## AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL (TEMPORARY FORM)

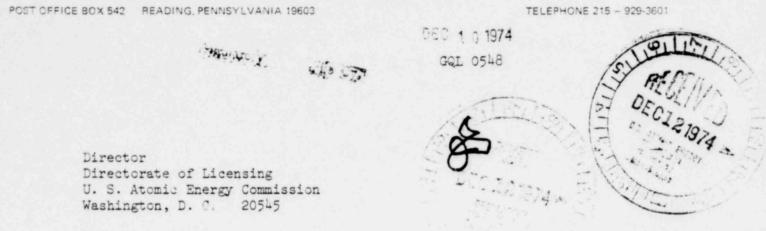
CONTROL NO 12521

FILE:\_\_\_\_\_

Directorate of Licensing   1-signed     CLASS   UNCLASS   PROPINFO   INPUT   NC     DESCRIPTION:   EN     Ltr reporting Abnormal Occurrence #74-26 on   11-29-74 concerning defective overcurrent   EN     trip device on the Feeder Breaker to the   1B Engineered Safeguards Motor Control   Center     PLANT NAME:   Three Mile Island Unit 1   FOR ACTION/INF     BUTLER (L)   SCHWENCER (L)   ZIEMANN (L)     W Copies   W/ Copies   W/ Copies     CLARK (L)   STOLZ (L)   DICKER (E)     W/ Copies   W/ Copies   W/ Copies     PARR (L)   VASSALLO (L)   KNIGHTON (E)     W/ Copies   W/ Copies   W/ Copies     KNIEL (L)   PURPLE (L)   YOUNGBLOOD	CC C IO CYS 1 NCLOS	ATION REGAN W/ Cop	SE DO KN 102 12 (E) ies	NT AE NT LO DCKET 50-2	NO: 89 EDGI MOVI	
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## METROPOLITAN EDISON COMPANY



Dear Sir:

Docket No. 50-289 Operating License DPR-50

In accordance with the Technical Specifications for our Three Mile Island Nuclear Station, Unit 1, we are reporting the following abnormal occurrence:

- 1. Report Number: A0 50-289/74-26
- 2a. Report Date: 050 1
- 2b. Occurrence Date: November 29, 1974
- 3. Facility: Three Mile Island Nuclear Station, Unit 1

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- 4. Identification of Occurrence
  - Title: Defective Overcurrent Trip Device on the Feeder Breaker to the 1B Engineered Safeguards Motor Control Center.
  - Type: An abnormal occurrence as defined by the Technical Specifications, paragraph 1.8d, in that the defective overcurrent trip device on the feeder breaker to the 1B Engineered Safeguards Motor Control Center threatened to cause an Engineered Safeguards feature or system to be incapable of performing its intended function.
- Conditions Prior to Occurrence: The reactor was in a cold shutdown condition with major plant parameters as follows:

Power: Core: 0% Elec: 0 MW

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Directorate of Licensing

RC Flow: 8 x 10<sup>6</sup> lbs/hr RC Pressure: 0 psig RC Temp: 91<sup>°</sup>F PRZR Level: 272 in FRZR Temp: 140<sup>°</sup>F

6. Description of Occurrence:

The feeder breaker to the 1B Engineered Safeguards Motor Control Center had been suspected to not be functioning properly and was, therefore, tested on August 18, 1974. The breaker appeared to be functioning properly during this test, and it was not until the performance of specially recommended vendor tests on October 24, 1974, that a problem could be identified within the breaker. Upon discovery of the problem, the breaker was then repaired and returned to service.

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The above-listed events were reviewed on November 29, 1974, by the Station Staff, and it was at this time that the decision was made to consider this problem reportable as an abnormal occurrence.

7. Designation of Apparent Cause of Occurrence:

<u>Component failure</u> was the apparent cause of the occurrence in that the plunger on the overcurrent trip-delay device suffered from mechanical binding and would not always return to its fully retracted position following a relatively large starting motor current surge; thus, it would not have as far to travel to trip the breaker.

8. Analysis of Occurrence:

For the following reasons it is believed that neither the health nor safety of the public was threatened by the defective overcurrent device:

- a. The breaker to the 1B Engineered Safeguards Motor Control Center probably would not have tripped in the event of an ESAS actuation in that current surges of greater than 1000 amps would have been required to cause premature tripping of the breaker; but because the largest load is started at slow speed during an ESAS actuation, the resulting current surge is significantly less than 1000 amps, and
- b. Even if the subject breaker had tripped prematurely, the "A" Engineered Safeguards Actuation System (ESAS) is completely redundant to the "B" ESAS.

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9. Corrective Action:

As an <u>immediate corrective action</u> the defective overcurrent device was replaced with a spare and the breaker tested. Having verified that the spare device was functioning properly, the breaker was then returned to service.

At a meeting held soon after this occurrence was reported, the Plant Operations Review Committee and the Station Superintendent reviewed and approved these actions.

10. Failure Data:

Frevious Failures:

None.

Equipment Identification:

Westinghouse #DB 50 Circuit Breaker Rating: 1600 amps 600 volts AC

Westinghouse Series Overcurrent Trip Device Rating: 1000 amps

Sincerely,

Arnold

Vice President

RCA: JFV: sh

cc: Mr. J. P. O'Reilly (DORO-Region 1)

File 20.1.1 7.7.3.5.1

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