



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET SW SUITE 23T85
ATLANTA, GEORGIA 30303-8931**

June 20, 2002

Southern Nuclear Operating Company, Inc.
ATTN: Mr. H. L. Sumner, Jr.
Vice President
P. O. Box 1295
Birmingham, AL 35201-1295

**SUBJECT: EDWIN I. HATCH NUCLEAR POWER PLANT - SAFETY SYSTEM DESIGN
AND PERFORMANCE CAPABILITY INSPECTION
NRC INSPECTION REPORT NOS. 50-321/2002-06, 50-366/2002-06**

Dear Mr. Sumner:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a Safety System Design and Performance Capability inspection at your Hatch facility during the periods August 26 - 30, and September 9 - 13, 2002. A team of NRC inspectors will perform the inspection. The inspection team will be by Mr. Norman Merriweather, a senior reactor inspector from the NRC Region II office. The inspection will be conducted in accordance with baseline Inspection Procedure 71111.21, Safety System Design and Performance Capability.

The inspection scope will include those components and activities whose functions mitigate, or can cause the "Loss of station Battery 'A' direct current (DC)" initiating event at your plant. Your Individual Plant Examination shows this event as a significant contributor to risk at your Hatch facility. The inspectors will review design, testing, preventive and predictive maintenance, and material condition of DC power system Division 'A', and its support systems, to determine if the reviewed items can impact the initiating event frequency. Fire and internal flood contributions that contribute to an increase in the "Loss of DC" initiating event frequency may be examined. In addition, the mitigating systems functions (Automatic Depressurization System, High Pressure Coolant Injection), their support systems, and the operating procedures to support mitigation and recovery from loss of DC power will be examined.

During a telephone conversation on June 10, 2002, Mr. Merriweather of my staff, and Mr. Steve Tipps of your staff, confirmed arrangements for an information gathering site visit and the two-week onsite inspection. The schedule is as follows:

- Information gathering visit: July 22 - 26, 2002
- Onsite inspection: August 26 - 30, 2002, and September 9 - 13, 2002

The purpose of the information gathering visit is to obtain information and documentation outlined in the enclosure needed to support the inspection. Please contact Mr. Merriweather prior to preparing copies of the materials listed in the enclosure. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for inspection preparation.

During the information gathering visit, the team leader will also discuss the following inspection support administrative details: office space; specific documents requested to be made available to the team in their office space at the site; arrangements for plant site access; and the availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection.

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact me at (404) 562-4669, or Mr. Merriweather at (404) 562-4627.

Sincerely,

/RA/

D. Charles Payne, Acting Chief
Engineering Branch 1
Division of Reactor Safety

Docket Nos.: 50-321,50-366
License Nos.: DPR-57, NPF-5

Enclosure: Information Request for the Safety System Design and
Performance Capability Inspection

cc w/encl:
J. D. Woodard
Executive Vice President
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

P. H. Wells
General Manager, Plant Hatch
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

D. M. Crowe
Manager Licensing - Hatch
Southern Nuclear Operating Company, Inc.
Electronic Mail Distribution

Ernest L. Blake, Esq.
Shaw, Pittman, Potts and
Trowbridge
2300 N Street, NW
Washington, D. C. 20037

(cc w/encl cont'd - See page 3)

SNOPCO

3

(cc w/encl cont'd)
Office of Planning and Budget
Room 610
270 Washington Street, SW
Atlanta, GA 30334

Director
Department of Natural Resources
205 Butler Street, SE, Suite 1252
Atlanta, GA 30334

Manager, Radioactive Materials Program
Department of Natural Resources
Electronic Mail Distribution

Chairman
Appling County Commissioners
County Courthouse
Baxley, GA 31513

Resident Manager
Oglethorpe Power Corporation
Edwin I. Hatch Nuclear Plant
Electronic Mail Distribution

Charles A. Patrizia, Esq.
Paul, Hastings, Janofsky & Walker
10th Floor
1299 Pennsylvania Avenue
Washington, D. C. 20004-9500

