



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

August 30, 2005

Duke Energy Corporation  
ATTN: Mr. Ronald A. Jones  
Vice President  
Oconee Site  
7800 Rochester Highway  
Seneca, SC 29672

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - OCONEE  
NUCLEAR STATION

Dear Mr. Jones:

On August 3, 2005, the NRC staff completed its performance review of the Oconee Nuclear Station for the first half of the calendar year 2005 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and the enclosed inspection plan do not include physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and a resultant inspection plan.

Plant performance for the most recent quarter was within the Regulatory Response Column of the NRC's Action Matrix due to a third quarter 2004 Mitigating Systems cornerstone finding of low to moderate safety significance (White) involving a failure to maintain the licensing basis commitment for staffing the standby shutdown facility (SSF) in the event of a confirmed plant fire. As discussed in the Annual Assessment Letter, dated March 2, 2005, we conducted a Supplemental Inspection using NRC Inspection Procedure 95002, the week of May 23, 2005. The results of this inspection, documented in NRC Inspection Report 05000269,270,287/2005006, issued on June 22, 2005, determined that your problem identification, extent-of-condition evaluation, and corrective actions for this White finding, as well as a third quarter 2003 White finding discussed in the Annual Assessment Letter were adequate.

For your information, the following issues are still under staff review as part of the Significance Determination Process and may warrant additional supplemental inspections if they are determined to be of greater than very low risk significance.

- URI 05000269,270,287/2004002-04 (Potential Failure to Maintain RB Coatings per GL 98-04 Commitments, Resulting in Potential Loss of RBES Recirculation)
- URI 05000287/2002007-02 (Unit 3 Control Room Wall not Designed to Withstand Tornado Loads) and URI 05000287/2004003-02 (Inadequate Corrective Actions Related

to the Improper Use of 10 CFR 50.59 to Change the UFSAR Tornado Missile Design Requirements of the Unit 3 Control Room)

Based on the results of the Supplemental Inspection, we plan to conduct only reactor oversight process baseline inspections at your facility through March 31, 2007. We also plan on conducting inspections that are not part of the routine baseline inspection program. These inspections include a routine inspection associated with your independent spent fuel storage installation; a safety issue inspection concerning the reactor pressurizer penetration nozzles and steam space piping connections (NRC Bulletin 2004-01); and the administration of operator licensing examinations.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through March 31, 2007. The inspection plan is provided to minimize the resource impact on your staff and to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last twelve months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Michael Ernstes at (404) 562-4540 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Charles A. Casto, Director  
Division of Reactor Projects

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

Enclosure: Oconee Inspection/Activity Plan

DEC

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**Oconee**  
**Inspection / Activity Plan**  
**09/01/2005 - 03/31/2007**

