-evaluated seismic hazard once each review is completed in approximately 12 to 18 months.

If you have any questions on this matter, please contact your NRC licensing Project Manager.

Sincerely,

/RA by Jennifer Uhle for/

Eric J. Leeds, Director
Office of Nuclear Reactor Regulation

Enclosures:

1. Glossary of Evaluations
2. Screening and Prioritization Results
3. List of Licensee March 2014 Re-evaluated Seismic Hazard Submittals
4. List of Addressees

Distribution: See next page

ADAMS Accession No.: ML14111A147

* Via E-mail

OFFICE	NRR/JLD/PMB/PM	NRR/JLD/LA	NRR/JLD/PMB/BC	NRO/DSEA/RGS2/BC	NRR/JLD/D
NAME	NDiFrancesco	SLent	MMitchell	DJackson	DSkeen
DATE	04/22/2014	04/22/2014	04/30/2014	05/05/2014	05/06/2014
OFFICE	NRO/DSEA/D	OGC	NRR/DORL/D	NRR/ D	
NAME	SFlanders	EWilliamson	MEvans	ELeeds (JUhle for)	
DATE	05/06/2014	05/02/2014	05/06/2014	05/9/2014	

OFFICIAL RECORD COPY

Letter to All Power Reactor Licensees and Holders of Construction Permits in Active or Deferred Status from Eric J. Leeds dated May 9, 2014.

SUBJECT: SCREENING AND PRIORITIZATION RESULTS OF REQUEST FOR INFORMATION PURSUANT TO TITLE 10 OF THE *CODE OF FEDERAL REGULATIONS* 50.54(f) REGARDING SEISMIC HAZARD RE-EVALUATIONS FOR RECOMMENDATION 2.1 OF THE NEAR-TERM TASK FORCE REVIEW OF INSIGHTS FROM THE FUKUSHIMA DAI-ICHI ACCIDENT

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RidsNrrLAKGoldstein

RidsNrrLASRohrer

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RidsNrrPMBrunswick

RidsNrrPMBByron

RidsNrrPMCalloway

RidsNrrPMCalvertCliffs

RidsNrrPMCatawba

RidsNrrPMClinton

RidsNrrPMComanchePeak

RidsNrrPMCooper

RidsNrrPMDCCook

RidsNrrPMDavisBesse

RidsNrrPMDresden

RidsNrrPMDuaneArnold

RidsNrrPMFarley

RidsNrrPMFermi2

RidsNrrPMFitzPatrick

RidsNrrPMFortCalhoun

RidsNrrPMGrandGulf

RidsNrrPMHatch

RidsNrrPMHopeCreek

RidsNrrPMIndianPoint

RidsNrrPMLaSalle

RidsNrrPMLimerick

RidsNrrPMMcGuire

RidsNrrPMMillstone

RidsNrrPMMonticello

RidsNrrPMNineMile

RidsNrrPMNorthAnna

RidsNrrPMOconee

RidsNrrPMOysterCreek

RidsNrrPMPalisades

RidsNrrPMPeachBottom

RidsNrrPMPerry

RidsNrrPMPilgrim

RidsNrrPMPPointBeach

RidsNrrPMPrairieIsland

RidsNrrPMQuadCities

RidsNrrPMREGinna

RidsNrrPMRiverBend

RidsNrrPMRobinson

RidsNrrPMSalem

RidsNrrPMSeabrook

RidsNrrPMSequoyah

RidsNrrPMShearonHarris

RidsNrrPMSouthTexas

RidsNrrPMStLucie

RidsNrrPMSummer

RidsNrrPMSurry

RidsNrrPMSusquehanna

RidsNrrPMTThreeMileIsland

RidsNrrPMTurkeyPoint

RidsNrrPMVermontYankee

RidsNrrPMVogtle

RidsNrrPMWaterford

RidsNrrPMWattsBar1

RidsNrrPMWattsBar2

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