

**APR1400**

**Feedback on Advanced Response to RAI 255-8285, Question 03.08.05-16, Part c.3**

**Prepared July 25, 2016**

The staff requests that the items identified below be clarified regarding Part c.3 of this RAI question. For the remaining parts of this RAI, feedback was already provided by the NRC during the audit conducted the week of June 20, 2016.

(1) The figure provided presents the horizontal displacement as a function of depth due to a horizontal unit pressure load applied at the surface. Explain why the lateral displacement between a height of 15 and 30 (the units for height are not shown) is constant rather than varying as a function of depth. Also identify the units of displacement and the units of the height shown in the figure.

(2) Another figure was shown during the audit that identifies the location of the horizontal springs used in the NI common basemat model. This figure only shows horizontal springs along the vertical edge of the basemat (not embedded walls). This figure should be included in the RAI response. Explain whether horizontal springs were also located beneath the basemat, which is not shown in the figure, and if not, why. Lastly, explain the effect of including horizontal springs along the vertical edge of the basemat and not including springs along the embedded walls below grade.