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

Shearon Harris Nuclear Power Plant Units 2 and 3  
Docket Nos. 52-022 and 52-023  
Data for Hydrology Computer Models

Gentlemen:

In a conference call held between Progress Energy - Carolinas (PEC) and the NRC on June 2, 2008, discussions were held regarding the NRC Hydrology audit planned for the week of August 4, 2008. As a follow up to the discussions, on June 25, 2008, PEC provided input data files for the computer models that were used in support of the Harris COLA, FSAR Section 2.4 "Hydrology" (Reference letter NPD-NRC-2008-018).

We are resubmitting the attached source files to update two of the calculations to the most current revision. Please note that calculations HAG-0000-X7C-001 and HAG-0000-X7C-003 are now submitted as Revision 1. Although we are resending all of the files previously provided, please note that all information has remained unchanged with the exception of calculations HAG-0000-X7C-001 and HAG-0000-X7C-003.

The specific calculations provided are as follows:

- HAG-0000-GLC-001, R0 Accidental Releases of Liquid Effluents in Ground and Surface Waters
- HAG-0000-X7C-001, R1 Slug Test Analysis
- HAG-0000-X7C-002, R0 Groundwater Velocity and Flux
- HAG-0000-X7C-003, R1 Probable Maximum Flood
- HAG-0000-X7C-019, R0 Groundwater Vertical Gradients
- HAG-0000-X7C-022, R1 Water Level Measurements
- HAG-0000-X7C-024, R0 Flood Frequency Analysis
- HAG-0000-X7C-031, R1 Probable Maximum Precipitation
- HAG-0000-X7C-034, R0 Local Probable Maximum Precipitation

These files are being provided to enable the NRC reviewer to run the computer models using the same input data as Progress Energy and confirm the results presented in the Harris COLA. The enclosed CD includes nine (9) input data files in native file format. In addition, a spreadsheet, titled "HAR FSAR 2.4 Model Input Crosswalk.xls", is included that provides an index for the contents of each of the nine calculations listed by folder on the CD.

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NRC

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

Sincerely,



Robert H. Kitchen  
Manager, Nuclear Plant Licensing

Enclosure

cc (w/o Enclosure): 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  
cc (w/ Enclosure): Mr. Manny Comar, Project Manager, Division of New Reactor  
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