

NRR-PMDAPEm Resource

From: MAUER, Andrew <anm@nei.org>
Sent: Wednesday, February 24, 2016 8:56 AM
To: DiFrancesco, Nicholas; Marshall, Michael
Cc: Shams, Mohamed
Subject: [External_Sender] Proposed MSA Templates for Seismic Path 1 and Path 2 (minimal exceedance)
Attachments: Appendix H seismic MSA Path 1 Template rev1 .docx; Appendix H seismic MSA Path 2 Template rev2.docx

Michael/Nick,

Attached are the proposed MSA templates for Seismic Path 1 and Path 2 (minimal exceedance). We look forward to your prompt feedback.

Thanks,
Andrew

Andrew N. Mauer
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Subject: [External_Sender] Proposed MSA Templates for Seismic Path 1 and Path 2
(minimal exceedance)
Sent Date: 2/24/2016 8:56:10 AM
Received Date: 2/24/2016 8:58:22 AM
From: MAUER, Andrew

Created By: anm@nei.org

Recipients:

"Shams, Mohamed" <Mohamed.Shams@nrc.gov>
Tracking Status: None
"DiFrancesco, Nicholas" <Nicholas.DiFrancesco@nrc.gov>
Tracking Status: None
"Marshall, Michael" <Michael.Marshall@nrc.gov>
Tracking Status: None

Post Office: mbx023-e1-nj-4.exch023.domain.local

Files	Size	Date & Time
MESSAGE	1748	2/24/2016 8:58:22 AM
Appendix H seismic MSA Path 1 Template rev1 .docx	31775	
Appendix H seismic MSA Path 2 Template rev2.docx	31154	

Options

Priority: Standard
Return Notification: No
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10 CFR 50.4

[DATE]

[DO NOT submit to the NRC prior to the effective date for JLD-ISG-2012-01, Revision 1. The notice of availability of the ISG (effective date) will be publish in the Federal Register]

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

Company/Licensee/Site Name
Company/Licensee/Site Docket Number(s)
Company/Licensee/Site Renewed License Number(s)

Subject: NEI 12-06, Appendix H, Revision 2, H.4.1 Path 1: GMRS \leq 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 ADAMS Accession Number ML15357A163
3. [Company/Licensee Seismic Hazard Reevaluations submittal and any supplements, [DATS(s)], ADAMS Accession Numbers(s)]
4. [NRC Letter, Company/Licensee/Site 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, dated [DATE], ADAMS Accession Number MLxxxxxxx]

The purpose of this letter is to provide the results of the assessment for [PLANT/SITE] 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 [PLANT/SITE], 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 [PLANT/SITE] control point elevation. [PLANT/SITE] submitted the reevaluated seismic hazard information including the UHRS, GMRS and the hazard curves to the NRC on [DATE(s)] (Reference(s) 3, [x]), [Reference all supplemental submittals that may have been made in response to the 10 CFR 50.54(f) request for information]. The NRC staff

concluded that the GMRS that was submitted adequately characterizes the reevaluated seismic hazard for the [PLANT] site (Reference 4).

Consistent with H.4.1, the [PLANT/SITE] is bounded by (or with negligible GMRS exceedance) the SSE spectrum at frequencies 1 Hz and greater. Therefore, the FLEX strategies for [PLANT/SITE] can be implemented as designed and no further seismic evaluations are necessary.

This letter contains no new Regulatory Commitments and no revision to existing Regulatory Commitments.

Should you have any questions regarding this submittal, please contact
[Company/Licensee/Site contact and phone number]

[This submittal is not in response to the NRC 10 CFR 50.54(f) letter dated March 12, 2012, as such, the submittal is not required to be provided under Oath or Affirmation. This should be Validated/verified by your Licensing group]

Sincerely,

[Company/Licensee/Site Vice President]

cc: [Company/Licensee/Site specific distribution]

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- All bracketed text, Red text and blue text should be removed prior to submission]

10 CFR 50.4

[DATE]

[DO NOT submit to the NRC prior to the effective date for JLD-ISG-2012-01, Revision 1. The notice of availability of the ISG (effective date) will be publish in the Federal Register]

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
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Company/Licensee/Site Name

Company/Licensee/Site Docket Number(s)

Company/Licensee/Site Renewed License Number(s)

Subject: NEI 12-06, Appendix H, Revision 2, H.4.2 Path 2: GMRS < SSE with High Frequency Exceedances, 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, ADAMS Accession Number ML15357A163
3. [Company/Licensee Seismic Hazard Reevaluations submittal and any supplements, [DATE(S)], ADAMS Accession Number(s)]
4. [NRC Letter, Company/Licensee 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, dated [DATE], ADAMS Accession Number MLxxxxxxx]
5. [Company/Licensee High Frequency Supplement to Seismic Hazard Screening Report, 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, [DATE], ADAMS Accession Number MLxxxxxxx]
6. NRC Letter, Response to Company/Licensee High Frequency Supplement to Seismic Hazard Screening Report, [DATE], ADAMS Accession Number MLxxxxxxx]
7. EPRI 3002004396, Final Report, July 2015, High Frequency Program Application Guidance for Functional Confirmation and Fragility Evaluation, ADAMS Accession Number ML15223A102
8. NRC Letter, Endorsement of Electric Power Research Institute Final Draft Report 3002004396, "High Frequency Program: Application Guidance for Functional Confirmation and Fragility", dated September 17, 2015, ADAMS Accession Number ML15218A569

The purpose of this letter is to provide the results of the assessment for [PLANT/SITE] 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 [PLANT/SITE], 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 [PLANT/SITE] control point elevation. [PLANT/SITE] submitted the reevaluated seismic hazard information including the UHRS, GMRS and the hazard curves to the NRC on [DATE(s)] (Reference(s) 3, [x]), [Reference all supplemental submittals that may have been made in response to the 10 CFR 50.54(f) request for information]. The NRC staff concluded that the GMRS that was submitted adequately characterizes the reevaluated seismic hazard for the [PLANT] site (Reference 4).

Consistent with Section H.4.2 of Reference 1, the [PLANT/SITE] GMRS is bounded by (or with negligible GMRS exceedance) the Safe Shutdown Earthquake (SSE) spectrum at frequencies between 1 to 10 Hz and the GMRS spectrum above 10 Hz exceeds the SSE spectrum. References 5 and 6 provides the high frequency confirmation assessment that was performed for [PLANT/SITE] and NRC concurrence, respectively. For [PLANT/SITE], the GMRS to SSE exceedance at frequencies greater than 10 Hz qualify as minimal high frequency exceedances defined in Sections 3.1.1 [and/or] 3.1.2 of EPRI 3002004396 (Reference 7), as endorsed by NRC (Reference 8), and are considered inconsequential. Therefore, the FLEX strategies for [PLANT/SITE] can be implemented as designed and no further seismic evaluations are necessary.

This letter contains no new Regulatory Commitments and no revision to existing Regulatory Commitments.

Should you have any questions regarding this submittal, please contact [Company/Licensee/Site contact and phone number]

[This submittal is not in response to the NRC 10 CFR 50.54(f) letter dated March 12, 2012, as such, the submittal is not required to be provided under Oath or Affirmation. This should be Validated/verified by your Licensing group]

Sincerely,

[Company/Licensee/Site Vice President]

cc: [Company/Licensee/Site specific distribution]