



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

February 20, 2014

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

SUBJECT: SUPPLEMENTAL INFORMATION RELATED TO REQUEST FOR  
INFORMATION PURSUANT TO TITLE 10 OF THE *CODE OF FEDERAL  
REGULATIONS* 50.54(f) REGARDING SEISMIC HAZARD REEVALUATIONS  
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). The purpose of that request was to gather information concerning, in part, the seismic and flooding hazards at operating reactor sites to enable the NRC staff to determine whether your license should be modified, suspended, or revoked. The "Required Response" section of Enclosure 1 indicated that licensees 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.<sup>1</sup>

Licensees whose plant's current seismic design basis does not bound the reevaluated seismic hazard are screened in for further evaluation. For these plants, licensees are expected to submit an interim evaluation or interim actions taken or planned to address the reevaluated hazard where it exceeds the current design basis along with the Seismic Hazard Evaluation and Screening report by March 31, 2014. Additionally, all licensees with CEUS plants that screen in for further evaluation will also conduct an assessment (i.e., expedited approach) to identify certain plant safety enhancements that can be implemented by 2016. Subsequently, licensees with plants that screen in for further evaluation are requested to submit a seismic risk evaluation to assess the total plant response to the reevaluated hazard.

All licensees have 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,"<sup>2</sup> as supplemented by the EPRI Report, "Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic"<sup>3</sup> (referred to as the Expedited Approach). The NRC staff will treat the licensees that depart from the previously committed to and endorsed guidance for responding to the 50.54(f) letter as

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<sup>1</sup> The May 7, 2013, endorsement letter is available in the Agencywide Document Access and Management System (ADAMS) under Accession No. ML13106A331.

<sup>2</sup> 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.

<sup>3</sup> The Expedited Approach guidance document is found in ADAMS under Accession No. ML13102A142.

screening into the next phase of expedited approach. Licensees are reminded that the expedited evaluations are to be completed by December 2014 for the CEUS plants.

During the course of stakeholder interactions regarding the hazard reevaluations, various questions were raised with respect to operability and reportability of systems, structures, and components (SSC) if the reevaluated seismic hazard is not bounded by the current seismic design basis. Similar issues were discussed in a February 11, 2013, public meeting concerning the flooding hazard reevaluations.<sup>4</sup> As a result, the staff issued a letter dated March 1, 2013,<sup>5</sup> providing the NRC staff's position and expectations for your assessment of new information resulting from the flooding hazard reevaluations. The purpose of this letter is to provide you with the NRC staff's position and expectations for your assessment of new information resulting from the seismic hazard reevaluations.

#### Operability and Reportability

The staff considers the seismic hazard reevaluations being performed pursuant to the 50.54(f) letter to be distinct from the current design or licensing basis of operating plants. Consequently, the results of the analysis performed using present-day regulatory guidance, methodologies, and information would not generally be expected to call into question the operability or functionality of SSCs. Therefore, the results are not expected to be reportable pursuant to 10 CFR 50.72, "Immediate notification requirements for operating nuclear power reactors," and 10 CFR 50.73, "Licensee event report system."

However, as with any new information that may arise at a plant, licensees are responsible for evaluating and making determinations related to operability, and any associated reportability, on a case-by-case basis. Licensees should consider and disposition the information through their corrective action program or equivalent process. If an error is identified in the current design or licensing basis during the performance of the requested seismic hazard evaluation, the staff expects that licensees would assess the operability of the affected SSC. Additionally, licensees would need to determine if the situation is reportable pursuant to 10 CFR 50.72 and 50.73. Licensees would also be expected to determine whether aspects of 10 CFR 50.9, concerning the requirement to provide complete and accurate information to the NRC, would be applicable.

Notwithstanding the preceding discussion, and as noted in the 50.54(f) letter, based upon the results of the review of the responses and other available information, the staff may impose additional requirements to protect against the reevaluated seismic hazard. As always, the safety of the operating plants is of paramount importance. The NRC staff will follow established regulatory processes, including the backfit rule, in determining whether additional requirements are warranted.

#### Interim Actions (Requested Information, Item (6))

Consistent with the 10 CFR 50.54(f) letter dated March 12, 2012, licensees are expected to provide, as part of the Seismic Hazard Evaluation and Screening report, an interim evaluation or interim actions taken or planned to address the reevaluated hazard (where it is not bounded by the current design basis). Licensees should describe the interim evaluations and actions in sufficient detail to demonstrate that the proposed actions are commensurate with the hazard

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<sup>4</sup> The February 11, 2013, meeting summary is available in ADAMS under Accession No. ML13045B074.

<sup>5</sup> The March 1, 2013 letter is available in ADAMS under Accession No. ML13044A561.

