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 AUTH. NAME AUTHOR AFFILIATION
 BAKER, D.L. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: NPDES noncompliance notification: on 920630, minor inadvertent discharge of treatment chemical Clam-trol CT-1 may have occurred. Fire protection Clam-trol treatment was suspended immediately & will not be resumed until alterations made.

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Indiana Michigan
Power Company
One Summit Square
P.O. Box 60
Fort Wayne, IN 46801
219 425 2111



Mr. Fred Morley
Surface Water District Supervisor
Michigan Department of Natural Resources
P. O. Box 355
Plainwell, MI 49080

July 2, 1992

Dear Mr. Morley:

RE: NPDES Permit No. MI 0005827

The chemical treatment of zebra mussels in the Cook Nuclear Plant fire protection systems was previously authorized by the Michigan DNR - Waste Management Division and the Michigan Water Resource Commission. This letter is to notify you that a minor inadvertent discharge of the treatment chemical Clam-trol CT-1 may have occurred into surface waters. Since no discharge to a surface water had been anticipated, no prior notification was made to your office.

On June 30, 1992, while performing the chemical treatment of the plant's fire protection systems plant personnel discovered a miniflow discharge line on the low-demand fire protection pump which directs a very small portion of diluted CT-1 to the Essential Service Water (ESW) return piping, which in turn discharges into the Unit One Outfall 001 (circulating water discharge).

Engineering calculations indicate that the resultant concentration of Clam-trol CT-1 was less than 0.004 mg/l. Calculations are based on the following criteria:

1. Estimated flow through miniflow line: 96-100 gallons per minute
2. Estimated Clam-trol concentration: 28.3 mg/l based on the maximum chemical metering pump discharge rate
3. Estimated dilution flow:
 - (3) Circulating water pumps, rated at 230,000 gpm
 - (1) ESW pump, rated at 4,000 gpm
 - (1) NESW pump, rated at 4,500 gpm

The calculation is conservative in that it does not take Clam-trol CT-1 chemical demand into consideration. Normal intrasystem consumption for past zebra mussel treatments of service water with Clam-trol was approximately 0.1 mg/l. Therefore, it is quite likely that no Clam-trol actually reached Lake Michigan.

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PDR. ADDCK 05000315
S PDR

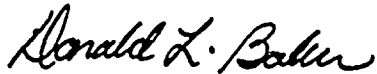
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July 2, 1992
Mr. Fred Morley
Page Two

The fire protection Clam-trol treatment was suspended immediately upon discovering the discrepancy and will not be resumed until appropriate alterations are implemented.

Feel free to call me at (219)425-2118 if you have any questions.

Very truly yours,



Donald L. Baker
Environmental Affairs Director

DLB/sdb/044

c: ☒ NRC Document Control
A. B. Davis - NRC, Region III
J. A. Isom - NRC Resident Inspector

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this and all attached documents; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Donald L. Baker

July 2, 1992
Mr. Fred Morley
Page Three

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