

OCT 30 2014

PSEG Nuclear LLC  
P.O. Box 236, Hancocks Bridge, NJ 08038-0236



10 CFR 50.54(f)

LR-N14-0227

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Salem Generating Station Units 1 and 2  
Renewed Facility Operating License Nos. DPR-70 and DPR-75  
NRC Docket Nos. 50-272 and 50-311

Subject: PSEG Nuclear LLC's Seismic Hazard and Screening Report -  
Supplemental Response to NRC Request for Information Pursuant to  
10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task  
Force Review of Insights from the Fukushima Dai-ichi Accident – Salem  
Generating Station

References:

1. NRC letter, "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated March 12, 2012
2. PSEG letter LR-N14-0051, "PSEG Nuclear LLC's Seismic Hazard and Screening Report (CEUS Sites) Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident – Salem Generating Station," dated March 28, 2014
3. EPRI Report 1025287, "Seismic Evaluation Guidance: Screening, Prioritization and Implementation Details (SPID) for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic" (ADAMS Accession No. ML12333A170)
4. NEI letter to NRC, "Proposed Path Forward for NTF Recommendation 2.1: Seismic Reevaluations," dated April 9, 2013 (ADAMS Accession No. ML13101A379)

5. NRC Letter, "Electric Power Research Institute Final Draft Report XXXXXX, 'Seismic Evaluation Guidance: Augmented Approach for the Resolution of Near-Term Task Force Recommendation 2.1: Seismic,' as an Acceptable Alternative to the March 12, 2012, Information Request for Seismic Reevaluations," dated May 7, 2013 (ADAMS Accession No. ML13106A331)
6. NRC letter, "Screening and Prioritization Results Regarding Seismic Hazard Reevaluations for Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident," dated October 3, 2014 (ADAMS Accession No. ML14258A043)

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued a request for information (Reference 1) pursuant to 10 CFR 50.54(f) to all power reactor licensees and holders of construction permits in active or deferred status. Enclosure 1 of the 10 CFR 50.54(f) letter requests each addressee located in the Central and Eastern United States (CEUS) to submit a Seismic Hazard Evaluation and Screening Report. PSEG Nuclear LLC (PSEG) provided the requested report for Salem Generating Station (SGS) Units 1 and 2 on March 28, 2014 (Reference 2). The SGS report provides a basis for both units to screen out of performing seismic risk evaluations consistent with the Seismic Evaluation Guidance: Screening, Prioritization, and Implementation Details (SPID) (Reference 3). Provided below is supplemental information regarding the Expedited Seismic Evaluation Process (ESEP) commitments in Reference 2.

In Reference 1, the NRC included a request for interim evaluations and actions to address seismic hazards that are higher than the design basis, prior to completion of a risk evaluation. Guidance for these interim measures is contained in the augmented approach to seismic hazard reevaluation proposed by the Nuclear Energy Institute in Reference 4 and endorsed by the NRC in Reference 5. The NRC endorsement of the augmented approach guidance (Reference 5) states that the Expedited Seismic Evaluation Process (ESEP) can provide seismic margin "... while more detailed and comprehensive plant seismic risk evaluations are being performed."

Consistent with the augmented approach guidance, the SGS Seismic Hazard Evaluation and Screening Report screened both units in for the ESEP, but screened out of further risk evaluations as reported in Reference 2. The NRC staff conducted screening and prioritization reviews summarized in Reference 6, which states that the SGS Individual Plant Examination of External Events (IPEEE) seismic capacity bounds the revised ground motion response spectrum (GMRS) and therefore SGS Units 1 and 2 screen out of further seismic risk evaluation.

In addition to the IPEEE seismic capacity, the current SGS design basis supports seismic safety with consideration of the new GMRS. Specifically, the conservative

Page 3  
LR-N14-0227

design time history SSE response spectrum (SGS Updated Final Safety Analysis Report Figure 3.7.2) used for design of Seismic Category I structures, systems, and components exceeds the new GMRS between 1 and 10 Hz (i.e., the frequency range of interest for the ESEP).

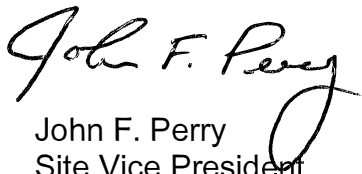
In summary, the ESEP evaluations are interim measures to provide seismic margin while longer term risk assessments are completed. SGS Units 1 and 2 screen out of the longer term risk assessments based on PSEG's seismic hazard reevaluation (Reference 2) and NRC screening and prioritization reviews (Reference 6). Therefore, PSEG considers completion of the ESEP evaluations to be unwarranted for SGS Units 1 and 2, and does not intend to complete the ESEP actions for SGS Units 1 and 2 (i.e., commitments 1, 2, 3a, and 3b in Enclosure 2 to Reference 2). There are no new regulatory commitments contained in this letter.

If you have any questions or require additional information, please do not hesitate to contact Mr. Lee Marabella at 856-339-1208.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on           OCT 30 2014            
(Date)

Sincerely,



John F. Perry  
Site Vice President  
Salem Generating Station

cc: Director of Office of Nuclear Reactor Regulation  
Administrator, Region I, NRC  
Ms. Carleen Sanders, Project Manager, NRC  
Mr. Nicholas DiFrancesco, Project Manager, NRC  
NRC Senior Resident Inspector, Salem  
Mr. P. Mulligan, Manager IV, NJBNE  
Salem Commitment Tracking Coordinator  
PSEG Corporate Commitment Coordinator