

## NRR-PMDAPEm Resource

---

**From:** Saba, Farideh  
**Sent:** Friday, May 29, 2015 6:53 PM  
**To:** Szabo, Clinton William (cwszabo@tva.gov); Williams, Gordon Robert (grwilliams1@tva.gov)  
**Cc:** Schrull, Edward Dustin (edschrull@tva.gov); Hilsmeier, Todd; Robinson, Jay  
**Subject:** FW: Browns Ferry RAI

**Importance:** High

Gordon and Clint,

Please see the following follow up RAI for Browns Ferry NFPA 805 LAR. My understanding is that we have discussed this RAI during a conference call on May 7, 2015. The NRC staff is requesting that you provide your response on the docket, for the staff to be able to refer to it in its safety evaluation. Please respond by June 15 to this RAI. Please let me know if you will not be able to support this date.

Thanks,

Farideh  
Farideh E. Saba, P.E.  
Senior Project Manager  
NRC/ADRO/NRR/DORL  
301-415-1447  
Mail Stop O-8G9A  
[Farideh.Saba@NRC.GOV](mailto:Farideh.Saba@NRC.GOV)

### PRA RAI 18.01

PRA RAI 18 requested clarification about how the compliant and variant plants were modeled to determine the  $\Delta$ CDF and  $\Delta$ LERF for the control room and cable spreading room abandonment scenarios. The response to PRA RAI 18 generally states that ‘abandonment scenarios’ are modeled using the “backup control panel” for both the post-transition and the complaint plant PRA models, and discusses some functional success paths. However, the response neither indicates how VFDRs are identified nor how the associated fire-damaged cables and equipment, and thus VFDRs, are removed from the compliant plant quantification in each fire area that includes shutdown from the backup control panel.

- a) Confirm that the equipment damaged by each fire in fire areas that includes shutdown from the backup control panel has been identified using the Brown’s Ferry fire damage methodology and is assumed to fail in the FPRA. If not, please clarify how equipment damage is identified and modeled.
- b) Confirm that all applicable equipment undamaged by each fire is nominally available to mitigate the fire, i.e., is credited in the PRA model. Summarize any differences between the nominally available equipment in the complaint versus the variant plant.
- c) Explain how the VFDRs within these areas were identified (e.g., must a VFDR fail all success paths in the area and also fail the success path at the backup control panel to be identified as a VFDR?).

**Hearing Identifier:** NRR\_PMDA  
**Email Number:** 2122

**Mail Envelope Properties** (36CF286628C20846A68047F2463233090145334ED536)

**Subject:** FW: Browns Ferry RAI  
**Sent Date:** 5/29/2015 6:52:54 PM  
**Received Date:** 5/29/2015 6:52:00 PM  
**From:** Saba, Farideh

**Created By:** Farideh.Saba@nrc.gov

**Recipients:**

"Schrull, Edward Dustin (edschrull@tva.gov)" <edschrull@tva.gov>

Tracking Status: None

"Hilsmeier, Todd" <Todd.Hilsmeier@nrc.gov>

Tracking Status: None

"Robinson, Jay" <Jay.Robinson@nrc.gov>

Tracking Status: None

"Szabo, Clinton William (cwszabo@tva.gov)" <cwszabo@tva.gov>

Tracking Status: None

"Williams, Gordon Robert (grwilliams1@tva.gov)" <grwilliams1@tva.gov>

Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	2379	5/29/2015 6:52:00 PM

**Options**

**Priority:** High

**Return Notification:** No

**Reply Requested:** Yes

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:** ZZZ