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 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME: BAKER, D.L. AUTHOR AFFILIATION: Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 RECIP. NAME: ADAMKUS, V. RECIPIENT AFFILIATION: Region 5, Ofc of the Director

SUBJECT: Discusses oil 890224 & 0405 oil release events. Cause of 890224 event attributed to mfg defect.

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Mr. Valdas Adamkus
Regional Administrator
USEPA Region V
230 South Dearborn Street
Chicago, IL 60604

April 21, 1989

Dear Mr. Adamkus:

The following information is being provided per 40 CFR 112.4 as a result of two oil release events reported to the National Response Center within a twelve month period (Report Numbers 2727 & 4941.) The information is presented in the order required by 40 CFR 112.4.

- 1) Name of facility:
Indiana Michigan Power Company (I&M)
Donald C. Cook Nuclear Plant
- 2) Name of Operator: Indiana Michigan Power Company
- 3) Location of the facility: Bridgman, Michigan
- 4) Dates and years of initial facility operation:
Unit One: 8-23-75
Unit Two: 7-1-78
- 5) Maximum storage capacity:
See attached SPCC Plan
12 PMP 2230 SPC.001
Attachment 1
- 6) Description of the facility:
Included are maps of the Donald C. Cook
Nuclear Plant, flow diagrams of the system
that failed, topographical map.
- 7) A complete copy of the SPPC Plan with any amendments:
12 PPM 2230 SPC.001 (Revision No. 3) - Oil Spill
Prevention Control and Countermeasure Plan
(See Attachment 1)
- 8) The cause(s) of such spill, including a failure analysis
of system or sub-system in which the failure occurred:

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The cause of the February 24, 1989 loss of lube oil (estimated to be 1156 gallons) was a tube failure in the Unit 2 Main Turbine Lube Oil Tank southeast cooler. The report on the eddy current testing conducted on the cooler concluded that the hole was most likely caused by a manufacturing defect, rather than tube degradation.

Eddy current is nondestructive testing that uses high frequency sound waves to measure geometric and physical properties in materials.

On April 5, 1989, a leak was detected in the northeast cooler on Unit Two Main Turbine Lube Oil Tank which resulted in less than 100 gallons of lube oil being discharged to Lake Michigan. It was originally reported that 635 gallons were unaccounted for, however 535 gallons were recovered from an internal system. Eddy current testing has been scheduled to determine the cause of tube failure.

- 9) The corrective actions and/or countermeasures taken including an adequate description of equipment repairs and/or replacements:

The leaking tube was mechanically isolated by a plug within the Southeast cooler bundle prior to returning the cooler back into service. As mentioned above, eddy current testing was performed to determine the cause of tube failure.

The Northeast cooler train is presently isolated awaiting eddy current testing. No oil was recovered from the two reported events, nor was any oil ever visible on the shore or nearshore waters.

- 10) Additional preventive measures taken or contemplated to minimize the possibility of recurrence:

A testing program is in place to identify the integrity of all coolers served by the non-essential service water system (lake water). The testing program will provide a base line for evaluating the integrity of all the coolers within the non-essential service water system from which a preventive maintenance program can be developed.

Other measures being taken include the evaluation of installed oil level instrumentation, and training plant operators in the timely detection of and response to indicated losses of oil.

Mr. Valdas Adamkus
April 21, 1989
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Surveillance sampling points are currently being reviewed to allow earlier detection of oil within all the circulating water systems at the Cook Nuclear Plant.

If there are any questions concerning the information in this report, please contact David A. Shipe, Environmental Engineer at (219) 425-2123.

Very truly yours,

A handwritten signature in cursive script, reading "Donald L. Baker".

Donald L. Baker
Environmental Affairs Director

cmk

Mr. Valdas A. Ankus
April 21, 1989
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