| Unit Number | Inspection Activity   | Title   | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|-------------|---|---|----------------------|---------------------|-------------------|----------------------|
|             | <b>PS1-RP - RP PREINSPECTION VISIT/ ISFSI</b>                 |   | <b>1</b>             |                     |                   |                      |
| 1, 2, 3     | IP 7112101  | Access Control to Radiologically Significant Areas                                  |                      | 09/27/2005          | 09/29/2005        | Baseline Inspections |
|             | <b>PS1-RP - RP OCCUPATIONAL BASELINE WK-1</b>                 |   | <b>3</b>             |                     |                   |                      |
| 1, 2, 3     | IP 2515/161   | Transportation of Reactor Control Rod Drives in Type A Packages                     |                      | 10/23/2005          | 10/27/2005        | Safety Issues        |
| 1, 2, 3     | IP 7112101  | Access Control to Radiologically Significant Areas                                  |                      | 10/23/2005          | 10/27/2005        | Baseline Inspections |
| 1, 2, 3     | IP 7112102  | ALARA Planning and Controls   |                      | 10/23/2005          | 10/27/2005        | Baseline Inspections |
| 1, 2, 3     | IP 7112202  | Radioactive Material Processing and Transportation                                  |                      | 10/23/2005          | 10/27/2005        | Baseline Inspections |
| 1, 2        | IP 71151  | Performance Indicator Verification  |                      | 10/23/2005          | 10/27/2005        | Baseline Inspections |
|             | <b>EB3-ISI - U2 INSERVICE INSPECTION</b>                      |   | <b>2</b>             |                     |                   |                      |
| 2           | IP 7111108P   | Inservice Inspection Activities - PWR   |                      | 10/31/2005          | 11/04/2005        | Baseline Inspections |
|             | <b>EB3TI160 - 2515/160 U-2: PZR PENETRATION NOZZLES</b>       |   | <b>1</b>             |                     |                   |                      |
| 2           | IP 2515/160   | Pzr Pene Nozzles & Stm Space Piping Connections in U.S. PWRs [NRC Bulletin 2004-01] |                      | 10/31/2005          | 11/04/2005        | Safety Issues        |
|             | <b>EB3SGISI - STEAM GENERATOR ISI</b>                         |   | <b>2</b>             |                     |                   |                      |
| 2           | IP 7111108P   | Inservice Inspection Activities - PWR   |                      | 11/07/2005          | 11/10/2005        | Baseline Inspections |
|             | <b>PS1-RP - RP OCCUPATIONAL BASELINE WK-2</b>                 |   | <b>3</b>             |                     |                   |                      |
| 1, 2, 3     | IP 7112101  | Access Control to Radiologically Significant Areas                                  |                      | 11/07/2005          | 11/11/2005        | Baseline Inspections |
| 1, 2, 3     | IP 7112102  | ALARA Planning and Controls   |                      | 11/07/2005          | 11/11/2005        | Baseline Inspections |
| 1, 2, 3     | IP 7112202  | Radioactive Material Processing and Transportation                                  |                      | 11/07/2005          | 11/11/2005        | Baseline Inspections |
| 1, 2, 3     | IP 71151  | Performance Indicator Verification  |                      | 11/07/2005          | 11/11/2005        | Baseline Inspections |
|             | <b>EB350.59 - 50.59 CORRECTIVE ACTION</b>                     |   | <b>1</b>             |                     |                   |                      |
| 1, 2, 3     | IP 71152  | Identification and Resolution of Problems   |                      | 12/05/2005          | 12/09/2005        | Baseline Inspections |
|             | <b>EB1SSDPC - SSDPC PRE-INSPECTION VISIT</b>                  |   | <b>1</b>             |                     |                   |                      |
| 1, 2, 3     | IP 7111121  | Safety System Design and Performance Capability                                     |                      | 01/16/2006          | 01/20/2006        | Baseline Inspections |
|             | <b>EB1SSDPC - SAFETY SYSTEM DESIGN &amp; PERF. CAPABILITY</b> |   | <b>6</b>             |                     |                   |                      |
| 1, 2, 3     | IP 7111121  | Safety System Design and Performance Capability                                     |                      | 02/13/2006          | 02/17/2006        | Baseline Inspections |
| 1, 2, 3     | IP 7111121  | Safety System Design and Performance Capability                                     |                      | 02/27/2006          | 03/03/2006        | Baseline Inspections |
| 1, 2, 3     | IP 7111121  | Safety System Design and Performance Capability                                     |                      | 03/13/2006          | 03/17/2006        | Baseline Inspections |
|             | <b>EB3-ISI - U3 INSERVICE INSPECTION</b>                      |   | <b>1</b>             |                     |                   |                      |
| 3           | IP 7111108P   | Inservice Inspection Activities - PWR   |                      | 05/08/2006          | 05/12/2006        | Baseline Inspections |
|             | <b>EB3SGISI - U3 STEAM GENERATOR ISI</b>                      |   | <b>1</b>             |                     |                   |                      |
| 3           | IP 7111108P   | Inservice Inspection Activities - PWR   |                      | 05/15/2006          | 05/19/2006        | Baseline Inspections |
|             | <b>OL PREP - INITIAL EXAM PREP</b>                            |   | <b>3</b>             |                     |                   |                      |
| 1           | V23216  | OCONEE/EXAMS AT POWER FACILITIES  |                      | 05/22/2006          | 05/26/2006        | Not Applicable       |
|             | <b>PS1-RP - RP BASELINE PUBLIC</b>                            |   | <b>4</b>             |                     |                   |                      |
| 1, 2, 3     | IP 7112101  | Access Control to Radiologically Significant Areas                                  |                      | 06/19/2006          | 06/23/2006        | Baseline Inspections |

