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TO: J.P.O'REILLY

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## DESCRIPTION

## ENVIRONMENTAL

REPORTABLE OCCURRENCE # 76-36/1T, ON 10-12-76,  
CONCERNING PLANT RIVER WATER DISCHARGE DISSOLVED  
SOLIDS CONCENTRATION IN EXCESS OF THE LIMITS  
DEFINED BY THE ENVIRO. TECH. SPEC.....

( 1 SIGNED CY. RECEIVED)  
3 PAGES)

PLANT NAME: THREE MILE ISLAND # 1

## ENCLOSURE

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED  
SEND DIRECTLY TO KREGER/J. COLLINS

## FOR ACTION/INFORMATION

SAB 11-2-76

☒ BRANCH CHIEF: REID  
☒ W/3 CYS FOR ACTION  
☒ LIC. ASST.: INGRAM  
☒ W/ CYS  
☒ ACRS 16 CYS ~~XXXXXXXX~~ SENT TO ~~XXX~~ CAT "B"

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## CONTROL NUMBER

1589 353  
11104

7911010 715



METROPOLITAN EDISON COMPANY SUBSIDIARY OF GENERAL PUBLIC UTILITIES CORPORATION

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 - 929-3601

October 27, 1976  
GQL 1501



Mr. J. P. O'Reilly, Director  
Office of Inspection and Enforcement, Region I  
U. S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, Pa. 19406

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 reportable occurrence:

1. Report Number: ER 76-36/1T
2. a. Required Report Date: October 26, 1976  
b. Date of Occurrence: October 12, 1976
3. Facility: Three Mile Island Nuclear Station - Unit 1
4. Identification of Occurrence:

Title: Plant River Water Discharge Dissolved Solids Concentration  
in Excess of the Limits Defined by the Environmental Technical  
Specifications

Type : A reportable occurrence as defined by Environmental Technical  
Specification 5.6.2.c in that the plant river water discharge  
dissolved solids concentration exceeded the limiting condition  
for operation defined by Environmental Technical Specification  
2.2.2.a.

5. Conditions Prior to Occurrence:

Power: Core : 100%  
Elec.: 845 MWe (Gross)

RC Flow:  $139 \times 10^6$  lbs./hr.

11114

1589 354

RC Pressure: 2155 psig

RC Temperature: 579°F

PRZR Level: 220 Inches

PRZR Temperature: 650°F

6. Description of Occurrence:

Upon analysis of the river water discharge at approximately 1100 hours on October 12, 1976, the dissolved solids concentration was found to be 772 ppm, in violation of the Environmental Technical Specifications' 700 ppm limit. Reanalysis indicated 735 ppm dissolved solids concentration. The sample was taken the same day at 0620 hours, concurrent with the normal discharge of water from the Waste Neutralizing Tank. The release of 51,790 gallons of water occurred over a four (4) hour period from 0430 hours to 0830 hours.

7. Designation of Apparent Cause of Occurrence:

It is not precisely known what caused the incident; however, it is believed that either the Neutralizing Tank discharge valve may have opened more than the required position or the sample collected at the discharge was not truly representative. During the discharge, the valve position was personally verified by the Shift Foreman to be in its correct position; however, it is remotely possible, that a spurious control problem could have opened the valve further, but this can neither be confirmed nor absolutely disproved. Additionally, the sampling technique was investigated to determine the possibility of collecting a misrepresentative sample. Nothing conclusive suggested a bad sample.

8. Analysis of Occurrence:

It has been determined that this occurrence did not constitute a threat to the health and safety of the public nor did it have any adverse impact on the environment in that the 700 ppm limit was exceeded by only a minor amount and over a relatively short period of time. If the sample was truly representative, then the time period during which the dissolved solids concentration was greater than the 700 ppm limit is believed to be less than two (2) hours.

9. Corrective Action:

The Waste Neutralizing Tank discharge valve has had a mechanical stop installed so that it cannot physically open beyond the required position.

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Mr. J. P. O'Reilly, Director

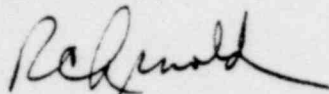
- 3 -

October 27, 1976  
GQL 1501

10. Failure Data: N/A

Similar Occurrences: E.I. 75-06

Sincerely,



R. C. Arnold  
Vice President

RCA:JMC:mft

1589 356