

October 23, 2013

The Operating Power Reactors on  
Enclosed List

SUBJECT: RESPONSE REGARDING LICENSEE PHASE 1 STAFFING SUBMITTALS  
ASSOCIATED WITH NEAR-TERM TASK FORCE RECOMMENDATION 9.3  
RELATED TO THE FUKUSHIMA DAI-ICHI NUCLEAR POWER PLANT  
ACCIDENT

By letter dated March 12, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12053A340), the U.S. Nuclear Regulatory Commission (NRC) issued a request for information (RFI) pursuant to Section 50.54, paragraph (f), of Title 10 of the *Code of Federal Regulations* (10 CFR), regarding Recommendations 2.1 (seismic and flooding evaluations), 2.3 (seismic and flooding walkdowns), and 9.3 (emergency preparedness communication and staffing) of the Near-Term Task Force (NTTF) review of insights from the Fukushima Dai-ichi accident. With respect to Recommendation 9.3, Enclosure 5 to the NRC's letter requested licensees to assess their means to power communications equipment onsite and offsite during a prolonged station blackout (SBO) event and to perform a staffing assessment to determine the staff required to fill all necessary positions in response to a multi-unit event.

The RFI, in part, requested responses pursuant to the provisions of 10 CFR 50.54(f) pertaining to onsite and augmented staff availability to implement the strategies discussed in the emergency plan and/or plant operating procedures including new staff or functions resulting from the assessment including any identified collateral duties, an implementation schedule to perform the assessments including any identified modifications, and any changes that have been made or will be made to the emergency plan regarding on-shift or augmented staffing. In addition, NTTF Recommendation 9.3 has a dependency on the implementation of NTTF Recommendation 4.2 (mitigation strategies). As a result of this dependency, licensees are responding to the RFI in phases. Licensees evaluated their ability to respond to a multi-unit SBO event utilizing existing processes and procedures in their Phase 1 staffing assessments. All the licensee responses to the RFI for the Phase 1 staffing assessments were received by April 30, 2013.

In accordance with the NRC-endorsed guidance and assumptions of Nuclear Energy Institute (NEI 12-01) "Guideline for Assessing Beyond Design Basis Accident Response Staffing and Communications Capabilities," Sections 2.2, 2.3, and 3, the NRC staff reviewed your Phase 1 staffing assessment. You assessed your current onsite staffing levels to respond to an event following a beyond design basis large-scale natural event to identify any needed enhancements to ensure that the strategies contained in the existing emergency plan and/or plant operating procedures, such as a SBO, can be performed by the site staff. Your assessments assumed that a large-scale natural event causes: (1) all units on the site to be affected, (2) there is an extended loss of all alternating current (ac) power, and (3) access to the site is impeded for a minimum of six hours.

You conducted independent reviews and concluded, based on your staffing assessment, that the existing on-shift staff is sufficient to implement the existing loss of all ac power, multi-unit event response strategies, while supporting performance of the required emergency planning duties without unacceptable collateral duties.

The NRC staff reviewed your Phase 1 submittal and confirmed that the onsite minimum staff, as described in your emergency plan, is sufficient to support required plant actions and emergency plan functions, without the assignment of collateral duties that would impact the performance of assigned emergency plan functions. As a result, the NRC staff concludes that your Phase 1 staffing submittal adequately addresses the response strategies needed to respond to an event that results in a SBO using your plant's current procedures.

The NRC staff recognizes that licensees in coordination with the NTTF Recommendation 4.2 (mitigation strategies), will submit for NRC staff review a Phase 2 staffing assessment, which will provide an assessment of the staffing necessary to perform the functions related to the strategies developed in response to NTTF Recommendation 4.2.

Should you have any questions regarding this letter, please contact Brian K. Harris at (301) 415-2277.

Sincerely,

**/RA/**

Michele G. Evans, Director  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Enclosure:  
Operating Power Reactors

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You conducted independent reviews and concluded, based on your staffing assessment, that the existing on-shift staff is sufficient to implement the existing loss of all ac power, multi-unit event response strategies, while supporting performance of the required emergency planning duties without unacceptable collateral duties.

The NRC staff reviewed your Phase 1 submittal and confirmed that the onsite minimum staff, as described in your emergency plan, is sufficient to support required plant actions and emergency plan functions, without the assignment of collateral duties that would impact the performance of assigned emergency plan functions. As a result, the NRC staff concludes that your Phase 1 staffing submittal adequately addresses the response strategies needed to respond to an event that results in a SBO using your plant's current procedures.

The NRC staff recognizes that licensees in coordination with the NTTF Recommendation 4.2 (mitigation strategies), will submit for NRC staff review a Phase 2 staffing assessment, which will provide an assessment of the staffing necessary to perform the functions related to the strategies developed in response to NTTF Recommendation 4.2.

