



CHARLES CENTER • P.O. BOX 1475 • BALTIMORE, MARYLAND 21203-1475

CALVERT CLIFFS NUCLEAR POWER PLANT DEPARTMENT  
CALVERT CLIFFS NUCLEAR POWER PLANT  
LUSBY, MARYLAND 20637

October 30, 1991

Carol J. Coates  
Maryland Department of Environment  
2500 Broening Highway  
Baltimore, Maryland 21224

Dear Ms. Coates:

RE: Maryland State Discharge Permit No. 86-DP-0187  
and NPDES Permit No. MD0002399

On October 22, 1991, the Calvert Cliffs Sewage Treatment Plant lost electrical power for approximately four (4) hours. During the electrical outage a routine weekly effluent sample was taken by an employee of the Maryland Environmental Service. No residual chlorine was identified in the sample. A fecal coliform analysis on this sample yielded a concentration of greater than 1600 mpn/100 ml sample which is greater than the daily maximum limit of 400 mpn/100 ml sample.

The cause of this event was investigated and the failure was traced to a faulty breaker that did not open correctly during a heating system overload. Instead of the appropriate breaker opening, the Motor Control Center master breaker opened causing a total plant loss of electrical power. To prevent a recurrence of this type of event the faulty breaker was manually opened and electrically isolated. The other circuit breakers on the same Motor Control center will be tested to ensure that they will open properly as designed.

No impact upon the receiving water was observed. A Biochemical Oxygen Demand and Total Suspended Solids sample taken at the same time as the fecal coliform sample indicated that these analyses were within NPDES daily limits. The power outage was not long enough to allow untreated sewage waste to overflow from plant.

If you have any questions regarding this information, please call me at (301) 260-4020.

Sincerely,

James Szymkowiak  
Chemical Analyst

cc: NRC

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