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**From:** Li, Yong  
**To:** Khanna, Meena  
**Subject:** RE: Status of North Anna Visit Regarding Earthquake Issue  
**Date:** Friday, August 26, 2011 9:41:33 AM

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Meena,

We updated the writing as below.

Yong and George are at the North Anna site to evaluate the issues related to the recent earthquake. They met with the licensee and presented questions from NRR/NRO/RES to the licensee and looked at Earthquake instrument panel in the control room. A summary of the status of the visit, to date, is provided below:

The licensee conducted the 1<sup>st</sup> walkdown of the plant with focus on safety related SSC (except the containment) within 8 hours in accordance with the North Anna Power Station abnormal procedure for seismic event(O-AP-36). From the walkdown, the licensee identified many discrepancies for which condition reports have been written. The damages noted were generally minor.

Among the items of identified through the initial walkdown, the bushing of the all four transformers were found to be damaged and the oil leaked from the transformer which caused the turbine generator to trip, resulting reactor shutdown. The other items were identified to be "superficial," such as, minor cracks on walls, loose insulation, conduits coming lose, 25 of 27 ISFSI vertical casks moved horizontally 0.5 inches to 3 inches, etc.

The licensee conducted the 2<sup>nd</sup> walkdown after the aftershock triggered at 2 am on 8/25/11; however, no additional discrepancies were found.

The licensee is in the process of developing specific guidance in preparation for detailed walkdowns.

The licensee indicated that all seismic monitors are contained in the Unit 1 containment at different levels of the structures as well as in the auxiliary building. No seismic monitor is located in the Unit 2 building.

Scratch plants readings from the Aux building basemat was sent to California to be interpreted by a vendor. As of this writing, we were told that the time histories initially sent to Calvert Cliffs is being sent to California to be interpreted. The licensee is expecting those confirmed reading will be in today. Scratch plates from Unit 1 containment basemat is ready to be sent to California today.

Since the licensee doesn't have seismic monitor located in the free field on the free surface, therefore, a strictly comparison of ground motion for SSE and OBE is difficult. However, the staff confirmed with the licensee that design response spectra for different levels are available and a comparison can be carried out between the original design and the observed when all the seismic

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readings from the seismometers are done and confirmed.

Yong and George