Should you have any questions regarding this letter, please contact Brian K. Harris at (301) 415-2277.

Sincerely,

**/RA/**

Michele G. Evans, Director  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

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| <b>NAME</b>   | BHarris     | SLent       | KWilliams          |
| <b>DATE</b>   | 08/30/13    | 08/30/13    | 09/5/13            |
| <b>OFFICE</b> | NRR/JLD/PMB | NRR/JLD/PMB | NRR/DORL           |
| <b>NAME</b>   | MMitchell   | BHarris     | MEvans             |
| <b>DATE</b>   | 09/24/13    | 09/24/13    | 10/23/13           |

**OFFICIAL RECORD COPY**

Letter from Michele G. Evans to Listed Operating Power Reactor Plants dated October 23, 2013

SUBJECT: RESPONSE REGARDING LICENSEE PHASE 1 STAFFING SUBMITTALS  
ASSOCIATED WITH NEAR-TERM TASK FORCE RECOMMENDATION 9.3  
RELATED TO THE FUKUSHIMA DAI-ICHI NUCLEAR POWER PLANT  
ACCIDENT

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| BHarris, NRR        |                        |                             |
| KWilliams, NSIR     |                        |                             |
| MMitchell, NRR      |                        |                             |

## Operating Power Reactors

### Beaver Valley Power Station

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

Mr. Eric A. Larson  
Site Vice President  
FirstEnergy Nuclear Operating Company  
P.O. Box 4, Route 168  
Shippingport, PA 15077

### 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 Nuclear  
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

Carolina Power & Light Co.  
Docket Nos. 50-325 and 50-324  
License Nos. DPR-71 and DPR-62

Mr. Michael J. Annacone  
Vice President  
Carolina Power & Light Company  
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 Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

### 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

Enclosure

Catawba Nuclear Station, Units 1&2  
Duke Energy Carolinas, LLC  
Docket Nos. 50-413 & 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

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  
Luminant Generation Company, LLC  
Attn: Regulatory Affairs  
P.O. Box 1002  
Glen Rose, TX 76043

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

Mr. Edward D. Halpin  
Senior Vice President and Chief Nuclear  
Officer  
Pacific Gas and Electric Company  
P.O. Box 56  
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  
Indiana Michigan Power Company  
Nuclear Generation Group  
One Cook Place  
Bridgman, MI 49106

Dresden Nuclear Power Station  
Exelon Generation Co., LLC  
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

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 Co., Inc.  
P.O. Box 1295/BIN B038  
Birmingham, AL 35201-1295

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

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 Co., LLC  
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  
4300 Winfield Road  
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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  
President and Chief Nuclear Officer  
Virginia Electric & Power Company  
Innsbrook Technical Center  
5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

Nine Mile Point Nuclear Station  
Nine Mile Point Nuclear Station, LLC  
Docket Nos. 50-220 and 50-410  
License Nos. DPR-63 and NPF-69

Mr. Christopher Costanzo  
Vice President Nine Mile Point  
Nine Mile Point Nuclear Station, LLC

P. O. Box 63  
Lycoming, NY 13093

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

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

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

Mr. Randall K. Edington  
Executive Vice President Nuclear and Chief  
Nuclear Officer  
Arizona Public Service Co.  
P.O. Box 52034, MS 7602  
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

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

Point Beach Nuclear Plant

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

Mr. Larry Meyer  
Site Vice President  
NextEra Energy Point Beach, LLC  
Point Beach Nuclear Plant, Units 1 & 2  
6610 Nuclear Road  
Two Rivers, WI 54241-9516

Prairie Island Nuclear Generating Plant

Northern States Power Company -  
Minnesota  
Docket Nos. 50-282 and 50-306

Mr. James E. Lynch  
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 Co., LLC  
Docket Nos. 50-254 and 50-265  
License Nos. DPR-29 and DPR-30

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Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

Salem Nuclear Generating Station

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

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Hancocks Bridge, NJ 08038

Sequoyah Nuclear Plant

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

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Tennessee Valley Authority  
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South Texas Project

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

Mr. Dennis L. Koehl  
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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  
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Juno Beach, FL 33408-0420

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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769 Salem Boulevard  
NUCSB3  
Berwick, PA 18603-0467

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

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5000 Dominion Boulevard  
Glen Allen, VA 23060-6711

Turkey Point Nuclear Generating Station  
Florida Power & Light Company  
Docket Nos. 50-250 and 50-251  
License Nos. DPR-31 and DPR-41

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Vogtle Electric Generating Plant  
Southern Nuclear Operating Co.  
Docket Nos. 50-424 and 50-425  
License Nos. NPF-68 and NPF-81

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Birmingham, AL 35201-1295

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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Huntersville, NC 28078-8985