

# PHILADELPHIA ELECTRIC COMPANY

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March 15, 1986

Department of Environmental Resources  
Bureau of Water Quality Management  
One Ararat Blvd.  
Harrisburg, PA 17110

SUBJECT: Noncompliance with NPDES Permit  
Peach Bottom Atomic Power Station  
Permit No. PA 0009733

Gentlemen:

## DESCRIPTION OF NONCOMPLIANCE:

The total phosphorus of a sample from discharge point 501 (Sewage Treatment Plant) exceeded the permit limit for instantaneous maximum and the monthly average for the month of February, 1986.

Date Sample Taken:	2/05/86
Date Results Received:	2/17/86
Results of Analysis:	4.3 mg/l
Monthly Average Analysis:	4.3 mg/l
Permit Limitation:	2.0 mg/l Monthly Average 4.0 mg/l Instantaneous Maximum

## CAUSE OF NONCOMPLIANCE:

The cause of the non-compliance is the sewage treatment plant is not able to reduce the phosphorus to below the permit limit.

## DURATION OF NONCOMPLIANCE:

The duration of the non-compliance has continued since the receipt of the new permit limits in October, 1985.

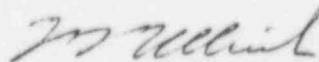
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CORRECTIVE ACTION:

On February 10, 1986, addition of Nalco Ultrion 8155 (Aluminum Chloride Coagulant) was begun at the clarifier splitter box. The system was put in service using a manually operated feed system. The first few days the system appeared to be working well and showed low levels of phosphorus (maximum 2.2 ppm as analyzed on site using a Direct Current Plasma Spectrophotometer which is not an approved method at this time). On February 18, 1986 after a holiday weekend there was a noticeable degradation in the sewage treatment plant operation. A check of the aeration tank indicated a drastic reduction in biological activity. The vendor was contacted and use of the Ultrion was discontinued to allow recovery. Communication with the vendor indicated that an overfeed may have occurred over the holiday weekend due to low plant flow rates. The overfeed may have shocked the system and resulted in the decline of the biological activity. This pointed to the necessity of an automated chemical feed so that it will operate in proportion to system flow. It has been determined that this could be accomplished by tapping into the signal that operates the sewage transfer pumps. A site modification is in progress to tap this signal. It is anticipated to have the Nalco system back in operation during the month of March, 1986.

Very truly yours,



W. T. Ullrich  
Superintendent  
Nuclear Generation Division

JAV/WTU:ala

cc: Environmental Protection Agency  
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