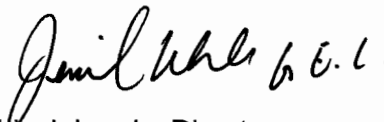
and will allow the NRC staff to assess their acceptability. The NRC staff will consider the appropriateness of the interim evaluations or actions in the context of a licensee's ability to demonstrate the seismic safety of the plant.

The staff has determined that the Expedited Approach provides an important demonstration of seismic margin and will result in plant safety enhancements through evaluations and potential modifications of certain core and containment cooling equipment in advance of completing the more comprehensive plant seismic risk evaluations.

Although plant safety enhancements resulting from the Expedited Approach will generally<sup>6</sup> be implemented by December 2016 for CEUS plants and June 2018 for WUS plants, licensees should not solely rely on the Expedited Approach as their interim actions. Instead, licensees should provide, with the March 31, 2014, screening report, an interim evaluation or actions as described above to demonstrate that the plant can cope with the reevaluated hazard while the expedited approach and risk evaluations are conducted.

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

Sincerely,

Handwritten signature of Eric J. Leeds in black ink.

Eric J. Leeds, Director  
Office of Nuclear Reactor Regulation

Enclosure:  
List of Addressees

cc: Listserv

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<sup>6</sup> The time to complete modifications resulting from the expedited approach could extend beyond 2016 for some CEUS plants, if a plant outage is required to access the equipment.

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  
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Warrenville, IL 60555

Enclosure

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  
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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  
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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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Columbia Generating Station

Energy Northwest  
Docket No. 50-397  
License No. NPF-21

Mr. Mark E. Reddemann  
Chief Executive Officer  
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Richland, WA 99352

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  
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Glen Rose, TX 76043

Cooper Nuclear Station

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

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Chief Nuclear Officer  
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Davis-Besse Nuclear Power Station  
First Energy Nuclear Operating Co.  
Docket No. 50-346  
License No. NPF-3

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FirstEnergy Nuclear Operating Company  
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Diablo Canyon Power Plant  
Pacific Gas & Electric Co.  
Docket Nos. 50-275 and 50-323  
License Nos. DPR-80 and DPR-82

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Chief Nuclear Officer  
Pacific Gas and Electric Company  
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Mail Code 104/6  
Avila Beach, CA 93424

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

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

Mr. Rich Anderson  
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Duane Arnold Energy Center  
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Edwin I. Hatch Nuclear Plant  
Southern Nuclear Operating Co.  
Docket Nos. 50-321 and 50-366  
License Nos. DPR-57 and NPF-5

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Regulatory Affairs Director  
Southern Nuclear Operating Company, Inc.  
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DTE Electric Company  
Docket No. 50-341  
License No. NPF-43

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

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Omaha Public Power District  
Fort Calhoun Station  
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Grand Gulf Nuclear Station  
Entergy Operations, Inc.  
Docket No. 50-416  
License No. NPF-29

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

Mr. William R. Gideon  
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Hope Creek Generating Station  
PSEG Nuclear, LLC  
Docket No. 50-354  
License No. NPF-57

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PSEG Nuclear LLC - N09  
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Indian Point Energy Center  
Entergy Nuclear Operations, Inc.  
Docket Nos. 50-247 and 50-286  
License Nos. DPR-26 and DPR-64

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James A. FitzPatrick Nuclear Power Plant  
Entergy Nuclear Operations, Inc.  
Docket No. 50-333  
License No. DPR-59

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

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Regulatory Affairs Director  
Southern Nuclear Operating Co., Inc.  
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LaSalle County Station  
Exelon Generation Company  
Docket Nos. 50-373 and 50-374  
License Nos. NPF-11 and NPF-18

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Limerick Generating Station

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

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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  
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Dominion Nuclear Connecticut, Inc.  
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Monticello Nuclear Generating Plant

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

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Northern States Power Company -  
Minnesota  
Monticello Nuclear Generating Plant  
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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  
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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  
President and Chief Nuclear Officer  
Virginia Electric & Power Co.  
Innsbrook Technical Center  
5000 Dominion Boulevard  
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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  
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Oyster Creek Nuclear Generating Station

Exelon Generation Co., LLC  
Docket No. 50-219  
License No. DPR-16

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Palisades Nuclear Plant

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

Vice President, Operations  
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Palo Verde Nuclear Generating Station

Arizona Public Service Company  
Docket Nos. STN 50-528, STN 50-529 and  
STN 50-530  
License Nos. NPF-41, NPF-51 and NPF-74

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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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Perry Nuclear Power Plant

FirstEnergy Nuclear Operating Co.  
Docket No. 50-440  
License No. NPF-58

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Pilgrim Nuclear Power Station Unit No. 1

