

May 10, 2016

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

Calvert Cliffs Nuclear Power Plant, Units 1 and 2
Renewed Facility Operating License Nos. DPR-53 and DPR-69
NRC Docket Nos. 50-317 and 50-318

Subject: Formal Notification of New Fuel Design for Calvert Cliffs

- References:
1. Calvert Cliffs Nuclear Power Plant, Units 1 and 2 - Amendment: Transition from Westinghouse Nuclear Fuel to AREVA Nuclear Fuel (TAC Nos. ME2831 and ME2832), dated February 18, 2011.
 2. Safety Evaluation of Siemens Power Corporation Topical Report EMF-92-116(P) "Generic Mechanical Design Criteria for PWR Fuel Designs," dated February 2, 1999.
 3. License Amendment Request - Transition from Westinghouse Nuclear Fuel to AREVA Nuclear Fuel, dated November 23, 2009.

This letter satisfies Exelon Generation Company, LLC (Exelon) requirement as described in the Calvert Cliffs Fuel Transition Safety Evaluation Report (SER), dated February 18, 2011. Specifically, page 4 of the SER [Reference 1] states:

"...Any first batch application of a new or modified assembly component design or material or first batch application of a prior assembly design or material to a new reactor meets the staff's interpretation of a new fuel design and necessitates formal notification in accordance with this SE [Reference 2] restriction."

The current AREVA fuel design for Calvert Cliffs is described in Attachment 4 of Reference 3.

An AREVA design initiative is to standardize the length of their Combustion Engineering (CE) 14 MONOBLOC™ corner guide tubes.

The Calvert Cliffs MONOBLOC™ guide tube length will be reduced to match the current St. Lucie 1 MONOBLOC™ guide tube length (the new AREVA standardized CE14 guide tube length). With Calvert Cliffs now using a standard length guide tube, the adjustment to meet

the necessary guide tube assembly length will be controlled by the attachment of the guide tube locking sleeve. The gap between the top of the guide tube and the bottom of the guide tube locking sleeve counter bore will be increased slightly to obtain the required overall guide tube assembly length.

AREVA will start fabrication of the new fuel design in Summer 2016, and implement this change in 2017 starting with Calvert Cliffs Unit 2, Cycle 22, and follow-on reloads for both Calvert Cliffs units. AREVA has communicated to Exelon that they have evaluated this design change against the criteria contained in their approved methodology as described in Reference 2 and concluded that all criteria will continue to be satisfied. AREVA has confirmed to Exelon that the guide tube standardization does not impact any of the design parameters considered in their approved methods.

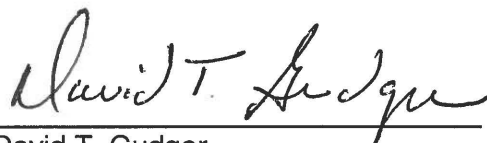
Furthermore, AREVA testing has demonstrated that the new standard CE14 guide tube assembly upper connection minimum break-away strength requirement continues to be satisfied with the standardized guide tube length. There is no adverse impact on the fuel assembly's performance, safety, or reliability.

This letter satisfies Exelon requirement of notification to the NRC as described in Reference 1.

There are no regulatory commitments contained in this letter.

If you should have any questions regarding this submittal, please contact Enrique Villar at 610-765-5736.

Respectfully,

A handwritten signature in black ink, reading "David T. Gudger". The signature is fluid and cursive, with the first name "David" and last name "Gudger" clearly legible. It is positioned above a horizontal line.

David T. Gudger
Manager - Licensing & Regulatory Affairs
Exelon Generation Company, LLC

cc: NRC Regional Administrator, Region I
NRC Project Manager, Calvert Cliffs
NRC Resident Inspector, Calvert Cliffs
S. T. Gray, MD-DNR