LevyCountyRAIsPEm Resource

From: Comar, Manny
Sent: Friday, December 18, 2009 12:29 PM
To: LevyCountyRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 077 RELATED TO SRP SECTION 19.0 FOR THE LEVY COUNTY NUCLEAR PLANT UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Attachments: LEVY-RAI-LTR-077_RAI_4031.doc

Hearing Identifier: Levy_County_COL_eRAIs
Email Number: 77

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Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 077 RELATED TO SRP SECTION 19.0 FOR THE LEVY COUNTY NUCLEAR PLANT UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Sent Date: 12/18/2009 12:29:18 PM
Received Date: 12/18/2009 12:29:20 PM
From: Comar, Manny

Created By: Manny.Comar@nrc.gov

Recipients:
"LevyCountyRAIsPEm Resource" <LevyCountyRAIsPEm.Resource@nrc.gov>
Tracking Status: None

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MESSAGE	8	12/18/2009 12:29:20 PM
LEVY-RAI-LTR-077_RAI_4031.doc	48634	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
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December 16, 2009

Mr. Garry Miller
General Manager, Nuclear Plant Development
Progress Energy Florida, Inc.
PO Box 1551
411 Fayetteville Street Mall
Raleigh, NC 27602

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 077 RELATED TO SRP SECTION 19.0 PROBABILISTIC RISK ASSESSMENT AND SEVERE ACCIDENT FOR THE LEVY COUNTY NUCLEAR PLANT UNITS 1 AND 2 COMBINED LICENSE APPLICATION

Dear Mr. Miller:

By letter dated July 28, 2008, as supplemented by a letter dated September 12, 2008, Progress Energy Florida, Inc. submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advanced passive pressurized water reactors pursuant to 10 CFR Part 52. The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 30 days of the date of this letter. If changes are needed to the final safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, you may contact me at 301-415-3863 or you may contact Brian Anderson, the lead project manager for the Levy County Nuclear Plant Units 1 and 2 combined license application at 301-415-9967.

Sincerely,

/**RA**/

Manny Comar, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-029
52-030

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-3863 or you may contact Brian Anderson, the lead project manager for the Levy County Nuclear Plant Units 1 and 2 combined license application at 301-415-9967.

Sincerely,

/**RA**/

Manny Comar, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-029
52-030

eRAI Tracking No. 4031
Enclosure:
Request for Additional Information

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NRO-002

OFFICE	SPLA/BC	NWE1/PM	NWE1/L-PM
NAME	LMrowca*	MComar*	BAnderson*
DATE	11/16/09	11/20/09	12/2/09

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 4031

12/16/2009

Levy County, Units 1 and 2
Progress Energy Florida, Inc.
Docket No. 52-029 and 52-030
SRP Section: 19 - Probabilistic Risk Assessment and Severe Accident Evaluation
Application Section: 19.58

QUESTIONS from PRA Licensing, Operations Support and Maintenance Branch 1 (AP1000/EPR Projects) (SPLA)

19-74

The staff requests that the applicant clarify the following responses to RAI 19-1 that were provided in FSAR Table 19.58-201:

a) For the Category 1 Hurricane event, the IEF in the AP1000 DCD is 1.0E-01, but in the Levy FSAR the IEF is 1.06E-01. Since this value is outside the AP1000 DCD bounded analysis, explain why this is acceptable and what other analyses were done to ensure that this is acceptable.

b) Per Levy FSAR Revision 1 Section 2.4.2.3, switchyard elevation is 47 feet, but Probable Maximum Precipitation (PMP) flood level is lowest in grading Zone E at 47.8 feet (Flood levels in all other zones are greater than 47.8 feet.). Explain how the “switchyard components are designed to be above the PMP flood level” (FSAR Table 19.58-201) when all grading zones, per Section 2.4.2.3, are greater than the 47 feet elevation level of the switchyard.

c) Provide the basis for how the IEFs for Probable Maximum Flood (PMF) on streams and rivers, seismically induced dam failure flooding, and probable maximum surge (due to Probable Maximum Hurricane (PMH)) and seiche flooding were determined.

d) Explain why a PMH total water elevation of 47.98 feet per FSAR Section 2.4.5.3.2 is acceptable when the switchyard elevation is 47 feet.