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May 19, 2015

Mr. Joseph Holonich
Senior Project Manager, Division of Reactor Safety Systems
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Updated Responses to Requests for Additional Information for EPRI Report 1022503 Referenced in NEI 12-16

Project Number: 689

Dear Mr. Holonich:

By letter dated September 22, 2014, the U.S. Nuclear Regulatory Commission (NRC) provided Requests for Additional Information (RAIs) on EPRI Report 1022902, "Benchmarks for Quantifying Fuel Reactivity Depletion Uncertainty," and EPRI Report 1022503, "Utilization of the EPRI Depletion Benchmarks for Burnup Credit Validation," which are referenced in NEI 12-16, *Guidance for Performing Criticality Analyses of Fuel Storage at Light-Water Reactor Power Plants*. By letter dated March 2, 2015, NEI provided responses to those RAIs. Subsequently, an error was discovered in the report that impacts the numerical results contained in the RAI responses. The extent of the error has been reviewed and the following corrections have been made:

- The c_k results for CE 16x16 fuel are updated in Table GR-1.
- The c_k results are updated in in Table 1-1.
- The last sentence in the second paragraph on page 18 is revised to state: "*The 3D 50 GWd/T 3D case matches best with the 30 and 40 GWd/T 2D cases, indicating the importance of the lower burnup regions near the ends of the assembly.*" Previously this sentence stated that the 30 GWd/T 2D case is the best match.
- Reference 2 is updated to provide the correct EPRI report # for the sensitivity analysis, which has now been issued.

In all cases, the impact was relatively minor and did not impact the conclusions contained in the RAI responses. In the interest of accuracy and completeness of information, the attachment contains updated

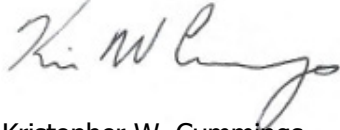
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responses to the RAIs on EPRI Report 1025203. This attachment supersedes the Attachment 2 to the letter dated March 2, 2015.

Sincerely,

A handwritten signature in dark ink, appearing to read "Kristopher W. Cummings". The signature is fluid and cursive, with the first name "Kristopher" and last name "Cummings" clearly distinguishable.

Kristopher W. Cummings

Attachment: Updated Response to Request for Additional Information Specific to the Electric Power Research Institute Report 1025203, "Utilization of the EPRI Depletion Benchmarks for Burnup Credit Validation" (37 pages).

c: Mr. William M. Dean, NRR, NRC
Dr. Jennifer L. Uhle, NRR, NRC
Mr. Timothy J. McGinty, NRR/DSS, NRC
Mr. Robert M. Taylor, NRR/DSS, NRC
Mr. Christopher Jackson, NRR/DSS/SRXB, NRC