



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

February 28, 2018

Tanya M. Hamilton  
Site Vice President  
Shearon Harris Nuclear Power Plant  
5413 Shearon Harris Rd.  
M/C HNP01  
New Hill, NC 27562-0165

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR  
POWER PLANT – NRC INSPECTION REPORTS 05000400/2017006,  
05000400/2017402, 05000400/2017501**

Dear Ms. Hamilton:

The NRC has completed its end-of-cycle performance assessment of Shearon Harris Nuclear Power Plant, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017, through December 31, 2017. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Shearon Harris Nuclear Power Plant during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the 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 December 31, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

T. Hamilton

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This letter will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Please contact me at 404-997-4609 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Steven D. Rose, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

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

Enclosure:  
Harris Inspection/Activity Plan

cc Distribution via ListServ

T. Hamilton

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**ADAMS Accession No. ML 18059A088**

|        |           |           |            |           |  |
|--------|-----------|-----------|------------|-----------|--|
| OFFICE | RII:DRP   | RII:DRP   | RII: DRP   | RII: DRP  |  |
| NAME   | DJackson  | JDodson   | WDeschaine | SRose     |  |
| DATE   | 2/23/2018 | 2/27/2018 | 2/27/2018  | 2/26/2018 |  |

**OFFICIAL AGENCY RECORD**

# IP 22 Inspection Activity Plan Report

## Harris

03/01/2018 - 12/31/2019

| Unit   | Start      | End        | Activity      | CAC    | Title   | Staff Count |
|--|------------|------------|---------------|--------|---|-------------|
| <b>HARRIS INITIAL LICENSE EXAM</b>                   |            |            |               |        |   | <b>3</b>    |
| 1  | 03/05/2018 | 03/16/2018 | EXAD          | 000500 | LICENSE EXAM ADMINISTRATION (EXAD)  |             |
| <b>EP PROGRAM INSPECTION</b>                         |            |            |               |        |   | <b>2</b>    |
| 1  | 03/26/2018 | 03/30/2018 | IP 71114.02   | 000717 | Alert and Notification System Testing   |             |
| 1  | 03/26/2018 | 03/30/2018 | IP 71114.03   | 000718 | Emergency Response Organization Staffing and Augmentation System                                  |             |
| 1  | 03/26/2018 | 03/30/2018 | IP 71114.04   | 000719 | Emergency Action Level and Emergency Plan Changes   |             |
| 1  | 03/26/2018 | 03/30/2018 | IP 71114.05   | 000720 | Correction of Emergency Preparedness Weaknesses and Deficiencies                                  |             |
| 1  | 03/26/2018 | 03/30/2018 | IP 71151      | 001397 | Performance Indicator Verification  |             |
| <b>SECURITY BASELINE INSPECTION</b>                  |            |            |               |        |   | <b>1</b>    |
| 1  | 03/26/2018 | 03/30/2018 | IP 71130.02   | 000734 | Access Control  |             |
| 1  | 03/26/2018 | 03/30/2018 | IP 71151      | 001338 | Performance Indicator Verification  |             |
| <b>UNIT 1 IN-SERVICE INSPECTION &amp; RVH EXAM</b>   |            |            |               |        |   | <b>2</b>    |
| 1  | 04/09/2018 | 04/13/2018 | IP 71111.08P  | 000702 | Inservice Inspection Activities - PWR   |             |
| 1  | 04/16/2018 | 04/20/2018 | IP 71111.08P  | 000702 | Inservice Inspection Activities - PWR   |             |
| <b>RP RAD HAZARDS &amp; TRANSPORTATION</b>           |            |            |               |        |   | <b>2</b>    |
| 1  | 04/16/2018 | 04/20/2018 | IP 71124.01   | 000725 | Radiological Hazard Assessment and Exposure Controls  |             |
| 1  | 04/16/2018 | 04/20/2018 | IP 71124.08   | 000732 | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation |             |
| <b>FORCE-ON-FORCE PLANNING &amp; EXERCISE WEEK</b>   |            |            |               |        |   | <b>7</b>    |
| 1  | 07/30/2018 | 08/03/2018 | IP 71130.03   | 000735 | Contingency Response - Force-On-Force Testing   |             |
| 1  | 08/20/2018 | 08/24/2018 | IP 71130.03   | 000735 | Contingency Response - Force-On-Force Testing   |             |
| <b>TRIENNIAL FIRE PROTECTION INSPECTION</b>          |            |            |               |        |   | <b>5</b>    |
| 1  | 08/13/2018 | 08/17/2018 | IP 71111.05XT | 000697 | Fire Protection - NFPA 805 (Triennial)  |             |
| 1  | 08/27/2018 | 08/31/2018 | IP 71111.05XT | 000697 | Fire Protection - NFPA 805 (Triennial)  |             |
| <b>EVALUATIONS OF CHANGES, TESTS AND EXPERIMENTS</b> |            |            |               |        |   | <b>3</b>    |
| 1  | 10/22/2018 | 10/26/2018 | IP 71007      | 000689 | Reactor Vessel Head Replacement Inspection  |             |
| 1  | 10/22/2018 | 10/26/2018 | IP 71111.17T  | 000709 | Evaluations of Changes, Tests, and Experiments  |             |

