

CATEGORY 1

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FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316
AUTH. NAME AUTHOR AFFILIATION
SAMPSON, J.R. Indiana Michigan Power Co.
RECIP. NAME RECIPIENT AFFILIATION
Records Management Branch (Document Control Desk)

SUBJECT: NPDES noncompliance notification: on 980617, discovered lube oil discharge. Caused by leaking tubes due to corrosion of tubes. Leaking tubes repaired & established insp/preventive maint program for lube oil coolers.

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Indiana Michigan
Power Company
500 Circle Drive
Buchanan, MI 49107 1395



July 8, 1998

AEP:NRC:1208AA

Docket Nos: 50-315
50-316

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop O-P1-17
Washington, D.C. 20555

Gentlemen:

Donald C. Cook Nuclear Plant Units 1 and 2
LUBE OIL DISCHARGE - NPDES NOTIFICATION

The attached notification is forwarded for your information pursuant to Cook Nuclear Plant's Appendix B (Environmental) technical specifications. The subject concerns the inadvertent discharge of lube oil and the actions taken to mitigate the situation.

Should you have any questions or concerns regarding this notification, please contact Walter T. MacRae at 616/697-5067.

Sincerely,

J. R. Sampson
Site Vice President

/vlb

Attachment

cc: J. A. Abramson
MDEQ - DW & RPD
NRC Resident Inspector
C. J. Paperiello

IE231

140006

9807150232 980708
PDR ADDCK 05000315
S PDR

ATTACHMENT TO AEP:NRC:1208AA

LUBE OIL DISCHARGE - NPDES NOTIFICATION

American Electric Power
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
616 465 5901



Mr. Fred Morley, District Supervisor
Surface Water Quality Division
Michigan Department of Environmental Quality
1342 SR 89 West Suite B
Plainwell, MI 49080

June 25, 1998

Dear Mr. Morley:

Subject: Donald C. Cook Nuclear Plant
NPDES Permit No. MI0005827

As required by NPDES Permit MI0005827, Part II. Section A.6. Spill Notification, this written notification is being provided.

The Cook Plant's service water system cools the main turbine lube oil reservoir. This water system eventually discharges to Lake Michigan via Outfalls 001 and 002. On June 17, 1998, at 0100 hrs, the service water system cooling the unit 2 main turbine lube oil reservoir was found to have a tube failure. The heat exchanger was isolated immediately to prevent further oil leakage into the service water system, and spill cleanup commenced.

A visual survey of the unit 1 discharge showed very small oil sheens (<2" in diameter) that surfaced and broke up within 20 feet of the discharge. The unit 1 circulating water system was removed from service June 17, 1998, at 1359 hrs to prevent additional oil from reaching the lake. Further surveys later in the day verified that the small oil sheens were no longer present in the unit 1 discharge.

An inspection dive was conducted on June 19, 1998, to verify that there was no accumulated oil in the unit 1 discharge tunnel prior to restarting the unit 1 circulating water system. The unit 1 circulating water system was returned to service on June 19, 1998, at 2300 hrs.

It was initially estimated that approximately 900 gallons of Mobile DTE 797 oil leaked via this pathway over a 24-hour period. However, based on estimates of the amount of oil collected from the cooler itself, and by absorbents placed in the circulating water system, we conservatively estimate the amount of oil released to Lake Michigan to be 780 gallons.

The leaks were caused by corrosion of the tubes, and have been repaired. An inspection/preventive maintenance program has been established for the lube oil coolers using fiber optics and eddy current testing to monitor corrosion, followed by

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corrective actions to prevent tube failure. The coolers will be eddy current tested and repaired if necessary, prior to placing them back in service.

If you have any questions, please contact me at (616) 465-5901, ext. 1153.

Sincerely,

Blair Girdell for

J. P. Carlson
Environmental Compliance Manager

Mr. Fred Morley
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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.


J. R. Sampson
Site Vice President

