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 FACIL: 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 BAKER, D.L. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP. NAME RECIPIENT AFFILIATION
 KILMER, G. Michigan, State of

SUBJECT: Informs that on 910505, discovered small leak in main turbine lubricating oil coolers. Leaking cooler isolated preventing loss of oil to nonessential svc water. Exact amount of oil lost unknown, estimated 860 gallons observed in tank level.

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**INDIANA
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Mr. Galen Kilmer
District Environmental Response Supervisor
Michigan Department of Natural Resources
P. O. Box 355
Plainwell, Michigan 29080

May 14, 1991

Dear Mr. Kilmer:

On May 5, 1991, at 2334 hours EDT, personnel at the Indiana Michigan Power Company (I&M) Cook Nuclear Plant discovered a small leak in one of Unit 2's main turbine lubricating oil coolers. Lake water from the Nonessential Service Water (NESW) System is pumped through cooler tubes to cool the lube oil. This small hole created a connection between the cooler and the NESW System, which discharges to Lake Michigan. The leaking cooler was isolated on May 5, 1991, thereby preventing any more loss of oil to the NESW System.

The exact amount of oil lost is not known, but is estimated to be 860 gallons, based on the observed drop in lube oil tank level. Because the leak is believed to have occurred over a ten day time period, and because the NESW System is discharged into the 920,000 gpm Circulating Water System, no oil was ever detected in the discharge. A physical inspection of the shoreline and near-shore waters on May 6 revealed no oil present.

The incident was reported to the National Response Center, Report No. 70917, and the Michigan PEAS on May 6, 1991.

In order to prevent future occurrences, a preventive maintenance program for the four Unit 2 main turbine lube oil coolers will be implemented.

If there are any further questions, please contact Dave Shipe, Environmental Engineer, at (219) 425-2123.

Very truly yours,

Donald L. Baker
Environmental Affairs Director

DLB/sdb/004

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Mr. Galen Kilmer
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