



**CENTERIOR  
ENERGY**

**PERRY NUCLEAR POWER PLANT**

10 CENTER ROAD  
PERRY, OHIO 44081  
(216) 259-3737

Mail Address:  
PO BOX 97  
PERRY, OHIO 44081

July 31, 1991  
PY-CEI/OEPA-0133 L

**Michael D. Lyster**  
VICE PRESIDENT - NUCLEAR

Mr. Richard Magni  
OEPA Division of Water Pollution Control  
P.O. Box 1049  
1800 WaterMark Drive  
Columbus, Ohio 43266-0149

Re: Perry Nuclear Power Plant  
NPDES Permit Number 31B00016\*DD  
H-130 Addition for Zebra Mussel Control

Dear Mr. Magni:

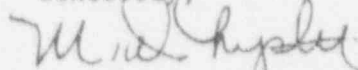
The Calgon Corporation has been enlisted to provide treatment for control of zebra mussels at the Perry Nuclear Power Plant with their product, "H-130". The information in the enclosed attachments is provided for your review and approval prior to applying this treatment.

Attachment 1 provides responses to the Ohio EPA questionnaire entitled "Reporting and Testing Requirements for Cooling Water System Additives". The proposed routing of the product is shown in Attachment 2. Water systems will be treated once in September at a concentration of approximately 5 mg/l for 8 hours. This program will be conducted by Calgon and plant personnel and monitored by plant environmental and chemistry personnel.

Calgon has also been enlisted to treat the cooling tower with an anti-foaming agent, "CL-37", should H-130 cause any concerns due to the formation of foam during the treatment. Attachment 3 provides responses to the Ohio EPA questionnaire for this product.

We feel that all the information needed to evaluate the use of Calgon Corporations "H-130" and "CL-37" at the Perry Power Plant is enclosed. Our intention is to begin preparation for a treatment tentatively scheduled for September 11, 1991, pending your approval. We would therefore appreciate your notifying us of the results of your evaluation as soon as possible. Please call Louise Barton at (216) 259-3737 ext. 5512 if you should have any questions or need additional information.

Sincerely,

  
Michael D. Lyster

MDL: AHL:njc

cc: NRC Document Control Desk  
NRC Project Manager  
NRC Resident Inspector Office  
NRC Region III  
B. Hall, OEPA - Northeast District Office

Operating Companies  
Cleveland Electric Illuminating

U.S. Edison

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PDR ADOCK 05000440  
PDR

*Cool*  
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ATTACHMENT 1 - "H-130"

Reporting and Testing Requirements for Cooling Water System Additives

1. The name of the additive.

The additive is "H-130" (Calgon Corporation).

2. The concentration (mg/l) of the additive to be used.

Additive concentration will be between 2.5 and 5 mg/l for 8 hours.

3. The expected concentration of the additive contained in the discharge or blowdown immediately prior to entering state surface water.

The product will be adsorbed onto bentonite clay added to the discharge prior to entry to Lake Erie. The discharge concentration is not expected to exceed 0.04 mg/l.

4. The flowrate (MGD) of the discharge to state surface water.

The average flowrate from June 1990 to June 1991 was 95 MGD.

