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(TEMPORARY FORM)

CONTROL NO: **7190**

FILE: **INCIDENT REPORT FILE**

FROM: Metropolitan Edison Co Reading, Pa R C Arnold		DATE OF DOC 7-3-75	DATE REC'D 7-7-75	LTR XXX	TWX	RPT	OTHER
TO: DL		ORIG one signed	CC	OTHER	SENT AEC PDR <u>XX</u> SENT LOCAL PDR <u>XX</u>		
CLASS	UNCLASS XXXXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-289		

DESCRIPTION:

Ltr reporting abnormal occurrence #75-21 on 6-25-75 concerning failure of a high reactor coolant temperature trip bistable to trip.....

ENCLOSURES:

**DO NOT REMOVE
ACKNOWLEDGED**

PLANT NAME: **Three Mile Island #1**

FOR ACTION/INFORMATION

7-8-75

ehf

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- 1 - Newton Anderson		- 1 - J. D. RUNKLES, Rm E-201 GT
- 1 - ACRS SENT TO LIC ASST <u>Teets</u>		
** SEND ONLY TEN DAY REPORTS		

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METROPOLITAN EDISON COMPANY SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 - 929-3601

July 3, 1975
GQL 1235

Director
Division of Reactor Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

Docket No. 50-289
Operating License No. DPR-50

In accordance with the Technical Specifications of our Three Mile Island Nuclear Station Unit 1 (TMI-1), we are reporting the following abnormal occurrence.

- (1) Report Number: AO 50-289/75-21
- (2a) Report Date: July 3, 1975
- (2b) Occurrence Date: June 25, 1975
- (3) Facility: Three Mile Island Nuclear Station Unit 1
- (4) Identification of Occurrence:

Title: Failure of a High Reactor Coolant Temperature Trip
Bistable to trip.

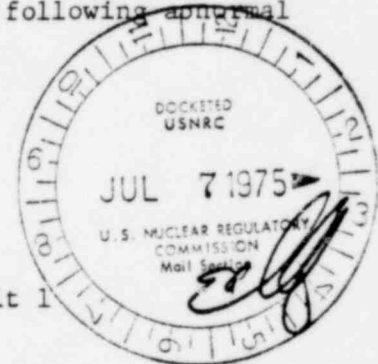
Type: An abnormal occurrence as defined by the Technical Specifications, paragraph 1.8d, in that failure of a High Reactor Coolant Temperature Trip Bistable to trip constituted failure of one or more components of an engineered safety feature or plant protection system that threatened to cause the feature or system to be incapable of performing its intended function.

- (5) Conditions Prior to Occurrence:

Power: Core: 99%

Elect.: 850 MWe Gross

RC Flow: 140.68×10^6 lbs/hr



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RC Pressure: 2155 psig

RC Temp.: 579⁰ F

PRZR Level: 240 inches

PRZR Temp.: 655⁰ F

(6) Description of Occurrence:

While conducting routine surveillance of the Reactor Protection System (RPS) the Reactor Coolant Temperature Trip Bistable for channel "C" failed to trip. The remaining three RPS channels were immediately checked and found to be operable. Further, the defective trip circuit of channel "C" was then replaced and verified to be operable.

(7) Designation of Apparent Cause of Occurrence:

The apparent cause of this occurrence has been determined to be material in that the failure of the High Reactor Coolant Temperature Trip Bistable to trip was traced to a defective printed circuit board solder joint in the signal converter. This defective solder joint prevented the trip signal from reaching the trip bistable.

(8) Analysis of Occurrence:

It has been determined that this occurrence did not represent a threat to the health and safety of the public, in that

- a. the high temperature trip feature of the remaining three RPS channels was immediately verified to be within Technical Specification limits, and
- b. only two high temperature trip channels are required to function for safety protection, and three were functioning properly, and
- c. the failed channel was immediately replaced, tested and returned to service.

(9) Corrective Actions:

In addition to the immediate corrective actions listed above, the defective channel "C" signal converter was repaired and tested and the results were satisfactory.

The Plant Operations Review Committee and Station Superintendent have reviewed and approved the above listed corrective actions.

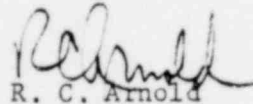
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(10) Failure Data:

Bailey System 880 Reactor Protection System Signal Converter (E92-346)

Similar Occurrences: none

Sincerely,



R. C. Arnold
Vice-President

RCA:CWS:pa

cc: Mr. J. P. O'Reilly, Director
Office of Inspection and
Enforcement, Region 1
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406
File 20.1.1
7.7.3.5.1

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