

PMHarrisCOL PEmails

From: Brian Anderson
Sent: Monday, February 02, 2009 4:59 PM
To: robert.kitchen@pgnmail.com; david.waters@pgnmail.com; tillie.wilkins@pgnmail.com; PMHarrisCOL PEmails
Cc: Manny Comar; Brian Anderson
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 053 RELATED TO SRP SECTION 13.3 FOR THE SHEARON HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION
Attachments: HAR RAI 053 - ML090330792.pdf
Importance: High

Attached is RAI Letter No. 053 related to SRP Section 13.3 for the Shearon Harris Units 2 and 3 combined license application. The ADAMS Accession number is ML090330792.

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

Hearing Identifier: ShearonHarris_COL_Public
Email Number: 345

Mail Envelope Properties (CB87FC66F95637428C5E0D066E756B6F99380B335B)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 053 RELATED TO SRP SECTION 13.3 FOR THE SHEARON HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION

Sent Date: 2/2/2009 4:58:45 PM

Received Date: 2/2/2009 4:58:48 PM

From: Brian Anderson

Created By: Brian.Anderson@nrc.gov

Recipients:

"Manny Comar" <Manny.Comar@nrc.gov>

Tracking Status: None

"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

"PMHarrisCOL PEmails" <PMHarrisCOL.PEmails@nrc.gov>

Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	323	2/2/2009 4:58:48 PM
HAR RAI 053 - ML090330792.pdf		156361

Options

Priority: High

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

HarrisRAIsPEm Resource

From: Brian Anderson
Sent: Monday, February 02, 2009 4:43 PM
To: HarrisRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 053 RELATED TO SRP SECTION 13.3 FOR THE SHEARON HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION
Attachments: HAR-RAI-LTR-053.doc
Importance: High

Hearing Identifier: HarrisCOL_eRAIs
Email Number: 56

Mail Envelope Properties (CB87FC66F95637428C5E0D066E756B6F99380B333E)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 053 RELATED TO SRP SECTION 13.3 FOR THE SHEARON HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION

Sent Date: 2/2/2009 4:42:39 PM

Received Date: 2/2/2009 4:42:41 PM

From: Brian Anderson

Created By: Brian.Anderson@nrc.gov

Recipients:

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

Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	Size	Date & Time
MESSAGE	8	2/2/2009 4:42:41 PM
HAR-RAI-LTR-053.doc	53242	

Options

Priority: High

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

February 2, 2009

James Scarola
Senior Vice President and
Chief Nuclear Officer
PO Box 1551
411 Fayetteville Street Mall
Raleigh NC 27602

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 053 RELATED TO
SRP SECTION 13.3 FOR THE SHEARON HARRIS UNITS 2 AND 3 COMBINED
LICENSE APPLICATION

Dear Mr. Scarola:

By letter dated February 18, 2008, Progress Energy 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 or you may contact Manny Comar, the lead project manager for the Harris combined license at 301-415-3863.

Sincerely,

/RA/

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

Docket Nos. 52-022
52-023

eRAI Tracking No. 1697

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 Manny Comar, the lead project manager for the Harris combined license at 301-415-3863.

Sincerely,

/RA/

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

Docket Nos. 52-022
52-023

eRAI Tracking No. 1697

Enclosure:
Request for Additional Information

Distribution:

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RidsNroDnrlNwe2	AGendelman	

NRO-002

OFFICE	LIB/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	KWilliams*	BAnderson*	AGendelman*	MComar*
DATE	12/01/08	12/12/08	01/12/09	02/02/09

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

**Request for Additional Information
Shearon Harris Units 2 and 3
Progress Energy Carolinas, Inc.
Docket No. 52-022 and 52-023
SRP Section: 13.03 - Emergency Planning
Application Section: Part 5: Emergency Planning**

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

13.03-77

Emergency Action Levels (EALs)

EALs are discussed in Section D, "Emergency Classification System," of the application, Part 5

Initial EALs, which are required by 10 CFR 50.47(b)(4) and Section IV.B of Appendix E to 10 CFR Part 50, must be approved by the NRC. The Shearon Harris combined license (COL) application does not fully address certain aspects of the required EAL scheme. This is because various equipment set points and other information cannot be determined until the as-built information is available; e.g., head corrections, radiation shine, final technical specifications, and equipment calculations and tolerances. The NRC has been evaluating possible options to ensure applicants address the regulations. The NRC is presenting the applicant with two options to satisfy its EAL obligations:

Option 1 – Submit an entire EAL scheme, which contains all site-specific information, including set points. Until this information is finalized, EALs would remain an open item.

Option 2 – Submit emergency plan Section D, "Emergency Classification System," which addresses the four critical elements of an EAL scheme (listed below). The NRC will determine the acceptability of the EAL scheme.

- *Critical Element 1* – Applicant proposes an overview of its emergency action level scheme including defining the four emergency classification levels, (Notification of Unusual Event, Alert, Site Area Emergency, and General Emergency), as stated in NEI 99-01, Revision 5, with a general list of licensee actions at each emergency classification level.
- *Critical Element 2* – Applicant proposes to develop the remainder of its EAL scheme by using a specified NRC endorsed guidance document. In the development of its EALs, the proposed EALs should be developed with few or no deviations or differences from NRC guidance, other than those attributable to the specific reactor design. NEI 07-01, if endorsed, will be applicable to the AP1000 and ESBWR (passive) reactor designs, and NEI 99-01 is applicable to all (non-passive) reactor designs. If applicable, EALs related to digital instrumentation and control must be included. The NRC must find in its Safety Evaluation Report that this approach is acceptable for each site.
- *Critical Element 3* – Applicant proposes a License Condition (LC) that the applicant will create a fully developed set of EALs in accordance with the specified guidance document. These fully developed EALs must be submitted to the NRC for confirmation at least 180 days prior to fuel load.

- *Critical Element 4* – The EALs must be kept in a document controlled by 10 CFR 50.54(q), such as the emergency plan, or a lower tier document, such as the Emergency Plan Implementing Procedures.

Please review the two options provided above, identify which option will be chosen, and provide the detailed EAL information in support of the chosen option.