

# Closure Plan for RAI 227-8274

<b><u>DCD Chapter Associated with RAI:</u></b> 3.8.4
<b><u>RAI Number:</u></b> 227-8274 (Q 03.08.04-7)
<b><u>Expected Final Closure Date:</u></b> 10/14/2016
<b><u>Issue to be addressed:</u></b> Dynamic Earth Pressure from an embedded SSI/Finite element analysis The dynamic earth pressure from an embedded SSI/Finite element analysis will be compared with the dynamic earth pressure in accordance with ASCE 4-98, Section 3.5.3.2 (2). The dynamic earth pressure from an embedded SSI/Finite element analysis will be incorporated into the subsequent structural analyses and designs of NI structure
<b><u>Method of Closure (How Will the RAI Be Closed):</u></b> <ol style="list-style-type: none"><li>1. The dynamic earth pressure profile applicable to the subsequent structural analysis based on the results from both SSI/SSSI analyses will be generated. (by 08/19/2016)</li><li>2. The dynamic earth pressure profile generated from SSI/SSSI analyses will be compared with the dynamic earth pressure profile determined in accordance with ASCE 4-98, Section 3.5.3.2 (2). If the dynamic earth pressure profile determined in accordance with ASCE 4-98, Section 3.5.3.2 (2) is governing, no further justification is needed. If the dynamic earth pressure profile generated from SSI/SSSI analyses is governing, the structural analysis will be performed considering the dynamic earth pressure profile generated from SSI/SSSI analyses. (by 09/05/2016)</li><li>3. If the dynamic earth pressure profile generated from SSI/SSSI analyses is governing ,the structural design will be performed based on the member forces from the structural analysis considering the dynamic earth pressure profile generated from SSI/SSSI analyses to check the design margin of structures and re-design the structural members, if necessary. (by 10/07/2016)</li></ol>
<b><u>Expected Outcome (Expected Resolution/Results):</u></b> Calculation of structural analysis and design considering the dynamic earth pressure profile generated from SSI/SSSI analyses.
<b><u>Milestones to Completion</u></b> Completion of structural analysis and design : 10/07/2016 Submittal of RAI response: 10/14/2016
<b><u>Deliverables:</u></b> RAI response and Markup for DCD
<b><u>Notes:</u></b>