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 FACIL: 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: Updates AEO 80-001/04X-0: on 800220, unplanned release of Na-24 contaminated steam occurred. Investigation estimates total release of Na-24 was 2.38 E-6 Ci at 0.11% concentration of Tech Spec.

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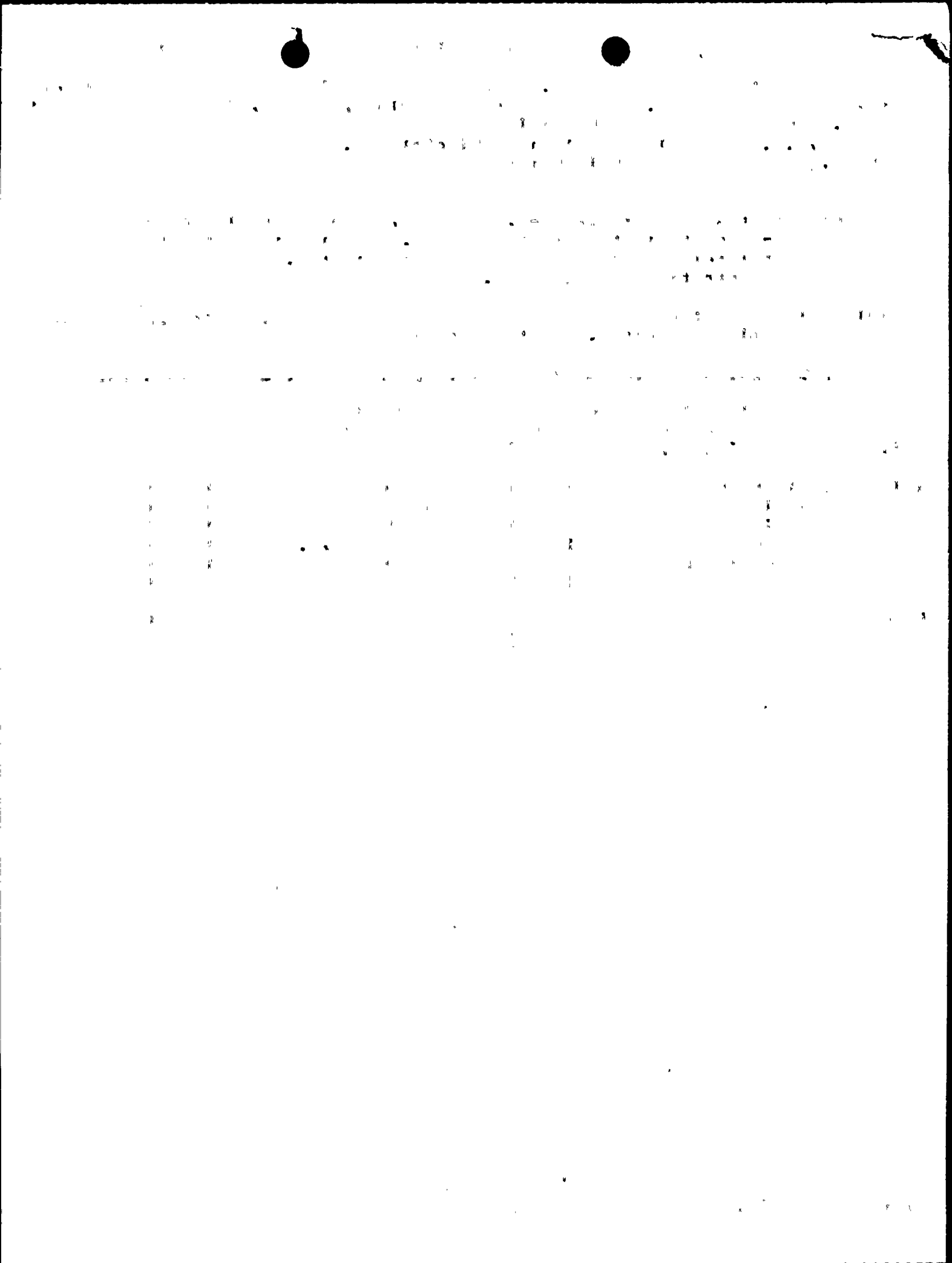
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MAR 6 1980

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Environ





INDIANA & MICHIGAN ELECTRIC COMPANY

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

February 26, 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 License DPR-74
Docket No. 50-316
AEO No. 80-001/04X-0

Dear Mr. Keppler:

On February 20, 1980, a written report was sent to you describing an event which occurred at the Donald C. Cook Nuclear Plant, Unit 2. In that report it stated that after a manual trip on Unit 2 the power operated relief valves were opened for a short period of time causing an unplanned release of Sodium 24 (Na-24) contaminated steam.

Investigation has shown that the power operated relief valve on #4 Steam Generator (MRV-243) was open and passing 320,000 lbs./hr. steam from 0250 to 0400 hours on February 19, 1980 as read on recorder 2-MR-020. The Na-24 in the steam generator was injected as part of a test being conducted on the moisture separator reheaters and laboratory analysis indicated that the concentration in the steam generator was $5.6 \text{ E-6 } \mu\text{Ci/cc}$ at the beginning of the release. By calculation, the actual release concentration was $5.47 \text{ E-12 } \mu\text{Ci/cc Na-24}$.

The applicable Technical Specification limit from 10CFR20 Appendix B, Table II, Column I for Na-24 in air to an unrestricted area is $5.0 \text{ E-9 } \mu\text{Ci/cc}$. The total release was 2.38 E-6 Ci at a concentration which was 0.11 percent of the Technical Specification limit.

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

Sincerely,

to D.V. Shaller
Plant Manager

/bab

cc: See Attached Distribution

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Mr. J.G. Keppler
February 26, 1980
Page 2 of 2

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