

BALTIMORE GAS AND ELECTRIC COMPANY

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NUCLEAR POWER DEPARTMENT
CALVERT CLIFFS NUCLEAR POWER PLANT
LUSBY, MARYLAND 20657

December 17, 1982

Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

ATTENTION: MR. R. A. Clark, Chief
Operating Reactors Branch #3
Division of Licensing

SUBJECT: Calvert Cliffs Nuclear Power Plant
Unit 2, Docket No. 50-318, DPR-69
Response to NRC Question on Cycle 5
Instrument Loop Uncertainties

Gentlemen:

NRC staff posed a question relative to the similarity of instrument loop uncertainties on Unit 2, Cycle 5 and Unit 1, Cycle 6. The technique for developing instrument loop uncertainties for those plant parameters affected by the Unit 1, Cycle 6 and Unit 2, Cycle 5 reload designs and safety analyses is identical for both units. In some cases the components in instrument loops are not identical between the Units. In all cases, the manufacturer's stated tolerances or tolerances more conservative than stated by the manufacturer for a component are used in developing an instrument loop uncertainty. The instrument loop uncertainty is added algebraically to the setpoint of the plant parameter used in the safety analysis and thereby yields the value stated in the Technical Specifications. The instrument loop uncertainty includes an allowance for drift based on plant experience. In some cases the value of the setpoint entered into the equipment is more conservative than specified in the Technical Specifications in order to ensure that unexpected drift rates and

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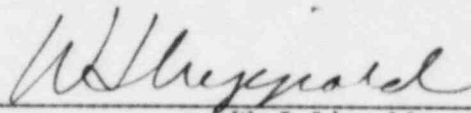
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less than precise settings of instrument potentiometers can be accommodated without violating the value in the Technical Specifications.

Should you have any questions, please contact me.

Very truly yours,

BALTIMORE GAS AND ELECTRIC COMPANY



W. J. Lippold
Nuclear Fuel Management

WJL/fld

Enclosure (40 copies)

cc: J. A. Biddison, Esquire
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