



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 23, 2010

Mr. George H. Gellrich, Vice President
Calvert Cliffs Nuclear Power Plant, LLC
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RE: PROPOSED TRANSITION
FROM WESTINGHOUSE TO AREVA NUCLEAR FUEL - CALVERT CLIFFS
NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 - (TAC NOS. ME2831 AND
ME2832)

Dear Mr. Gellrich:

By letter dated November 23, 2009, Calvert Cliffs Nuclear Power Plant, LLC requested a license amendment for the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2. The amendment would modify the Calvert Cliffs licensing basis and the Technical Specifications to allow the use of AREVA Advanced CE-14 High Thermal Performance fuel in the Calvert Cliffs reactors. Calvert Cliffs currently uses Westinghouse Turbo 14x14 fuel assemblies in both units.

The NRC staff has reviewed the information provided and has determined that additional information is needed to complete its review. Enclosed is the staff's request for additional information (RAI). As discussed with your staff, we understand that you intend to respond to this RAI within 30 days of the date of this letter.

Please contact me at 301-415-1364 if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Douglas V. Pickett".

Douglas V. Pickett, Senior Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-317 and 50-318

Enclosure:
As stated

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2

TRANSITION TO AREVA NUCLEAR FUEL

1. A modification to the licensing basis fuel type can have the potential to change the core isotopic distribution assumed in post accident conditions. Based upon this, please provide additional information regarding the effect the proposed fuel type change has on the current radiological consequence design basis analyses. Please provide any changes to the parameters, assumptions, or methodologies in the radiological design-basis accident (DBA) analyses as a result of the proposed fuel type change and justification for those changes. If there are changes to the radiological DBA analyses, please provide the resulting change to the calculated radiological consequence of the DBAs.

Enclosure

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