

NRC FORM 195
(2-76)

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER

50-289

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

ENVIRONMENTAL

DATE OF DOCUMENT

9/16/77

DATE RECEIVED

9/20/77

TO:

N. R. C.

FROM:

Metropolitan Edison Company
Reading, Pa.
J. G. Herbein☒ LETTER
☒ ORIGINAL
☐ COPY☐ NOTORIZED
☒ UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

1 signed

DESCRIPTION

ENCLOSURE

Consists of requested comments and changes
to the draft copy of the Radioactive Materials
Released from Nuclear Pwr. Plants with respect
to TMI-1.....

(1-P)

(2-P)

1566 343

PLANT NAME: Three Mile Island Unit No. 1
RJL 9/20/77

1 CY ENCL Rec'd *

FOR ACTION/INFORMATION

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST: (5) **

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1 EACH TO EPA HQS, EPA REGION, NOAA, F & W, & F & D

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772630456

7911010782



METROPOLITAN EDISON COMPANY

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 - 929-3601

September 16, 1977
GQL 1278

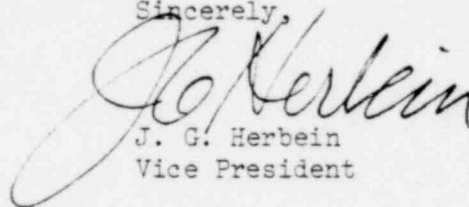
U. S. Nuclear Regulatory Commission
Office of Management Information &
Program Control
Operating Data Branch, 12105 MNBB
Washington, D.C. 20555

Dear Sir:

Three Mile Island Nuclear Station, Unit I
Operating License No. DPR-50
Docket No. 50-289

In response to your letter of August 26, 1977, requesting comments and suggested changes to the draft copy of the Radioactive Materials Released from Nuclear Power Plants with respect to TMI-1, we are enclosing a corrected copy of our data. Should you have additional questions concerning this information please contact Mr. T. A. Jenckes, 215-929-3601, ext. 157.

Sincerely,


J. G. Herbein
Vice President

JGH:DGM:dkf

Enclosure: Corrected Draft Copy of Data

1566 344

772630456

FACILITY: THREE MILE ISLAND 1
TYPE: PWR
LOCATION: 10 MI SE HARRISBURG PA
COOLING WATER SOURCE: SUSQUEHANNA RIVER

DOCKET NO: 50-289

LICENSED POWER (MWT): 2535.0 0.0 0.0

INITIAL CRITICALITY: 06/05/74

OPERATION

GROSS THERMAL GENERATION	13926275.0	MWHT
NET ELECTRICAL	4335625.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	62.5	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	X 2.76E+03	CURIES
B) TOTAL I-131	6.30E-03	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	<8.64E-03	CURIES
D) TOTAL PARTICULATES	<3.35E-03 <4.45E-03	CURIES
E) TOTAL TRITIUM	7.17E+02	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	<1.05E-01 1.01E-01	CURIES
B) TOTAL TRITIUM	1.89E+02	CURIES
C) DISSOLVED NOBLE GASES	X 2.90E-01	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	-3.37E+06 3.36E+06	LITERS
E) VOLUME OF DILUTION WATER	4.10E+10	LITERS

SOLID WASTE

A) VOLUME	1.55E+02 4.06E+02	CUBIC METERS
B) ACTIVITY	5.93E+00 1.85E+02	CURIES
C) NUMBER OF SHIPMENTS	9.00E+00 2.90E+01	

POOR ORIGINAL

* IF SUMMARY
VALUES ARE
DIFFERENT THAN
THE SUM OF
ISOTOPES PLEASE
EXPLAIN DISCREPANCY

1566 345

AIRBORNE EFFLUENTS (CURIES)

NOBLE GAS

AR-41	1.18E+01	
KR-85	1.33E+01	1.32E+01
KR-85M	2.30E+00	
KR-87	<8.90E-02	
KR-88	1.72E-01	7.71E-01
XE-131M	3.22E+00	
XE-133	2.64E+03	2.63E+03
XE-133M	2.59E+01	
XE-135	6.22E+01	
XE-135M	2.60E-01	2.59E-01
XE-138	4.95E-03	

HALOGENS

I-131	6.30E-03	
I-132	ND	
I-133	<4.23E-04	
I-135	1.92E-03	1.91E-03

PARTICULATES

NA-24	1.49E-06	
CR-51	<9.95E-04	
CO-57	3.22E-07	
CO-58	<7.83E-04	
CO-60	<4.86E-05	
RB-88	9.78E-05	
SR-89	<3.84E-05	
SR-90	2.37E-05	2.31E-05
RU-103	1.09E-05	
CS-134	2.8E-04	2.85E-04
CS-137	<1.58E-04	
AG-110M	1.15E-06	
BA/LA-140	2.01E-03	2.00E-03

TRITIUM

H-3	7.17E+02	
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PLEASE EXPLAIN USE OF SO MANY
LESS THAN NOTATIONS.

POOR ORIGINAL

1566 346

LIQUID EFFLUENTS (CURIES)

XE-131M	X 7.60E-05
XE-133	2.85E-01
XE-133M	X 2.21E-03
XE-135	2.80E-03
I-131	2.18E-03
I-133	5.01E-04
I-135	7.87E-05
CR-51	4.37E-03
MN-54	3.45E-03 3.44E-03
CU-58	6.57E-02
FE-59	5.98E-04
CO-60	5.80E-03
ZN-65	<3.06E-04
SR-89	1.86E-04
SR-90	7.28E-05
ZR-95	2.44E-05
NH-95	4.24E-04
ZR/NU-95	<1.77E-04
MO-99	<1.14E-04
TC-99M	<1.02E-04
AG-110M	1.26E-04
CS-134	6.35E-03 6.34E-03
CS-137	1.22E-02
BA/LA-140	<5.60E-04
CE-141	<1.52E-04 1.51E-04
UNIDENTIFIED	<1.03E-03
TRITIUM	
H-3	1.89E+02

1566.347