

February 24, 1988

Docket Nos. 50-317
and 50-318

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Mr. J. A. Tiernan
Vice President-Nuclear Energy
Baltimore Gas and Electric Company
P.O. Box 1475
Baltimore, Maryland 21203

Dear Mr. Tiernan:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - GENERIC LETTER 86-06
"IMPLEMENTATION OF TMI ACTION ITEM II.K.3.5, 'AUTOMATIC TRIP
OF REACTOR COOLANT PUMPS'" (TACS 49674 AND 49675)

The NRC staff contractor, T&G Idaho, Inc., has completed its initial review of your letters dated October 23 and November 21, 1986. These submittals were provided in response to NRC Generic Letter 86-06. It has been determined that additional information is required to complete this review. The request for additional information is enclosed.

Please provide the information as requested within 60 days following the issuance of this letter. If additional time is needed to provide the requested information, please inform us of your proposed schedule for providing this information within 30 days of the issuance date.

When you respond to this request, please include our technical assignment control numbers (TACS 49674 and 49675) in your subject line. Including these numbers permits superior tracking of all correspondence related to this specific issue in the NRC's computerized internal tracking system (NUDOCS) which also is available for public use at the NRC's Public Document Room.

The reporting and/or recordkeeping requirements of this letter affect fewer than ten respondents; therefore, OMB clearance is not required under PL 96-511.

Sincerely,

BB03020121 880224
PDR ADOCK 05000317
P PDR

Scott Alexander McNeil, Project Manager
Project Directorate I-1
Division of Reactor Projects, I/II

Enclosure:
As stated

cc: See next page

PDI-i
CVogan *CV*
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SMcNeil *SM*
2/24/88

24
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Mr. J. A. Tiernan
Baltimore Gas & Electric Company

Calvert Cliffs Nuclear Power Plant

cc:

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REQUEST FOR ADDITIONAL INFORMATION

BALTIMORE GAS & ELECTRIC COMPANY

CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2

DOCKET NOS. 50-317 AND 50-318

RESPONSE TO GENERIC LETTER 86-06

"IMPLEMENTATION OF TMI ACTION ITEM II.K.3.5"

1. The licensee's description (ref. 1) of the instrumentation uncertainties for loop PT-105 differs from the material presented in previous letters (ref. 2, 3). The licensee intends to use an uncertainty of approximately 212 psia during the first 5 minutes of a LOCA or non-LOCA transient. After 5 minutes have passed an uncertainty of 423 psia will be used. The licensee needs to describe the basis for determining the 212 and 423 psia uncertainties for loop PT-105. Also, the licensee needs to describe how the 5 minute switch point was determined.
2. The generic responses to Questions 48-55 (ref. 5) describe the major assumptions used in the CE analyses. The licensee needs to review these assumptions and verify that they are valid for Calvert Cliffs. The licensee's response can be presented as a corresponding list of plant specific values, noting areas of conservatism. Any plant specific values that are less conservative than the generic analyses must be justified.
3. Section 5 of CEN-268 (ref. 4) evaluates sample transients that are representative of CE plants. The generic setpoints (1300 psia primary pressure and 20°F subcooling margin) and the predicted system behavior were discussed. The licensee needs to verify that the plant specific setpoints will not significantly affect the results of the generic analyses.
 - a. Verify that the generic assessment of each transient is valid for Calvert Cliffs, i.e., the time at which the Calvert Cliffs pumps are tripped (1725 psia setpoint plus uncertainty) is not significantly different from the time when the pumps are tripped for the generic case. The licensee can express this assessment in terms of the appropriate transient curves, primary and secondary setpoints including uncertainty, system behavior, and availability of equipment (e.g., use of more than 1 HPSI or make up pump during recovery from the transient).
 - b. If the Calvert Cliffs assessment in (a) leads to different results than the generic report, (e.g., trip all 4 pumps at Calvert Cliffs instead of tripping 2 pumps and leaving 2 pumps running, then describe the basis for acceptance. The licensee should be mindful of meeting the intent of Generic Letter 86-06, namely "pumps will remain running for those non-LOCA transients and accidents where forced convection cooling and pressurizer pressure control would enhance plant control."

4. The licensee indicated (ref. 1) that implementation of the RCP trip strategy is consistent with the CE Report NPSD-151-P "CE Safety Analysis Methods for Calvert Cliffs Units 1 and 2." The licensee is requested to provide an information copy of this document.

REFERENCES:

1. Telephone conference between BG&E, NRC, EG&G Idaho, Inc. "Clarification of Calvert Cliffs Response to Generic Letter 86-06", November 30, 1987.
2. Letter from J. A. Tiernan (BG&E) to A. C. Thadani (NRC), dated October 23, 1986.
3. Letter from J. A. Tiernan (BG&E) to A. C. Thadani (NRC), dated November 21, 1986.
4. Combustion Engineering Report CEN-268, dated March 1984.
5. Combustion Engineering Report CEN-268 Supplement 1-NP, dated November 1984.