



Serial: NPD-NRC-2009-195
August 20, 2009

10 CFR 52.79

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

**SHEARON HARRIS NUCLEAR POWER PLANT, UNITS 2 AND 3
DOCKET NOS. 52-022 AND 52-023
LOSS OF LARGE AREAS OF THE PLANT DUE TO EXPLOSIONS OR FIRE - MITIGATIVE
STRATEGIES DESCRIPTION AND PLANS - REVIEWER'S AID**

Reference: Letter from Garry Miller (PEC) to the U. S. NRC, dated August 19, 2009, "Loss Of Large Areas Of The Plant Due To Explosions Or Fire - Mitigative Strategies Description And Plans," Serial NPD-NRC-2009-194

Ladies and Gentlemen:

Progress Energy Carolinas, Inc. (PEC) hereby submits the Reviewer's Aid for the HAR Units 2 & 3, Loss Of Large Areas Of The Plant Due To Explosions Or Fire - Mitigative Strategies Description And Plans to the Nuclear Regulatory Commission (NRC).

This letter submits the color-coded reviewer's aid to facilitate the staff's review by differentiating between the generic template, AP1000 standard and site-specific text to address Nuclear Regulatory Commission (NRC) requirements in 10 CFR 52.80(d). This submittal is a supplement to the Referenced letter above.

The enclosures to this letter provide the Shearon Harris Nuclear Power Plant, Units 2 and 3, Mitigative Strategies Description and Plans Reviewer's Aid, which contains Security-Related Information, and accordingly is requested to be withheld from public disclosure under 10 CFR 2.390(d).

If you have any further questions, or need additional information, please contact Bob Kitchen at (919) 546-6992.

August 20, 2009

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert Kitchen'.

Robert Kitchen
Manager – Nuclear Plant Licensing
Nuclear Plant Development

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Enclosure

cc: (with enclosure)

U.S. NRC Region II, Regional Administrator
Mr. Brian Hughes, U.S. NRC Project Manager
U.S. NRC Resident Inspector, SHNPP Unit 1

DISCUSSION OF HAR UNITS 2 and 3 COL APPLICATION CHANGES TO ADDRESS REGULATIONS IN 10 CFR 52.80(d) RELATED TO LOSS OF LARGE AREAS OF THE PLANT DUE TO EXPLOSIONS OR FIRE:

On March 27, 2009, the NRC published the Final Rule related to Power Reactor Security Requirements (RIN 3150-AG63) in the Federal Register (73 FR 13926). Section 10 CFR 52.80(d) of the Final Rule requires a combined license (COL) application to include a description and plans for implementation of the guidance and strategies intended to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities under the circumstances associated with the loss of large areas of the plant due to explosions or fire as required by 10 CFR 50.54(hh)(2). Enclosures 2 and 3 provide the color-coded Reviewer's Aid to the Loss Of Large Areas Of The Plant Due To Explosions Or Fire - Mitigative Strategies Description And Plans.

Enclosure 2 provides the HAR Mitigative Strategies Description and Plans Reviewer's Aid. The site-specific document in Enclosure 2 contains Security-Related Information, and accordingly should be withheld under 10 CFR 2.390 (d). Enclosure 3 contains the redacted version of the Mitigative Strategies Description and Plans – Reviewer's Aid.

The enclosed Mitigative Strategies Description and Plans Reviewer's Aid includes industry generic information, STANDARD technology-specific information, and SITE-SPECIFIC information, in accordance with the guidance provided in the draft NEI template. Color coded text in the Reviewer's Aid is as follows: Black – Generic NEI Template; Green – Generic AP1000 features; and Blue – Shearon Harris Nuclear Power Plant Units 2 & 3 specific features; to facilitate the staff's review of the Loss Of Large Areas Of The Plant Due To Explosions Or Fire - Mitigative Strategies Description And Plans – Reviewer's Aid.

Reference:

Letter from Douglas J. Walters, NEI, to Thomas A. Bergman, NRC, "Revision to NEI 06-12, B.5.b Phase 2 and 3 Submittal Guideline, Revision 2, December 2006," dated May 1, 2009

Enclosures:

- Enclosure 2 Shearon Harris Nuclear Power Plant Units 2 and 3, Loss of Large Areas of the Plant Due to Explosions or Fire; Mitigative Strategies Description and Plans Reviewer's Aid; [Required by 10 CFR 52.80 (d)] (Non-Public Version)
- Enclosure 3 Shearon Harris Nuclear Power Plant Units 2 and 3, Loss of Large Areas of the Plant due to Explosions or Fire; Mitigative Strategies Description and Plans Reviewer's Aid; [Required by 10 CFR 52.80 (d)] (Public-Version Redacted)

NOTE: Enclosure 2 contains Sensitive Unclassified Non-Safeguards Information (SUNSI) - Withhold Under 10 CFR 2.390(d).

Security-Related Information - Withheld Under 10 CFR 2.390(d)

**SHEARON HARRIS NUCLEAR POWER PLANT,
UNITS 2 AND 3**

**LOSS OF LARGE AREAS OF THE PLANT
DUE TO EXPLOSIONS OR FIRE
REVIEWER'S AID**

**MITIGATIVE STRATEGIES
DESCRIPTION AND PLANS
[REQUIRED BY 10 CFR 52.80 (d)]**

**(PUBLIC VERSION - REDACTED)
(3 pages, including this cover)**

PROGRESS ENERGY CAROLINAS

SHEARON HARRIS NUCLEAR POWER PLANT, UNITS 2 AND 3

LOSS OF LARGE AREAS OF THE PLANT DUE TO EXPLOSIONS OR FIRE REVIEWER'S AID

Mitigative Strategies Description and Plans

Required by 10 CFR 52.80(d)

Rev 0 – August 12, 2009

Security-Related Information - Withheld Under 10 CFR 2.390(d).