

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

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(215) 841-4000

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 monthly average Biological Oxygen Demand (BOD) of discharge point 501 (Sewage Treatment Plant) exceeded the permit limit for the month of February.

Dates Sample Taken:	2/05/86	2/26/86
Dates Results Received:	2/19/86	3/5/86
Results of Analysis:	37 mg/l	47 mg/l

Monthly Average Analysis:	42 mg/l	Monthly Average
Permit Limitation:	30 mg/l	Monthly Average

CAUSE OF NONCOMPLIANCE:

The cause of the non-compliance was a degradation of biological activity associated with the initiation of the Nalco Ultrion 8155 (Aluminum Chloride Coagulant) addition system. The reduction in biological activity resulted in inadequate treatment of the sewage causing an increase in the biological oxygen demand.

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On February 10, 1986, addition of Nalco Ultrion 8155 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). 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

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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.

DURATION OF NONCOMPLIANCE:

The duration of the non-compliance is unknown.

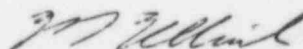
CORRECTIVE ACTION:

The Nalco system was taken out of operation on February 21, 1986 to allow recovery of the biological activity.

PREVENTION OF FUTURE OCCURRENCES:

When the Nalco system is returned to service in March, 1986, it will operate in proportion to flow.

Very truly yours,



W. T. Ullrich
Superintendent
Nuclear Generation Division

JAV/WTU:ala

cc: Environmental Protection Agency
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Pennsylvania Section 3WM52
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