

PMLevyCOLPEm Resource

From: Brian Anderson
Sent: Friday, May 15, 2009 11:37 AM
To: robert.kitchen@pgnmail.com; david.waters@pgnmail.com; tillie.wilkins@pgnmail.com; PMLevyCOLPEm Resource
Cc: Brian Anderson
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 037 RELATED TO SRP SECTION 2.4.2. FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Attachments: LNP RAI 037 - ML091350226.pdf
Importance: High

Attached is RAI Letter No. 037 related to SRP Section 2.4.2 for the Levy County Units 1 and 2 combined license application. The ADAMS Accession number is ML091350226.

Brian Anderson
301-415-9967
Lead Project Manager, AP1000 Projects Branch 1
Office of New Reactors
U.S. Nuclear Regulatory Commission

Hearing Identifier: Levy_County_COL_Public
Email Number: 122

Mail Envelope Properties (CB87FC66F95637428C5E0D066E756B6FC00015EFFC)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 037 RELATED TO SRP SECTION 2.4.2. FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Sent Date: 5/15/2009 11:37:14 AM
Received Date: 5/15/2009 11:37:16 AM
From: Brian Anderson

Created By: Brian.Anderson@nrc.gov

Recipients:

"Brian Anderson" <Brian.Anderson@nrc.gov>
Tracking Status: None
"robert.kitchen@pgnmail.com" <robert.kitchen@pgnmail.com>
Tracking Status: None
"david.waters@pgnmail.com" <david.waters@pgnmail.com>
Tracking Status: None
"tillie.wilkins@pgnmail.com" <tillie.wilkins@pgnmail.com>
Tracking Status: None
"PMLevyCOLPEm Resource" <PMLevyCOLPEm.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	326	5/15/2009 11:37:16 AM
LNP RAI 037 - ML091350226.pdf		154801

Options

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

LevyCountyRAIsPEm Resource

From: Brian Anderson
Sent: Friday, May 15, 2009 10:44 AM
To: LevyCountyRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 037 RELATED TO SRP SECTION 2.4.2 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Attachments: LNP-RAI-LTR-037.doc
Importance: High

Hearing Identifier: Levy_County_COL_eRAIs
Email Number: 38

Mail Envelope Properties (CB87FC66F95637428C5E0D066E756B6FC00015EF98)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 037 RELATED TO SRP SECTION 2.4.2 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Sent Date: 5/15/2009 10:44:00 AM
Received Date: 5/15/2009 10:44:03 AM
From: Brian Anderson

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	5/15/2009 10:44:03 AM
LNP-RAI-LTR-037.doc	61946	

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

May 15, 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. 037 RELATED TO
SRP SECTION 2.4.2 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. 2158

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. 2158

Enclosure:
Request for Additional Information

Distribution:

Public	SCoffin	TSimms	HJones
RidsNroDnrlNwe1	JSebrosky	SGoetz	NTiruneh
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RidsAcrsAcnw_MailCenter	CAraguas	SBrock	
RidsRgn2MailCenter	RJoshi	BAnderson	

NRO-002

OFFICE	RHEB/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	RRaione *	BAnderson *	JMartin*	BAnderson*
DATE	03/13/09	03/23/09	04/21/09	05/15/09

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

**Request for Additional Information
Levy County, Units 1 and 2
Progress Energy Florida, Inc.
Docket No. 52-029 and 52-030
SRP Section: 02.04.02 - Floods
Application Section: FSAR Section 2.4**

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.02-1

To meet the requirements of GDC 2, 10 CFR 52.17, and 10 CFR Part 100, the applicant should include information concerning design basis flooding at the plant site, including consideration of appropriate combinations of individual flooding mechanisms in addition to the most severe effects from individual mechanisms themselves. Please describe the process followed to determine the conceptual models for floods from local intense precipitation, probable maximum flood in the drainage area upstream of the site, surges, seiche, tsunami, seismically-induced dam failures, landslides, and ice effects to ensure that the design basis flood is based on the most conservative of plausible conceptual models.

02.04.02-2

To meet the requirements of GDC 2, 10 CFR 52.17 and 10 CFR Part 100, the applicant should include a determination of the capacity of site drainage facilities. Section 2.4.2.2 of the FSAR states "No dynamic water forces associated with high water levels will occur because of a higher finished plant grade. The dynamic forces associated with the probable maximum precipitation (PMP) are not factors in the analysis or design because the finished grade will be adequately sloped." Please clarify how sloping of the grade excludes consideration of dynamic forces in the analysis and design of safety-related SSC during the local PMF event or provide an analysis that shows safety-related SSC would be safe under the static and dynamic effects of the local PMF.

02.04.02-3

To meet the requirements of GDC 2, 10 CFR 52.17 and 10 CFR Part 100, the applicant should include a complete description of all spatial and temporal datasets used in support of its conclusions regarding safety of the plant. Data and descriptions should be sufficiently detailed to allow the staff to review the applicant's conclusions regarding the safety of the plant and to determine of the design bases of safety-related SSC. Please clarify if the stated site grade elevation of 51 ft NGVD29 is subject to change.

02.04.02-4

To meet the requirements of GDC 2, 10 CFR 52.17, and 10 CFR Part 100, please clarify (1) the description of the methodology used to estimate the times of concentration for each drainage zone, (2) the locations and characteristics of the broad-crested weirs, and (3) the estimated backwater profile from the broad-crested weirs to the safety-related SSCs.