

## HarrisRAIsPEm Resource

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**From:** Comar, Manny  
**Sent:** Thursday, May 24, 2012 3:29 PM  
**To:** HarrisRAIsPEm Resource  
**Subject:** RAI LETTER 82 CONCERNING IMPLEMENTATION OF FUKUSHIMA TASK FORCE  
RECOMMENDATIONS FOR SHEARSON HARRIS UNIT 2 & 3 COLA  
**Attachments:** HAR-RAI-LTR-082.doc

**Hearing Identifier:** HarrisCOL\_eRAIs  
**Email Number:** 87

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**Subject:** RAI LETTER 82 CONCERNING IMPLEMENTATION OF FUKUSHIMA TASK  
FORCE RECOMMENDATIONS FOR SHEARSON HARRIS UNIT 2 & 3 COLA  
**Sent Date:** 5/24/2012 3:29:13 PM  
**Received Date:** 5/24/2012 3:29:12 PM  
**From:** Comar, Manny

**Created By:** Manny.Comar@nrc.gov

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

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

May 24, 2012

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. 82 CONCERNING  
IMPLEMENTATION OF FUKUSHIMA NEAR-TERM TASK FORCE  
RECOMMENDATIONS FOR THE SHEARON HARRIS UNITS 2 AND 3  
COMBINED LICENSE APPLICATION

Dear Mr. Elnitsky:

The U.S. Nuclear Regulatory Commission (NRC) staff is preparing to implement some of the Fukushima Near-Term Task Force recommendations, as described in SECY-12-0025, "Proposed Orders and Requests for Information in Response to Lessons Learned from Japan's March 11, 2011, Great Tohoku Earthquake and Tsunami" dated February 17, 2012. In SECY-12-0025, the staff proposed requiring new reactors to comply with certain Fukushima recommendations prior to licensing. On March 9, 2012, the Commission approved, with certain modifications, the recommendations of SECY-12-0025 in SRM-12-0025. Accordingly, the staff is requesting additional information that describes how Progress Energy Carolinas, Inc have addressed (or plan to address) the actions in SECY-12-0025 that were approved by SRM-12-0025 and subsequent modifications and orders by the Commission related to the Fukushima Dai-Ichi accident, in the Shearon Harris Units 2 and 3 combined license application. SECY-12-0025 and SRM-12-0025 are available in the NRC Agencywide Documents Access and Management System (ADAMS) as Accession Numbers ML12039A103 and ML120690347, respectively.

The staff's request for additional information (RAI) is contained in the enclosure to this letter.

In order to minimize delays to the current licensing schedule, we request that you respond to all Fukushima-related RAIs within 60-days of receipt of the RAIs or provide a schedule for your response within 30-days. If you have any questions or comments concerning this matter, you may contact me at 301-415-3863 or [manny.comar@nrc.gov](mailto:manny.comar@nrc.gov) or the lead project manager for Shearon Harris Units 2 and 3, Brian Hughes at 301-415-6582.

Sincerely,

**/RA/**

Manny Comar, Lead Project Manager  
Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-022  
52-023

Enclosure:  
Request for Additional Information

cc: See next page

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Sincerely,

**/RA/**

Manny Comar, Lead Project Manager  
 Licensing Branch 4  
 Division of New Reactor Licensing  
 Office of New Reactors

Docket Nos. 52-022  
 52-023  
 eRAI Tracking No. 6525

Enclosure:  
 Request for Additional Information  
Distribution:

Public	BBaval	BWeisman
RidsNroDnrILB4	MComar	BHughes
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NRO-002

OFFICE	LB4/BC	LB4/PM	LB4/L-PM
NAME	MTonacci*	MComar*	MComar*
DATE	5/1/12	5/21/12	5/23/12

\*Approval captured electronically in the electronic RAI system.

**OFFICIAL RECORD COPY**

Request for Additional Information No. 6525

5/23/2012

Shearon Harris  
Progress Energy Carolinas, Inc.  
Docket No. 52-022 and 52-023  
SRP Section: 01.05 - Other Regulatory Considerations  
Application Section: Various FSAR Sections

QUESTIONS from Licensing Branch 4

01.05-1

This request for additional information (RAI) specifically addresses Recommendation 2.1, of the Fukushima Near-Term Task Force recommendations contained in SECY-12-0025 as it pertains to the seismic hazard evaluation. This recommendation specifies the use of NUREG-2115, "Central and Eastern United States Seismic Source Characterization for Nuclear Facilities," (CEUS-SSC) in a site probabilistic seismic hazard analysis (PSHA). Consistent with Recommendation 2.1, as well as the need to consider the latest available information in the PSHA for Shearon Harris Units 2 and 3 planned reactor site, the NRC staff requests that Progress Energy Carolinas, Inc:

- a) Evaluate the potential impacts of the newly released CEUS-SSC model, with potential local and regional refinements as identified in the CEUS-SSC model, on the seismic hazard curves and the site-specific ground motion response spectra (GMRS)/foundation input response spectra (FIRS). For re-calculation of the PSHA, please follow either the cumulative absolute velocity (CAV) filter or minimum magnitude specifications outlined in Attachment 1 to Seismic Enclosure 1 of the March 12, 2012 letter "Request for information pursuant to Title 10 of the *Code of Federal Regulations* 50.54(f) regarding Recommendations 2.1, 2.3, and 9.3, of the near-term task force review of insights from the Fukushima Dai-Ichi accident." (ML12053A340).
- b) Modify the site-specific GMRS and FIRS if you determine changes are necessary given the evaluation performed in part a) above.

01.05-2

Develop mitigation strategies for beyond-design-basis external events as described in Attachment 3 to Order EA-12-049, (ML12054A735)

01.05-3

Provide sufficient reliable instrumentation, able to withstand design-basis natural phenomena, to monitor spent fuel pool water level, as described in Attachment 3 to Order EA-12-051 (ML12054A679).

01.05-4

The NRC staff requests that Progress Energy Carolinas, Inc address provisions for enhancing emergency preparedness as it relates to staffing and communications associated with Recommendation 9.3 outlined in Enclosure 5 of the March 12, 2012 letter "Request for information pursuant to Title 10 of the *Code of Federal Regulations* 50.54(f) regarding Recommendations 2.1, 2.3, and 9.3, of the near-term task force review of insights from the Fukushima Dai-Ichi accident." (ML12053A340)