



JUL 30 2009

10 CFR 50.55a

LR-N09-0163

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-001

Hope Creek Generating Station  
Facility Operating License No. NPF-57  
Docket No. 50-354

Subject: INSERVICE INSPECTION ACTIVITIES – 90 DAY REPORT  
FIFTEENTH REFUELING OUTAGE

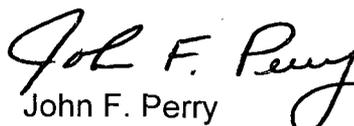
This letter submits the ninety (90) day report for Inservice Inspection (ISI) activities conducted at the Hope Creek Generating Station during the fifteenth refueling outage. This report is submitted in accordance with 10 CFR 50.55a(g) and Section XI of the ASME Boiler and Pressure Vessel Code (2001 Edition 2003 Addenda and 2001 Edition 2003 Addenda for IWE) and Regulatory Guide 1.147 Acceptable Code Case Number N-532-4.

The enclosures to this letter are as follows:

- Enclosure 1: Form OAR-1, Owners Activity Report
- Enclosure 2: Table 1 – Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service
- Enclosure 3: Abstract of Repairs, Replacements or Corrective Measures Required for Continued Service (for the period December 12, 2007 to May 4, 2009)

There are no regulatory commitments contained in this correspondence.

Should you have any questions regarding this correspondence, please contact Philip J. Duca at 856-339-1640.

  
John F. Perry  
Hope Creek Plant Manager  
Enclosure (3)

A047  
NRR

C. Mr. S. Collins, Administrator – Region I  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

Mr. R. Ennis, Project Manager – Hope Creek  
U. S. Nuclear Regulatory Commission  
Mail Stop 08 B1A  
Washington, DC 20555-0001

USNRC Senior Resident Inspector – Hope Creek (X24)

Mr. P. Mulligan, Manager IV  
Bureau of Nuclear Engineering  
PO Box 415  
Trenton, New Jersey 08625

Hope Creek Commitment Coordinator (H02)

ENCLOSURE 1

FORM  
FORM OAR-1  
OWNERS ACTIVITY REPORT

(2 Pages including this Page)

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number HCRFO15  
Owner PSEG Nuclear LLC, PO Box 236, Hancocks Bridge, NJ 08038  
Plant Hope Creek Generating Station  
Unit No. 1 Commercial Service Date 12/20/86 Refueling Outage No. 15  
Current Inspection Interval Third (3rd) {IWE (2nd)}  
Current Inspection Period Third (1st) {IWE (1st)}  
Edition and Addenda of Section XI Applicable to the inspection plan 2001 Edition 2003 Addenda;  
IWE - 2001 Edition, 2003 Addenda;

Date and revision of inspection plan 7/2009, Revision 0 / Change 0  
Edition & Addenda of Section XI Applicable to repairs and replacements, if different than the inspection plan  
ASME Class 1, 2, 3 and MC - 2001 Edition, 2003 Addenda  
(Unless specifically identified in the individual repair plan)

**CERTIFICATE OF CONFORMANCE**

I certify that the statements made in this Owner's Activity Report are correct, and that the examinations, tests, repairs, replacements, evaluations, and corrective measures represented by this report conform to the requirements of Section XI.

Certification of Authorization No. N/A Expiration Date N/A  
Signed [Signature] ISI Program Owner Date July 20, 2009  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of New Jersey and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the items described in this Owner's Activity Report, during the period December 12, 2007 to May 4, 2009, and state that to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations, tests, repairs, replacements, evaluations and corrective measures described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NB12693A NJ1178  
Inspector's Signature National Board, State, Province, and Endorsements

Date 7/23/09

ENCLOSURE 2

Table 1  
ITEMS WITH FLAWS OR RELEVANT CONDITIONS  
THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

(2 Pages including this Page)

**TABLE 1 – ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE**

Exam Category	Item Number	Item Description	Flaw Characterization (IWA-3300)	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)
R-A	R1.14-2	N2G nozzle- Recirculation Inlet at 240Deg. Weld, Examination completed to BWRVIP letter 2008-293.	Indication is 10.9" long in the circumferential direction and is 0.4" from the outside surface, at a depth of 0.5" and the depth to length ratio, $2a/l$ , is 0.092. Indication is classified as subsurface per ASME Section XI, IWA3310.	No Sum# 100675 – N2G nozzle Weld. Scheduled BWRVIP 2008-293 letter, Engineering Evaluation (Fatigue Crack Growth Analysis).
R-A	R1.14-2	N2H nozzle - Recirculation Inlet at 270 Deg. Weld, Examination completed to BWRVIP letter 2008-293.	Indication is 1.7" long in the circumferential direction and is 0.5" from the outside surface, at a depth of 0.4" and the depth to length ratio, $2a/l$ , is 0.24. Indication is classified as subsurface per ASME Section XI, IWA3310.	No Sum# 100680 – N2H nozzle Weld. Scheduled BWRVIP 2008-293 letter, Engineering Evaluation (Fatigue Crack Growth Analysis).
R-A	R1.14-2	N5A nozzle – Core Spray Inlet at 120 Deg. Weld, Examination completed to BWRVIP letter 2008-293.	Indication is 8.8" long in the circumferential direction and is 0.3" from the outside surface, at a depth of 0.4" and the depth to length ratio, $2a/l$ , is 0.046. Indication is classified as subsurface per ASME Section XI, IWA3310.	No Sum# 100745 – N5A nozzle Weld. Scheduled BWRVIP 2008-293 letter, Engineering Evaluation (Fatigue Crack Growth Analysis).

**ENCLOSURE 3**

**ABSTRACT OF REPAIRS, REPLACEMENTS OR  
CORRECTIVE MEASURES REQUIRED FOR CONTINUED SERVICE  
(For the Period December 12, 2007 to May 4, 2009)**

**(2 Pages including this Page)**

**TABLE 2 – ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES REQUIRED FOR CONTINUED SERVICE**

Code Class	Repair, Replacement, or Corrective Measure	Item Description	Description of Work	Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes or No)	Date Completed	Repair/ Replacement Plan Number
		none				