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May 14, 2015

RA-15-0022  
10 CFR 50.46

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Shearon Harris Nuclear Power Plant, Unit 1  
Docket No. 50-400 / Renewed License No. NPF-63

Subject: Annual Report of Changes Pursuant to 10 CFR 50.46

Pursuant to 10 CFR 50.46(a)(3)(ii), Duke Energy hereby submits the enclosed annual report of changes to and errors discovered in the loss of coolant accident analyses for the Shearon Harris Nuclear Power Plant, Unit 1, for the period April 9, 2014, through April 9, 2015.

This document contains no regulatory commitments. Please refer any questions regarding this submittal to Art Zaremba at (980) 373-2062.

Sincerely,

A handwritten signature in black ink that reads 'Regis T. Repko'.

Regis T. Repko  
Senior Vice President  
Governance, Projects, and Engineering

Enclosure: 1) Annual Report of Changes Pursuant to 10 CFR 50.46

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xc:

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ENCLOSURE 1

Shearon Harris Nuclear Power Plant, Unit 1  
Annual Report of Changes Pursuant to 10 CFR 50.46  
Reporting Period April 9, 2014 through April 9, 2015

**Small Break Loss of Coolant Accident (SBLOCA) Analysis**

The SBLOCA analysis is not impacted during this reporting period.

<b>SBLOCA Peak Cladding Temperature (PCT) Summary of Changes</b>	<b><math>\Delta</math>PCT (°F)</b>	<b>Resultant PCT (°F)</b>
Previously reported		
SBLOCA PCT effective April 9, 2014		1681
Changes during reporting period		
None		1681
SBLOCA PCT effective April 9, 2015		1681

The resultant predicted fuel element PCT, accounting for changes and errors in the evaluation model, is within the 2200°F acceptance criteria in 10 CFR 50.46(b)(1).

### Large Break Loss of Coolant Accident (LBLOCA) Analysis

The LBLOCA analysis is not impacted during this reporting period.

<b>LBLOCA PCT Summary of Changes</b>	<b><math>\Delta</math>PCT (°F)</b>	<b>Resultant PCT (°F)</b>
Previously reported		
LBLOCA PCT effective April 9, 2014		2073
Changes during reporting period		
None		2073
LBLOCA PCT effective April 9, 2015		2073

The resultant predicted fuel element PCT, accounting for changes and errors in the evaluation model, is within the 2200°F acceptance criteria in 10 CFR 50.46(b)(1).