



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

May 4, 2011

Mr. T. Preston Gillespie, Jr.
Site Vice President
Duke Energy Carolinas, LLC
Oconee Nuclear Station
7800 Rochester Highway
Seneca, SC 29672

**SUBJECT: NOTIFICATION OCONEE NUCLEAR PLANT - COMPONENT DESIGN BASES
INSPECTION - NRC INSPECTION REPORT 05000269,270,287/2011010**

Dear Mr. Gillespie:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a component design bases inspection at your Oconee Nuclear Power Plant reactor facility during the period of August 15 – September 30, 2011. The inspection team will be led by Mr. Patrick Higgins, a Senior Reactor Inspector from the NRC's Region II Office. This inspection will be conducted in accordance with the baseline inspection procedure, Procedure 71111.21, Component Design Bases Inspection, issued August 19, 2008.

The inspection will evaluate the capability of risk significant / low margin components to function as designed and to support proper system operation. The inspection will also include a review of selected operator actions, operating experience, and modifications.

During a discussion on April 26, 2011, Mr. Higgins confirmed, with Ms. Judy Smith of your staff, arrangements for an information gathering site visit and the three-week onsite inspection. The schedule is as follows:

- Information gathering visit: July 11 – July 15, 2011
- Week 1 of onsite inspection: August 29 – September 2, 2011
- Week 2 of onsite inspection: September 12 – September 16, 2011
- Week 3 of onsite inspection: September 26 – September 30, 2011

The purpose of the information gathering visit is to meet with members of your staff to identify risk-significant components and operator actions. Information and documentation needed to support the inspection will also be identified and gathered or requested. Mr. Rudolph Bernhard, Region II Senior Reactor Analyst, may accompany Mr. Higgins during the information gathering visit to review probabilistic risk assessment data and identify risk significant components which will be examined during the inspection.

The enclosure lists documents that will be needed prior to the information gathering visit. Please contact Mr. Higgins with any questions prior to preparing materials listed in the enclosure and provide the referenced information to the Region II office by **June 10, 2011**, unless otherwise noted. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for the inspection preparation.

During the information gathering visit, the team leader will also discuss the following inspection support administrative details: office space; site, plant and information system access; required resources; and information exchange protocol.

In accordance with 10 CFR 2.390 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 Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011.

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Higgins at (404) 997-4615 or me at (404) 997-4519.

Sincerely,

/RA/

Binoy B. Desai, Chief
Engineering Branch 1
Division of Reactor Safety

Docket Nos.: 50-269,270,287

License Nos.: DPR-38,47,55

Enclosure: Information Request for Oconee Nuclear Power Plant Component Design
Bases Inspection

cc w/encl: (See page 3)

cc w/encl:
Division of Radiological Health
TN Dept. of Environment & Conservation
401 Church Street
Nashville, TN 37243-1532

David A. Baxter
Vice President, Nuclear Engineering
Duke Energy Carolinas, LLC
Electronic Mail Distribution

Kent Alter
Regulatory Compliance Manager
Oconee Nuclear Station
Duke Energy Carolinas, LLC
Electronic Mail Distribution

Sandra Threath, Manager
Nuclear Response and Emergency
Environmental Surveillance
Bureau of Land and Waste Management
Department of Health and Environmental
Control
Electronic Mail Distribution

Scott L. Batson
Station Manager
Oconee Nuclear Station
Duke Energy Carolinas, LLC
Electronic Mail Distribution

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Oconee Nuclear Station
U.S. Nuclear Regulatory Commission
7812B Rochester Hwy
Seneca, SC 29672

Terry L. Patterson
Safety Assurance Manager
Duke Energy Carolinas, LLC
Electronic Mail Distribution

Charles Brinkman
Director
Washington Operations
Westinghouse Electric Company, LLC
Electronic Mail Distribution

Tom D. Ray
Engineering Manager
Oconee Nuclear Station
Duke Energy Carolinas, LLC
Electronic Mail Distribution

County Supervisor of Oconee County
415 S. Pine Street
Walhalla, SC 29691-2145

W. Lee Cox, III
Section Chief
Radiation Protection Section
N.C. Department of Environmental
Commerce & Natural Resources
Electronic Mail Distribution

The enclosure lists documents that will be needed prior to the information gathering visit. Please contact Mr. Higgins with any questions prior to preparing materials listed in the enclosure and provide the referenced information to the Region II office by **June 10, 2011**, unless otherwise noted. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for the inspection preparation.

During the information gathering visit, the team leader will also discuss the following inspection support administrative details: office space; site, plant and information system access; required resources; and information exchange protocol.

