

LeeRAIsPEm Resource

From: Brian Hughes
Sent: Wednesday, October 22, 2008 9:50 AM
To: LeeRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 042 RELATED TO SRP
SECTION 01 FOR THE WILLIAM STATES LEE III UNITS 1 AND 2 COMBINED LICENSE
APPLICATION
Attachments: LEE-RAI-LTR-042.doc

Hearing Identifier: Lee_COL_RAI
Email Number: 49

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Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 042 RELATED TO
SRP SECTION 01 FOR THE WILLIAM STATES LEE III UNITS 1 AND 2 COMBINED LICENSE
APPLICATION

Sent Date: 10/22/2008 9:50:07 AM

Received Date: 10/22/2008 9:50:08 AM

From: Brian Hughes

Created By: Brian.Hughes@nrc.gov

Recipients:

"LeeRAIsPEm Resource" <LeeRAIsPEm.Resource@nrc.gov>

Tracking Status: None

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MESSAGE	38	10/22/2008 9:50:08 AM
LEE-RAI-LTR-042.doc	52730	

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

P.Hastings

October 21, 2008

Mr. Peter S. Hastings, P.E.
Licensing Manager, Nuclear Plant Development
Duke Energy
526 South Church Street
Charlotte, NC 28201-1006

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 042 RELATED TO
SRP SECTION 01 FOR THE WILLIAM STATES LEE III UNITS 1 AND 2
COMBINED LICENSE APPLICATION

Dear Mr. Hastings:

By letter dated December 12, 2007, as supplemented by letters dated January 28, 2008, February 6, 2008 and February 8, 2008, Duke Energy submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advance 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.

P.Hastings

If you have any questions or comments concerning this matter, you may contact me at 301-415-6582.

Sincerely,

/RA/

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

Docket Nos. 52-018
52-019

Enclosure:
Request for Additional Information

CC: see next page

P.Hastings

If you have any questions or comments concerning this matter, you may contact me at 301-415-6582.

Sincerely,

/RA/

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

Docket Nos. 52-018
52-019

eRAI Tracking No. 777

Enclosure:
Request for Additional Information

Distribution:

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NRO-002

OFFICE	NWE1/BC	NWE1	OGC	NWE1/L-PM
NAME	CMunson	GStirewalt	SBrock*	BHughes*
DATE	9/10/08	7/17/08	10/03/08	10/21/08

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Request for Additional Information No. 777 Revision 0

10/21/2008

William States Lee III, Units 1 and 2
Duke Energy Carolinas, LLC
Docket No. 52-018 and 52-019
SRP Section: 01 - Introduction and Interfaces
Application Section: 2.5.2

QUESTIONS for AP1000 Projects Branch 1 (NWE1)

01-3

FSAR Section 2.5.2.5 describes the Lee Nuclear Site as a hard rock site located on igneous and metamorphic rocks of Paleozoic age with the majority of the shear wave velocity measurements exceeding 9,200 ft/sec. Therefore, the GMRS is determined directly, without a site response analysis (FSAR Section 2.5.2.5, p. 2.5-122 and 123). The shear wave velocity profile shown in FSAR Figure 2.5.4-249 (NW corner of Unit 1) demonstrates that the shear-wave velocity is less than 5,500 ft/sec in the upper ~40 ft. This velocity profile also demonstrates a high impedance contrast between the upper and lower layers at a depth of about 82 ft below the yard grade. The other shear wave velocity profile near Unit 1 also shows velocities lower than 9,200 ft/sec. Please provide the basis for your decision not to do a site response analysis in consideration of these shear wave velocities less than 9,200 ft/sec.