



Serial: NPD-NRC-2008-057  
November 6, 2008

10CFR52.79

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555-0001

**SHEARON HARRIS NUCLEAR POWER PLANT, UNITS 2 AND 3  
DOCKET NOS. 52-022 AND 52-023  
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 024 RELATED TO  
SEISMIC INSTRUMENTATION**

Reference: Letter from Manny Comar (NRC) to James Scarola (PEC), dated October 2, 2008,  
"Request for Additional Information Letter No. 024 Related to SRP Section  
03.07.04 for the Harris Units 2 and 3 Combined License Application"

Ladies and Gentlemen:

Progress Energy Carolinas, Inc. (PEC) hereby submits our response to the Nuclear Regulatory Commission's (NRC) request for additional information provided in the referenced letter. A response to the NRC request is addressed in the enclosure.

If you have any further questions, or need additional information, please contact Bob Kitchen at (919) 546-6992, or me at (919) 546-6107.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on November 6, 2008.

Sincerely,

Garry D. Miller  
General Manager  
Nuclear Plant Development

Enclosure

cc: U.S. NRC Director, Office of New Reactors/NRLPO  
U.S. NRC Office of Nuclear Reactor Regulation/NRLPO  
U.S. NRC Region II, Regional Administrator  
U.S. NRC Resident Inspector, SHNPP Unit 1  
Mr. Manny Comar, U.S. NRC Project Manager

Progress Energy Carolinas, Inc.  
P.O. Box 1551  
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1084  
NRC

**Shearon Harris Nuclear Power Plant Units 2 and 3  
Response to NRC Request for Additional Information Letter No. 024 Related to  
SRP Section 03.07.04 for the Combined License Application, dated October 2, 2008**

<u>NRC RAI #</u>	<u>Progress Energy RAI #</u>	<u>Progress Energy Response</u>
03.07.04-1	H-0130	Response enclosed – see following pages

**NRC Letter No.:** HAR-RAI-LTR-024

**NRC Letter Date:** October 2, 2008

**NRC Review of Final Safety Analysis Report**

**NRC RAI NUMBER:** 03.07.04-1

**Text of NRC RAI:**

Section 3.7.4.2.1 describes the location of the free field seismic sensor to be installed only with generic terms. Please provide more specifics on the exact location and nearby potential noise sources that might affect recorded signals at that proposed locality.

**PGN RAI ID #:** H-0130

**PGN Response to NRC RAI:**

The free-field sensor to be installed will comply with the guidance of Regulatory Guide 1.12. The plan is to locate a free-field sensor in the Unit 1 diesel fuel oil storage tank building (where the Unit 1 free-field sensor is located). This building is located below grade and there are no potential noise sources near the building. The closest structure to the diesel fuel oil storage tank building is the fuel handling unloading area. This structure is about 140 feet from the diesel fuel oil storage tank building and is 50 feet wide, 75 feet tall and embedded an additional 30 feet.

**Associated HAR COL Application Revisions:**

No COLA revisions have been identified associated with this response.

**Attachments/Enclosures:**

None