PMHarrisCOL PEmails

From: Ravindra Joshi
Sent: Wednesday, October 15, 2008 8:34 AM
To: David Waters; Robert Kitchen (robert.kitchen@pgnmail.com); Tillie Wilkins
Cc: HarrisCOL Resource
Subject: RAI letter No. 031 related to SRP section 6.4 for Harris Units 2 and 3
Attachments: HAR-RAI-LTR-031.pdf

To All,

Attached is RAI letter No.31 related to SRP Section 6.4 for the Harris Units 2 and 3. The ADAMS Accession number is ML082890019.

Ravi Joshi
Project Manager
NRO/DNRL/NWE1
US NRC
301-415-6191

Hearing Identifier: ShearonHarris_COL_Public
Email Number: 176

Mail Envelope Properties (CEEA97CC21430049B821E684512F6E5EAA3063FC6F)

Subject: RAI letter No. 031 related to SRP section 6.4 for Harris Units 2 and 3
Sent Date: 10/15/2008 8:34:07 AM
Received Date: 10/15/2008 8:34:08 AM
From: Ravindra Joshi

Created By: Ravindra.Joshi@nrc.gov

Recipients:
"HarrisCOL Resource" <HarrisCOL.Resource@nrc.gov>
Tracking Status: None
"David Waters" <david.waters@pgnmail.com>
Tracking Status: None
"Robert Kitchen (robert.kitchen@pgnmail.com)" <robert.kitchen@pgnmail.com>
Tracking Status: None
"Tillie Wilkins" <tillie.wilkins@pgnmail.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	232	10/15/2008 8:34:08 AM
HAR-RAI-LTR-031.pdf	127719	

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

HarrisRAIsPEm Resource

From: Ravindra Joshi
Sent: Wednesday, October 15, 2008 7:31 AM
To: HarrisRAIsPEm Resource
Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 031 RELATED TO SRP SECTION 6.4 FOR THE HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION
Attachments: HAR-RAI-LTR-031.doc

Hearing Identifier: HarrisCOL_eRAIs
Email Number: 30

Mail Envelope Properties (CEEA97CC21430049B821E684512F6E5EAA3063FB51)

Subject: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 031 RELATED TO SRP SECTION 6.4 FOR THE HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION
Sent Date: 10/15/2008 7:30:50 AM
Received Date: 10/15/2008 7:30:51 AM
From: Ravindra Joshi

Created By: Ravindra.Joshi@nrc.gov

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

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	3	10/15/2008 7:30:51 AM
HAR-RAI-LTR-031.doc	54778	

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

October 15, 2008

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. 031 RELATED TO SRP SECTION 6.4 FOR THE 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 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 301-415-6191 or you may contact Manny Comar, the lead project manager for the Harris combined license at 301-415-3863.

Sincerely,

/**RA**/

Ravindra G. Joshi, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-022
52-023

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-6191 or you may contact Manny Comar, the lead project manager for the Harris combined license at 301-415-3863.

Sincerely,

/**RA**/

Ravindra G. Joshi, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-022
52-023
ERAI Tracking No. 1349

Enclosure:
Request for Additional Information

Distribution:

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NRO-002

OFFICE	SPCV/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	CJackson *	RJoshi*	SBrock*	MComar*
DATE	9/26/08	9/29/08	10/03/08	10/03/08

*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: 6.04 – Control Room Habitability System
Application Section: Section 6.4

QUESTIONS from Containment and Ventilation Branch 1 (AP1000/EPR Projects) (SPCV)

06.04-3

a. DCD COL Item 6.4-1,"Local Hazardous Gas Services and Monitoring", states, "Combined License applicant's referencing the AP1000 certified design are responsible for the amount and location of possible sources of hazardous chemicals in or near the plant and for seismic Category I Class 1E hazardous chemical monitoring as required." Harris FSAR section 6.4.4.2, "Toxic Chemical Habitability Analysis", does not address COL Item 6.4-1in detail; instead it refers to FSAR section 2.2.3 for the toxic chemical habitability analysis. Section 2.2.3 refers to Sections 2.2.1 and 2.2.2 for toxic chemical data. Section 2.2.2.2 states that materials stored on-site at HNP are described in section 6.4 of the Unit 1 FSAR. Chemicals stored on-site for HAR are described in DCD Table 6.4-1. Based on the above, the applicant has not addressed COL item 6.4-1adequately.

Of the Westinghouse AP1000 suggested chemicals listed in DCD Table 6.4-1 and other site specific chemicals, provide the details of the amounts used and the locations considered in addressing the potential control room habitability impacts.

Provide the details of the site specific hazardous chemicals that are stored within 0.3 miles of the control room in a quantity greater than 100 lbs. In the response, address how Control Room Habitability was evaluated.

b. The capability of the control room habitability systems to maintain a suitable environment for prolonged occupancy throughout the toxic gas release, as well as the other events in Chapter 15 is based on the AP1000 assumption of a maximum of 11 operators in the control room. Do plant procedures specify the maximum number of operators allowed in the control room when the habitability systems are intended to protect the control room occupants?

During a postulated toxic gas emergency, the control room operators have the option of manually actuating the emergency habitability system as described in the AP1000 DCD. What guidance does Harris provide to the Operators, during a postulated hazardous chemical release scenario, to exercise this option or other protective measures?

Since it appears no chemical detection instruments are available, the operators will rely on using their sense of smell to detect hazardous chemicals. Please specify what actions will occur if a postulated hazardous chemical concentration in the control room is at or above the odor detection threshold. What response is expected by the Operators? Explain how this response assures protection for the operator against postulated chemical releases.