



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

September 29, 2016  
NOC-AE-16003398  
10 CFR 50.54(f)

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

South Texas Project  
Units 1 and 2  
Docket Nos. STN 50-498, STN 50-499  
Mitigating Strategies Assessment (MSA) Report for the New Seismic Hazard Information –  
NEI 12-06, Appendix H, Revision 2, H.4.1 Path 1: GMRS ≤ SSE

References:

1. Nuclear Energy Institute (NEI) guidance, NEI 12-06, Revision 2, "Diverse and Flexible Coping Strategies (FLEX) Implementation Guide, December 2015 (ML16005A625)
2. U.S. Nuclear Regulatory Commission (NRC), JLD-ISG-2012-01, Revision 1, "Compliance with Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigating Strategies for Beyond-Design-Basis External Events", January 22, 2016 (ML15357A163)
3. Letter from G.T. Powell, STPNOC, to NRC Document Control Desk, "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", March 31, 2014 (NOC-AE-14003114)(ML14099A235)
4. Letter from F. Vega, NRC, to D.L. Koehl, STPNOC, "Staff Assessment 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 (TAC Nos. MF3935 and MF3936)", October 26, 2015 (AE-NOC-15002749)(ML15287A077)
5. Letter from F. Vega, NRC, to D.L. Koehl, STPNOC, "Staff Closure of Request for Information Pursuant to Title 10 of the Code of Federal Regulation Part 50, Section 50.54(f), Seismic Hazard Reevaluations for Recommendation 2.1 "Seismic" of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi (TAC Nos. MF 3935 and MF3936)", November 19, 2015 (AE-NOC-16002844)(ML15313A304)

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The purpose of this letter is to provide the results of the assessment for South Texas Project Nuclear Operating Company (STPNOC) 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 STPNOC'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 family of seismic hazard curves at various frequencies and fractiles developed at the STP Electric Generating Station (STPEGS) control point elevation. STPNOC submitted the reevaluated seismic hazard information including the UHRS, 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 STPEGS site (Reference 4).

Consistent with H.4.1 of Reference 1, the STPNOC GMRS is bounded by the Safe Shutdown Earthquake (SSE) spectrum at frequencies 1 Hz and greater. The FLEX strategies were developed in consideration of the Current Licensing Basis. Therefore, the FLEX strategies for STPNOC can be implemented as designed and no further seismic evaluations are necessary as noted in the NRC Staff Closure letter for STP (Reference 5).

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

If there are any questions regarding this letter, please contact Wendy Brost at (361) 972-8516 or me at (361) 972-7697.

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

Executed on 9-29-16  
Date



Aldo Capristo  
Executive Vice President &  
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cc:  
(Paper Copy)

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