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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316
 AUTH. NAME AUTHOR AFFILIATION
 FITZPATRICK, E. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP. NAME RECIPIENT AFFILIATION
 MARTIN, J. B. Document Control Branch (Document Control Desk)

SUBJECT: Notices of chemical cleaning of sodium hypochlorite
 diffuser piping.

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Donald C. Cook Nuclear Plant Units 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
CHEMICAL CLEANING: SODIUM HYPOCHLORITE DIFFUSER PIPING

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Attn: J. B. Martin

November 30, 1994

Dear Mr. Martin:

This notification is forwarded for your information pursuant to Appendix "B" of the Donald C. Cook Nuclear Plant Environmental Technical Specifications. The subject of this notification concerns chemical cleaning of our sodium hypochlorite diffuser piping. This cleaning is required due to calcium carbonate scale which builds up in the diffuser piping.

Due to industrial safety concerns associated with handling hydrochloric acid previously employed, we intend to use a less hazardous chemical, Betz "Deposit-trol 855D," to dissolve the calcium carbonate.

Approximately 40 ml/min of "Deposit-trol 855D" will be fed for six hours to each diffuser. A total of four diffusers require cleaning at this time. We intend to clean the plant diffusers (11 total) approximately two to three times per year to maintain sodium hypochlorite flow to our lake water systems. Sodium hypochlorite is used to control zebra mussel settlement in the service water systems and to control slime growth in the condensers.

The deposits removed by this operation, consisting mainly of sodium chloride, sodium carbonate, and calcium carbonate, will be released via outfalls 001 and/or 002. A dilution flow of at least 690,000 gallons per minute will be achieved. The final concentration at outfalls 001 and/or 002 will be 0.016mg/liter.

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Mr. J. B. Martin

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AEP:NRC:1208E

As required by the Cook Nuclear Plant National Pollutant Discharge Elimination System Permit No. MI0005827, written notification of this process change was provided to the Surface Water Quality Division of the Michigan Department of Natural Resources on October 26, 1994.

Should you have any questions or concerns regarding this notification, please contact Dane Mazzitti at (614)223-2085.

Sincerely,



E. E. Fitzpatrick
Vice President

eh

cc: A. A. Blind
G. Charnoff
NFEM Section Chief
NRC Resident Inspector
J. R. Padgett
W. T. Russell, NRC - Washington, D.C.