Senior Engineer - Power Supply
Municipal Electric Authority
of Georgia
Electronic Mail Distribution

Distribution w/encl:
L. Olshan, NRR
RIDSNRRDIPMLIPB
PUBLIC

OFFICE	RII:DRS	RII:DRS	RII:DRS	RII:DRS	RII:DRP	RII:DRS	
SIGNATURE	MERRIWEATHER	SCHIN	FILLION	BERNHARD	HOLBROOK FOR:	MOORMAN	
NAME	MERRIWEATHER	SCHIN	FILLION	BERNHARD	CAHILL	MOORMAN	
DATE	6/17/2002	6/17/2002	6/18/2002	6/17/2002	6/18/2002	6/19/2002	8/ /2002
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: C:\ORPCheckout\FileNET\ML021720750.wpd

**INFORMATION REQUEST FOR THE SAFETY SYSTEM DESIGN AND
PERFORMANCE CAPABILITY INSPECTION:
Report No. 50-321,366/2002-06**

Loss of Station Battery “A” DC Initiating Event

Note: Electronic media is preferred if readily available (i.e., on computer disc).

- Emergency and operating procedures to support mitigation and recovery from the “Loss of station Battery ‘A’ direct current (DC)” initiating event. Also provide site specific administrative procedures related to normal operation, abnormal operation, and emergency operation of the Automatic Depressurization system (ADS) and the High Pressure Coolant Injection (HPCI) system, including support systems, and other related systems. Other related systems include air, electrical, prelube, cooling water, ventilation, and system suction and discharge interfaces.
- Design criteria (i.e., design basis documents) for ADS, HPCI, and the Station DC power system and other related systems.
- ADS, HPCI, and DC Power Technical Specification requirements and a list of associated surveillance test/calibration procedures for the components within the systems. Include a list of instruments used in the emergency operating procedures (EOPs) that are Technical Specification related.
- Copies of applicable sections of the UFSAR for the ADS, HPCI, DC systems, and other related systems and copies of applicable sections of changes to the UFSAR which have yet to be docketed.
- ADS & HPCI piping and instrumentation drawings.
- A list of engineering calculations applicable to ADS, HPCI, and train “A” DC power systems, and associated components.
- A list of plant modifications implemented since 1994 affecting ADS, HPCI and DC power systems.
- A list of existing temporary modifications and operator work arounds.
- A list of Condition Reports (CRs) and non-routine work requests initiated since 1994 affecting ADS, HPCI, and DC power systems.
- System Health Report and Performance Trends for the ADS, HPCI, and train “A” DC power systems.

Enclosure

- A list of all maintenance and test procedures (other than surveillances) involving the ADS, HPCI and DC systems, and support systems.
- Maintenance Rule performance criteria for the ADS, HPCI & DC systems.
- Summary of corrective maintenance activities, including the maintenance rule event log, performed on the ADS, HPCI & train "A" DC systems in the past 12 months.
- Self-assessments performed on ADS, HPCI & DC systems and other related systems in the last 24 months.
- Operator training lesson plans and job performance measures on the emergency and operating procedures.
- System description and operator training modules for the ADS, HPCI, & DC power systems.
- Key electrical single line diagrams of the alternating current (AC) and DC power systems. And diagrams or load list depicting all loads fed from division "A" DC power system.
- Strategy for handling a loss of DC event.
- A list of Operating Experience Program evaluations of industry, vendor, or NRC generic issues related to the ADS, HPCI & DC power systems for the past 3 years.
- Provide a list of equipment in the ADS & HPCI that changes state or is manually manipulated during a Loss of Station Battery "A" DC event. Provide equipment failure rates over the past 10 years for these components.
- A list of equipment and operator actions involving ADS, HPCI, & DC power systems with a Risk Achievement Worth (RAW) greater than 1.02.
- Probability Risk Assessment (PRA) Event Tree for loss of DC initiating event.
- A List of PRA system dependencies and success criteria for ADS, HPCI, & DC power systems, and their support systems.