



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

WASHINGTON, D.C. 20555-0001

March 24, 2009

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., the licensee, proposed to increase the authorized core power level of its Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2, from 2700 megawatts thermal (MWt) to 2737 MWt.

By letter dated February 18, 2009, the licensee responded to the Nuclear Regulatory Commission (NRC) staff's request for additional information dated November 17, 2008. The staff has reviewed this latest submittal and concludes that additional clarification is needed for your response to the NRC's Reactor Systems Branch question number 4. The staff has prepared the enclosed request for additional information.

Based upon discussions with your staff, we understand that you plan to respond to the enclosure within 60 days from the date of this letter. Please contact me at 301-415-1364 if you have any questions.

Sincerely,

A handwritten signature in black ink, reading "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 SUPPLEMENTAL INFORMATION

CALVERT CLIFFS NUCLEAR POWER PLANT, INC.

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

REQUEST FOR MEASUREMENT UNCERTAINTY RECAPTURE UPRATE

SUPPLEMENTAL REQUEST NO. 3

Based on information obtained in Figures 1 and 2 of Attachment (2) to Response to Request for Additional Information Dated November 17, 2008 - Measurement Uncertainty Recapture Power Uprate - it appears that the downstream pressure transmitters may be in close proximity to either the spool piece or an elbow. Please explain the effects that the spool piece and elbow will have on the pressure indication and what measures will be taken to correct for any effects.

SUPPLEMENTAL REQUEST NO. 4

The information provided by the licensee shows inconsistencies between the laboratory calibration setup and the piping run in that there are nearby elbows downstream of the in-situ ultrasonic flow meter installation. The supplement does not appear to discuss or explain these differences between the as-tested and as-installed configuration, as requested by the staff.

This is particularly of concern for the Unit 1 ,Loop A header, where the spool piece is to be installed 1 foot, 3 inches upstream of a piping elbow. This is narrowly less than a single piping diameter, and far less than the 20 or greater pipe diameters commonly accepted to be the required length to establish fully developed, turbulent flow.

Please explain how the laboratory calibration accounts for the close-by downstream configuration changes that are not discussed in the laboratory testing report.

Enclosure

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/RA/

Douglas V. Pickett, Senior Project Manager
Plant Licensing Branch I-1
Division of Operating Reactor Licensing
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OFFICE	PM/LPL1-1	LA:LPL1-1	BC/SRXB	BC/LPL1-1
NAME	DPickett	SLittle	GCranston by memo dated	MKowal
DATE	03/24/09	03/24/09	02/26/09	03/24/09

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