March 4, 2011

Carolina Power and Light Company
ATTN:  Mr. Robert J. Duncan, II
Vice President
H.B. Robinson Steam Electric Plant Unit 2
3581 West Entrance Road
Hartsville, SC 29550

SUBJECT:  ANNUAL ASSESSMENT LETTER - H. B. ROBINSON STEAM ELECTRIC
PLANT, UNIT 2 (REPORT 05000261/2011001)

Dear Mr. Duncan:

On February 9, 2011, the NRC staff completed its end-of-cycle performance review of the H. B.
Robinson Steam Electric Plant, Unit 2.  The NRC reviewed the most recent quarterly
performance indicators (PIs) in addition to inspection results and enforcement actions from
January 1, 2010 through December 31, 2010.  This letter informs you of the NRC’s assessment
of your facility during this period and its plans for future inspections at your facility.  This
performance review and enclosed inspection plan do not include security information.  A
separate letter will include NRC’s assessment of your performance in the Security Cornerstone
and its security-related inspection plan.

The NRC determined the performance at Robinson Unit 2 during the most recent quarter was
within the Degraded Cornerstone column of the NRC’s Reactor Oversight Process (ROP) Action
Matrix because the Unplanned Scrams per 7000 Critical Hours performance indicator crossed
the threshold from Green to White in the third quarter of 2010, and three findings classified as
having low to moderate safety significance (White) were active in the Mitigating Systems
cornerstone.  Two of the three White inspection findings were identified in the third quarter of
2010 and the third finding was identified in the fourth quarter of 2010.  The first White finding
was identified for your failure to correct a condition adverse to quality in “B” Emergency Diesel
Generator output breaker 52/27B.  The second White finding was identified for your failure to
adequately design and implement operator training based on learning objectives as required by
10 CFR 55.59(c), in that training lesson material failed to identify the basis of a procedural
action involving reactor coolant pump seal cooling in licensee procedure PATH-1, as required
by the definition of systems approach to training, Element 3 in 10 CFR 55.4.  The third White
inspection finding was identified for your failure to adequately implement requirements of
multiple procedures required by Technical Specification 5.4.1, during a cooldown of the Reactor
Coolant System and subsequent safety injection after a reactor trip on March 28, 2010.

The performance of Robinson Unit 2 during the first and second quarter of 2010 was within the
Licensee Response Column of the NRC’s ROP Action matrix because all inspection findings
were classified as having very low safety significance (Green) and all PIs indicated performance
at a level requiring no additional NRC oversight (Green).  On November 12, 2010, the NRC
issued an assessment follow-up letter due to the Unplanned Scrams per 7000 Critical Hours
performance indicator crossing the green-to-white threshold. As a result of our assessment review, Robinson Unit 2 performance was assessed to be in the Regulatory Response Column of the NRC’s ROP Action Matrix. An additional assessment follow-up letter was issued on January 31, 2011. The NRC updated its assessment of Robinson Unit 2 to be in the Degraded Cornerstone Column of the NRC’s Action Matrix, effective the third quarter of calendar year 2010 due to the three white findings in the Mitigating System Cornerstone.

On February 1, 2011 your staff notified the NRC of your readiness, as of March 11, 2011, for us to conduct a supplemental inspection to review the actions taken to address the White performance indicator. Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, “Inspection for One or Two White Inputs in a Strategic Performance Area,” beginning on March 21 for the review of the Unplanned Scrams per 7000 critical hours White performance indicator. Also, on February 1, 2011, your staff notified the NRC of your readiness, as of May 9, 2011, for us to conduct a supplemental inspection to review the actions taken to address three White inspection findings. Therefore, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95002, “Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Performance Area,” beginning on May 31 for the review of these inspection findings.

The NRC identifies substantive cross-cutting issues (SCCIs) to communicate a concern with the licensee’s performance in a cross-cutting area and to encourage the licensee to take appropriate actions before more significant performance issues emerge. The NRC identified a cross-cutting theme in the Resources component of the Human Performance cross-cutting area. Specifically, four Green inspection findings were identified as having the cross-cutting aspect of complete, accurate and up-to-date design documentation, procedures, and work packages, and correct labeling of components, H.2(c). The NRC determined that an SCCI exists because the NRC has a concern with your staff’s progress in addressing the cross-cutting theme. Specifically, your staff’s actions have not yet proven effective in substantially mitigating the cross-cutting theme as it relates to procedure quality. The SCCI will remain open until the NRC has confidence that your corrective actions are sufficient, based in part on a reduction in the number of findings below the SCCI threshold. The NRC will monitor your staff’s progress in addressing the SCCI during the 95002 supplemental inspection and we will perform focused annual problem identification and resolution reviews of the actions to address this cross-cutting theme.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. 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.

