



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

March 4, 2015

Mr. Benjamin C. Waldrep
Vice President
Shearon Harris Nuclear Power Plant
5413 Shearon Harris Rd
New Hill, NC 27562-0165

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR POWER
PLANT – NRC INSPECTION REPORT 05000400/2014001**

Dear Mr. Waldrep:

On February 11, 2015, the NRC completed its end-of-cycle performance review of the Shearon Harris Nuclear Power Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014, through December 31, 2014. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, the Shearon Harris Nuclear Power Plant operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Shearon Harris Nuclear Power Plant during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2016. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

We also plan on conducting the following infrequently performed inspections and temporary instructions: Operator Licensing Exams; and TI 2515/191: Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans.

B. Waldrep

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In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 404-997-4645 with any questions you may have regarding this letter.

Sincerely,

/RA/

George T. Hopper, Chief
Reactor Projects Branch 4
Division of Reactor Projects

Docket No.: 50-400
License No.: NPF-63

Enclosure: Harris Inspection/Activity Plan
(03/01/2015 – 06/30/2016)

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B. Waldrep

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|--------------|------------|------------|------------|--|--|--|--|
| OFFICE | RII:DRP | RII:DRP | RII:DRP | | | | |
| SIGNATURE | DXW4 | JSD | GTH | | | | |
| NAME | D. Jackson | J. Dodson | G. Hopper | | | | |
| DATE | 02/13/2015 | 03/04/2015 | 02/20/2015 | | | | |
| E-MAIL COPY? | YES NO | YES NO | YES NO | | | | |

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B. Waldrep

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Letter to Mr. Benjamin C. Waldrep from George T. Hopper dated March 4, 2015.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR POWER
PLANT – NRC INSPECTION REPORT 05000400/2014001

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ROP Assessment

ROP Reports

Institute of Nuclear Power Operations (INPO)

Harris
Inspection / Activity Plan
03/01/2015 - 06/30/2016

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|--|--|----------------------|
| | Start | End | | | |
| | | | ASM EP - 2015 EP ASM & RES BASELINE | | 3 |
| 1 | 01/01/2015 | 12/31/2015 | IP 7111406 | Drill Evaluation | |
| | | | SGISI - UNIT 1 SG IN-SERVICE INSPECTION | | 1 |
| 1 | 04/13/2015 | 04/17/2015 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | ISI - UNIT 1 IN-SERVICE INSPECTION & RVH EXAM | | 2 |
| 1 | 04/13/2015 | 04/17/2015 | IP 7111108P | Inservice Inspection Activities - PWR | |
| | | | RP - RP OCCUPATIONAL BASELINE WEEK 1 | | 2 |
| 1 | 04/13/2015 | 04/17/2015 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 04/13/2015 | 04/17/2015 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 04/13/2015 | 04/17/2015 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 04/13/2015 | 04/17/2015 | IP 71124.04 | Occupational Dose Assessment | |
| 1 | 04/13/2015 | 04/17/2015 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| 1 | 04/13/2015 | 04/17/2015 | IP 71151 | Performance Indicator Verification | |
| | | | RP - RP OCCUPATIONAL BASELINE WEEK 2 | | 3 |
| 1 | 04/27/2015 | 05/01/2015 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 04/27/2015 | 05/01/2015 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 04/27/2015 | 05/01/2015 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 04/27/2015 | 05/01/2015 | IP 71124.04 | Occupational Dose Assessment | |
| 1 | 04/27/2015 | 05/01/2015 | IP 71124.05 | Radiation Monitoring Instrumentation | |
| 1 | 04/27/2015 | 05/01/2015 | IP 71151 | Performance Indicator Verification | |
| | | | OL RQ - REQUAL INSP | | 2 |
| 1 | 08/03/2015 | 08/07/2015 | IP 7111111B | Licensed Operator Requalification Program | |
| | | | PI&R - PROBLEM IDENTIFICATION AND RESOLUTION | | 5 |
| 1 | 09/14/2015 | 09/18/2015 | IP 71152B | Problem Identification and Resolution | |
| 1 | 09/28/2015 | 10/02/2015 | IP 71152B | Problem Identification and Resolution | |
| | | | EP - EP EXERCISE | | 8 |
| 1 | 10/26/2015 | 10/30/2015 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1 | 10/26/2015 | 10/30/2015 | IP 7111407 | Exercise Evaluation - Hostile Action (HA) Event | |
| 1 | 10/26/2015 | 10/30/2015 | IP 71151 | Performance Indicator Verification | |
| | | | MODS - PLANT MODIFICATIONS INSPECTION | | 3 |
| 1 | 11/16/2015 | 11/20/2015 | IP 7111117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |
| 1 | 12/07/2015 | 12/11/2015 | IP 7111117T | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications | |

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

Enclosure

Harris
Inspection / Activity Plan
03/01/2015 - 06/30/2016

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|--|--|----------------------|
| | Start | End | | | |
| | | | ASM EP - 2016 EP ASM & RES BASELINE | | 3 |
| 1 | 01/01/2016 | 12/31/2016 | IP 7111406 | Drill Evaluation | |
| | | | EP - EP PROGRAM INSPECTION | | 2 |
| 1 | 05/23/2016 | 05/27/2016 | IP 7111401 | Exercise Evaluation | |
| 1 | 05/23/2016 | 05/27/2016 | IP 7111402 | Alert and Notification System Testing | |
| 1 | 05/23/2016 | 05/27/2016 | IP 7111403 | Emergency Preparedness Organization Staffing and Augmentation System | |
| 1 | 05/23/2016 | 05/27/2016 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1 | 05/23/2016 | 05/27/2016 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| | | | HS - TRIENNIAL HEAT SINK PERFORMANCE | | 1 |
| 1 | 06/13/2016 | 06/17/2016 | IP 7111107T | Heat Sink Performance | |
| | | | OL EXAM - INITIAL LICENSE EXAM PREP | | 3 |
| 1 | 06/13/2016 | 06/17/2016 | V23474 | HARRIS JULY 2016 INITIAL EXAM AT POWER FACILITIES | |

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