



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

March 1, 2017

Ernest J. Kapopoulos, Jr. Site Vice President  
H. B. Robinson Steam Electric Plant  
Duke Energy  
3581 West Entrance Road, RNPA01  
Hartsville, SC 29550

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR H. B. ROBINSON STEAM ELECTRIC  
PLANT – NRC INSPECTION REPORT 05000261/2016006**

Dear Mr. Kapopoulos:

The NRC has completed its end-of-cycle performance assessment of the H. B. Robinson Steam Electric Plant, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016 through December 31, 2016. 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 the H. B. Robinson Steam Electric 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, 2018. 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. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, Temporary Instruction 2515/192, Inspection of the Licensee's Interim Compensatory Measures Associated with an Open Phase Condition (OPC) Design Vulnerability in Electric Power Systems, will be conducted before March 31, 2017.

E. Kapopoulos

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In accordance with Title 10 of the *Code of Federal Regulations* (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 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).

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 Nos.: 50-261  
License Nos.: DPR-23

Enclosure:  
Robinson Inspection/Activity Plan  
(03/01/2017 – 12/31/2018)

cc Distribution via ListServ

E. Kapopoulos

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SUBJECT: ANNUAL ASSESSMENT LETTER FOR H. B. ROBINSON STEAM ELECTRIC  
PLANT – NRC INSPECTION REPORT 05000261/2016006 March 1, 2017

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|        |             |             |  |  |  |
|--------|-------------|-------------|--|--|--|
| OFFICE | RII:DRP     | RII:DRP     |  |  |  |
| NAME   | J Dodson    | S Rose      |  |  |  |
| DATE   | 2/ 16 /2017 | 2/ 21 /2017 |  |  |  |

OFFICIAL RECORD COPY

**Robinson**  
**Inspection / Activity Plan**  
 03/01/2017 - 12/31/2018

| Unit Number | Planned Dates |            | Inspection Activity                                   | Title   | No. of Staff on Site |
|-------------|---------------|------------|---|---|----------------------|
|             | Start         | End        |   |   |                      |
|             |               |            | <b>TI 192 - TI-192</b>                                |   | <b>2</b>             |
| 2           | 01/01/2017    | 03/31/2017 | IP 2515/192   | Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition |                      |
|             |               |            | <b>ASM EP - 2017 EP ASM &amp; RES BASELINE</b>        |   | <b>2</b>             |
| 2           | 01/01/2017    | 12/31/2017 | IP 7111406  | Drill Evaluation  |                      |
|             |               |            | <b>ISI - UNIT 2 IN-SERVICE INSPECTION</b>             |   | <b>1</b>             |
| 2           | 03/06/2017    | 03/10/2017 | IP 7111108P   | Inservice Inspection Activities - PWR   |                      |
|             |               |            | <b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>        |   | <b>1</b>             |
| 2           | 03/06/2017    | 03/10/2017 | IP 7111108P   | Inservice Inspection Activities - PWR   |                      |
|             |               |            | <b>RP - RAD HAZARDS</b>                               |   | <b>1</b>             |
| 2           | 03/06/2017    | 03/10/2017 | IP 71124.01   | Radiological Hazard Assessment and Exposure Controls  |                      |
|             |               |            | <b>RP - RP OCCUPATIONAL INSPECTION</b>                |   | <b>3</b>             |
| 2           | 06/19/2017    | 06/23/2017 | IP 71124.02   | Occupational ALARA Planning and Controls  |                      |
| 2           | 06/19/2017    | 06/23/2017 | IP 71124.03   | In-Plant Airborne Radioactivity Control and Mitigation  |                      |
| 2           | 06/19/2017    | 06/23/2017 | IP 71124.04   | Occupational Dose Assessment  |                      |
| 2           | 06/19/2017    | 06/23/2017 | IP 71124.05   | Radiation Monitoring Instrumentation  |                      |
| 2           | 06/19/2017    | 06/23/2017 | IP 71151  | Performance Indicator Verification  |                      |
|             |               |            | <b>EP - EP EXERCISE</b>                               |   | <b>5</b>             |
| 2           | 07/10/2017    | 07/14/2017 | IP 7111401  | Exercise Evaluation   |                      |
| 2           | 07/10/2017    | 07/14/2017 | IP 7111404  | Emergency Action Level and Emergency Plan Changes   |                      |
| 2           | 07/10/2017    | 07/14/2017 | IP 7111408  | Exercise Evaluation – Scenario Review   |                      |
| 2           | 07/10/2017    | 07/14/2017 | IP 71151  | Performance Indicator Verification  |                      |
|             |               |            | <b>OL EXAM - INITIAL LICENSE EXAM PREP</b>            |   | <b>3</b>             |
| 2           | 08/28/2017    | 09/01/2017 | V23500  | ROBINSON/SEPTEMBER 2017 INITIAL EXAM AT POWER FACILITIES  |                      |
|             |               |            | <b>EQI - DESIGN BASES ASSURANCE INSPECTION (PROGR</b> |   | <b>3</b>             |
| 2           | 09/11/2017    | 09/15/2017 | IP 7111121N   | Component Design Bases Inspection (Programs)  |                      |
| 2           | 10/02/2017    | 10/06/2017 | IP 7111121N   | Component Design Bases Inspection (Programs)  |                      |
| 2           | 10/16/2017    | 10/20/2017 | IP 7111121N   | Component Design Bases Inspection (Programs)  |                      |
|             |               |            | <b>OL EXAM - INITIAL LICENSE EXAM</b>                 |   | <b>3</b>             |
| 2           | 09/25/2017    | 10/06/2017 | V23500  | ROBINSON/SEPTEMBER 2017 INITIAL EXAM AT POWER FACILITIES  |                      |
|             |               |            | <b>TFPI - TRIENNIEL FIRE PROTECTION INSPECTION</b>    |   | <b>5</b>             |
| 2           | 11/27/2017    | 12/01/2017 | IP 7111105T   | Fire Protection [Triennial]   |                      |
| 2           | 12/11/2017    | 12/15/2017 | IP 7111105T   | Fire Protection [Triennial]   |                      |

