

10 CFR 52 Appendix D, subsection X.B

Serial: NPD-NRC-2011-028

April 14, 2011

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Subject:

Shearon Harris Nuclear Power Plant Units 2 and 3

Docket Nos. 52-022 and 52-023

Submittal of COL Application, Revision 3

Ladies and Gentlemen:

This letter provides Progress Energy Carolinas, Inc.'s (PEC) update to the Shearon Harris Nuclear Plant, Units 2 and 3, (HAR) combined license (COL) application submitted by PEC letter NPD-NRC-2010-020, dated April 12, 2010. This update includes the annual update of the docketed Final Safety Analysis Report (Part 2 of the HAR COL application) as required by 10 CFR Part 52, Appendix D, subsection X.B. Additionally, other parts (i.e., Parts 1, 3, 4, 5, 7, 9, 10, and 11) of the HAR COL application are also updated. Each revision to the HAR COL application is identified by revision bars in the margin for text and tables and by the revision number for figures.

This update includes changes identified by previous correspondence, including responses to requests for additional information submitted to the NRC from January 6, 2010 through January 5, 2011, voluntary and supplemental responses, changes to corporate officers, miscellaneous errata items, and standard and plant-specific changes necessary to reflect the incorporation by reference of the AP1000 generic DCD Revision 18 (submitted December 2010).

The revisions to the HAR COL application also include changes to standard content incorporated into the updated reference COL application (R-COLA) for Bellefonte Units 3 and 4 and Vogtle Units 3 and 4, plus additional changes are drawn from R-COLA responses through early January 2011.

A document identifying each change, as well as its source or basis, is being prepared as an aid to the NRC reviewers and will be submitted by a separate letter by April 30, 2011.

The HAR COL application is composed of several parts. Each of these is identified below along with indication of any revision contained in this document update.

Part 1 - General and Financial Information (Revision 3 included).

Part 1 is revised to update corporate officers and Board of Directors, and update general information since the submittal of the HAR COL application. Financial information withheld as proprietary is submitted in Part 9.

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Part 2 - Final Safety Analysis Report (FSAR) (Revision 3 included).

Part 2 is revised as described above to incorporate HAR-specific and R-COLA standard responses to NRC RAIs, OIs, voluntary submittals, miscellaneous errata, and conforming changes to reflect the incorporation by reference of Westinghouse AP1000 DCD information.

Part 3 - Environmental Report (Revision 3 included).

Part 3 is revised in response to site-specific RAIs and voluntary submittals.

Part 4 - Technical Specifications (Revision 3 included).

Part 4 is revised to reflect changes to the generic Technical Specifications and Bases as provided in DCD Revision 18.

Part 5 - Emergency Plan (Revision 3 included).

Part 5 is revised in response to site-specific RAIs and voluntary submittals.

The State and local radiological emergency plans have been updated with the revisions effective 2011. The specific State and local radiological emergency plans are located in HAR COL Part 9, Withheld Information, to be consistent with NRC staff practice to designate these plans as "Non-Publicly Available" in ADAMS. NRC designates these documents as "Sensitive-Federal, State, Foreign Government, and International Agency Controlled." The guidance to withhold these documents is located in NRC letter, William Reckley to Russell Bell (NEI) dated February 10, 2009.

In addition, updated HAR COLA Development of Evacuation Time Estimates Report (ETE) Revision 4 dated February, 2011 is provided in response to NRC RAIs regarding the previous ETE submittal. HAR ETE Revision 4 has been reviewed with State and local organizations with no concerns identified.

Part 6 - [Not used. Reserved for applicants requesting Limited Work Authorization (LWA)].

Part 7 - Departures and Exemption Requests (Revision 3 included).

Part 7 has been revised to include a new departure related to the voltage regulating transformer.

Part 8 - Safeguards/Security Plans (no revision in this update).

Revision 1 of the Physical Security Plan was submitted by letter from A.D. Barginere, NPD-Security, to U. S. Nuclear Regulatory Commission Document Control Desk dated May 4, 2009. Revision 2 of the Physical Security Plan will be submitted under a separate letter.

Part 9 - Withheld Information (Revision 3 included).

Part 9 of the application contains certain financial information that PEC requested the NRC to withhold from public disclosure in accordance with the requirements of 10 CFR 2.390 in the original application. In support of this request for continuing proprietary treatment of the information in Part 9, PEC is enclosing a copy of the original affidavit that was submitted when the information was initially provided as Enclosure 1. Part 9 also contains state and local radiological emergency plans designated as "Sensitive-Federal, State, Foreign Government, and International Agency Controlled," as requested by the NRC. In addition, Part 9 includes:

- Cyber Security Plan Revision 2, and
- Mitigative Strategies Description and Plans Revision 1

Part 10 - Proposed License Conditions (Including ITAAC) (Revision 3 included).

