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February 25, 1994
C311-94-2023
C312-94-2013

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Dear Sir:

Subject: Three Mile Island Nuclear Station, Units 1 & 2 (TMI-1 & TMI-2)
Operating License Nos. DPR-50 and DPR-73
Docket Nos. 50-289 and 50-320
10 CFR 20.407 Personnel Exposure Report and Data - 1993

Attached is the 10 CFR 20.407 Personnel Exposure Report and Data for TMI-1 and TMI-2 for the calendar year 1993. The report contains the following information:

- Attachment I - 10 CFR 20.407 Report for Three Mile Island Nuclear Generating Station.
- Attachment II - Tabulation of Personnel Exposure Data for TMI-1 for Calendar Year 1993 (per TMI-1 Tech. Specs. Section 6.9.1.B.1)
- Attachment III - Tabulation of Personnel Exposure Data for TMI-2 for Calendar Year 1993 (per TMI-2 Tech. Specs. Section 6.8.1.3)

Sincerely,

T. G. Broughton
Vice President and Director, TMI

DVH/emf

cc: TMI-1 Senior Project Manager
Region I Administrator
TMI Senior Resident Inspector
NRC REIRS Project Manager

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THREE MILE ISLAND NUCLEAR GENERATING STATION
NRC 20.407 REPORT

REPORTING PERIOD: 01/01/93 - 12/31/93

	<u>UNIT 1</u>	<u>UNIT 2</u>	<u>STATION</u>
Plant Total Dose (Rem) This Period	206.362	33.125	239.487
Total No. Of Personnel Where Monitoring By TLD Was Required/ Provided (Part 1) In Accordance With Paragraph (a)(2)	2242	202	2444
	<u>Number of Individuals With Whole Body Exposure In Each Range</u>		
<u>Whole Body Exposure Range (Rem)</u>			
No measurable exposure	407	35	442
Exposure Less Than 0.1	1183	101	1284
0.1 to 0.25	385	22	407
0.25 to 0.5	195	18	213
0.5 to 0.75	54	16	70
0.75 to 1	15	7	22
1 to 2	3	3	6
2 to 3	0	0	0
3 to 4	0	0	0
4 to 5	0	0	0
5 to 6	0	0	0
6 to 7	0	0	0
7 to 8	0	0	0
8 to 9	0	0	0
9 to 10	0	0	0
10 to 11	0	0	0
11 to 12	0	0	0
More Than 12	0	0	0

ATTACHMENT II

NUMBER OF PERSONNEL AND PERSON REMS BY WORK AND JOB FUNCTION
 (INTERNAL + EXTERNAL SRD)
 GPU NUCLEAR TMI UNIT-1
 REPORT PERIOD - 01/01/93 TO 12/31/93