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

Enclosure

**Oconee**  
**Inspection / Activity Plan**  
**09/01/2005 - 03/31/2007**

| Unit Number                                | Inspection Activity | Title   | No. of Staff on Site | Planned Dates Start | Planned Dates End | Inspection Type      |
|--|---------------------|---|----------------------|---------------------|-------------------|----------------------|
| <b>PS1-RP - RP BASELINE PUBLIC</b>         |                     |   | <b>4</b>             |                     |                   |                      |
| 1, 2, 3                                    | IP 7112103          | Radiation Monitoring Instrumentation and Protective Equipment                           |                      | 06/19/2006          | 06/23/2006        | Baseline Inspections |
| 1, 2, 3                                    | IP 7112201          | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems                |                      | 06/19/2006          | 06/23/2006        | Baseline Inspections |
| 1, 2, 3                                    | IP 7112203          | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P |                      | 06/19/2006          | 06/23/2006        | Baseline Inspections |
| 1, 2, 3                                    | IP 71151            | Performance Indicator Verification  |                      | 06/19/2006          | 06/23/2006        | Baseline Inspections |
| <b>OL EXAM - INITIAL EXAM</b>              |                     |   | <b>3</b>             |                     |                   |                      |
| 1  | V23216              | OCONEE/EXAMS AT POWER FACILITIES  |                      | 06/19/2006          | 06/30/2006        | Not Applicable       |
| <b>PS2-EP - EP EXERCISE</b>                |                     |   | <b>3</b>             |                     |                   |                      |
| 1, 2, 3                                    | IP 7111401          | Exercise Evaluation   |                      | 07/17/2006          | 07/21/2006        | Baseline Inspections |
| 1, 2, 3                                    | IP 7111404          | Emergency Action Level and Emergency Plan Changes                                       |                      | 07/17/2006          | 07/21/2006        | Baseline Inspections |
| 1, 2, 3                                    | IP 71151            | Performance Indicator Verification  |                      | 07/17/2006          | 07/21/2006        | Baseline Inspections |
| <b>EB3-HS - HEAT SINK</b>                  |                     |   | <b>2</b>             |                     |                   |                      |
| 1, 2, 3                                    | IP 7111107B         | Heat Sink Performance   |                      | 07/24/2006          | 07/28/2006        | Baseline Inspections |
| <b>EB1-MODS - MODIFICATIONS/10CFR50.59</b> |                     |   | <b>3</b>             |                     |                   |                      |
| 1, 2, 3                                    | IP 7111102          | Evaluation of Changes, Tests, or Experiments  |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
| 1, 2, 3                                    | IP 711117B          | Permanent Plant Modifications   |                      | 10/02/2006          | 10/06/2006        | Baseline Inspections |
| <b>EB3-ISI - U1 INSERVICE INSPECTION</b>   |                     |   | <b>1</b>             |                     |                   |                      |
| 1  | IP 7111108P         | Inservice Inspection Activities - PWR   |                      | 10/16/2006          | 10/20/2006        | Baseline Inspections |
| <b>EB3SGISI - U1 STEAM GENERATOR ISI</b>   |                     |   | <b>1</b>             |                     |                   |                      |
| 1  | IP 7111108P         | Inservice Inspection Activities - PWR   |                      | 10/23/2006          | 10/27/2006        | Baseline Inspections |
| <b>EB3-MR - MR EFFECTIVENESS</b>           |                     |   | <b>2</b>             |                     |                   |                      |
| 1, 2, 3                                    | IP 711112B          | Maintenance Effectiveness   |                      | 12/04/2006          | 12/08/2006        | Baseline Inspections |
| <b>OL RQ - REQUAL INSPECTION</b>           |                     |   | <b>2</b>             |                     |                   |                      |
| 1, 2, 3                                    | IP 7111111B         | Licensed Operator Requalification Program   |                      | 03/26/2007          | 03/30/2007        | Baseline Inspections |