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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
 AUTH. NAME AUTHOR AFFILIATION
 SHALLER, D.V. Indiana & Michigan Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: AEO 80-002/04x-0: on 800314, total of 0.871 Ci Xe-133 & 2.37 x
 10-6 Ci I-131 released from unit 1 vent stack during valving
 of Unit 2 failed fuel detector. Caused by leak in fuel
 detector. Failed fuel detector & safety valves isolated.

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INDIANA & MICHIGAN ELECTRIC COMPANY

DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106
(616) 465-5901

March 24, 1980

Mr. J.G. Keppler, Regional Director
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Operating Licenses DPR-58 and DPR-74
Docket Nos. 50-315 and 50-316
AEO No. 80-022/04X-0

Dear Mr. Keppler:

The following report is being submitted as required by the Appendix B Technical Specifications, Section 5.4.2.1, and describes the cause and corrective action of the incident which was verbally reported to Mr. R.E. Masse, NRC Region III Inspector, at 1045 hours on March 14, 1980.

During valving in the Unit 2 Failed Fuel Detector, the sampling line was overpressurized causing the safety valve on the system to relieve. The reactor coolant water discharged from this safety valve, drained to the clean sump tank which vented radioactive gas to the Unit 1 vent stack.

This release was detected by the stack radiogas monitor R-26 with the alarm alerting the operators of a possible leak. Further investigation identified a leak coming from the Unit 2 Failed Fuel Detector which was immediately isolated. The Unit 1 vent radiogas monitor returned to background levels after isolating the safety valve.

Gas was released from the vent from 1020 to 1100 hours on March 14, 1980. A total of 0.871 Ci of Xe-133 was released at a rate of 7.74×10^{-4} Ci/Sec. This is 1.3 percent of the Technical Specification Appendix B Instantaneous Release Rate Limit Section 2.4.3.a.1. Also released were, 2.37×10^{-6} Ci of I-131, at a rate of 9.87×10^{-10} Ci/Sec. which is 0.015 percent of Technical Specification Appendix B Instantaneous Release Rate Limit Section 2.4.3.a.2.

This occurrence had no effect on the health and safety of the public.

Sincerely,

D.V. Shaller
Plant Manager

/bab

cc: See Attached Distribution

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5/10

8003310 341;

Mr. J.G. Keppler
March 24, 1980
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