November 4, 2008

Mr. James A. Spina, Vice President
Calvert Cliffs Nuclear Power Plant, Inc.
Calvert Cliffs Nuclear Power Plant
1650 Calvert Cliffs Parkway
Lusby, MD 20657-4702

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION RE: LICENSE AMENDMENT FOR MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE - CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT NOS. 1 AND 2 - (TAC NOS. MD9554 AND MD9555)

Dear Mr. Spina:

By letter dated August 29, 2008, Calvert Cliffs Nuclear Power Plant, Inc. requested Nuclear Regulatory Commission (NRC) approval to increase the core thermal power rating of the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2 by 1.38 percent from 2700 megawatt-thermal (MWt) to 2737 MWt.

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 by December 31, 2008.

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

Sincerely,

/RA/

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

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REQUEST FOR ADDITIONAL INFORMATION

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

MEASUREMENT UNCERTAINTY RECAPTURE POWER UPRATE

OFFICE OF NUCLEAR REACTOR REGULATION

1. Provide the expected maximum value in megawatts electric (MWe) for the existing and uprated power level for Calvert Cliffs Units 1 and 2.

2. In Section V.4 of Attachment 2 of the license amendment request, the licensee states that the Pennsylvania, New Jersey, Maryland Interconnection has preliminarily reviewed the power uprate for impacts and grid stability and concludes that the proposed electrical output will not have any effect on grid stability or reliability. Provide details of the grid stability study and discuss in depth the assumptions, methodology, cases studied, and evidence to support the aforementioned conclusion.

3. For the power uprate of 1.38%, please identify the nature and quantity of megavolt ampere reactive (MVAR) support necessary to maintain post-trip loads and minimum voltage levels. Also, address how the power uprate would affect MVAR support. Are there any compensatory measures the licensee would take to address the potential depletion of the nuclear unit's MVAR capability on a grid-wide basis as a result of the power uprate?

4. Provide a detailed comparison of existing ratings with uprated ratings and the effect of the power uprate on the plant service transformers.

Enclosure