



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
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August 7, 2001

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

**SUBJECT: SAFETY SYSTEMS DESIGN AND PERFORMANCE CAPABILITY INSPECTION
NRC INSPECTION REPORT NOs. 50-325,324/2001-007**

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 facility during September and October 2001. A team of six inspectors will perform the inspection. The inspection will be led by Mr. J. Blake, a senior project manager 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 objective will be to verify the capability of the plant equipment to perform the functions required to mitigate a loss of offsite power (LOOP)/station blackout (SBO) event. The plant equipment initially selected for inspection are identified in the enclosed request for information.

During a telephone call on August 1, 2001, Mr. J. Blake 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 : September 4 - 6, 2001
- Inspection preparation week (In RII offices): September 24 - 28, 2001
- Onsite inspection: October 1 - 5, and October 15 - 19, 2001

The purpose of the information gathering visit is to obtain information and documentation outlined in the enclosure needed to support the inspection. The information will then be reviewed during the inspection preparation week to focus the team on the risk areas and equipment of interest. Please contact Mr. Blake prior to preparing copies of the materials listed in the Enclosure. The inspectors will try to minimize 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 reactor site access; and the availability of knowledgeable plant engineering and licensing organization 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 for inspection, please contact me at (404) 562-4667, or Mr. Blake at (404) 562-4607.

In accordance with 10CFR2.790 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 of from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.html> (the Public Electronic Reading Room).

Sincerely,

/RA Rudolph Bernhard for:/

Mark Lesser, Chief
Engineering Branch 2
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 Loss of Offsite Power/Station Blackout Events.

cc w/encl:
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INFORMATION REQUEST FOR THE SAFETY SYSTEM DESIGN AND
PERFORMANCE CAPABILITY INSPECTION:

LOSS OF OFFSITE POWER/STATION BLACKOUT EVENTS

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

The main equipment that will be initially considered for evaluation, i.e., those that will mitigate LOOP and SBO scenarios, would be the emergency diesel generators (EDGs); vital switchgear (480 and 4160 Volt breakers and controls circuits); transformers; critical ventilation for control room, secondary containment building, and EDG building; station vital and dedicated batteries; and support equipment such as EDG control, fuel, and cooling systems; engine driven fire pump; and unit cross connection electrical and piping systems.

The following materials or ready access to the materials are requested:

- Site specific administrative procedures related to standard operation, abnormal operation, and emergency operation of the equipment identified above and other related systems that would be possibly used during a loss of offsite power and/or a station blackout.
- List of valves required to change position or that may be operated (manually, check shut, and automatically) for a LOOP/SBO event.
- List of valves in the above list that are air operated and without air, fail to the incorrect position for the LOOP/SBO scenarios.
- List of switchyard breakers, relays and switchgear that change state(s) during a LOOP and then an SBO.
- List of instruments expected to be used (read and referenced) during a LOOP/SBO scenario.
- List of switchyard and electrical equipment that supply offsite power to the site whose loss could initiate a LOOP. (e.g., switchyard batteries, relaying, etc.)
 - For switchyard equipment that is maintained, serviced and/or tested by an organization separate from the site, provide a point of contact with that organization along with any procedures and/or agreements by which the site monitors the activities of that organization.
 - For the listed switchyard equipment, the site should request that design criteria; applicable drawings and procedures; and modification, maintenance, testing, and nonconformance documentation for that equipment be provided or available for review by the inspection team. (Modification, maintenance, testing and nonconformance documentation should encompass the last three years.)

Enclosure

- Procedures and/or technical manuals for the maintenance, test and overhaul of the equipment identified above and other related systems that would be possibly used during a loss of offsite power and/or a station blackout.
- Design criteria (i.e., design basis documents) for the EDGs, vital switchgear, critical ventilation, vital and dedicated batteries, etc.
- Technical Specification requirements and a list of associated surveillance test/calibration procedures for the equipment listed above.
- Copies of applicable section of the UFSAR for the normal and emergency power, and related support systems, and copies of applicable sections of changes to the UFSAR which have yet to be docketed.
- For equipment identified above, provide piping and instrumentation drawings, one-line diagrams, electrical schematics, and wiring and logic diagrams (i.e., logic of voltage relays and load sequencing for LOOP).
- List of engineering calculations (Electrical, Instrumentation and Controls, and Mechanical/Nuclear) applicable to the EDGs, risk related switchgear, and critical ventilation systems.
- List of calculations related to meeting 10 CFR 50.63 Station Blackout rule.
- A list of plant modifications to the selected equipment and related support systems implemented since 1998.
- List of current open temporary modifications and operator workarounds involving operation of the above indicated equipment and the other related support systems.
- List of Action Requests (ARs) and other corrective action documents initiated since 1998 affecting the EDGs and the other equipment and support systems identified above.
- For the identified list of equipment/systems, list the components or systems that have been classified as maintenance rule a(1) status since January 1, 1998. Provide a summary of corrective maintenance activities, including the maintenance rule log, performed on the subject equipment in the past 12 months.
- An index of drawings for the subject equipment and support systems.
- Self assessments performed on the subject equipment and other related support systems.
- System description and operator training modules for the subject equipment and related support systems.

- List of Operating Experience Program evaluations of industry, vendor, or NRC generic issues related to the EDGs, switchgear, control equipment, instrumentation and critical HVAC for the past three years.