In accordance with 10 CFR 2.390 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 Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011.

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Higgins at (404) 997-4615 or me at (404) 997-4519.

Sincerely,

/RA/

Binoy B. Desai, Chief
Engineering Branch 1
Division of Reactor Safety

Docket Nos.: 50-269,270,287

License Nos.: DPR-38,47,55

Enclosure: Information Request for Oconee Nuclear Power Plant Component Design
Bases Inspection

cc w/encl: (See page 3)

X PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE X NON-SENSITIVE
ADAMS: X Yes ACCESSION NUMBER: ML111250617 X SUNSI REVIEW COMPLETE

| | | | | | | | |
|--------------|------------|----------|--------|--------|--------|--------|--------|
| OFFICE | RII:DRS | RII:DRS | | | | | |
| SIGNATURE | RA | RA | | | | | |
| NAME | P. Higgins | B. Desai | | | | | |
| DATE | 5/4/2011 | 5/4/2011 | | | | | |
| E-MAIL COPY? | YES NO | YES NO | YES NO | YES NO | YES NO | YES NO | YES NO |

OFFICIAL RECORD COPY

DOCUMENT NAME: S:\DRS\ENG BRANCH 1\BRANCH INSPECTION FILES\2011-2012-2013
CYCLE EB1 INSPECTION FOLDERS FOR ALL SITES\OCONEE\OCO
CDBI NOTIFICATION 2011 (SAW).DOC

Letter to Preston Gillespie from Binoy Desai dated May 4, 2011.

SUBJECT: NOTIFICATION OF OCONEE NUCLEAR POWER PLANT - COMPONENT
DESIGN BASES INSPECTION - NRC INSPECTION REPORT
05000269,270,287/2011010

Distribution w/encl:

RIDSNRRDIRS

PUBLIC

RidsNrrPMOconee Resource

REQUEST FOR OCONEE NUCLEAR POWER PLANT COMPONENT DESIGN BASES INSPECTION

Please provide the information electronically in “.pdf” files, Excel, or other searchable format on CD/DVD-ROM. The CD/DVD-ROM should be indexed and possibly hyperlinked to facilitate ease of use. Information in “lists” should contain enough information to be easily understood to someone who has knowledge of pressurized water reactor technology.

1. From your most recent probabilistic safety analysis (PSA) **excluding** external events and fires, please provide:
 - a. Two risk rankings of components from your site-specific probabilistic safety analysis (PSA) – one sorted by Risk Achievement Worth (RAW), and the other sorted by Birnbaum Importance.
 - b. A list of the top 500 cutsets.
2. From your most recent probabilistic safety analysis (PSA) **including** external events and fires, please provide:
 - a. Two risk rankings of components from your site-specific probabilistic safety analysis (PSA) – one sorted by Risk Achievement Worth (RAW), and the other sorted by Birnbaum Importance.
 - b. A list of the top 500 cutsets.
3. Risk ranking of operator actions from your site specific PSA sorted by RAW. Provide copies of your human reliability worksheets for these items.
4. Any pre-existing evaluation or list of components and calculations with low design margins (i.e., pumps closest to the design limit for flow or pressure, diesel generator close to design required output, heat exchangers close to rated design heat removal, MOV risk-margin rankings, etc.).
5. A list of station applicability evaluations/reviews performed and documented in the station corrective action program in the past two years for industry events, critical equipment failures, and safety related equipment vulnerabilities (as communicated by NRC generic communications, industry communications, 10 CFR Part 21 notifications, etc.).
6. A list of operability evaluations completed within the last two years, sorted by associated component or system.
7. A list of **common-cause failures** of components that have occurred at Oconee Nuclear Power Plant and have been identified within the last five years.
8. A list of equipment currently planned for upgrade/improvement by the site (e.g. “ONE” List), including a description of the reason(s) why each **component** (i.e. not a programmatic or system level concern) is on that list and summaries (if available) of your plans to address those reasons.
9. A list of equipment currently in RIS 05-020 (formerly GL 91-18) status, or in MR (a)(1) status.
10. Contact information for a person to discuss PRA information prior to the information gathering trip: name, title, phone number, and e-mail address.

Enclosure

11. Provide two sets of PI&D drawings (11x17) for safety-related systems and two sets of one line electrical drawings (11X17) for safety related systems (for onsite week of July 11- July 15, 2011)
12. Provide six copies of FSAR (CD/DVD-ROM only) (for onsite week of July 11- July 15, 2011)
13. Provide six copies of Technical Specifications and Bases (CD/DVD-ROM only) (for onsite week of July 11- July 15, 2011)