



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

March 4, 2009

Mr. Thomas Joyce  
President and Chief Nuclear Officer  
PSEG Nuclear LLC - N09  
P.O. Box 236  
Hancock's Bridge, NJ 08038

**SUBJECT: ANNUAL ASSESSMENT LETTER – HOPE CREEK NUCLEAR GENERATING  
STATION (05000354/2009001)**

Dear Mr. Joyce:

On February 11, 2009, the NRC staff completed its performance review of Hope Creek Generating Station (Hope Creek). Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2008. 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 enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the security cornerstone review and resultant inspection plan.

Overall, Hope Creek operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2010. In addition to the baseline inspections, we plan to conduct an inspection related to power uprate activities during the next refueling outage. The inspection plan is provided 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 nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

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

T. Joyce

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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 this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5069 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Arthur L. Burritt, Chief  
Division of Reactor Projects  
Projects Branch 3

Docket Nos. 50-354  
License Nos. NPF-57

Enclosure: Hope Creek Generating Station Inspection/ Activity Plan

cc w/encl:

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G. Barnes, Site Vice President  
P. Davison, Director, Nuclear Oversight  
E. M. Johnson, Director of Finance  
J. Perry, Plant Manager, Hope Creek  
J. Keenan, General Solicitor, PSEG  
M. Wetterhahn, Esquire, Winston and Strawn, LLP  
Consumer Advocate, Office of Consumer Advocate, Commonwealth of PA  
L. Peterson, Chief of Police and Emergency Management Coordinator  
P. Baldauf, Assistant Director, NJ Radiation Protection Programs  
P. Mulligan, Chief, NJ Bureau of Nuclear Engineering  
H. Otto, Ph.D., Administrator, DE Division of Water Resources  
N. Cohen, Coordinator Unplug Salem Campaign  
E. Zobian, Coordinator - Jersey Shore Anti Nuclear Alliance  
A. Muller, Executive Director, Green Delaware  
Institute of Nuclear Power Operations (INPO)

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 this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 610-337-5069 with any questions you may have regarding this letter or the inspection plan.

Sincerely,  
**/RA/**  
Arthur L. Burritt, Chief  
Division of Reactor Projects  
Projects Branch 3

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**SUNSI Review Complete: LC (Reviewer's Initials)**

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|        |                    |  |           |  |              |  |
|--------|--------------------|--|-----------|--|--------------|--|
| OFFICE | RI/DRP             |  | RI/DRP    |  | RI/DRP       |  |
| NAME   | BWellington/LC for |  | LCline/LC |  | ABurritt/ALB |  |
| DATE   | 02/ 27 /09         |  | 02/27/09  |  | 03/03/09     |  |

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**Hope Creek**  
**Inspection / Activity Plan**  
**01/01/2009 - 06/30/2010**

| Unit Number | Planned Dates |            | Inspection Activity                              | Title   | No. of Staff on Site |
|-------------|---------------|------------|--|---|----------------------|
|             | Start         | End        |  |   |                      |
|             |               |            | <b>2/2EXAM - INITIAL OPERATOR LICENSING EXAM</b> |   | <b>5</b>             |
| 1           | 01/05/2009    | 01/09/2009 | U01693   | FY09 - HOPE CREEK INITIAL OPERATOR EXAM   |                      |
| 1           | 02/02/2009    | 02/13/2009 | U01693   | FY09 - HOPE CREEK INITIAL OPERATOR EXAM   |                      |
|             |               |            | <b>71152B - PI&amp;R BIENNIAL TEAM</b>           |   | <b>5</b>             |
| 1           | 01/12/2009    | 01/16/2009 | IP 71152B  | Identification and Resolution of Problems   |                      |
| 1           | 01/26/2009    | 01/30/2009 | IP 71152B  | Identification and Resolution of Problems   |                      |
|             |               |            | <b>TI 173 - GROUNDWATER TI</b>                   |   | <b>1</b>             |
| 1           | 03/09/2009    | 03/13/2009 | IP 2515/173                                      | Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative     |                      |
|             |               |            | <b>EP PROGR - EP PROGRAM INSPECTION</b>          |   | <b>1</b>             |
| 1           | 03/15/2009    | 03/20/2009 | IP 7111404                                       | Emergency Action Level and Emergency Plan Changes   |                      |
| 1           | 03/16/2009    | 03/20/2009 | IP 7111402                                       | Alert and Notification System Testing   |                      |
| 1           | 03/16/2009    | 03/20/2009 | IP 7111403                                       | Emergency Response Organization Augmentation Testing  |                      |
| 1           | 03/16/2009    | 03/20/2009 | IP 7111405                                       | Correction of Emergency Preparedness Weaknesses and Deficiencies                              |                      |
| 1           | 03/16/2009    | 03/20/2009 | IP 71151   | Performance Indicator Verification  |                      |
|             |               |            | <b>71004 - POWER UPRATE</b>                      |   | <b>2</b>             |
| 1           | 04/13/2009    | 04/17/2009 | IP 71004   | Power Uprate  |                      |
|             |               |            | <b>7111108G - INSERVICE INSPECTION</b>           |   | <b>2</b>             |
| 1           | 04/20/2009    | 04/24/2009 | IP 7111108G                                      | Inservice Inspection Activities - BWR   |                      |
|             |               |            | <b>71121 - OCC RAD SAFETY</b>                    |   | <b>1</b>             |
| 1           | 04/20/2009    | 04/24/2009 | IP 7112101                                       | Access Control to Radiologically Significant Areas  |                      |
| 1           | 04/20/2009    | 04/24/2009 | IP 7112102                                       | ALARA Planning and Controls   |                      |
| 1           | 04/20/2009    | 04/24/2009 | IP 7112103                                       | Radiation Monitoring Instrumentation and Protective Equipment                                 |                      |
|             |               |            | <b>71121 - OCC RAD SAFETY</b>                    |   | <b>1</b>             |
| 1           | 07/27/2009    | 07/31/2009 | IP 7112101                                       | Access Control to Radiologically Significant Areas  |                      |
| 1           | 07/27/2009    | 07/31/2009 | IP 7112102                                       | ALARA Planning and Controls   |                      |
| 1           | 07/27/2009    | 07/31/2009 | IP 7112103                                       | Radiation Monitoring Instrumentation and Protective Equipment                                 |                      |
|             |               |            | <b>7111121 - CDBI</b>                            |   | <b>6</b>             |
| 1           | 09/14/2009    | 09/18/2009 | IP 7111121                                       | Component Design Bases Inspection   |                      |
| 1           | 09/28/2009    | 10/02/2009 | IP 7111121                                       | Component Design Bases Inspection   |                      |
| 1           | 10/05/2009    | 10/09/2009 | IP 7111121                                       | Component Design Bases Inspection   |                      |
|             |               |            | <b>7112203 - PUB RAD SAFETY - REMP</b>           |   | <b>1</b>             |
| 1           | 09/14/2009    | 09/18/2009 | IP 7112203                                       | Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program |                      |
|             |               |            | <b>71121 - OCC RAD SAFETY</b>                    |   | <b>1</b>             |
| 1           | 09/28/2009    | 10/02/2009 | IP 7112101                                       | Access Control to Radiologically Significant Areas  |                      |
| 1           | 09/28/2009    | 10/02/2009 | IP 7112102                                       | ALARA Planning and Controls   |                      |

