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**AUG 25 2016**

L-2016-154  
10 CFR 50.54(f)

U. S. Nuclear Regulatory Commission  
Attn.: Document Control Desk  
Washington, D.C. 20555

Re: St. Lucie Unit 1 and Unit 2  
Docket Nos. 50-335 and 50-389  
NEI 12-06, Revision 2, Appendix H, H.4.1 Path 1: GMRS < SSE, Mitigating Strategies  
Assessment (MSA) report for the New Seismic Hazard Information

References:

1. NEI 12-06; Revision 2, Diverse and Flexible Coping Strategies (FLEX) Implementation Guide, December 2015, ADAMS Accession Number ML16005A625.
2. JLD-ISG-2012-01, Revision 1, Compliance with Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events, February 2016, ADAMS Accession Number ML15357A163
3. PSL Letter L-2014-089, Florida Power & Light (FPL) Seismic Hazard and Screening Report (CEUS Sites), Response 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. Date: March 31, 2014, ADAMS Accession Number ML14099A106
4. NRC Letter, St. Lucie Unit 1 and Unit 2 - Staff Assessment and Closure of Information provided Pursuant to Title 10 of the Code of Federal Regulations Part 50, Section 50.54(f); Seismic Hazard Reevaluations for Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima DAI-ICHI Accident, Dated: January 7, 2016, ADAMS Accession Number ML15352A053

The purpose of this letter is to provide the results of the assessment for St. Lucie Unit 1 and Unit 2, performed to determine if the FLEX strategies developed, implemented and maintained in accordance with NRC Order EA-12-049, can be implemented, considering the impacts of the reevaluated seismic hazard. The assessment was performed in accordance with the guidance provided in Appendix H of NEI 12-06 Revision 2 (Reference 1), which was endorsed by the NRC (Reference 2).

The Mitigating Strategies Seismic Hazard Information (MSSHI) is the St. Lucie's reevaluated seismic hazard information, developed using Probabilistic Seismic Hazard Analysis (PSHA). The MSSHI includes a performance-based Ground Motion Response Spectrum (GMRS), Uniform Hazard Response Spectra (UHRS) at various annual probabilities of exceedance, and a

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family of seismic hazard curves at various frequencies and fractiles developed at the St. Lucie control point elevation. St. Lucie submitted the reevaluated seismic hazard information including the UHRS, GMRS and the hazard curves to the NRC on March 27, 2014 (Reference 3). The NRC Staff concluded that the St. Lucie GMRS adequately characterizes the reevaluated seismic hazard for the St. Lucie Nuclear Site (Reference 4).

Consistent with Section H.4.1 of Reference 1, the St. Lucie GMRS is bounded by the Safe Shutdown Earthquake (SSE) spectrum at all frequencies. Therefore, the FLEX strategies for St. Lucie can be implemented as designed and no further seismic evaluations are necessary.

This letter contains no new regulatory commitments and no revisions to existing regulatory commitments.

Should you have any questions regarding this submittal, please contact Mr. Michael Snyder, St. Lucie Licensing Manager, at 772-467-7036.

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

Executed on **AUG 25 2016**

Sincerely,



Christopher R. Costanzo  
Site Vice President  
St. Lucie Nuclear Plant

Enclosure

cc: USNRC Regional Administrator, Region II  
USNRC Project Manager, St. Lucie Nuclear Plant  
USNRC Senior Resident Inspector, St. Lucie Nuclear Plant