DATE 02/08/94
 PAGE 1

JOB CATEGORY JOB FUNCTION	STATION PERSONNEL NUMBER	REMS	UTILITY PERSONNEL NUMBER	REMS	CONTRACTOR PERSONNEL NUMBER	REMS
REACTOR OPERATIONS/SURV.						
MAINTENANCE PERSONNEL	135	4.749	11	.266	456	7.476
OPERATING PERSONNEL	101	17.309	3	.087	1	.010
HEALTH PHYSICS PERSONNEL	70	14.626	4	.011	44	5.481
SUPERVISORY PERSONNEL	100	4.974	9	.115	38	1.811
ENGINEERING PERSONNEL	72	2.848	9	.311	25	.552
ADMINISTRATIVE PERSONNEL	94	1.499	39	.275	14	.224
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	150	17.609	7	.157	652	10.931
OPERATING PERSONNEL	66	1.431	6	.009	4	.017
HEALTH PHYSICS PERSONNEL	39	1.615	5	.009	33	2.356
SUPERVISORY PERSONNEL	103	3.365	5	.006	38	.388
ENGINEERING PERSONNEL	87	1.035	21	.064	23	.280
ADMINISTRATIVE PERSONNEL	130	.887	51	.035	17	.141
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	40	1.027	3	.000	305	14.847
OPERATING PERSONNEL	12	.062	0	.000	0	.000
HEALTH PHYSICS PERSONNEL	15	.294	1	.000	22	.216
SUPERVISORY PERSONNEL	9	.106	1	.007	6	.336
ENGINEERING PERSONNEL	3	.002	5	.222	11	1.369
ADMINISTRATIVE PERSONNEL	11	.365	4	.018	4	.200
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	126	8.755	4	.075	561	59.795
OPERATING PERSONNEL	52	2.330	0	.000	3	.056
HEALTH PHYSICS PERSONNEL	26	.862	0	.000	14	.463
SUPERVISORY PERSONNEL	43	1.632	0	.000	21	.424
ENGINEERING PERSONNEL	20	.612	3	.056	20	1.395
ADMINISTRATIVE PERSONNEL	17	.364	3	.016	6	.089
WASTE PROCESSING						
MAINTENANCE PERSONNEL	67	.981	2	.020	222	3.955
OPERATING PERSONNEL	53	11.108	0	.000	0	.000
HEALTH PHYSICS PERSONNEL	38	1.076	1	.000	12	.390
SUPERVISORY PERSONNEL	24	1.182	0	.000	7	.003
ENGINEERING PERSONNEL	4	.003	1	.000	5	.000
ADMINISTRATIVE PERSONNEL	24	.012	4	.005	4	.005
REFUELING						
MAINTENANCE PERSONNEL	78	2.164	2	.010	150	13.678
OPERATING PERSONNEL	73	2.556	0	.000	0	.000
HEALTH PHYSICS PERSONNEL	9	1.510	0	.000	11	.757
SUPERVISORY PERSONNEL	34	1.531	1	.000	5	.171
ENGINEERING PERSONNEL	11	.287	6	.026	7	1.143
ADMINISTRATIVE PERSONNEL	18	.212	2	.008	3	.082

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NUMBER OF PERSONNEL AND PERSON REMS BY WORK AND JOB FUNCTION
 (INTERNAL + EXTERNAL SRD)
 GPU NUCLEAR TMI UNIT-1
 REPORT PERIOD - 01/01/93 TO 12/31/93

DATE 02/08/94
 PAGE 2

JOB CATEGORY JOB FUNCTION	STATION PERSONNEL		UTILITY PERSONNEL		CONTRACTOR PERSONNEL	
	NUMBER	REMS	NUMBER	REMS	NUMBER	REMS
* TOTAL BY JOB FUNCTION *						
MAINTENANCE PERSONNEL	151	35.225	19	.528	889	110.682
OPERATING PERSONNEL	117	34.796	7	.096	4	.083
HEALTH PHYSICS PERSONNEL	70	19.983	8	.020	44	9.663
SUPERVISORY PERSONNEL	128	12.790	13	.128	48	3.133
ENGINEERING PERSONNEL	105	4.787	31	.679	52	4.739
ADMINISTRATIVE PERSONNEL	147	3.339	87	.357	25	.741
** GRAND TOTAL **	718	110.980	165	1.808	1,062	129.041

REPORT: Unit 1 1-16 Report

DISTRIBUTION: Hassler, D.V. - TMI Licensing (for transmittal to NRC)

cc: Ethridge, D.W. - Manager Rad.Engineering, TMI
 Potts, W.E. - Rad Con Director, TMI
 File

ATTACHMENT 111

NUMBER OF PERSONNEL AND PERSON REMS BY WORK AND JOB FUNCTION
 (INTERNAL + EXTERNAL SRD)
 GPU NUCLEAR TMI UNIT-2
 REPORT PERIOD - 01/01/93 TO 12/31/93

