

## PMLeeCol PEmails

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**From:** Tanya Simms  
**Sent:** Thursday, August 28, 2008 3:35 PM  
**To:** 'Hastings, Peter S'; 'Nolan, Chris'; 'Bowling, Theodore J'; 'Lee Nuclear'  
**Cc:** Brian Hughes; PMLeeCol PEmails  
**Subject:** RAI Letter No. 008 Related SRP Section 9.2.1 for Lee Units 1 and 2  
**Attachments:** LEE-RAI-LTR-008.pdf

To All,

Attached is RAI Letter No. 008 Related SRP Section 9.2.1 for Lee Units 1 and 2. The ADAMS accession number is ML082410291.

Tanya Simms  
Project Manager  
New Reactor Licensing  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, Maryland 20852-2738  
301-415-1387  
[Tanya.Simms@nrc.gov](mailto:Tanya.Simms@nrc.gov)

**Hearing Identifier:** Lee\_COL\_Public\_EX  
**Email Number:** 103

**Mail Envelope Properties** (C4A4C9A16294FB4CBA5A36312D05FFAC0ABB85A283)

**Subject:** RAI Letter No. 008 Related SRP Section 9.2.1 for Lee Units 1 and 2  
**Sent Date:** 8/28/2008 3:34:40 PM  
**Received Date:** 8/28/2008 3:34:42 PM  
**From:** Tanya Simms

**Created By:** Tanya.Simms@nrc.gov

**Recipients:**

"Brian Hughes" <Brian.Hughes@nrc.gov>  
Tracking Status: None  
"PMLeeCol PEmails" <PMLeeCol.PEmails@nrc.gov>  
Tracking Status: None  
"Hastings, Peter S" <pshastings@duke-energy.com>  
Tracking Status: None  
"Nolan, Chris" <mcnolan@duke-energy.com>  
Tracking Status: None  
"Bowling, Theodore J" <tjbowling@duke-energy.com>  
Tracking Status: None  
"Lee Nuclear" <leenuclear@duke-energy.com>  
Tracking Status: None

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	401	8/28/2008 3:34:42 PM
LEE-RAI-LTR-008.pdf	126312	

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** Yes  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

## LeeRAIsPEm Resource

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**From:** Tanya Simms  
**Sent:** Thursday, August 28, 2008 12:00 PM  
**To:** LeeRAIsPEm Resource  
**Subject:** Request for Additional Information Letter No. 008 Related to SRP Section 09.02.01 for the William States Lee III Units 1 and 2 Combined License Application  
**Attachments:** LEE-RAI-LTR-008.doc

**Hearing Identifier:** Lee\_COL\_RAI  
**Email Number:** 10

**Mail Envelope Properties** (C4A4C9A16294FB4CBA5A36312D05FFAC0ABB859D91)

**Subject:** Request for Additional Information Letter No. 008 Related to SRP Section 09.02.01 for the William States Lee III Units 1 and 2 Combined License Application  
**Sent Date:** 8/28/2008 11:59:40 AM  
**Received Date:** 8/28/2008 11:59:41 AM  
**From:** Tanya Simms

**Created By:** Tanya.Simms@nrc.gov

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

**Post Office:** HQCLSTR02.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	3	8/28/2008 11:59:41 AM
LEE-RAI-LTR-008.doc	50170	

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

August 28, 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. 008 RELATED TO  
SRP SECTION 09.02.01 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.

If you have any questions or comments concerning this matter, you may contact me at 301-415-1387 or you may contact Brian Hughes, the lead project manager for the William States Lee III combined license at 301-415-6582.

Sincerely,

**/RA/**

Tanya Simms, 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 301-415-1387 or you may contact Brian Hughes, the lead project manager for the William States Lee III combined license at 301-415-6582.

Sincerely,

**/RA/**

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

Docket Nos. 52-018  
52-019

eRAI Tracking No. 741  
Enclosure:  
Request for Additional Information

Distribution:

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NRO-002

OFFICE	SBPA/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	JSegala*	TSimms*	SBrock*	BHughes*
DATE	7/15/08	7/15/08	8/08/08	8/28/08

\*Approval captured electronically in the electronic RAI system.

**OFFICIAL RECORD COPY**

**Request for Additional Information No. 741 Revision 1  
William States Lee III Nuclear Station Units 1 and 2  
Duke Energy Carolinas, LLC  
Docket No. 52-018 and 52-019  
SRP Section: 01 - Introduction and Interfaces  
Application Section: 9.2.1**

**QUESTION from Balance of Plant Branch 1 (AP1000/EPR Projects) (SBPA)**

01-2

The cooling capability of the SWS mechanical draft cooling towers for the Lee units can be adversely affected by interactions that exist between the two mechanical draft cooling towers. Adverse interactions can occur due to localized atmospheric influences caused by siting considerations, the locations of major structures, the locations of the mechanical draft cooling towers, mechanical draft cooling tower fan speed, and wind effects. Because AP1000 has only one mechanical draft cooling tower in its design, interaction effects between the mechanical draft cooling towers of multi-unit sites was not evaluated by the staff for AP1000. Therefore, additional information is needed to address potential adverse interactions between the mechanical draft cooling towers for the two Lee units and the FSAR needs to be revised accordingly to reflect this additional information.