



Serial: HNP-07-160
10 CFR 2.202

U.S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/LICENSE NO. NPF-63

60-DAY RESPONSE TO NRC ORDER EA-03-009, "ISSUANCE OF FIRST REVISED
NRC ORDER (EA-03-009) ESTABLISHING INTERIM INSPECTION REQUIREMENTS
FOR REACTOR PRESSURE VESSEL HEADS AT PRESSURIZED WATER
REACTORS"

Ladies and Gentlemen:

On February 11, 2003, the NRC issued Order EA-03-009 for interim inspection requirements for reactor pressure vessel (RPV) heads at pressurized water reactor facilities. On February 20, 2004, the NRC issued the First Revised Order EA-03-009, which superseded Order EA-03-009. The revised Order requires that the Licensee submit a report detailing the inspection results within sixty (60) days after each refueling outage. On October 23, 2007, Harris Nuclear Plant (HNP) of Carolina Power and Light Company (CP&L) doing business as Progress Energy Carolinas, Inc., completed Refueling Outage 14 (RFO-14).

Attachment 1 provides the required examination results for RFO-14. In summary, the inspections revealed no evidence of recent boric acid leakage.

This document contains no new Regulatory Commitment.

Please refer any question regarding this letter to me at (919) 362-3137.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dave Corlett'.

Dave Corlett
Supervisor – Licensing/Regulatory Programs
Harris Nuclear Plant

DHC/kms

Attachment: 60-Day Response Summarizing Inspection Results for RFO-14

Progress Energy Carolinas, Inc.
Harris Nuclear Plant
P. O. Box 165
New Hill, NC 27562

A101
NRC

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cc: Mr. P. B. O'Bryan, NRC Sr. Resident Inspector
Ms. B. O. Hall, N.C. DENR Section Chief
Mr. V. M. McCree, NRC Acting Regional Administrator
Ms. M. G. Vaaler, NRC Project Manager

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/LICENSE NO. NPF-63
60-DAY RESPONSE DETAILING RPV HEAD INSPECTION RESULTS FOR RFO-14

During the recently completed Refueling Outage 14 (RFO-14) from September 29, 2007, through October 23, 2007, Harris Nuclear Plant (HNP) performed Reactor Pressure Vessel (RPV) head inspections in accordance with the First Revised NRC Order (EA-03-009) dated February 20, 2004. As required by Section IV.E of the Order, HNP details the following results of the inspections required by Sections IV.C and IV.D of the Order.

IV.A Susceptibility Category

The Harris Plant is in the category of plants considered to be of low susceptibility to Primary Water Stress Corrosion Cracking (PWSCC) based on calculations performed in accordance with Section IV.A of the Order, as well as on the absence of previous inspection findings indicating the presence of leakage.

IV.C.(5)(a) Bare Metal Visual

The First Revised NRC Order requires that a 100% Bare Metal Visual (BMV) Examination of the RPV head surface (including 360° around each RPV head penetration nozzle) be completed at least every third refueling outage or every 5 years, whichever occurs first. When HNP performed this inspection during RFO-11 (April 26, 2003, through May 18, 2003), no evidence of recent boric acid leakage or RPV head degradation was found, as reported to the NRC on July 16, 2003 (Serial: HNP-03-070).

In accordance with the First Revised Order, this BMV examination was again performed during the recently completed RFO-14 (September 29, 2007, through October 23, 2007). The inspection included a BMV inspection of 100% of the upper RV head surface and 360° around each penetration, with video and digital pictures capturing areas examined via rover. No evidence of boric acid residue was found.

IV.C.(5)(b) Nonvisual Nondestructive Examination (NDE)

The First Revised Order requires a nonvisual NDE be performed for each penetration at least once prior to February 11, 2008, and thereafter, at least every 4 refueling outages or every 7 years, whichever occurs first. HNP satisfactorily performed the required nonvisual examinations during RFO-13 (April 8, 2006, through May 16, 2006) as reported to the NRC on July 14, 2006 (Serial: HNP-06-080). Since no evidence of PWSCC was identified during that inspection, a nonvisual NDE for each penetration was not required to be performed during RFO-14.

IV.D Visual Inspection

No evidence of leakage was identified by these inspections and no boric acid deposits were found.

Summary

In accordance with Section IV.E of the First Revised NRC Order (EA-03-009), HNP submits this letter documenting the results of the required inspections of Sections IV.C and IV.D of the Order. All inspections were performed as required, with no evidence of recent boric acid leakage detected.