



SERIAL: HNP-09-108
10 CFR 50.59(d)(2)

OCT 13 2009

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

SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/RENEWED LICENSE NO. NPF-63
REPORT OF CHANGES PURSUANT TO 10 CFR 50.59

Ladies and Gentlemen:

In accordance with 10 CFR 50.59(d)(2), Carolina Power & Light Company (doing business as Progress Energy Carolinas, Inc.) submits the attached report for the Harris Nuclear Plant (HNP). The report provides a brief description of changes to the facility and a summary of the evaluations required per 10 CFR 50.59 for those items, regardless of implementation status, between March 1, 2008, and September 25, 2009.

This letter also informs the NRC that there have been no unreported changes in commitments made during the period, from March 1, 2008, through September 25, 2009.

This letter contains no new regulatory commitments. Please contact me if you have any questions regarding this submittal at (919) 362-3137.

Sincerely,

A handwritten signature in black ink, appearing to read "D. H. Corlett".

D. H. Corlett
Supervisor, Licensing/Regulatory Programs
Harris Nuclear Plant

DHC/jmd

Attachment: 1. Report of Changes Pursuant to 10 CFR 50.59

cc: Mr. J. D. Austin, NRC Sr. Resident Inspector, HNP
Ms. M. G. Vaaler, NRC Project Manager, HNP
Mr. L. A. Reyes, NRC Regional Administrator, Region II

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

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NRR

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Log Number / Implementing Document	Description of Change	Evaluation Summary
00320885 Engineering Change (EC) 69003, Rev. 0	EC 69003 was the design documentation for Cycle 16 that supported the fuel loading pattern and other plant configuration changes including acceptance test criteria, Final Safety Analysis Report (FSAR) changes, procedure changes, key performance parameters, and cycle specific operational data.	The Cycle 16 fuel design and neutronic design made changes to the core operating limits that affected the local power peaking factors and the Axial Flux Difference (AFD) which were documented in the Core Operating Limits Report (COLR). The safety analyses support Cycle 16 operation at a nominal core power level of 2900 MWt for up to 507 effective full-power days (EFPD). The analyses results including the Large Break Loss of Coolant Accident (LBLOCA) and Non-Loss of Coolant Accidents (NON-LOCA) Safety Analyses of Cycle 16 core design satisfied the requirements and acceptance criteria defined in the FSAR. This activity does not increase the frequency, likelihood of occurrence or consequences of an accident or a malfunction of a Safety System Component (SSC) important to safety more than minimally, does not create a possibility for an accident of a different type or a malfunction with a different result, does not result in a design basis limit being exceeded or altered, and does not depart from a method of evaluation described in the FSAR.

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<p>00351569 Emergency Operating Procedure (EOP) EOP-GUIDE-1, Rev. 24 EOP-PATH-1, Rev. 22</p>	<p>This activity revises EOP-GUIDE-1 and EOP-PATH-1 to add a step to verify NaOH flow within band and locally adjust if necessary.</p>	<p>This activity evaluates a new manual operator action as an interim compensatory measure in accordance with Regulatory Issue Summary 2005-20 for the Containment Spray additive system to ensure the delivery of sodium hydroxide (NaOH) is within the design band during a Containment Spray actuation.</p> <p>The interim compensatory measure will be as follows:</p> <ol style="list-style-type: none"> 1. Upon receipt of a Containment Spray actuation signal, the control operator will verify NaOH flow is within band via computer point from the Emergency Response Facility Information System (ERFIS). 2. If flow is within the design band, no further action is required. 3. If flow is not within the design band for one or two pumps operating, the control operator will direct the locally stationed dedicated operator at the NaOH tank to adjust eductor flow using the manual throttle valves. 4. When flow is within the required band, the operator will exit the area. <p>The evaluation determined that there is no adverse impact to the design bases or safety analyses as described in the FSAR as a result of this interim compensatory action. The addition of the manual actions to verify and manually adjust NaOH flow will not adversely affect the ability of the Containment Spray or Additive systems to perform their intended design functions, either during normal plant operation or during accident mitigation, and will not adversely affect the probability or likelihood of occurrence of a safety related SSC malfunction beyond a minimal amount.</p>
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