

# Closure Plan for RAI 183-8197

<b><u>DCD Chapter Associated with RAI:</u></b> 3.7
<b><u>RAI Number:</u></b> 183-8197(Q 03.07.02-1)
<b><u>Expected Final Closure Date:</u></b> 09/13/2016
<b><u>Issue to be addressed:</u></b> Provide technical justification for the selection of the appropriate number of modes to be used to capture the incoherent-motion
<b><u>Method of Closure (How Will the RAI Be Closed):</u></b> HRHF incoherency analyses for additional modes will be performed to provide a justification for the adequacy of the number of modes used. The adequacy of subsequently added modes will be confirmed from comparisons of responses with the convergence acceptance criteria. The convergence criteria, which are set as the differences from the two sets ( $n$ modes vs $n+1$ modes) of results being within 5%, have been provided to the NRC during the April 06, 2016 conference call. A supplemental study of incoherence SSI analyses for the vertical direction input for principal coherency modes up to 50 based on a simplified basemat model will be performed to demonstrate that the additional thirty plus modes have insignificant effect.
<b><u>Expected Outcome (Expected Resolution/Results):</u></b> The results of additional modes will be combined with current documented results of the first 7 modes to demonstrate that the contributions from the additional modes are insignificant and can be neglected.
<b><u>Milestones to Completion</u></b> HRHF incoherency analysis with additional modes: August 24, 2016 Supplemental study of incoherence SSI analysis for vertical direction up to 50 modes: August 31, 2016. Comparison of the analysis results with current DCD results: September 7, 2016 Submittal of revised RAI response: September 13, 2016
<b><u>Deliverables:</u></b> revised RAI response and Markup for applicable Technical Report
<b><u>Notes:</u></b>