Part 10 has been revised to incorporate site-specific and R-COLA standard RAI responses, voluntary submittals, responses to SER Ols, revisions of the DCD, and miscellaneous errata.

Part 11 - Enclosures (Revision 3 included).

Part 11 has been revised to provide an update related to the:

- Cyber Security Plan Revision 2 (Cover Sheet Only)
- Mitigative Strategies Description and Plans Revision 1 (Cover Sheet Only), and
- NGGM-PM-0030 Revision 5, Quality Assurance Plan for the Development of New Nuclear Plants

This HAR COL application update contains no restricted data or national defense information requiring separation in accordance with 10 CFR 50.33.

Consistent with common licensing practice and the original HAR COL application, most of the updated application text is written in the present tense, active voice, including discussions of facilities and programs not yet built or implemented. Exceptions to this approach are the discussions of operating experience and completed studies and evaluations, which are written in the past tense. It should be understood, however, that statements regarding facilities (e.g., structures, systems and components) and pre-construction, pre-operational, and operational activities (e.g., procedures and programs) typically address activities that have not yet been performed and will not be performed until it is reasonable and appropriate to do so.

A complete set of the HAR COL application documents (by Part as identified above) is provided in electronic file format on the enclosed disk (Enclosure 2). Enclosure 2 contains the non-public version revised HAR COL application. Appropriate pre-submission checks have been successfully performed on the files to confirm compliance with the guidelines provided on the NRC web site, which have been found acceptable for electronic submittal. A pre-flight report for Enclosure 2 is provided as Enclosure 3. The disk includes a "packing slip" describing its contents, pursuant to NRC instructions for electronic filing.

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If you have any questions, or need additional information, please contact me at (727) 820-4481 or Bob Kitchen at (919) 546-6992.

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

Executed on April 14, 2011.

Siricerely,

XohrYEInitsky Vice President

New Generation Programs & Projects

Enclosures:

1. Affidavit from PEC letter NPD-NRC-2008-001, dated February 18, 2008

2. Shearon Harris Nuclear Power Plant, Units 2 and 3, COL Application, Revision 3, Non - Public Version (electronic submittal – 1 DVD enclosed)

3. Shearon Harris Nuclear Power Plant, Units 2 and 3, COL Application, Revision 3, Non - Public Version, Pre-flight Report

cc: U.S. NRC Region II, Regional Administrator (w/o Enclosure 2)

U.S. NRC Resident Inspector, SNHPP Unit 1 (w/o Enclosure 2)

Mr. Brian Hughes, U.S. NRC Project Manager (w/o Enclosure 2)

Dr. Donald Palmrose, U. S. NRC Environmental Project Manager (w/o Enclosure 2)

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Enclosure 1 to Serial: NPD-NRC-2011-028

Affidavit from February 18, 2008 Letter, 3 pages including this cover page

AFFIDAVIT OF JAMES SCAROLA

STATE OF NORTH CARC	OLINA)	
) ss	
COUNTY OF WAKE) :	

I, James Scarola, Senior Vice President & Chief Nuclear Officer, Progress Energy Carolinas, Inc., do hereby affirm and state:

- 1. I am authorized to execute this affidavit on behalf of Progress Energy Carolinas, Inc., (hereinafter referred to as "PEC"). I am further authorized to review information submitted to the Nuclear Regulatory Commission ("NRC") and apply for the withholding of information from disclosure. I am making this affidavit in conformance with the provisions of the NRC's regulations at 10 CFR 2.390 and in support of PEC's request for proprietary treatment of certain financial information.
- 2. I have knowledge of the criteria used by PEC in designating information as sensitive, proprietary, or confidential:
- 3. Pursuant to the provision of paragraph (a)(4) of 10 CFR 2.390, the following is furnished for consideration by the NRC in determining whether the information sought to be withheld from public disclosure should be withheld.
 - a. The information sought to be withheld from public disclosure is owned by PEC and has been held in confidence by PEC.
 - b. The information sought to be protected is not available to the public to the best of our knowledge and belief.
 - c. The information is of the type that would customarily be held in confidence by PEC. This financial information consists of PEC's projection for construction, fuel supply, and operating costs. Public disclosure of this information is likely to cause harm to PEC because it would allow contractors, vendors, and competitors to understand PEC's competitive position and schedule prior to securing the related contracts and services or pricing competitive services.

