



Designated Original

Robert J. Duncan, II
Vice President
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Progress Energy Carolinas, Inc.

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Serial: HNP-07-147

Mr. J. E. Dyer, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852-2738

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT NO. 1
DOCKET NO. 50-400/LICENSE NO. NPF-63
INSPECTION AND MITIGATION OF ALLOY 82/182 PRESSURIZER BUTT WELDS

- References:
1. Letter from R. J. Duncan, II to the Nuclear Regulatory Commission (Serial: HNP-07-026), "Inspection and Mitigation of Alloy 82/182 Pressurizer Butt Welds," dated February 27, 2007
 2. Letter from J. E. Dyer, Nuclear Regulatory Commission to Robert J. Duncan, II, "Confirmatory Action Letter – Shearon Harris Nuclear Power Plant, Unit No. 1 (TAC No. MD4155)," dated March 22, 2007
 3. Letter from R. J. Duncan, II to the Nuclear Regulatory Commission (Serial: HNP-07-143), "Inservice Inspection Relief Request 1 Weld Overlay Repair Stress Analysis Summary," dated October 19, 2007
 4. Letter from R. J. Duncan, II to the Nuclear Regulatory Commission (Serial: HNP-07-145), "Inservice Inspection Relief Request 1 Summary of Ultrasonic Examinations of Preemptive Weld Overlays for Pressurizer Nozzle Locations Containing Alloy 600 Materials," dated October 22, 2007

Dear Mr. Dyer:

In Reference 1, Carolina Power and Light Company, doing business as Progress Energy Carolinas, Inc., committed to report to the Nuclear Regulatory Commission (NRC) the completion of activities for mitigating Alloy 82/182 butt welds on pressurizer spray, surge and relief lines at the Harris Nuclear Plant (HNP). Per the Confirmatory Action Letter (CAL) No. NRR 07-027 (Reference 2), these commitments addressed:

- 1) completion schedules for inspection/mitigation of the welds;
- 2) reactor coolant system (RCS) leak monitoring frequency, action levels, and actions; and
- 3) reporting requirements.

During the recently completed refueling outage 14 (RFO 14), HNP installed and inspected the required full structural weld overlays on the subject pressurizer Alloy 82/182 butt welds. A

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stress analysis summary, demonstrating that the pressurizer nozzles will perform their intended design functions after the installation of the weld overlays, was submitted on October 19, 2007 (Reference 3). The final ultrasonic examination of the weld overlays, completed on October 13, 2007, (Reference 4), found no indications requiring disposition or repairs to the weld overlay material and/or base metal.

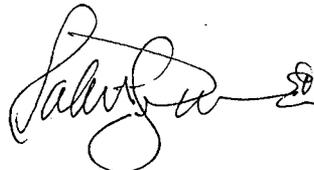
As described in the Reference 1 Commitments, HNP monitored the unidentified RCS leakage daily during Modes 1-3 in stable plant conditions from March 06, 2007, until the mitigation of the pressurizer Alloy 82/182 butt welds during RFO 14. During this monitoring period, the daily unidentified RCS leakage never exceeded the amounts requiring further actions per the Reference 1 Commitments. Therefore, no additional reporting is required to close all commitments associated with unidentified RCS leakage.

In conclusion, this correspondence provides the written confirmation required by the Confirmatory Action Letter (Reference 2) to document the completion of all actions and commitments contained in both Reference 1 and Reference 2.

This document contains no new regulatory commitment.

Please refer any questions regarding this submittal to Mr. Dave Corlett at (919) 362-3137.

Sincerely,



R. J. Duncan, II
Vice President
Harris Nuclear Plant

RJD/kms

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