

PMLevyCOLPEm Resource

From: Anderson, Brian
Sent: Friday, May 07, 2010 1:38 PM
To: robert.kitchen@pgnmail.com; david.waters@pgnmail.com; tillie.wilkins@pgnmail.com
Cc: PMLevyCOLPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 092 RELATED TO SRP SECTION 2.4.13 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Attachments: LNP RAI 092 - ML101270101.pdf
Importance: High

Attached is RAI Letter No. 092 related to SRP Section 2.4.13 for the Levy County Units 1 and 2 combined license application. The ADAMS Accession number is ML101270101.

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

Hearing Identifier: Levy_County_COL_Public
Email Number: 642

Mail Envelope Properties (B46615B367D1144982B324704E3BCEED21CE208A35)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 092 RELATED TO SRP SECTION 2.4.13 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Sent Date: 5/7/2010 1:38:21 PM
Received Date: 5/7/2010 1:38:49 PM
From: Anderson, Brian

Created By: Brian.Anderson@nrc.gov

Recipients:

"PMLevyCOLPEm Resource" <PMLevyCOLPEm.Resource@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

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	329	5/7/2010 1:38:49 PM
LNP RAI 092 - ML101270101.pdf		141397

Options

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

LevyCountyRAIsPEm Resource

From: Anderson, Brian
Sent: Friday, May 07, 2010 9:26 AM
To: LevyCountyRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 092 RELATED TO SRP SECTION 2.4.13 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Attachments: LNP-RAI-LTR-092.doc
Importance: High

Hearing Identifier: Levy_County_COL_eRAIs
Email Number: 92

Mail Envelope Properties (FD7C4204A01F6A4B9272CCA467DB3D037C91923303)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 092 RELATED TO SRP SECTION 2.4.13 FOR THE LEVY COUNTY UNITS 1 AND 2 COMBINED LICENSE APPLICATION
Sent Date: 5/7/2010 9:26:00 AM
Received Date: 5/7/2010 9:26:01 AM
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	6	5/7/2010 9:26:01 AM
LNP-RAI-LTR-092.doc	60410	

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

May 7, 2010

Mr. John Elnitsky
Vice President, Nuclear Plant Development
Progress Energy Florida, Inc.
P.O. Box 14042
Saint Petersburg, FL 33733

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 092 RELATED TO
SRP SECTION 2.4.13 FOR THE LEVY COUNTY NUCLEAR PLANT, UNITS 1
and 2 COMBINED LICENSE APPLICATION

Dear Mr. Elnitsky:

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

Docket Nos. 52-029
52-030

eRAI Tracking No. 4631

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

Docket Nos. 52-029
52-030

eRAI Tracking No. 4631

Enclosure:
Request for Additional Information

Distribution:

Public	JCruz	TSimms	HJones
RidsNroDnrlNwe1	JSebrosky	SGoetz	NTiruneh
RidsNroLAKGoldstein	BHughes	DHabib	MMcBride
RidsOgcMailCenter	MComar	JMartin	RRaione
RidsAcrsAcnw_MailCenter	DMcGovern	TSpicher	
RidsRgn2MailCenter	RJoshi	BAnderson	

NRO-002

OFFICE	RHEB/BC	NWE1/PM	NWE1/L-PM
NAME	RRaione *	BAnderson *	BAnderson*
DATE	04/12/10	04/23/10	05/07/10

*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: 02.04.13 - Accidental Releases of Radioactive Liquid
Effluents in Ground and Surface Waters
Application Section: FSAR Section 2.4

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.13-12

FSAR section 2.4.12.1.2 states that "Based on limited downhole geophysical testing and monitoring of drilling fluid losses at the LNP site, the most productive interval of the Upper Floridan aquifer appears to be at depths of approximately 30 to 60 m (100 to 300 ft.) bgs." 60 m would be equivalent to about 200 ft. Clarify this apparent discrepancy regarding the depth of the most productive interval of the Upper Floridan aquifer.

02.04.13-13

Provide a discussion of the degree of conservatism in the transport analysis included in FSAR Section 2.4.13, including discussion of the following.

1. The hydraulic conductivity value applied in the transport analysis as addressed in RAI 2.4.12-22.
2. The effective porosity values applied in the transport analysis as addressed in RAI 2.4.12-23.
3. The assumption that the released contamination is evenly distributed over an aquifer thickness of 250 ft. Clarify the value of aquifer thickness used in the calculations by including it in FSAR Table 2.4.13-203.
4. The groundwater head gradient applied in the transport analysis, considering that a more conservative value for the groundwater gradient than that used in the transport analysis is indicated by the baseline 2007 potentiometric surface map for the Upper Floridan aquifer presented in the recalibrated version of the DWRM2 groundwater flow model (|TMEM-123|). This potentiometric map is based on a more extensive well network that includes LNP site wells.