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# BALTIMORE GAS AND ELECTRIC COMPANY

P.O. BOX 1475  
BALTIMORE, MARYLAND 21203

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

February 4, 1981

State of Maryland  
Office of Environmental Programs  
Waste Management and Enforcement Program  
Tawes State Office Building  
Annapolis, Maryland 21401

Attention: Mr. Raymond E. Riggin

Re: Maryland State Discharge  
Permit No. 74-DP-0187A  
(NPDES No. MD 0002399)

Dear Mr. Riggin:

During completion of the quarterly report, it was noted that there were violations of outfall 101 requirements not previously reported in accordance with section II.B.2 of the Maryland State Discharge Permit No. 74-DP-0187A. Information concerning these violations is presented below:

- 1) On October 12, free available chlorine was determined to be 0.7 mg/l. The chlorine level was reduced to <0.1 mg/l on October 14. An overadjustment of the pump stroke on the chlorine pump resulted in a slight increase over the permit requirement of 0.5 mg/l.
- 2) On November 21, a reading of 1.5 mg/l free available chlorine was recorded. The cause was identified to have resulted from an improperly batched chlorine storage tank. Corrective action was initiated and the concentration reduced to <0.1 mg/l on the 25th of November. To prevent recurrence of this incident all technicians will be retrained on the procedure of batching chlorine concentrate tanks.
- 3) On October 29, a coliform reading of 345 mpn/100 ml was determined. This is a violation of section I.D. of the Maryland State Discharge Permit No. 74-DP-0187A. The event was believed to be caused by an unusually high flow to the sewage plant soon after the start of a refueling outage. This surge substantially increased the flow in the chlorine contact tank, which, in turn, reduced the chlorine contact time. This contact time was too short to provide proper disinfection. To correct this situation,

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the chlorine concentration was increased in the contact tank and the recirculation flow path to the plant was adjusted to absorb surges to prevent recurrence.

- 4) On October 22, the sewage treatment plant discharge suspended solids concentration was determined to be 48.8 mg/l, primarily due to exceptionally high flow. This is greater than the allowable 45 mg/l authorized by section I.D. of the reference permit. In addition, the monthly average suspended solids concentration was calculated to be 31.5 mg/l, above the permit specification of 30 mg/l.

To insure compliance with the reporting requirements of the Maryland State Discharge Permit, all technicians have been reinstructed to inform the appropriate supervisor(s) of all out-of-specification chemistry parameters.

Sincerely yours,

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

GEB:fcg