Based on plant performance over the cycle, we plan to conduct the inspections as described above in addition to the reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting Temporary Instruction (TI) 2515/179, Verification of Licensee Responses to NRC Requirements for Inventories for Materials Tracked in the National Source Tracking System (NSTS).
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).

Please contact Randall A. Musser at 404-997-4603 with any questions you may have regarding this letter.

Sincerely,

/RA/

Victor M. McCree
Regional Administrator

Docket No.: 50-261
License No.: DPR-23

Enclosure: Robinson Inspection/Activity Plan
         (03/01/2011 – 06/30/2012)

cc w/encl.: (See page 4)
cc w/encl.: (continued)

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<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Planned Dates</th>
<th>No. of Staff on Site</th>
<th>Title</th>
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| 95002       | 05/31/2011 - 06/10/2011 | 8                   | 95002 SUPPLEMENTAL INSPECTION  
Supplemental Inspection for One Degraded Cornerstone or Any Three White Inputs in a Strategic Perfor |
| 95001       | 03/21/2011 - 03/25/2011 | 2                   | 95001 SUPPLEMENTAL INSPECTION  
Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area |
Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS |
Exercise Evaluation |
V23363 ROBINSON / NOVEMBER 2011 EXAM AT POWER FACILITIES |
| OL EXAM     | 11/28/2011 - 12/02/2011 | 4                   | - INITIAL EXAM - WEEK 1  
V23363 ROBINSON / NOVEMBER 2011 EXAM AT POWER FACILITIES |
| OL EXAM     | 12/05/2011 - 12/09/2011 | 4                   | - INITIAL EXAM - WEEK 2  
V23363 ROBINSON / NOVEMBER 2011 EXAM AT POWER FACILITIES |
| PSB1-RP     | 01/23/2012 - 01/27/2012 | 3                   | - OCCUPATIONAL RP BASELINE WK1  
Radiological Hazard Assessment and Exposure Controls  
Occupational ALARA Planning and Controls  
In-Plant Airborne Radioactivity Control and Mitigation  
Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation  
Performance Indicator Verification |
| EB3 ISI     | 01/30/2012 - 02/03/2012 | 1                   | UNIT 2 IN-SERVICE INSPECTION  
Inservice Inspection Activities - PWR |
| PSB1-RP     | 02/06/2012 - 02/10/2012 | 4                   | - OCCUPATIONAL RP BASELINE WK2  
Radiological Hazard Assessment and Exposure Controls  
Occupational ALARA Planning and Controls  
In-Plant Airborne Radioactivity Control and Mitigation  
Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation  
Performance Indicator Verification |
### Robinson

#### Inspection / Activity Plan

**03/01/2011 - 06/30/2012**

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Planned Dates</th>
<th>Inspection Activity</th>
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<td></td>
<td>Start</td>
<td>End</td>
<td>PI&amp;R</td>
<td>PROBLEM IDENTIFICATION AND RESOLUTION</td>
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<tr>
<td>2</td>
<td>05/07/2012</td>
<td>05/11/2012</td>
<td>IP 71152B</td>
<td>Identification and Resolution of Problems</td>
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<td>05/21/2012</td>
<td>05/25/2012</td>
<td>IP 71152B</td>
<td>Identification and Resolution of Problems</td>
</tr>
</tbody>
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| PSB1EP | EMERGENCY PREPAREDNESS INSPECTION |                |
| 2       | 05/21/2012 | 05/25/2012 | IP 7111402 | Alert and Notification System Testing | 1 |
| 2       | 05/21/2012 | 05/25/2012 | IP 7111402 | Emergency Preparedness Organization Staffing and Augmentation System |
| 2       | 05/21/2012 | 05/25/2012 | IP 7111404 | Emergency Action Level and Emergency Plan Changes |
| 2       | 05/21/2012 | 05/25/2012 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies |
| 2       | 05/21/2012 | 05/25/2012 | IP 71151 | Performance Indicator Verification |

| EB3 HS | TRIENNIAL HEAT SINK INSPECTION |                |
| 2       | 06/04/2012 | 06/08/2012 | IP 7111107T | Heat Sink Performance | 1 |

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