



Serial: NPD-NRC-2008-091
December 16, 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. 051 RELATED TO
CONDENSATE CLEANUP SYSTEM**

Reference: Letter from Brian C. Anderson (NRC) to James Scarola (PEC), dated November 25, 2008, "Request for Additional Information Letter No. 051 Related to SRP Section 10.4.6 for the Shearon 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. The enclosure also identifies changes that will be made in a future revision of the Shearon Harris Nuclear Power Plant Units 2 and 3 application.

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 December 16, 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

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**Shearon Harris Nuclear Power Plant Units 2 and 3
Response to NRC Request for Additional Information Letter No. 051 Related to
SRP Section 10.4.6 for the Combined License Application, dated November 25, 2008**

<u>NRC RAI #</u>	<u>Progress Energy RAI #</u>	<u>Progress Energy Response</u>
10.04.06-1	H-0286	Response enclosed – see following pages

NRC Letter No.: HAR-RAI-LTR-051

NRC Letter Date: November 25, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 10.04.06-1

Text of NRC RAI:

The COL information item resolution in Section 10.4.7.2.1 of the HAR COL (HAR COL 10.4-2) identifies carbohydride as an oxygen scavenger agent which may be used in place of hydrazine. The staff requests that the applicant clarify whether the intent was to identify carbohydrazide as the alternative oxygen scavenger, since carbohydrazide is commonly used as an oxygen scavenger, while carbohydride is simply a synonym for hydrocarbon.

PGN RAI ID #: H-0286

PGN Response to NRC RAI:

The reference to carbohydride in FSAR Subsection 10.4.7.2.1 is incorrect. The reference should have been to carbohydrazide instead.

Associated HAR COL Application Revisions:

The following change will be made to the HAR FSAR in a future amendment:

Revise the information provided FSAR Subsection 10.4.7.2.1, General Description, from:

"The oxygen scavenger agent is hydrazine and the pH control agent is ammonia/monoethylamine. During shutdown conditions, carbohydride may be used in place of hydrazine."

To read:

"The oxygen scavenger agent is hydrazine and the pH control agent is ammonia/monoethylamine. During shutdown conditions, carbohydrazide may be used in place of hydrazine."

Attachments/Enclosures to Response to NRC:

None.