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

# IP 22 Inspection Activity Plan Report

|  |            |            |              |        |  |          |
|--|------------|------------|--------------|--------|--|----------|
| <b>DUKE CORP AA/FFD/SGI SECURITY INSPECTION</b>    |            |            |              |        |  | <b>2</b> |
| 1  | 11/05/2018 | 11/09/2018 | IP 71130.01  | 000733 | Access Authorization   |          |
| 1  | 11/05/2018 | 11/09/2018 | IP 71130.06  | 000738 | Protection of Safeguards Information   |          |
| 1  | 11/05/2018 | 11/09/2018 | IP 71130.08  | 000740 | Fitness For Duty Program   |          |
| <b>RP PUBLIC</b>                                   |            |            |              |        |  | <b>2</b> |
| 1  | 12/10/2018 | 12/14/2018 | IP 71124.06  | 000730 | Radioactive Gaseous and Liquid Effluent Treatment                                      |          |
| 1  | 12/10/2018 | 12/14/2018 | IP 71124.07  | 000731 | Radiological Environmental Monitoring Program  |          |
| 1  | 12/10/2018 | 12/14/2018 | IP 71151     | 000746 | Performance Indicator Verification   |          |
| <b>SECURITY BASELINE INSPECTION</b>                |            |            |              |        |  | <b>1</b> |
| 1  | 01/07/2019 | 01/11/2019 | IP 71130.01  | 000733 | Access Authorization   |          |
| 1  | 01/07/2019 | 01/11/2019 | IP 71130.06  | 000738 | Protection of Safeguards Information   |          |
| 1  | 01/07/2019 | 01/11/2019 | IP 71130.08  | 000740 | Fitness For Duty Program   |          |
| <b>DESIGN BASES ASSURANCE INSPECTION (PROGRAM)</b> |            |            |              |        |  | <b>3</b> |
| 1  | 02/04/2019 | 02/08/2019 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs)   |          |
| 1  | 03/04/2019 | 03/08/2019 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs)   |          |
| 1  | 03/18/2019 | 03/22/2019 | IP 71111.21N | 000714 | Design Bases Assurance Inspection (Programs)   |          |
| <b>EP EXERCISE INSPECTION</b>                      |            |            |              |        |  | <b>6</b> |
| 1  | 04/29/2019 | 05/03/2019 | IP 71114.01  | 000716 | Exercise Evaluation  |          |
| 1  | 04/29/2019 | 05/03/2019 | IP 71114.04  | 000719 | Emergency Action Level and Emergency Plan Changes                                      |          |
| 1  | 04/29/2019 | 05/03/2019 | IP 71114.08  | 000723 | Exercise Evaluation Scenario Review  |          |
| 1  | 04/29/2019 | 05/03/2019 | IP 71151     | 001397 | Performance Indicator Verification   |          |
| <b>CYBER SECURITY</b>                              |            |            |              |        |  | <b>1</b> |
| 1  | 06/03/2019 | 06/07/2019 | IP 71130.10P | 000741 | Cyber Security   |          |
| 1  | 06/17/2019 | 06/21/2019 | IP 71130.10P | 000741 | Cyber Security   |          |
| <b>TRIENNIAL HEAT SINK PERFORMANCE</b>             |            |            |              |        |  | <b>1</b> |
| 1  | 06/17/2019 | 06/21/2019 | IP 71111.07T | 000700 | Heat Sink Performance -Triennial   |          |
| <b>SECURITY BASELINE INSPECTION</b>                |            |            |              |        |  | <b>2</b> |
| 1  | 06/24/2019 | 06/28/2019 | IP 71130.02  | 000734 | Access Control   |          |
| 1  | 06/24/2019 | 06/28/2019 | IP 71130.04  | 000736 | Equipment Performance, Testing, and Maintenance  |          |
| 1  | 06/24/2019 | 06/28/2019 | IP 71130.07  | 000739 | Security Training  |          |
| 1  | 06/24/2019 | 06/28/2019 | IP 71151     | 001338 | Performance Indicator Verification   |          |
| <b>HARRIS REQUAL INSPECTION</b>                    |            |            |              |        |  | <b>2</b> |
| 1  | 08/05/2019 | 08/09/2019 | IP 71111.11B | 000704 | Licensed Operator Requalification Program and Licensed Operator Performance - Biennial |          |

