



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 20, 2009

Chris L. Burton, Vice President
Shearon Harris Nuclear Power Plant
Carolina Power & Light Company
Post Office Box 165, Mail Code: Zone 1
New Hill, North Carolina 27562-0165

SUBJECT: SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1 – CORRECTIONS TO
TECHNICAL SPECIFICATION PAGES ISSUED WITH AMENDMENT NO. 128
ISSUED ON JANUARY 29, 2009 (TAC NO. MD7792)

Dear Mr. Burton:

On January 29, 2009, the U.S. Nuclear Regulatory Commission issued Amendment No. 128 to Renewed Facility Operating License No. NPF-63 for the Shearon Harris Nuclear Power Plant (HNP), Unit No. 1, in response to your request dated January 4, 2008.

This amendment modifies HNP's Technical Specification (TS) requirements related to control room envelope habitability in accordance with the Technical Specification Task Force (TSTF) Standard TS Change Traveler, TSTF-448, Revision 3, "Control Room Habitability." The revisions establish more effective and appropriate action, surveillance, and administrative requirements related to ensuring the habitability of the control room envelope in accordance with the NRC-approved TSTF-448, Revision 3. This TS improvement was made available in the *Federal Register* by the NRC on January 17, 2007 (72 FR 2022).

An error was found on one of the camera-ready TS pages issued with the amendment, in that on retyped Page 3/4 7-14, in Section 3.7.6.a.2.a, the word "in" was inadvertently excluded between "be" and "at" in the sentence: "Initiate action to implement mitigating actions immediately or be at least HOT STANDBY within 6 hours..." In addition, retyped Page 3/4 7-16 included revision bars for sections d.1 and e; however, the amendment made no changes to these sections, but rather to section d.3, which was deleted.

- 2 -

These corrections were previously discussed with your staff prior to implementation of this amendment. Revised license amendment pages are enclosed; please replace the incorrect TS pages with these updated versions. We regret any inconvenience this may have caused. If you have any questions regarding this matter, please call me at (301) 415-3178.

Sincerely,

A handwritten signature in black ink, appearing to read 'Marlayna Vaaler', written in a cursive style.

Marlayna Vaaler, Project Manager
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-400

Enclosures: As stated

cc: Distribution via ListServ

PLANT SYSTEMS

3/4.7.6 CONTROL ROOM EMERGENCY FILTRATION SYSTEM

LIMITING CONDITION FOR OPERATION

3.7.6 Two independent Control Room Emergency Filtration System (CREFS) trains shall be OPERABLE.*

- APPLICABILITY:
- a. MODES 1, 2, 3, and 4
 - b. MODES 5 and 6
 - c. During movement of irradiated fuel assemblies and movement of loads over spent fuel pools

ACTION:

- a. MODES 1, 2, 3 and 4:

-----NOTE-----
In addition to the Actions below, perform Action c. if applicable.

- 1. With one CREFS train inoperable for reasons other than an inoperable Control Room Envelope (CRE) boundary, restore the inoperable CREFS train to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- 2. With one or more CREFS trains inoperable due to inoperable CRE boundary:
 - a. Initiate action to implement mitigating actions immediately or be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours;
 - b. Within 24 hours, verify mitigating actions ensure CRE occupant radiological exposures will not exceed limits and that CRE occupants are protected from hazardous chemicals and smoke or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours;
 - c. Restore CRE boundary to OPERABLE within 90 days or be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

- b. MODES 5 and 6

-----NOTE-----
In addition to the Actions below, perform Action c. if applicable.

- 1. With one CREFS train inoperable for reasons other than an inoperable CRE boundary, restore the inoperable CREFS train to OPERABLE status within 7 days or immediately initiate and maintain operation of the remaining OPERABLE CREFS train in the recirculation mode.

* The control room envelope (CRE) boundary may be opened intermittently under administrative controls.

PLANT SYSTEMS

CONTROL ROOM EMERGENCY FILTRATION SYSTEM

SURVEILLANCE REQUIREMENTS (Continued)

2. Verifying, within 31 days after removal, that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, has a methyl iodide penetration of $\leq 0.5\%$ when tested at a temperature of 30°C and at a relative humidity of 70% in accordance with ASTM D3803-1989.
- c. After every 720 hours of charcoal adsorber operation, by verifying, within 31 days after removal, that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 2, March 1978, has a methyl iodide penetration of $\leq 0.5\%$ when tested at a temperature of 30°C and at a relative humidity of 70% in accordance with ASTM D3803-1989.
- d. At least once per 18 months by:
 1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 5.1 inches water gauge while operating the system at a flow rate of $4000\text{ cfm} \pm 10\%$;
 2. Verifying that, on either a Safety Injection or a High Radiation test signal, the system automatically switches into an isolation with recirculation mode of operation with flow through the HEPA filters and charcoal adsorber banks;
 3. Deleted.
 4. Verifying that the heaters dissipate $14 \pm 1.4\text{ kW}$ when tested in accordance with ANSI N510-1980; and
 5. Deleted.
- e. After each complete or partial replacement of a HEPA filter bank, by verifying that the unit satisfies the in-place penetration and bypass leakage testing acceptance criteria of less than 0.05% in accordance with ANSI N510-1980 for a DOP test aerosol while operating the system at a flow rate of $4000\text{ cfm} \pm 10\%$; and
- f. After each complete or partial replacement of a charcoal adsorber bank, by verifying that the cleanup system satisfies the in-place penetration leakage testing acceptance criteria of less than 0.05% in accordance with ANSI N510-1980 for a halogenated hydrocarbon refrigerant test gas while operating the system at a flow rate of $4000\text{ cfm} \pm 10\%$.
- g. Perform required CRE unfiltered air inleakage testing in accordance with the Control Room Envelope Habitability Program.