Entergy Nuclear Operations, Inc.  
Docket No. 50-293  
License No. DPR-35

Mr. John Dent, Jr.  
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Entergy Nuclear Operations, Inc.  
Pilgrim Nuclear Power Station  
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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  
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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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R.E. Ginna Nuclear Power Plant

R.E. Ginna Power Plant, LLC  
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License No. DPR-18

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River Bend Station

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

Vice President, Operations  
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Salem Nuclear Generating Station

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

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President and Chief Nuclear Officer  
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Seabrook Nuclear Plant

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

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Vice President, Seabrook Nuclear Plant  
c/o Mr. Michael O'Keefe  
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Sequoyah Nuclear Plant

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

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Shearon Harris Nuclear Power Plant

Duke Energy Progress, Inc.  
Docket No. 50-400  
License No.

Mr. Ernest J. Kapopoulos, Jr.  
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South Texas Project

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

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St. Lucie Plant

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

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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  
President and Chief Nuclear Officer,  
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Susquehanna Steam Electric Station

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

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Three Mile Island Nuclear Station

Exelon Generation Company, LLC.  
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Mr. Michael J. Pacilio  
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Turkey Point Nuclear Generating Station

Florida Power & Light Company  
Docket Nos. 50-250 & 50-251  
License Nos. DPR-031 and DPR-41

Mr. Mano Nazar  
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Vermont Yankee Nuclear Power Station

Entergy Nuclear Operations  
Docket No. 50-271  
License No. DPR-28

Vice President, Operations  
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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

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Regulatory Affairs Director  
Southern Nuclear Operating Co., Inc.  
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Waterford Steam Electric Station

Entergy Operations, Inc.  
Docket No. 50-382  
License No. NPF-38

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Watts Bar Nuclear Plant

Tennessee Valley Authority  
Docket Nos. 50-390 & 50-391  
License Nos. NPF-90

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William B. McGuire Nuclear Station

Duke Energy Carolinas, LLC  
Docket Nos. 50-369 and 50-370  
License Nos. NPF-9 and NPF-17

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Wolf Creek Generating Station

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

Mr. Matthew W. Sunseri  
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and will allow the NRC staff to assess their acceptability. The NRC staff will consider the appropriateness of the interim evaluations or actions in the context of a licensee's ability to demonstrate the seismic safety of the plant.

The staff has determined that the Expedited Approach provides an important demonstration of seismic margin and will result in plant safety enhancements through evaluations and potential modifications of certain core and containment cooling equipment in advance of completing the more comprehensive plant seismic risk evaluations.

Although plant safety enhancements resulting from the Expedited Approach will generally<sup>6</sup> be implemented by December 2016 for CEUS plants and June 2018 for WUS plants, licensees should not solely rely on the Expedited Approach as their interim actions. Instead, licensees should provide, with the March 31, 2014, screening report, an interim evaluation or actions as described above to demonstrate that the plant can cope with the reevaluated hazard while the expedited approach and risk evaluations are conducted.

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

Sincerely,

**JUhle for**

Eric J. Leeds, Director  
Office of Nuclear Reactor Regulation

Enclosure:  
List of Addressees

cc: Listserv

DISTRIBUTION:  
See next page

**ADAMS Accession No.:** ML14030A046

\*via e-mail

OFFICE	NRR/JLD/PMB/PM	NRR/JLD/LA *	NRR/JLD/PMB/BC *
NAME	NDiFrancesco	SLent	MMitchell
DATE	1/ 31 /2014	1/ 31 /2014	2/ 6 /2014
OFFICE	NRO/DSEA/RGS2/BC *	OGC *	NRR/JLD/D *
NAME	DJackson	BHarris (NLO)	DSkeen (RTaylor for)
DATE	2/ 19 /2014	2/ 4 /2014	2/ 19 /2014
OFFICE	NRO/DSEA/D *	NRR/DIRS/D *	NRR/D
NAME	SFlanders (NChokshi for)	HNieh	ELeeds (JUhle for)
DATE	2/ 19 /2014	2/ 11 /2014	2/ 20 /2014

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<sup>6</sup> The time to complete modifications resulting from the expedited approach could extend beyond 2016 for some CEUS plants, if a plant outage is required to access the equipment.

Letter to All Power Reactor Licensees and Holders of Construction Permits in Active or Deferred Status from Eric J. Leeds dated February 20, 2014

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

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RidsNrrDorlLpl1-2	RidsNrrPMCallaway	RidsNrrPMREGinna
RidsNrrDorlLpl2-1	RidsNrrPMCalvertCliffs	RidsNrrPMRiverBend
RidsNrrDorlLpl2-2	RidsNrrPMCatawba	RidsNrrPMRobinson
RidsNrrDorlLpl3-1	RidsNrrPMClinton	RidsNrrPMSalem
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