# IP 22 Inspection Activity Plan Report

|  |            |            |              |        |  |          |
|--|------------|------------|--------------|--------|--|----------|
| <b>MC&amp;A TRIENNIAL INSPECTION</b>         |            |            |              |        |  | <b>1</b> |
| 1  | 10/01/2019 | 12/31/2019 | IP 71130.11  | 000742 | Material Control and Accounting (MC&A)                 |          |
| <b>UNIT 1 IN-SERVICE INSPECTION</b>          |            |            |              |        |  | <b>1</b> |
| 1  | 10/21/2019 | 10/25/2019 | IP 71111.08P | 000702 | Inservice Inspection Activities - PWR                  |          |
| <b>UNIT 1 SG IN-SERVICE INSPECTION</b>       |            |            |              |        |  | <b>1</b> |
| 1  | 10/21/2019 | 10/25/2019 | IP 71111.08P | 000702 | Inservice Inspection Activities - PWR                  |          |
| <b>RP OCCUPATIONAL - WEEK 1</b>              |            |            |              |        |  | <b>3</b> |
| 1  | 10/21/2019 | 10/25/2019 | IP 71124.01  | 000725 | Radiological Hazard Assessment and Exposure Controls   |          |
| 1  | 10/21/2019 | 10/25/2019 | IP 71124.02  | 000726 | Occupational ALARA Planning and Controls               |          |
| 1  | 10/21/2019 | 10/25/2019 | IP 71124.03  | 000727 | In-Plant Airborne Radioactivity Control and Mitigation |          |
| 1  | 10/21/2019 | 10/25/2019 | IP 71124.04  | 000729 | Occupational Dose Assessment                           |          |
| 1  | 10/21/2019 | 10/25/2019 | IP 71124.05  | 000729 | Radiation Monitoring Instrumentation                   |          |
| 1  | 10/21/2019 | 10/25/2019 | IP 71151     | 000746 | Performance Indicator Verification                     |          |
| <b>RP OCCUPATIONAL - WEEK 2</b>              |            |            |              |        |  | <b>3</b> |
| 1  | 11/18/2019 | 11/22/2019 | IP 71124.01  | 000725 | Radiological Hazard Assessment and Exposure Controls   |          |
| 1  | 11/18/2019 | 11/22/2019 | IP 71124.02  | 000726 | Occupational ALARA Planning and Controls               |          |
| 1  | 11/18/2019 | 11/22/2019 | IP 71124.03  | 000727 | In-Plant Airborne Radioactivity Control and Mitigation |          |
| 1  | 11/18/2019 | 11/22/2019 | IP 71124.04  | 000729 | Occupational Dose Assessment                           |          |
| 1  | 11/18/2019 | 11/22/2019 | IP 71124.05  | 000729 | Radiation Monitoring Instrumentation                   |          |
| 1  | 11/18/2019 | 11/22/2019 | IP 71151     | 000746 | Performance Indicator Verification                     |          |
| <b>PROBLEM IDENTIFICATION AND RESOLUTION</b> |            |            |              |        |  | <b>5</b> |
| 1  | 11/18/2019 | 11/22/2019 | IP 71152B    | 000747 | Problem Identification and Resolution                  |          |
| 1  | 12/09/2019 | 12/13/2019 | IP 71152B    | 000747 | Problem Identification and Resolution                  |          |

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 This report shows only on-site and announced inspection procedures.