LevyCountyRAIsPEm Resource

From: Anderson, Brian
Sent: Monday, March 29, 2010 2:45 PM
To: LevyCountyRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 088 RELATED TO SRP SECTION 2.5.4 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Attachments: LNP-RAI-LTR-088.doc

Importance: High

Hearing Identifier: Levy_County_COL_eRAIs
Email Number: 88

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Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 088 RELATED TO SRP SECTION 2.5.4 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Sent Date: 3/29/2010 2:45:24 PM
Received Date: 3/29/2010 2:45:25 PM
From: Anderson, Brian

Created By: Brian.Anderson@nrc.gov

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

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	8	3/29/2010 2:45:25 PM
LNP-RAI-LTR-088.doc	57338	

Options
Priority: High
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

March 29, 2010

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. 088 RELATED TO SRP SECTION 2.5.4 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 301-415-9967.

Sincerely,

/**RA**/

Brian C. Anderson, Lead Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-029
52-030

eRAI Tracking No. 4500

Enclosure:
Request for Additional Information

If you have any questions or comments concerning this matter, you may contact me at 301-415-9967.

Sincerely,

/**RA**/

Brian C. Anderson, Lead Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-029
52-030

eRAI Tracking No. 4500

Enclosure:
Request for Additional Information

Distribution:

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NRO-002

OFFICE	RGS1/BC	NWE1/PM	NWE1/L-PM
NAME	CCook *	BAnderson *	BAnderson*
DATE	03/15/10	03/16/10	03/29/10

*Approval captured electronically in the electronic RAI system.

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Request for Additional Information
Levy County, Units 1 and 2
Progress Energy Florida, Inc.
Docket No. 52-029 and 52-030
SRP Section: 02.05.04 - Stability of Subsurface Materials and Foundations
Application Section: 2.5.4.5

QUESTIONS for Geosciences and Geotechnical Engineering Branch 1 (RGS1)

02.05.04-26

In your response to RAI 2.5.4-24 you indicate that 7 ft. of liquefiable Quaternary soils will be removed and replaced with engineered fill, and that the engineered fill will be used to raise the site grade to El. 51.0 ft. NAVD 88, such that 15 ft. of engineered fill will cap the soil column used in the liquefaction analysis. The engineered fill will underlie the Category 2 Annex Building, Turbine Building and Radwaste Building and surround the drilled piers that will support these buildings. The engineered fill will also cap the CLSM placed between the diaphragm walls and nuclear island sidewalls.

The FSAR provides limited information about the nature of the engineered fill overlying the CLSM. Therefore, the staff requests the following additional information as required by 10CFR100.23 and as outlined in the guidance provided in RG 1.206, RG 1.138, and RG 1.198.

a. Please provide the source, type, quantity and limits of engineered backfill to be placed.
b. Provide compaction specifications and engineering properties assumed for the proposed engineered backfill.
c. The shear wave velocity assumed in the revised liquefaction analysis seems high for a surface engineered fill. Justify the shear wave velocity of 1000 fps assumed for the engineered backfill in the liquefaction analysis.