

HarrisRAIsPEm Resource

From: Minarik, Anthony
Sent: Tuesday, October 19, 2010 11:22 AM
To: HarrisRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO.075 RELATED TO THE SRP SECTION 13.03 FOR THE SHEARON HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION
Attachments: HAR-RAI-LTR-075.docx

Anthony "Tony" Minarik
NRO/DNRL/NWE1
301-415-6185
Normal Hours: 0615-1600

Hearing Identifier: HarrisCOL_eRAIs
Email Number: 80

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Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO.075 RELATED TO THE SRP SECTION 13.03 FOR THE SHEARON HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION

Sent Date: 10/19/2010 11:22:12 AM

Received Date: 10/19/2010 11:22:13 AM

From: Minarik, Anthony

Created By: Anthony.Minarik@nrc.gov

Recipients:

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

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Reply Requested: No

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Expiration Date:

Recipients Received:

October 19, 2010

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO.075 RELATED
 TO THE SRP SECTION 13.03 FOR THE SHEARON HARRIS UNITS 2 AND 3
 COMBINED LICENSE APPLICATION

Dear Mr. Elnitsky:

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 safety analysis report, the staff requests that the RAI response include the proposed wording changes.

Mr. Elnitsky

If you have any questions or comments concerning this matter, you may contact me at 301-415-6185 or Anthony.Minarik@nrc.gov, or you may contact Brian Hughes at 301-415-6582 or Brian.Hughes@nrc.gov.

Sincerely,

/RA/

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

Docket Nos. 52-022
52-023

eRAI Tracking No: 4467

Enclosure:
Request for Additional Information

Mr. Elnitsky

If you have any questions or comments concerning this matter, you may contact me at 301-415-6185 or Anthony.Minarik@nrc.gov, or you may contact Brian Hughes at 301-415-6582 or Brian.Hughes@nrc.gov.

Sincerely,

/RA/

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

Docket Nos. 52-022
52-023
eRAI Tracking No: 4467

Enclosure:
Request for Additional Information

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NAME	ERobinson	KWilliams	AMinarik	KRoach	BHughes
DATE	03/11/10	03/15/10	10/13/10	07/19/10	10/13/10

*Approval captured electronically in the electronic RAI system.

OFFICIAL RECORD COPY

Shearon Harris
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)

13.03-88

Subject: Emergency Facilities and Equipment

[Basis: 10 CFR 50.47(b)(8); 10 CFR 50, Appendix E; NUREG-0800, Chapter 13.3, SRP Acceptance Criteria: 1, 2, 4, 5, and 12]

In Section H of the HNP Emergency Plan, the applicant states that the unit-specific information for emergency facilities and equipment is described in Annex 1, Section 4 and Annex 2, Section 4. However, upon the staff's review, the unit specific information for the Emergency Plan facilities is contained in Section 3 of Annex 1 and 2. Clarify in the emergency plan where the emergency facilities and equipment unit-specific information is located.

13.03-89

Subject: Hostile Action Considerations

[Basis: 10 CFR 50.47; Appendix E to 10 CFR 50; Regulatory Guide 1.206, Section C.I.13.3.1; NUREG-0800, Chapter 13.3, SRP Acceptance Criteria: 1, 2, and 30]

Based on 10 CFR 50, Regulatory Guide 1.206 requests that applicants for a combined license address the NRC orders issued February 25, 2002, as well as any subsequent NRC guidance, to determine what security-related aspects of emergency planning and preparedness are addressed in the emergency plan. NRC Bulletin 2005-02, "Emergency Preparedness and Response Actions for Security-Based Events," provides guidance for identifying alternative facilities to support emergency response organization augmentation during hostile-action events. Describe in the emergency plan, or provide reference to where this information is contained, an alternative facility to support rapid response to a hostile-action event, or provide justification as to why this information is not necessary. As stated in BL 2005-02, the alternative facility should include the following characteristics:

- Accessibility even if the site is under threat or attack;
- Communication links with the emergency operations facility, control room, and security;
- Capability to notify offsite response organizations if the emergency operations facility is not performing this action;
- Capability for engineering and damage control teams to begin planning mitigative actions (e.g., general drawings and system information)

13.03-90

Subject: Hostile Action Considerations

[Basis: 10 CFR 50.47; Appendix E to 10 CFR 50; Regulatory Guide 1.206, Section C.I.13.3.1; NUREG-0800, Chapter 13.3, SRP Acceptance Criteria: 1, 2, and 30]

Based on 10 CFR 50, Regulatory Guide 1.206 requests that applicants for a combined license address the NRC orders issued February 25, 2002, as well as any subsequent NRC guidance, to determine what security-related aspects of emergency planning and preparedness are addressed in the emergency plan. NRC Bulletin 2005-02, "Emergency Preparedness and Response Actions for Security-Based Events," provides guidance for onsite protective measures for site workers during hostile-action events. Describe in the emergency plan, or provide reference to where this information is contained, specific provisions to protect onsite emergency responders and personnel, in emergencies resulting from hostile-action events, or provide justification as to why this information is not necessary. As stated in BL 2005-02, these provisions may include:

- Evacuation of personnel from target buildings (including security personnel);
- Site evacuation by opening security gates (while continuing to defend);
- Dispersal of licensed operators;
- Sheltering of personnel in structures away from potential site targets;
- Arrangements for accounting for personnel after the attack;

13.03-91

Subject: Evacuation Time Estimate

[Basis: 10 CFR 52.79(a)(21); 10 CFR 50.47(b)(10); Section IV of Appendix E to 10 CFR Part 50; NUREG-0800, Chapter 13.3, SRP Acceptance Criteria: Requirements A, B, and E and Acceptance Criterion 11; NUREG-0654/FEMA-REP-1, Rev.1, Evaluation Criterion J.8 and Appendix 4]

In RAI 13.03-05, the staff requested that the applicant discuss the basis for using 26 percent for households awaiting the return of a commuter. In response, the applicant acknowledged that the percent of households referenced was incorrect in the original ETE report and "26 percent of households" will be changed to "39 percent of households" on page 2-4 of the revised ETE Report. Page 2-4 of Revision 3 of the ETE Report states, "It is conservatively estimated that 68 percent of households in the EPZ have at least one commuter, and will await the return of the commuter before beginning their evacuation trip..." The basis for the estimated 68% awaiting the return of a commuter could not be identified. Appendix F does identify at least 68% of household as having at one or more commuters, however page F-7 states that 57 % of those household would await the return of commuters and 43% would not. Provide clarification regarding the percentage of households that would await the return of a commuter before evacuating.