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Serial: NPD-NRC-2018-005  
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10 CFR 50.46

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

Levy Nuclear Plant, Units 1 and 2  
Combined License Nos. NPF-99 and NPF-100  
Docket Nos. 52-029 and 52-030

William States Lee III Nuclear Station, Units 1 and 2  
Combined License Nos. NPF-101 and NPF-102  
Docket Nos. 52-018 and 52-019

Shearon Harris Nuclear Power Plant, Units 2 and 3  
Docket Nos. 52-022 and 52-023

**SUBJECT: 10 CFR 50.46 ANNUAL REPORT**

The purpose of this letter is to provide a required report in accordance with 10 CFR 50.46, "Acceptance Criteria for Emergency Core Cooling Systems for Light-Water Nuclear Power Reactors," for Levy Nuclear Plant (LNP) Units 1 and 2, William States Lee III Nuclear Station (WLS) Units 1 and 2, and Shearon Harris Nuclear Power Plant (HAR), Units 2 and 3.

A design certification holder is required to report to the NRC in accordance with 10 CFR 50.46(a)(3). This same regulation requires a similar report from any combined license (COL) holder and COL applicant. The Duke Energy COLs for LNP Units 1 and 2 and WLS Units 1 and 2, as well as the COL Application for HAR Units 2 and 3, incorporate by reference the AP1000 design certification document and thus, also utilize the peak cladding temperature calculations performed by Westinghouse Electric Company (WEC). As such, the WEC report, provided in the Enclosure, is applicable to LNP Units 1 and 2, WLS Units 1 and 2, and HAR Units 2 and 3.

This submittal contains no regulatory commitments.

If you have any questions concerning this letter, or require additional information, please contact me or Erik Wagner at (704) 382-3949.

Sincerely,

Joseph W. Donahue  
Vice President - Nuclear Engineering

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DO 94  
DO 93  
DO 84  
NRC

cc (with enclosure):

Mr. Brian Hughes, U.S. NRC Project Manager  
U.S. NRC Region II, Regional Administrator

Enclosure:

Letter from Zachary S. Harper, Westinghouse Electric Company (WEC), to the  
U. S. Nuclear Regulatory Commission, 10 CFR 50.46 Annual Report for the AP1000  
Plant Design, Letter No. DCP\_NRC\_003328, dated March 23, 2018

**NPD-NRC-2018-005**

**Enclosure**

Letter from Zachary S. Harper, Westinghouse Electric Company  
to the U. S. Nuclear Regulatory Commission  
10 CFR 50.46 Annual Report for the AP1000 Plant Design  
Letter No. DCP\_NRC\_003328, dated March 23, 2018

(Number of pages including cover page: 32)