DATE 02/08/94
 PAGE 1

JOB CATEGORY JOB FUNCTION	STATION PERSONNEL NUMBER	PERSONNEL REMS	UTILITY PERSONNEL NUMBER	PERSONNEL REMS	CONTRACTOR PERSONNEL NUMBER	PERSONNEL REMS
REACTOR OPERATIONS/SURV.						
MAINTENANCE PERSONNEL	4	.228	0	.000	24	.226
OPERATING PERSONNEL	15	.281	0	.000	0	.000
HEALTH PHYSICS PERSONNEL	7	.382	0	.000	8	.223
SUPERVISORY PERSONNEL	5	.170	0	.000	1	.080
ENGINEERING PERSONNEL	0	.000	0	.000	3	.053
ADMINISTRATIVE PERSONNEL	0	.000	1	.040	0	.000
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	50	.938	2	.000	117	.454
OPERATING PERSONNEL	30	.041	0	.000	0	.000
HEALTH PHYSICS PERSONNEL	18	.237	1	.000	4	.005
SUPERVISORY PERSONNEL	16	.172	1	.000	17	.140
ENGINEERING PERSONNEL	8	.002	0	.000	7	.001
ADMINISTRATIVE PERSONNEL	5	.000	2	.000	5	.006
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	27	.033	6	.000	72	.360
OPERATING PERSONNEL	98	.656	0	.000	1	.000
HEALTH PHYSICS PERSONNEL	43	1.810	5	.000	14	2.382
SUPERVISORY PERSONNEL	73	.387	3	.000	14	.080
ENGINEERING PERSONNEL	38	.043	3	.009	6	.047
ADMINISTRATIVE PERSONNEL	99	.110	25	.042	4	.000
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	21	.558	4	.013	163	2.701
OPERATING PERSONNEL	35	.596	0	.000	2	.007
HEALTH PHYSICS PERSONNEL	23	.715	2	.058	8	.318
SUPERVISORY PERSONNEL	11	.132	0	.000	8	.462
ENGINEERING PERSONNEL	9	.101	0	.000	3	.010
ADMINISTRATIVE PERSONNEL	5	.005	9	.185	0	.000
WASTE PROCESSING						
MAINTENANCE PERSONNEL	45	.910	5	.015	109	11.711
OPERATING PERSONNEL	55	4.739	2	.000	2	.015
HEALTH PHYSICS PERSONNEL	31	2.748	0	.000	10	1.635
SUPERVISORY PERSONNEL	19	.589	0	.000	12	1.311
ENGINEERING PERSONNEL	11	.040	1	.000	2	.002
ADMINISTRATIVE PERSONNEL	14	.010	6	.007	2	.000

NUMBER OF PERSONNEL AND PERSON REMS BY WORK AND JOB FUNCTION
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JOB CATEGORY JOB FUNCTION	STATION PERSONNEL		UTILITY PERSONNEL		CONTRACTOR PERSONNEL	
	NUMBER	REMS	NUMBER	REMS	NUMBER	REMS
* TOTAL BY JOB FUNCTION *						
MAINTENANCE PERSONNEL	74	2.667	16	.028	235	15.452
OPERATING PERSONNEL	113	6.313	2	.000	3	.022
HEALTH PHYSICS PERSONNEL	53	5.892	7	.058	14	4.563
SUPERVISORY PERSONNEL	84	1.450	4	.000	24	2.073
ENGINEERING PERSONNEL	42	.186	4	.009	10	.113
ADMINISTRATIVE PERSONNEL	103	.125	37	.274	9	.006
** GRAND TOTAL **	469	16.633	70	.369	295	22.229

NOTE: Special Maintenance includes:

Reactor Building Decontamination
 Reactor Building Dose Reduction
 Reactor Systems Disassembly
 Reactor Defueling
 Primary Coolant Decontamination
 Auxiliary and Fuel Handling Building Decontamination

REPORT: Unit 2 1-16 Report

DISTRIBUTION: Hassler, D.V. - TMI Licensing (for transmittal to NRC)

cc: Ehtridge, D.W. - Manager Rad. Engineering, TMI
 Potts, W.E. - Rad Con Director, TMI