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

**Hope Creek**  
**Inspection / Activity Plan**  
**01/01/2009 - 06/30/2010**

| Unit Number | Planned Dates |            | Inspection Activity                                    | Title  | No. of Staff on Site |
|-------------|---------------|------------|--|--|----------------------|
|             | Start         | End        |  |  |                      |
|             |               |            | <b>71121 - OCC RAD SAFETY</b>                          |  | <b>1</b>             |
| 1           | 09/28/2009    | 10/02/2009 | IP 7112103   | Radiation Monitoring Instrumentation and Protective Equipment            |                      |
| 1           | 09/28/2009    | 10/02/2009 | IP 71151   | Performance Indicator Verification                                       |                      |
|             |               |            | <b>7112202 - PUB RAD SAFETY - RADWASTE</b>             |  | <b>1</b>             |
| 1           | 12/07/2009    | 12/18/2009 | IP 7112202   | Radioactive Material Processing and Transportation                       |                      |
|             |               |            | <b>7112201 - PUB RAD SAFETY - RETS</b>                 |  | <b>1</b>             |
| 1           | 01/25/2010    | 01/29/2010 | IP 7112201   | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems |                      |
|             |               |            | <b>2/22EXAM - OPERATOR LICENSING INITIAL EXAMS</b>     |  | <b>4</b>             |
| 1           | 01/25/2010    | 01/29/2010 | U01765   | FY10 - HOPE CREEK INITIAL OPERATOR LICENSING EXAM                        |                      |
| 1           | 02/22/2010    | 02/26/2010 | U01765   | FY10 - HOPE CREEK INITIAL OPERATOR LICENSING EXAM                        |                      |
|             |               |            | <b>71121 - OCC RAD SAFETY</b>                          |  | <b>1</b>             |
| 1           | 03/01/2010    | 03/05/2010 | IP 7112101   | Access Control to Radiologically Significant Areas                       |                      |
| 1           | 03/01/2010    | 03/05/2010 | IP 7112102-7112102R                                    | ALARA - Required   |                      |
| 1           | 03/01/2010    | 03/05/2010 | IP 7112103   | Radiation Monitoring Instrumentation and Protective Equipment            |                      |
|             |               |            | <b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b> |  | <b>3</b>             |
| 1           | 03/22/2010    | 03/26/2010 | IP 7111105T  | Fire Protection [Triennial]  |                      |
| 1           | 04/05/2010    | 04/09/2010 | IP 7111105T  | Fire Protection [Triennial]  |                      |
|             |               |            | <b>EP EX - EP EXERCISE EVALUATION</b>                  |  | <b>1</b>             |
| 1           | 05/17/2010    | 05/21/2010 | IP 7111401   | Exercise Evaluation  |                      |
| 1           | 05/17/2010    | 05/21/2010 | IP 7111404   | Emergency Action Level and Emergency Plan Changes                        |                      |
| 1           | 05/17/2010    | 05/21/2010 | IP 71151-EP01  | Drill/Exercise Performance   |                      |
| 1           | 05/17/2010    | 05/21/2010 | IP 71151-EP02  | ERO Drill Participation  |                      |
| 1           | 05/17/2010    | 05/21/2010 | IP 71151-EP03  | Alert & Notification System  |                      |

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