

**Boyle, Patrick**

**From:** Kulesa, Gloria *11/22/11*  
**Sent:** Monday, August 29, 2011 9:26 AM  
**To:** Boyle, Patrick  
**Subject:** FW: Request for Assistance - Confirmation that OBE was not exceeded at Outside of Scope and Outside of Scope

**From:** Khanna, Meena  
**Sent:** Monday, August 29, 2011 8:50 AM  
**To:** Kulesa, Gloria  
**Subject:** FW: Request for Assistance - Confirmation that OBE was not exceeded at Outside of Scope and Outside of Scope

Gloria, just an fyi...this would be good for the PM to use in requesting info of Outside of Scope thanks

**From:** Pickett, Douglas *11/22/11*  
**Sent:** Monday, August 29, 2011 7:25 AM  
**To:** Furio, Patricia S; [doug.lauver@cengllc.com](mailto:doug.lauver@cengllc.com)  
**Cc:** Khanna, Meena; Salgado, Nancy; Dentel, Glenn; Kennedy, Silas  
**Subject:** FW: Request for Assistance - Confirmation that OBE was not exceeded at Outside of Scope and Outside of Scope

Doug/Pat – As indicated in the 50.72 report, North Anna may have exceeded their design basis earthquake during last Tuesday's seismic event. As a result, the staff is requesting whether Outside of Scope exceeded their operating or design basis earthquake.

Could you please have your staff look into this and let me know?

Thanks – Doug

Douglas V. Pickett, Senior Project Manager  
 Calvert Cliffs, R.E. Ginna  
 U.S. Nuclear Regulatory Commission  
 301-415-1364  
 Email: [douglas.pickett@nrc.gov](mailto:douglas.pickett@nrc.gov)

Power Reactor	Event Number: 47201
Facility: NORTH ANNA Region: 2 State: VA Unit: [1] [2] [ ] RX Type: [1] W-3-LP,[2] W-3-LP NRC Notified By: PAGE KEMP HQ OPS Officer: BILL HUFFMAN	Notification Date: 08/26/2011 Notification Time: 16:23 [ET] Event Date: 08/26/2011 Event Time: 13:00 [EDT] Last Update Date: 08/26/2011
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(3)(ii)(B) - UNANALYZED CONDITION.	Person (Organization): MALCOLM WIDMANN (R2DO )

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	N	0	Cold Shutdown	0	Cold Shutdown

Outside of scope

*P/17*

2	N	N	0	Hot Shutdown	0	Hot Shutdown
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**Event Text**

**UNANALYZED CONDITION BASED ON SEISMIC ACTIVITY THAT POTENTIALLY EXCEEDED DESIGN BASIS EARTHQUAKE MAGNITUDE**

On August 23, 2011 at 1351 hours, North Anna Power Station experienced a seismic activity event which resulted in a loss of offsite power and automatic reactor trip of both units. At 1403 hours, an Alert was declared. based on Shift Manager judgment, due to significant seismic activity on the site. Subsequent to the earthquake, both units were stabilized and offsite power was restored. Following the event, seismic data was retrieved from the installed monitoring system and shipped to the vendor to determine the response spectrum for the event. On August 26, 2011 at 1340 hours, initial reviews of the data determined that the seismic activity potentially exceeded the Design Basis Earthquake magnitude value above 5 Hz. Therefore, this is reportable per 10CFR50.72(b)(3)(ii) (B) for the nuclear power plant being in an unanalyzed condition that significantly degrades plant safety.

North Anna Unit 1 is currently in Cold Shutdown with the Residual Heat Removal System providing core cooling. North Anna Unit 2 is currently in Hot Shutdown and will be taken to Cold Shutdown with the Residual Heat Removal System providing core cooling. No significant equipment damage to Safety Related system (including Class 1 Structures) has been identified through site walk-downs nor has equipment degradation been detected through plant performance and surveillance testing following the earthquake. Therefore, there is reasonable assurance that the Safety Related systems are fully functional.

The Spent Fuel Pit cooling system also remains fully functional and the temperature of the Spent Fuel Pit remained unchanged during the event.

The vendor will complete the analysis of the seismic data and this information will be utilized to address the long term actions following the earthquake.

**From:** Khanna, Meena *me*  
**Sent:** Sunday, August 28, 2011 12:47 AM  
**To:** Cotton, Karen; Pickett, Douglas  
**Cc:** Kulesa, Gloria; Salgado, Nancy; Manoly, Kamal; Li, Yong; Wilson, George; **Martin, Robert; Lund, Louise**  
**Subject:** Request for Assistance - Confirmation that OBE was not exceeded at Outside of Scope and Outside of Scope

Karen and Doug,

I'd like to request your assistance pls. In light of the recent earthquake/seismic issues at the North Anna NPP, could you pls confirm that the Operating Basis Earthquake (OBE) was not exceeded at Outside of Scope and Outside of Scope Jack Grobe requested this info and I'd appreciate your support on this.

Pls see below for info that we received from USGS Shakemap...

The list below provides the plants and the associated distance from the EpiCenter:

North Anna is 18 km from the Epicenter  
Outside of Scope

Thanks,

Meena Khanna, Branch Chief  
 Mechanical and Civil Engineering Branch  
 Division of Engineering  
 Office of Nuclear Reactor Regulation

*Outside of Scope*