

BALTIMORE GAS AND ELECTRIC COMPANY *ma*

PO BOX 1475  
BALTIMORE MARYLAND 21203

LEAR POWER DEPARTMENT  
LVBRT CLIFFS NUCLEAR POWER PLANT  
BY, MARYLAND 20687

October 22, 1982

Mr. Ronald C. Haynes, Director  
U. S. Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, PA 19406

Docket No. 50-318  
License No. DFR 59

SUBJECT: LRR 82-49, Unit 2

Dear Mr. Haynes:

This letter is to confirm our notification of your Mr. Daleh Architect of a possible unplanned reactivity insertion of more than 0.3%  $\Delta K/K$  on October 22, 1982 (T.S. 6.9.1.8.d).

At approximately 0130 on October 22, while in Mode 6 with the Reactor Coolant System partially drained, it was discovered that a quantity of non borated water (estimated to be less than 630 gallons) was inadvertently injected into the Reactor Coolant System. The source of this water was a steam generator hydrotesting operation. Boron samples indicate a dilution of less than or equal to 130 ppm, which equates to a reactivity insertion of (at most) 1.3%  $\Delta K/K$ . The reactor remained shutdown by at least 22.0% during this event. All CEA's were fully inserted and the fuel shuffle had not yet commenced. By 1450, without any boration, RCS boron concentration had returned to near the prevent level.

A complete description of this event together with the cause and corrective action will be provided in a follow-up report.

Very truly yours,

*L. B. Russell*  
L. B. Russell  
Plant Superintendent

LRR/bsg

cc: J. A. Tiernan  
Director, Office of Management  
Information & Program Control  
R. L. Wanderlich

R. M. Hurd  
R. V. Archibald  
R. B. Russell  
W. D. Gibson