

143

Martin, Robert

From: Mathew, Roy *MR*
Sent: Wednesday, September 14, 2011 2:06 PM
To: Martin, Robert
Subject: FW: North Anna Seismic Event Issues

From: Mathew, Roy
Sent: Wednesday, September 14, 2011 8:19 AM
To: Khanna, Meena
Cc: McConnell, Matthew; McConnell, Matthew
Subject: RE: North Anna Seismic Event Issues

Here are some of the questions from EEEB:

Prior to plant restart

- 1) Explain how you have determined that all electrical equipment including electrical equipment that was commercially dedicated by the licensee which includes the safety-related batteries required to function during and following a seismic event (OBE/SSE) remains qualified to perform their required safety-functions during all design basis events.
- 2) Explain how you have determined that electrical connections (i.e., electrical bus bars (power and control cable and wiring connections at all voltage levels), battery, contactors, etc.) maintained their electrical connection integrity to perform their required safety-functions under both normal and accident conditions and also during and following another seismic event (OBE or SSE or beyond SSE given the magnitude of the recent earthquake).
- 3) Explain how you have determined that support features associated with bus bars, battery racks, switchgear, cable raceways, containment electrical penetration assemblies, etc., are adequate to enable electrical equipment to perform their required safety-functions under both normal and accident conditions and also during and following another seismic event (OBE or SSE or beyond SSE given the magnitude of the recent earthquake).
- 4) Explain how you have evaluated the EDG and the support systems (cooling water, starting air and fuel oil) maintain their required safety-functions during all design basis events.
- 5) Explain how electrical systems were declared operable. Was any maintenance or operator action required post seismic event to restore the integrity of any equipment required for plant safe shutdown.
- 6) Explain how you have determined that the neutron flux instrumentation functioned in accordance with the design requirement and the trip was valid.
- 7) Explain how you have determined that all pressure boundary welds are intact and will perform their intended safety functions for any postulated design basis events.

Post-restart

1. Based on North Anna dual unit trips, how did you determine that the offsite power system has adequate capacity and capability to mitigate all design basis events.

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143

-----Original Appointment-----

From: Khanna, Meena

Sent: Tuesday, September 13, 2011 1:38 PM

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; Martin, Robert; Harrison, Donnie; Circle, Jeff; Klein, Alex; Pham, Bo; Auluck, Rajender; Pelton, David; Kulesa, Gloria; Manoly, Kamal

Cc: Miranda, Samuel; Mitman, Jeffrey

Subject: North Anna Seismic Event Issues

When: Wednesday, September 14, 2011 1:30 PM-2:00 PM (GMT-05:00) Eastern Time (US & Canada).

Where: HQ-OWFN-07B04-25p

Importance: High

I request that all of you pls try to attend this meeting, as we need to meet to address path forward with regards to this issue. I will bring a copy of the draft action plan and will lay out expectations, guidance, schedules, etc. Pls note that this is a **high priority** initiative, in that it involves plant restart. We are looking to issue questions starting this week, so I really would like for each branch, if not already done, to pls develop questions regarding short term (prior to plant restart) and long term (post restart) licensee's actions.