

Boyle, Patrick

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**From:** Martin, Robert *MR*  
**Sent:** Tuesday, September 13, 2011 12:58 PM  
**To:** Kulesa, Gloria; Boyle, Patrick  
**Subject:** FW: North Anna - Proposed Restart Activities

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**From:** Mendiola, Anthony *MR*  
**Sent:** Tuesday, September 13, 2011 10:46 AM  
**To:** Hiland, Patrick  
**Cc:** Bahadur, Sher; Giitter, Joseph; Howe, Allen; Martin, Robert; Ulses, Anthony; Clifford, Paul  
**Subject:** RE: North Anna - Proposed Restart Activities

Pat,

Just a quick update on the fuel activities.

We are making preps to put myself, Paul Clifford, and an NRO fuel reviewer at the site starting Monday morning to observe the visual inspection of the fuel bundles of Unit 2. Additionally, we are planning to put a SRXB reviewer onsite to observe the Spent Fuel Pool inspections.

We have forwarded a number of fuel related questions to Bob Martin to forward to the licensee. He expect to forward them to the licensee today.

At this time, based on the comparison of the Dominion presentation last week and our safety evaluation report for the Advanced Mark-BW fuel mechanical design report, we are unable to determine the operability of the fuel assemblies and control rods. We will need to understand the licensee's strategy and then assess their qualifying criteria against the staff's approved design basis of the fuel to determine the operability of these components.

Anthony Mendiola  
Chief, Nuclear Performance and Code Review Branch  
SNPB/DSS/NRR/NRC  
(301) 415-1054

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**From:** Hiland, Patrick *MR*  
**Sent:** Tuesday, September 13, 2011 7:34 AM  
**To:** Mendiola, Anthony; Ulses, Anthony; Casto, Greg; Dennig, Robert; Bailey, Stewart; Taylor, Robert; Lupold, Timothy; Mitchell, Matthew; McMurtray, Anthony; Wilson, George; Murphy, Martin; Mathew, Roy; Tate, Travis; Harrison, Donnie; Circle, Jeff; Klein, Alex; Pham, Bo; Auluck, Rajender; Pelton, David  
**Cc:** Bahadur, Sher; Evans, Michele; Cheok, Michael; Holian, Brian; Giitter, Joseph; Kulesa, Gloria; Lund, Louise; McCoy, Gerald; Leeds, Eric; Holian, Brian; Boger, Bruce; Howe, Allen  
**Subject:** North Anna - Proposed Restart Activities  
**Importance:** High

NRR/DE is designated the lead division for the restart of North Anna, Units 1 and 2, that were shut down by the earthquake of August 23, 2011. We have established a core coordination team for the technical review, consisting of **Meena Khanna, Kamal Manoly** and DORL's **Bob Martin**.

From the discussions in the public meeting with the licensee on September 8, 2011, it is clear that a number of NRR staff have given this issue thought and may have generated questions related to how the design basis

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may have been impacted by the earthquake and what the resulting requirements for restart of the units would be. Those speaking at the meeting or understood to have questions included A. Ulses/DSS: reactor systems, A. Mendiola/DSS: fuel, G. Cheruvenki/DCI vessel internals, F. Farzam/DE structures, Y. Li/DE seismology, Atsirigotis/DE piping, G. Wilson/DE electrical, B. Holian/DLR aging management and possibly others.

There are many interesting aspects of this issue but the focus here is on the regulatory requirements for NRC's review of the licensee's intentions to restart the two North Anna units. In that regard, I request that the addressees forward their questions to the Coordination Team by September 15, cob. The results will be reviewed for applicability to the North Anna design & licensing bases and may be issued to the licensee as a request for information.

Two possibly useful references are Regulatory Guide 1.167 and the EPRI report that it references, and a 2011 report by IAEA, "Earthquake Preparedness and Response for Nuclear Power Plants."