PMLevyCOLPEm Resource

From: Anderson, Brian
Sent: Thursday, March 18, 2010 6:12 PM
To: 'robert.kitchen@pgnmail.com'; 'david.waters@pgnmail.com'; 'tillie.wilkins@pgnmail.com'
Cc: PMLevyCOLPEm Resource
Subject: RE: DRAFT RAI - SRP section 2.5.4 - Levy County Units 1 and 2 Combined License Application
Attachments: LNP Draft RAI 4500 - 2.5.4.doc

Importance: High

Attached is a draft RAI related to SRP section 2.5.4 for the Levy County Units 1 and 2 Combined License Application. Please let me know if you would like to schedule a conference call to discuss this RAI.

Thank you,
Brian

Brian Anderson
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Senior Project Manager, AP1000 Projects Branch 1
Office of New Reactors
U.S. Nuclear Regulatory Commission

Hearing Identifier: Levy_County_COL_Public
Email Number: 612

Mail Envelope Properties (B46615B367D1144982B324704E3BCEED21A8482022)

Subject: RE: DRAFT RAI - SRP section 2.5.4 - Levy County Units 1 and 2 Combined License Application
Sent Date: 3/18/2010 6:12:12 PM
Received Date: 3/18/2010 6:12:15 PM
From: Anderson, Brian

Created By: Brian.Anderson@nrc.gov

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Tracking Status: None
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Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	395	3/18/2010 6:12:15 PM
LNP Draft RAI 4500 - 2.5.4.doc	30202	

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

Request for Additional Information No. 4500
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-***

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.