

PMLevyCOLPEm Resource

From: Habib, Donald
Sent: Thursday, May 07, 2015 11:10 AM
To: Kitchen, Robert (Robert.Kitchen@duke-energy.com); Waters, David (David.Waters2@duke-energy.com); larry.taylor@duke-energy.com; Wilkins, Tillie (tillie.wilkins@pgnmail.com)
Subject: Draft RAI 7843
Attachments: Draft RAI_7843.docx

To All,

Attached is draft RAI 7843 for the Levy Nuclear Plant Units 1 and 2 Combined License Application. If you would like to schedule a conference call to discuss this RAI, please let me know before Noon on Tuesday, May 12, 2015. If no request for a conference call is received, this RAI will be issued as final.

Thank you,

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From: Habib, Donald

Created By: Donald.Habib@nrc.gov

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Request for Additional Information

Issue Date:

Application Title: Levy County, Units 1 and 2 - Dockets 52-029 and 52-030

Operating Company: Duke Energy Florida

Review Section: 06.04 Control Room Habitability System

Application Section: 6.4

QUESTIONS

06-XX

Table 16.3.2 of the FSAR specifies Short Term Availability Controls (AC) 2.6 for long term cooling of the main control room (MRC). AC 2.6 specifies availability controls and surveillance requirements for the non-safety related MCR ancillary fans. As discussed in the Bases for the AC, the MCR ancillary fans are used to circulate ambient air through the MRC to provide cooling after 3 days following an accident. On page 8 of Enclosure 4 with your letter dated March 26, 2015 (Serial No. NPD-NRC-2015-003) you propose adding a new section (9.4.1.2.3.1) to the FSAR which states that the limits on temperature and humidity for which MCR ancillary fans must operate are shown in Figure 3D.5-1. Currently, Figure 3D.5-1 is incorporated into the FSAR by reference to the certified AP1000 design with no departures or supplements. However, it is stated on page 3 of Enclosure 4 with your letter dated March 26, 2015 (Serial No. NPD-NRC-2015-003) that FSAR Appendix 3D will be revised to add a departure from the certified design in which Figure 3D.5-1 is replaced by Figure 3D-201 (provided in Enclosure 4 to the above referenced letter) that contains revised limits on temperature and humidity for which MCR ancillary fans must operate. These two proposed changes to the FSAR are not consistent. Please clarify the temperature and humidity limits you are proposing for the MCR ancillary fans (those in Figure 3D.5-1 or those in Figure 3D-201).

The limits shown in Figure 3D-201 suggest that MCR conditions in the Post-72 period following an accident could reach 115°F dry bulb temperature with 35% relative humidity (RH). In this regard, please provide the following and include a reference to this information:

1. The analysis which shows maximum expected temperature and RH conditions in the MCR in the Post-72 period following an accident, including the assumed heat load and a description of the calculational model (including methods and assumptions)
2. The estimated stay time in the control room for operators to perform light work for the bounding temperature and humidity conditions and the technical bases for the estimate.