- d. The proprietary information sought to be withheld from public disclosure is identified in Part 9 of the COL application and is marked as proprietary as it appears in the application.
- e. The information is transmitted to the NRC in confidence and under the provisions of 10 CFR 2.390; it is to be received in confidence by the NRC.

James Scarola, being dully swom, states that he is Sr. Vice President and Chief Nuclear Officer, Progress Energy Carolinas, Inc., that he is authorized on the part of said Company to sign and file with the U.S. Nuclear Regulatory Commission this combined license application for the Shearon Harris Nuclear Power Plant Units 2 and 3, and that all the matter and facts set forth herein are true and correct to the best of his knowledge.

James Scarola

Sr. Vice President and Chief Nuclear Officer

Subscribed and swom to before me, a Notary Public, in and for the county and state above named, this 18th day of Julius, 2008.

Notary Public in and for State of North Carolina

My Commission Expires: October 5, 2008

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Shearon Harris Nuclear Power Plant, Units 2 and 3 COL Application, Revision 3, Non-Public Version, (electronic submittal) Pre-flight Report

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This document serves as a pre-flight report for the Harris COLA Revision 3 Submittal 7. The following files do not pass pre-flight or do not meet NRC criteria, but text is word searchable and clarity/legibility is of high quality.

No.	File Name	Preflight Status	Reason		
Part '	Part 1 – General and Financial Information				
1	HAR_Part01_General_and_Financial Information.pdf	Error/Failed	< 300 ppi (4 pages due to company logos on the financial reports)		
Part 2	Part 2 - Final Safety Analysis Report				
1	HAR_FSAR_APP02_BB.pdf	Error/Failed	< 300 ppi (due to company logos on each page)		
2	HAR_FSAR_FIG12_04_201.pdf	Error/Failed	< 300 ppi		
Part :	Part 3 – Environmental Report				
1	HAR_ER_APP02_04_01.pdf	Error/Failed	File larger than 50 MB to have 300 ppi resolution		
Part 4	4 – Technical Specifications				
1	HAR_Part04 _Technical_Specifications.pdf	Error/Failed	< 300 ppi for two figures		
Part (5 - Emergency Plan		J		
1	HAR_EP_FIG_Intro-3.pdf	Error/Failed	< 300 ppi		
2	HAR_EP_FIG_Intro-4.pdf	Error/Failed	< 300 ppi		
3	HAR_EP_FIG_Intro-6.pdf	Error/Failed	< 300 ppi		
4	HAR_EP_FIG_J-1.pdf	Error/Failed	< 300 ppi		
5	Apex_Fire_Dept.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
6	Apex_Rescue_Squad.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
7	Charul_GHaugan_MD.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		

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No.	File Name	Preflight Status	Reason		
8	Chatham_Co.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
9	Douglas_I_Hammer_MD.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
10	Harnett_Co.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
11	Lee_Co.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
12	NC_Division_of_Emergency_Mgt.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
13	Rex_Healthcare.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
14	Town_of_Holly_Springs.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
15	Wake_Co_ Emergency_Mgt.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
16	WakeMed_Cary.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
17	WakeMed_Raleigh.pdf	Error/Failed	< 300 ppi; font not embedded (due to signatures)		
18	010 - 50.54.q_Evaluation.pdf	Error/Failed	font not embedded due to making signature pages searchable (2 pages)		
19	013 - HAR_EP_SUPP_UNIT _1_EAL_BASIS_DOC.pdf	Error/Failed	< 300 ppi		
20	014_HAR_EP_SUPP_UNITS_2_and 3_EAL_BASIS_DOC.pdf	Error/Failed	< 300 ppi		
Part 9	Part 9 – SUNSI Information				
1	00 Plan Cover – Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		
2	01 Plan Introduction – Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		

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No.	File Name	Preflight Status	Reason		
3	02 MUTUAL SUPPORT AGREEMENT – Rev 1.pdf	Error/Failed	< 300 ppi		
4	04 STATE of NORTH CAROLINA PLAN – Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		
5	13 Annex-G Appendix 1 _Cape Fear Marine Rev 1.pdf	Error/Failed	< 300 ppi		
6	14 Annex-G Appendix 2 _Jordan and Harris Lake Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		
7	16 Annex-G Appendix 4 _Lake Wyley and Catawba River Rev 1.pdf	Error/Failed	< 300 ppi		
8	Chatham County Plan, Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		
9	Harnett County Plan, Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		
10	Lee County Plan Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		
11	Wake County Plan, Rev 1, Ch 1.pdf	Error/Failed	< 300 ppi		
Part 1	Part 11 – Reference Info				
1	HAR_Part11_QAPD.pdf	Error/Failed	< 300 ppi for logos and one figure		