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50-364

NL-16-0622

U. S. Nuclear Regulatory Commission
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Washington, D. C. 20555-0001

Joseph M. Farley Nuclear Plant – Units 1 and 2
NEI 12-06, Rev. 2, Appendix H.4.1 Path 1: GMRS ≤ SSE
Mitigating Strategies Assessment (MSA) Report

References:

1. NEI 12-06, Revision 2, Diverse and Flexible Coping Strategies (FLEX) Implementation Guide, December 2015, 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, ML15357A163.
3. Letter to NRC, Joseph M. Farley Nuclear Plant – Units 1 and 2 Seismic Hazard and Screening Report for CEUS Sites, March 31, 2014, NL-14-0342, ML14092A020.
4. NRC Letter, Joseph M. Farley Nuclear Plant Units 1 and 2 - Staff Assessment of Information provided Pursuant to 10 CFR 50.54(f), Seismic Hazard Reevaluations for Recommendation 2.1 of the NTTF Review of Insights from the Fukushima Dai-ichi Accident, dated October 16, 2015, ML15287A092.
5. NRC Letter, Joseph M. Farley Nuclear Plant, Units 1 and 2 – Staff Closure of Request for Information Pursuant to 10 CFR 50.54(f), Seismic Hazard Reevaluations for Recommendation 2.1 “Seismic” of the NTTF Review of Insights from the Fukushima Dai-ichi Accident, February 4, 2016, ML16029A051.

Ladies and Gentlemen:

The purpose of this letter is to provide the results of the assessment for the Joseph M. Farley Nuclear Plant, Units 1 and 2 (FNP) 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 licensee's reevaluated seismic hazard information at FNP, developed using Probabilistic Seismic Hazard Analysis

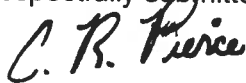
(PSHA). The MSSHI includes a performance-based Ground Motion Response Spectrum (GMRS), Uniform Hazard Response Spectra (UHS) at various annual probabilities of exceedance, and a family of seismic hazard curves at various frequencies and fractiles developed at the FNP control point elevation. FNP submitted the reevaluated seismic hazard information including the UHS, GMRS and the hazard curves to the NRC on March 31, 2014 (Reference 3) The NRC staff concluded that the GMRS that was submitted adequately characterizes the reevaluated seismic hazard for the FNP site (References 4 and 5).

Consistent with NEI 12-06, Revision 2, Appendix H.4.1, FNP is bounded by (or with negligible GMRS exceedance) the SSE spectrum at frequencies 1 Hz and greater. Therefore, the FLEX strategies for FNP can be implemented as designed and no further seismic evaluations are necessary.

This letter contains no new NRC commitments. If you have any questions, please contact John Giddens at 205.992.7924.

Mr. C. R. Pierce states he is the Regulatory Affairs Director of Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and, to the best of his knowledge and belief, the facts set forth in this letter are true.

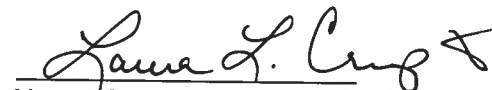
Respectfully submitted,



C. R. Pierce
Regulatory Affairs Director

CRP/JMG/MRE

Sworn to and subscribed before me this 21st day of APRIL, 2016.


Notary Public

My commission expires: 10-8-2017



cc: Southern Nuclear Operating Company

Mr. S. E. Kuczynski, Chairman, President & CEO

Mr. D. G. Bost, Executive Vice President & Chief Nuclear Officer

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U. S. Nuclear Regulatory Commission

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