

## LeeRAIsPEm Resource

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**From:** Brian Anderson  
**Sent:** Monday, August 11, 2008 4:01 PM  
**To:** LeeRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 003 RELATED TO SRP SECTION 10.04.05 FOR THE WILLIAM STATES LEE III UNITS 1 AND 2 COMBINED LICENSE APPLICATION  
**Attachments:** LEE-RAI-LTR-003.doc  
**Importance:** High

**Hearing Identifier:** Lee\_COL\_RAI  
**Email Number:** 3

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**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 003 RELATED TO SRP SECTION 10.04.05 FOR THE WILLIAM STATES LEE III UNITS 1 AND 2 COMBINED LICENSE APPLICATION

**Sent Date:** 8/11/2008 4:00:59 PM

**Received Date:** 8/11/2008 4:01:24 PM

**From:** Brian Anderson

**Created By:** Brian.Anderson@nrc.gov

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

**Post Office:** HQCLSTR01.nrc.gov

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LEE-RAI-LTR-003.doc	51706	

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

August 11, 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. 003 RELATED TO  
SRP SECTION 10.04.05 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.

If you have any questions or comments concerning this matter, you may contact me at 301-415-9967 or you may contact Brian Hughes, the lead project manager for the William States Lee III combined license at 301-415-6582.

Sincerely,

**/RA/**

Brian C. Anderson, 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

If you have any questions or comments concerning this matter, you may contact me at 301-415-9967 or you may contact Brian Hughes, the lead project manager for the William States Lee III combined license at 301-415-6582.

Sincerely,

**/RA/**

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

Docket Nos. 52-018  
52-019

eRAI Tracking No. 484

Enclosure:  
Request for Additional Information

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NRO-002

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NAME	JSegala*	BAnderson*	SBrock*	BHughes*
DATE	6/16/08	7/01/08	7/08/08	8/11/08

\*Approval captured electronically in the electronic RAI system.

**OFFICIAL RECORD COPY**

**Request for Additional Information**  
**William States Lee III Nuclear Station Units 1 and 2**  
**Duke Energy Carolinas, LLC**  
**Docket No. 52-018 and 52-019**  
**SRP Section: 10.04.05 - Circulating Water System**  
**Application Section: 10.4.5 - Circulating Water system**

**QUESTION from Balance of Plant Branch 1**

10.04.05-2

In FSAR Section 10.4.5.2.2, the applicant stated that little or no water would reach the plant from a cooling tower basin wall breach due to the remote location of the tower and the grading of the site. However, the staff could not find any further details regarding the location and proximity of the mechanical draft cooling towers with respect to the plant and safety-related equipment. Regarding the circulating water system (CWS), the regulatory basis for acceptance of COL Information Item 10.4-1 (COL Action Item 10.5-3) is established in General Design Criterion (GDC 4), "Environmental and Dynamic Effects Design Bases," as it relates to design provisions to accommodate the effects of discharging water that may result from a failure of a component or piping in the CWS. In addition, Item 1.A of SRP Acceptance Criteria in SRP Section 10.4.5, "Circulating Water System," states that means should be provided to prevent or detect and control flooding of safety-related areas so that the intended safety function of a system or component will not be precluded due to leakage from the CWS.

Therefore, the staff requests additional information regarding the effects of cooling tower failure on safety-related equipment and structures of the plant. Please provide clarification and/or additional information regarding the location of the cooling towers with respect to the plant and confirm that failure of these towers will not affect the structures, systems, or components that perform or support a safety-related function.