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 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina      05000400  
 AUTH. NAME      AUTHOR AFFILIATION  
 GEISE, W. B.      Carolina Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 NELSON, D.      Region 2, Office of Director

SUBJECT: Forwards listing of significant facility & simulator differences & changes since D Nelson Feb visit.

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NOTES: Application for permit renewal filed.      05000400

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Shearon Harris Energy & Environmental Center  
Route 1, Box 327  
New Hill, North Carolina 27562

July 13, 1987

File: NTS-4210(I)

Serial: 87NTS419

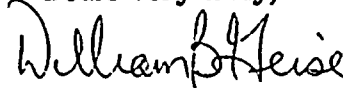
Mr. Dave Nelson  
USNRC Region II  
101 Marietta Street  
Suite 2900  
Atlanta, Georgia 30323

Dear Mr. Nelson:

I have enclosed a current listing of significant Shearon Harris Nuclear Power Plant (SHNPP) and simulator differences and significant simulator changes since your visit in February.

If additional material is requested or if I can be of any assistance, please contact me at the Shearon Harris Energy & Environmental Center.

Yours very truly,



William B. Geise  
Project Specialist

WBG/djo  
Enclosures

cc: Mr. J. D. Kloosterman  
Mr. C. S. Olexik, Jr.

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## SIGNIFICANT PLANT/SIMULATOR DIFFERENCES

1. Condensate booster pump, loose parts, and seismic monitor panels are not installed on the simulator.
2. Safety grade radiation monitoring system is not functional.
3. MSR controls are different.
4. Annunciator windows are different.
5. Communication systems for NRC, state, and local communities differ from the plant, and phones are not installed on the shift foreman and balance of plant desks.

## SIGNIFICANT CHANGES SINCE FEBRUARY

1. Extensive work on the Instructor Station modeling.
2. New Initial Conditions.
3. RCS model updated, noncondensable gases are now modeled.
4. Updated SPDS and continuing to update the plant computer.
5. Heater drain pump trip does not cause a turbine run back.
6. Core model changed to include samarium.