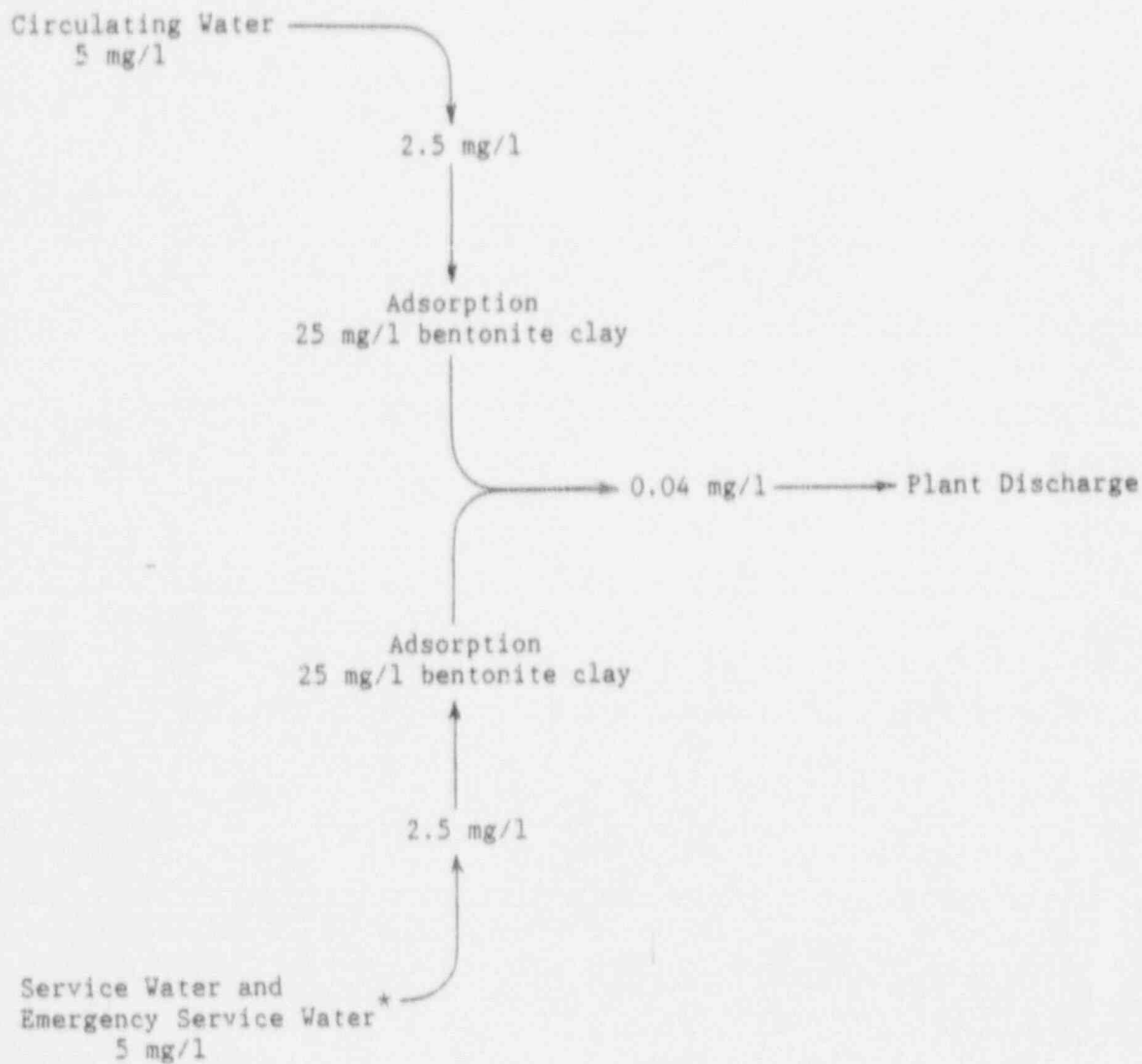
5. Name of the state surface waters that receives the discharge.

The state surface water receiving the plant discharge will be Lake Erie.

6. Toxicity information regarding additive to be submitted.

96 hour LC50 - Rainbow Trout	1.10 mg/l
96 hour LC50 - Fathead Minnow	0.29 mg/l
96 hour LC50 - Bluegill Sunfish	0.60 mg/l
48 hour LC50 - Daphnia magna	0.20 mg/l

ATTACHMENT 2



\* A boat will be used to apply the product through a hose directly to the plant's submerged intake structures.

## ATTACHMENT 3 - "CL-37"

## Reporting and Testing Requirements for Cooling Water System Additives

1. The name of the additive.

The additive is "CL-37" (Calgon Corporation).

2. The concentration (mg/l) of the additive to be used.

"CL-37" will be used at a concentration of 10 mg/l.

3. The expected concentration of the additive contained in the discharge or blowdown immediately prior to entering state surface water.

The maximum concentration of "CL-37" is expected to be 1.9 mg/l.

4. The flowrate (mgd) of the discharge to state surface waters.

The average flowrate from June 1990 to June 1991 was 95 MGD.

5. Name of the state surface waters that receives the discharge.

The state surface water receiving the plant discharge will be Lake Erie.

6. Toxicity information regarding additive to be submitted.

96 hour LC50 -- Fathead Minnow	>2,000 mg/l
48 hour LC50 Daphnia magna	500 mg/l