

NRR-PMDAPEm Resource

From: Orf, Tracy
Sent: Friday, August 05, 2011 1:23 PM
To: Wasik, Chris; Hoffman, Jack
Cc: Abbott, Liz
Subject: St. Lucie 2 EPU draft RAIs on MUR portion (EICB)

Chris/Jack,

Please see below. These RAIs are on the MUR section of the LAR.

Regards,

Trace

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UNIT 2

The following questions refer to the file "Att 5 EPU Licensing Report_np.pdf" of St Lucie Nuclear Power Plant Unit 2 (St. Lucie Unit 2) licensing EPU Compact Disc (LAR L-2011-021).

- EICB-5: Second paragraph in page 2.4.4-7 addresses NRC RIS 2002-03 item I.1.F.ii "controlling software and hardware configuration." However, the licensee only describes the hardware and software configuration program of the Cameron LEFM CheckPlus system. Provide a brief description of your plant configuration programs and address how you plan to control this hardware and software configuration at the plant during installation, post-testing and maintenance.
- EICB-6: Page 2.4.4-15, Table 2.4.4-1 indicates that the steam enthalpy uncertainty is 0.0225% by pressure and 0.0087% by moisture carryover. The sum of these two values (0.0312%) is less than the minimum uncertainty value [0.07%] listed in the ER-157P, Revision 5, which assumed zero moisture carryover. What assumptions are made and what is the value of steam quality used in the calorimetric uncertainty calculation? Explain and justify why the uncertainty value of steam enthalpy is conservative in the calorimetric uncertainty calculation with your steam quality assumption.
- EICB-7: In page 2.4.4-7, Section I.5 "Out of Service Requirements," the licensee stated that allowed outage time [AOT] with the Cameron LEFM CheckPlus system out of service (OOS) will be 48 hours provided steady-state conditions persist. The licensee then described the LEFM CheckPlus system uncertainties under two conditions with LEFM system failure (with 0.46% and 0.5% uncertainties in page 2.4.4-9) and stated "If the 48-hour outage period is exceeded, then the plant will operate at a power level consistent with the accuracy of the alternate plant instruments" in page 2.4.4-10.
- a. Provide a list of all OOS conditions in detail.

- b. Clarify that you have same AOT (48 hours) with **all** OOS conditions, and will restrict plant power to less than or equal to 2968 MWt (98.30% of the proposed licensed power) if the plant experience a power change of greater than 10% during the 48-hour AOT period.
- c. Provide detail information (prefer with a table) with the proposed licensed power percentage and maximum MWt under each OOS condition after the 48-hour outage period is exceeded.

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