

## PMHarrisCOL PEmails

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**From:** Manny Comar  
**Sent:** Wednesday, August 13, 2008 4:47 PM  
**To:** ADAMS IM  
**Cc:** PMHarrisCOL PEmails  
**Subject:** FW: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 004 RELATED TO SRP SECTION 02.03.05- Long Term ATMOSPHERIC DISPERSION ESTIMATE FOR ROUTINE RELEASES  
**Attachments:** Harris-RAI-LTR-04.pdf

Please change the document's profile for the "Document Type " field from 'e-mail' to 'Request for Additional Information' for accession number ML082261523

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Thanks  
Manny Comar

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**From:** Manny Comar  
**Sent:** Wednesday, August 13, 2008 4:41 PM  
**To:** robert.kitchen@pgnmail.com; Wilkins, Tillie; david.waters@pgnmail.com  
**Cc:** HarrisCOL Resource; Manny Comar  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 004 RELATED TO SRP SECTION 02.03.05- Long Term ATMOSPHERIC DISPERSION ESTIMATE FOR ROUTINE RELEASES

All:

Attached is the RAI letter No.4 related to SRP section 02.03.05. The Accession number is ML082261523.

Manny Comar  
Senior Project Manager  
NRO/DNRL/NWE1  
Nuclear Regulatory Commission  
301-415-3863  
<mailto:manny.comar@nrc.gov>

**Hearing Identifier:** ShearonHarris\_COL\_Public  
**Email Number:** 55

**Mail Envelope Properties** (3AF7DEF82ADA8944AD8247B7ED7FD65169818FD543)

**Subject:** FW: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 004 RELATED TO SRP SECTION 02.03.05- Long Term ATMOSPHERIC DISPERSION ESTIMATE FOR ROUTINE RELEASES

**Sent Date:** 8/13/2008 4:47:07 PM

**Received Date:** 8/13/2008 4:47:08 PM

**From:** Manny Comar

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

**Recipients:**

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

Tracking Status: None

"ADAMS IM" <ADAMS.IM@nrc.gov>

Tracking Status: None

**Post Office:** HQCLSTR01.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	826	8/13/2008 4:47:08 PM
Harris-RAI-LTR-04.pdf	126499	

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

## HarrisRAIsPEm Resource

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**From:** Manny Comar  
**Sent:** Wednesday, August 13, 2008 4:09 PM  
**To:** HarrisRAIsPEm Resource  
**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 004 RELATED TO SRP SECTION 02.03.05 FOR THE HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION  
**Attachments:** HAR-RAI-LTR-004.doc

**Hearing Identifier:** HarrisCOL\_eRAIs  
**Email Number:** 4

**Mail Envelope Properties** (3AF7DEF82ADA8944AD8247B7ED7FD65169818FD4A6)

**Subject:** REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 004 RELATED TO SRP SECTION 02.03.05 FOR THE HARRIS UNITS 2 AND 3 COMBINED LICENSE APPLICATION  
**Sent Date:** 8/13/2008 4:09:22 PM  
**Received Date:** 8/13/2008 4:09:25 PM  
**From:** Manny Comar

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

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

**Post Office:** HQCLSTR01.nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	18	8/13/2008 4:09:25 PM
HAR-RAI-LTR-004.doc	50682	

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

August 13, 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. 004 RELATED TO  
SRP SECTION 02.03.05 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 301-415-3863.

Sincerely,

**/RA/**

Manny Comar, Lead 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 301-415-3863.

Sincerely,

**/RA/**

Manny Comar, Lead Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket Nos. 52-022  
52-023  
ERAI Tracking No. 495

Enclosure:  
Request for Additional Information

Distribution:

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RidsAcrsAcnwMailCenter	RidsNroDnrlNwe2	SBrock
RidsRgn2MailCenter		

NRO-002

OFFICE	RSAC/BC	NWE1/PM	OGC	NWE1/L-PM
NAME	CCox*	MComar*	SBrock*	MComar*
DATE	6/17/08	7/11/08	7/11/08	7/11/08

\*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: 02.03.05 - Long-Term Atmospheric Dispersion Estimates for Routine Releases**  
**Application Section: 2.3.5**

**QUESTIONS from Siting and Accident Consequences Branch (RSAC)**

02.03.05-1

Please provide a reference to the AP1000 DCD for the building cross-sectional area and containment height used as input to the XOQDOQ model. The staff notes that DCD Section 3.8.1, Rev. 16, states that the containment vessel has a height of 215 feet, 4 inches.

02.03.05-2

Please specify whether the distances provided to the receptors of interest (i.e., milk cow, milk goat, garden, meat animal, resident) are from the center point of the proposed units or from the shortest distance from either proposed unit. Also, please include a reference in FSAR Section 2.3.5 for the receptor distances provided.

02.03.05-3

Please confirm the accuracy of the D/Q estimates for the nearest resident receptor for the north through south-southeast downwind sectors as presented in FSAR Table 2.3.5-202. For example, in the north sector the meat animal and resident are located at the same distance, however, the D/Q values differ by 242%.

02.03.05-4

In accordance with AP1000, Rev. 16, DCD Tier 2 Section 2.3.6.5 please include a table in FSAR Section 2.3.5 that shows that the maximum annual average site characteristic X/Q value is within the bounds of the corresponding site parameter value.