



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

June 10, 2003

Carolina Power and Light Company
ATTN: Mr. J. S. Keenan
Vice President
Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461

**SUBJECT: NOTIFICATION OF BRUNSWICK STEAM ELECTRIC PLANT - SAFETY
SYSTEM DESIGN AND PERFORMANCE CAPABILITY INSPECTION -
NRC INSPECTION REPORT 50-325/2003-08 AND 50-324/2003-08**

Dear Mr. Keenan:

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 Brunswick Steam Electric Plant during the weeks of August 11 and August 25, 2003. A team of five inspectors will perform this inspection. The inspection team will be led by Mr. Jim Moorman, a Senior Reactor Inspector from the NRC Region II Office. This biennial inspection will be conducted in accordance with baseline inspection program Attachment 71111.21, "Safety System Design and Performance Capability."

The inspection will evaluate the capability of installed plant equipment to detect and respond to a loss of station battery event. Procedures which direct the mitigating actions for this event will also be evaluated.

During a telephone conversation on June 5, 2003, Mr. Moorman of my staff, and Mr. Steve Tabor 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: Week of July 7, 2003
- Onsite inspection weeks: August 11, 2003, and August 25, 2003.

The purpose of the information gathering visit is to obtain information and documentation outlined in the enclosure needed to support the inspection. Mr. Rudolph Bernhard, a Region II Senior Reactor Analyst, may accompany Mr. Moorman during the information gathering visit to review probabilistic risk assessment data and identify risk significant components which will be examined during the inspection. Please contact Mr. Moorman 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; arrangements for 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 Mr. Moorman at (404) 562-4647 or me at (404) 562-4605.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publically Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/readingrm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

Charles R. Ogle, Chief
Engineering Branch 1
Division of Reactor Safety

Docket Nos.: 50-325, 50-324
License Nos.: DPR-71, DPR-62

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

cc w/encl:
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(cc w/encl cont'd - See page 4)

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DATE	6/9/2003	6/10/2003	6/ /2003	6/ /2003	6/ /2003	6/ /2003	6/ /2003
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO
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**INFORMATION REQUEST FOR THE SAFETY SYSTEM DESIGN AND
PERFORMANCE CAPABILITY INSPECTION:**

LOSS OF STATION BATTERY (DIRECT CURRENT) INITIATING EVENT

Note: Electronic media is preferred if readily available. (The preferred file format is searchable “.pdf” files on CDROM. The CDROM should be indexed to facilitate use. Please provide 5 copies of each CDROM submitted. Information in “lists” should contain enough information to allow someone with knowledge of boiling water reactor technology but not specific plant knowledge to gain an understanding of the item)

1. Emergency Operating Instructions (EOIs) and supporting procedures, EOI basis documents, step deviation document, writers guide, and users guide. (Paper copies of the EOI flow charts are preferred)
2. Design Basis Manual for major plant electrical, mechanical, and control systems.
3. Piping and instrumentation drawings for High Pressure Core Injection System (HPCI), Reactor Core Isolation Cooling System (RCIC), Automatic Depressurization System (ADS), Residual Heat Removal System (RHR), Reactor Coolant System (RCS). (Paper copies are preferred for these)
4. A list of engineering calculations applicable to ADS, HPCI, RCIC, and Direct Current (DC) power systems, and associated components.
5. A list of major plant modifications implemented since 1998 affecting ADS, HPCI, RCIC, and DC power systems.
6. A list of existing temporary modifications and operator work arounds.
7. A list of operability determinations performed since 1998.
8. A list of corrective action program documents and non-routine work requests initiated for the ADS, HPCI, RCIC, and DC power systems in the past 24 months.
9. System Health Reports and System Performance Trends for all systems going back 2 years.
10. A copy of the Maintenance Rule program procedure and performance criteria for all plant systems. A list of plant systems currently monitored under 50.65(a)(1) and performance goals for these systems. A list of Maintenance Rule functional failures since 2000.
11. Self-assessments, third party assessments, or audits performed on ADS, HPCI, RCIC & DC systems and other related systems performed in the last 24 months. Self-assessments, third party assessments, or audits of engineering, operations, and maintenance department activities performed in the last 24 months.

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12. Operator training lesson plans, system descriptions, and job performance measures for the EOIs, EOI support procedures, abnormal and operating procedures that would be used to mitigate a partial or complete loss of the station batteries.
13. Key electrical single line drawings of the intermediate and low voltage alternating current (AC) and DC power systems. (Paper copies are preferred for these)
14. The electrical system load list.
15. Mitigation strategy for handling full or partial loss of DC events.
16. A list of Operating Experience Program evaluations of industry, vendor, or NRC generic issues related to the ADS, HPCI, RCIC, & DC power systems for the past 3 years.
17. A list of equipment and operator actions involving ADS, HPCI, RCIC, & DC power systems with a Risk Achievement Worth (RAW) greater than 1.02.
18. Probability Risk Assessment (PRA) Event Tree for loss of DC initiating event. A List of PRA system dependencies and success criteria for ADS, HPCI, RCIC, & DC power systems, and their support systems. PRA systems notebooks for ADS, HPCI, RCIC, & DC power systems
19. Plant Technical Specifications, Bases, and Technical Requirements Manual
20. A current copy of the Updated Final Safety Analysis Report.

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