



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, 2013.¹

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,"² as supplemented by the EPRI Report, "Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic"³ (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

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

² 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.

³ 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.⁴ As a result, the staff issued a letter dated March 1, 2013,⁵ 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

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

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

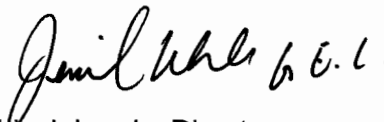
and will allow the NRC staff to assess their acceptability. The NRC staff will consider the appropriateness of the interim evaluations or actions in the context of a licensee's ability to demonstrate the seismic safety of the plant.

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 generally⁶ 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

⁶ 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

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Site Vice President
Beaver Valley Power Station
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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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Enclosure

Callaway Plant

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

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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

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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
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York, SC 29745

Clinton Power Station

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

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Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

Columbia Generating Station

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

Mr. Mark E. Reddemann
Chief Executive Officer
Energy Northwest
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North Power Plant Loop
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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
Nebraska Public Power District
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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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Oak Harbor, OH 43449-9760

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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Pacific Gas and Electric Company
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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
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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
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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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NextEra Energy
Duane Arnold Energy Center
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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

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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
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Blair, NE 68008

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

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Entergy Operations, Inc.
Grand Gulf Nuclear Station
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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
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H.B. Robinson Steam Electric Plant
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Hartsville, SC 29550

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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Entergy Nuclear Operations, Inc.
Indian Point Energy Center
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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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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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Exelon Nuclear
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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

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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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Nine Mile Point Nuclear Station

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

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Nine Mile Point Nuclear Station, LLC
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North Anna Power Station

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

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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

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Oyster Creek Nuclear Generating Station

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

Mr. Michael J. Pacilio
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Palisades Nuclear Plant

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

Vice President, Operations
Entergy Nuclear Operations, Inc.
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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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Phoenix, AZ 85072-2034

Peach Bottom Atomic Power Station

Exelon Generation Co, LLC
Docket Nos. 50-277 and 50-278
License Nos. DPR-44 and DPR-56

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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

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Point Beach Nuclear Plant

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

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Prairie Island Nuclear Generating Plant

Northern States Power Co. -Minnesota
Docket Nos. 50-282 and 50-306
License Nos. DPR-42 and DPR-60

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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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R. E. Ginna Nuclear Power Plant, LLC
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River Bend Station

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Docket No. 50-458
License No. NPF-47

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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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Seabrook Nuclear Plant

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

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c/o Mr. Michael O'Keefe
NextEra Energy Seabrook, LLC
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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

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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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Station
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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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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
President and Chief Nuclear Officer,
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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

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Senior Vice President and Chief Nuclear
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Three Mile Island Nuclear Station

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License No.

Mr. Michael J. Pacilio
President and Chief Nuclear Officer
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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

Mr. Mano Nazar
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Vermont Yankee Nuclear Power Station

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

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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
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Virgil C. Summer Nuclear Station
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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
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Southern Nuclear Operating Co., Inc.
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Waterford Steam Electric Station

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License No. NPF-38

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Watts Bar Nuclear Plant

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Docket Nos. 50-390 & 50-391
License Nos. NPF-90

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William B. McGuire Nuclear Station

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

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.

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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

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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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⁶ 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

DISTRIBUTION:

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LPL1-2 R/F	RidsNrrLASRohrer	RidsNrrPMOconee
LPL2-1 R/F	RidsNrrLaSLent	RidsNrrPMOysterCreek
LPL2-2 R/F	RidsNrrLAMHenderson	RidsNrrPMPalisades
LPL3-1 R/F	RidsNrrPMANO	RidsNrrPMPaloVerde
LPL3-2 R/F	RidsNrrPMBeaverValley	RidsNrrPM PeachBottom
LPL4-1 R/F	RidsNrrPMBellefonte	RidsNrrPMPerry
LPL4-2 R/F	RidsNrrPMBraidwood	RidsNrrPMPilgrim
RidsNroOd	RidsNrrPMBrownsFerry	RidsNrrPMPointBeach
RidsNrrDorl	RidsNrrPMBrunswick	RidsNrrPMPrairieIsland
RidsNrrDorlLpl1-1	RidsNrrPMByron	RidsNrrPMQuadCities
RidsNrrDorlLpl1-2	RidsNrrPMCallaway	RidsNrrPMREGinna
RidsNrrDorlLpl2-1	RidsNrrPMCalvertCliffs	RidsNrrPMRiverBend
RidsNrrDorlLpl2-2	RidsNrrPMCatawba	RidsNrrPMRobinson
RidsNrrDorlLpl3-1	RidsNrrPMClinton	RidsNrrPMSalem
RidsNrrDorlLpl3-2	RidsNrrPMColumbia	RidsNrrPMSeabrook
RidsNrrDorlLpl4-1	RidsNrrPMComanchePeak	RidsNrrPMSequoyah
RidsNrrDorlLpl4-2	RidsNrrPMCooper	RidsNrrPMShearonHarris
RidsNrrOd	RidsNrrPMDCCook	RidsNrrPMSouthTexas
RidsNsirOd	RidsNrrPMDavisBesse	RidsNrrPMStLucie
RidsOeMailCenter	RidsNrrPMDiabloCanyon	RidsNrrPMSummer
RidsOgcMailCenter	RidsNrrPMDresden	RidsNrrPMSurry
LRegner, NRR	RidsNrrPMDuaneArnold	RidsNrrPMSusquehanna
MKhanna, NRR	RidsNrrPMFarley	RidsNrrPMThreeMileIsland
RPascarelli, NRR	RidsNrrPMFermi2	RidsNrrPMTurkeyPoint
BBeasley, NRR	RidsNrrPMFitzPatrick	RidsNrrPMVermontYankee
JQuichocho, NRR	RidsNrrPMFortCalhoun	RidsNrrPMVogle
TTate, NRR	RidsNrrPMGrandGulf	RidsNrrPMWaterford
RCarlson, NRR	RidsNrrPMHatch	RidsNrrPMWattsBar1
MMarkley, NRR	RidsNrrPMHopeCreek	RidsNrrPMWattsBar2
DBroadus, NRR	RidsNrrPMIndianPoint	RidsNrrPMWolfCreek
NDiFrancesco, NRR	RidsNrrPMLaSalle	RidsOgcRp Resource
MJardaneh, NRO	RidsNrrPMLimerick	RidsRgn1MailCenter Resource
RidsNrrLAABaxter	RidsNrrPMMcGuire	RidsRgn2MailCenter Resource
RidsNrrLAJBurkhardt	RidsNrrPMMillstone	RidsRgn3MailCenter Resource
RidsNrrLABClayton	RidsNrrPMMonticello	RidsRgn4MailCenter Resource