



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

**April 12, 2002**

Duke Energy Corporation  
ATTN: Mr. W. R. McCollum  
Vice President  
Oconee Site  
7800 Rochester Highway  
Seneca, SC 29672

**SUBJECT: SAFETY SYSTEM DESIGN AND PERFORMANCE CAPABILITY INSPECTION  
NRC INSPECTION REPORT NOS. 50-269/2002-09, 50-270/2002-09, and  
50-287/2002-09**

Dear Mr. McCollum:

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 Oconee facility during July - August, 2002. A team of five inspectors will perform the inspection. The inspection team will be led by Mr. J. Lenahan, 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 objective will be to evaluate the capability of the high pressure injection system and support systems, as well as other related systems, to perform the functions required to mitigate a small break loss of coolant (LOCA) event.

During a telephone conversation on April 9, 2002, Mr. J. Lenahan of my staff, and Mr. J. Smith 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: May 28 - 30, 2002
- Onsite inspection: July 15 - 19 and July 29 - August 2, 2002

The purpose of the information gathering visit is to obtain information and documentation outlined in the enclosure needed to support the inspection. Mr. W. Rogers a Region II Senior Reactor Analyst, will accompany Mr. J. Lenahan during the information gathering visit to review PRA data and identify risk significant components which will be examined during the inspection. Please contact Mr. J. Lenahan 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 reactor site access; and the availability of knowledgeable plant engineering and licensing organization personnel to serve as points of contact during the inspection.

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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) 562-4605, or Mr. J. Lenahan at (404) 562-4625.

Sincerely,

**/RA/**

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

Docket Nos.: 50-269, 50-270, 50-287  
License Nos.: DPR-38, DPR-47, DPR-55

Enclosure: Information Request for the High  
Pressure Injection System

cc w/encl:  
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Duke Energy Corporation  
Electronic Mail Distribution

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

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(cc w/encl cont'd)

R. Mike Gandy

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SIGNATURE	<b>OGLE</b>	<b>CARROLL</b>					
NAME	LENAHAN	HAAG					
DATE	04/ 11/2002	04/12/2002					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO		YES NO

OFFICIAL RECORD COPY

DOCUMENT NAME: C:\ORPCheckout\FileNET\ML021020555.wpd

**INFORMATION REQUEST FOR THE SAFETY SYSTEM DESIGN AND  
PERFORMANCE CAPABILITY INSPECTION:**

**SMALL BREAK LOCA EVENT**

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

- Site specific administrative procedures related to standard operation, abnormal operation, and emergency operation of the high pressure injection (HPI) system, including support systems, and other related systems during a small break loss of coolant accident (LOCA). Other related systems include, but may not be limited to the emergency power source (Keowee), other portions of the emergency core cooling system (e.g. the core flooding system, low pressure injection system, and containment building sumps), the service water system, and the instrument air system.
- Design criteria (i.e., design basis documents) for the HPI system and other related systems.
- HPI system Technical Specification requirements and a list of associated surveillance test/calibration procedures for the HPI system and related systems.
- Copies of applicable sections of the UFSAR for the HPI system, and other related systems and copies of applicable sections of changes to the UFSAR which have yet to be docketed.
- HPI system, and other related systems piping and instrumentation drawings, one-line diagrams; electrical schematics, and wiring and logic diagrams.
- A list of engineering calculations (Electrical, Instrumentation and Controls and Mechanical/Nuclear) applicable to the HPI system, and other related systems.
- A list of plant modifications to the HPI system, and other related systems, implemented since 1992.
- List of current open temporary modifications and operator work arounds involving operation of the HPI and the other related systems.
- List of Problem Investigation Process Reports (PIPs) initiated since 1992 affecting the HPI system, and other related systems.
- Summary of corrective maintenance activities, including the maintenance rule event log, performed on the HPI system and other related systems in the past 12 months.
- An index of drawings for the HPI system, and other related systems.
- Self-assessment performed on HPI system and other related systems in the last 24 months.

Enclosure

- System description and operator training modules for the HPI system and other related systems.
- Strategy for handling a small break LOCA.
- List of Operating Experience Program evaluations of industry, vendor, or NRC generic issues related to the HPI system for the past 3 years.
- List of valves in the HPI system required to change position for a small break LOCA.
- List of instrument setpoint changes affecting the HPI system and related systems initiated since 1992. Include the number and title, date, brief description, and corresponding calculation number.
- PRA Fault Tree Data for the HPI.
- PRA/Risk Achievement Worth (RAW) listing for the HPI system, and related support systems, evaluated for failure of the HPI system.
- PRA Event Tree for the small break LOCA initiating event.
- A list of PRA system dependencies and success criteria for HPI and its support systems