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

Enclosure

**Robinson**  
**Inspection / Activity Plan**  
**03/01/2017 - 12/31/2018**

| Unit Number | Planned Dates |            | Inspection Activity                                      | Title   | No. of Staff on Site |
|-------------|---------------|------------|--|---|----------------------|
|             | Start         | End        |  |   |                      |
|             |               |            | <b>MODS - PERMENANT PLANT MODIFICATION</b>               |   | <b>3</b>             |
| 2           | 02/26/2018    | 03/02/2018 | IP 711117T   | Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications                  |                      |
|             |               |            | <b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>  |   | <b>4</b>             |
| 2           | 03/05/2018    | 03/09/2018 | IP 71152B  | Problem Identification and Resolution   |                      |
| 2           | 03/19/2018    | 03/23/2018 | IP 71152   | Problem Identification and Resolution   |                      |
|             |               |            | <b>EP - EP PROGRAM INSPECTION</b>                        |   | <b>3</b>             |
| 2           | 03/12/2018    | 03/16/2018 | IP 7111402   | Alert and Notification System Testing   |                      |
| 2           | 03/12/2018    | 03/16/2018 | IP 7111403   | Emergency Preparedness Organization Staffing and Augmentation System                              |                      |
| 2           | 03/12/2018    | 03/16/2018 | IP 7111404   | Emergency Action Level and Emergency Plan Changes   |                      |
| 2           | 03/12/2018    | 03/16/2018 | IP 7111405   | Correction of Emergency Preparedness Weaknesses and Deficiencies                                  |                      |
| 2           | 03/12/2018    | 03/16/2018 | IP 71151   | Performance Indicator Verification  |                      |
|             |               |            | <b>RP - RP PUBLIC INSPECTION</b>                         |   | <b>2</b>             |
| 2           | 06/11/2018    | 06/15/2018 | IP 71124.06  | Radioactive Gaseous and Liquid Effluent Treatment   |                      |
| 2           | 06/11/2018    | 06/15/2018 | IP 71124.07  | Radiological Environmental Monitoring Program   |                      |
| 2           | 06/11/2018    | 06/15/2018 | IP 71151-OR01  | Occupational Exposure Control Effectiveness   |                      |
| 2           | 06/11/2018    | 06/15/2018 | IP 71151-PR01  | RETS/ODCM Radiological Effluent Occurrences   |                      |
|             |               |            | <b>HS - TRIENNIAL HEAT SINK PERFORMANCE</b>              |   | <b>1</b>             |
| 2           | 06/18/2018    | 06/22/2018 | IP 7111107T  | Heat Sink Performance   |                      |
|             |               |            | <b>ISI - UNIT 2 IN-SERVICE INSPECTION &amp; RVH EXAM</b> |   | <b>2</b>             |
| 2           | 09/24/2018    | 09/28/2018 | IP 7111108P  | Inservice Inspection Activities - PWR   |                      |
|             |               |            | <b>RP - RAD HAZARD AND TRANSPORTATION</b>                |   | <b>2</b>             |
| 2           | 09/24/2018    | 09/28/2018 | IP 71124.01  | Radiological Hazard Assessment and Exposure Controls  |                      |
| 2           | 09/24/2018    | 09/28/2018 | IP 71124.08  | Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation |                      |

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