

YANKEE ATOMIC ELECTRIC COMPANY

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February 28, 1994
BYR 94-013

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

Attention: Mr. Eric S. Beckjord, Director
Office of Nuclear Regulatory Research

References: (a) License No. DPR-3 (Docket No. 50-29)
(b) Source Material No. SUC-754
(c) Byproduct Material License No. 20-06216-02

Dear Mr. Beckjord:

Subject: PERSONNEL EXPOSURE REPORT BY DUTY FUNCTION AND
10 CFR 20.407 PERSONNEL MONITORING REPORT

Enclosed is the Personnel Exposure Report by duty function as required by the Yankee Nuclear Power Station Technical Specification 6.8.1.a. All doses reported are attributed to Reference (a).

Additionally, enclosed is the Number of Individuals by Whole Body Range Report, as required by 10 CFR 20.407. This report is submitted for the total number of individuals for whom personnel monitoring was provided during calendar year 1993. Individual values exactly equal to the values separating exposure ranges are reported in the higher range. All doses reported are attributed to Reference (a).

We trust that these reports are acceptable to you; however, if you have any questions, please contact me.

Sincerely,

YANKEE ATOMIC ELECTRIC COMPANY

Jane M. Grant
Senior Licensing Engineer

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c: NRC Region I
M. Fairtile, NRC, NRR

YANKEE ATOMIC ELECTRIC COMPANY
PERSONNEL AND MAN-REM BY WORK AND DUTY FUNCTION FINAL END OF THE YEAR REPORT FOR 1993

	STATION EMPLOYEES	NUMBER OF PERSONNEL UTILITY EMPLOYEES	NUMBER OF PERSONNEL OVER 100 MREM CONTRACT WORKERS AND OTHERS	STATION EMPLOYEES	TOTAL MAN-REM UTILITY EMPLOYEES	CONTRACT WORKERS AND OTHERS
REACTOR OPERATIONS & SURVEILLANCE						
MAINTENANCE PERSONNEL	0	0	3	0.172	0.059	3.145
OPERATING PERSONNEL	2	0	1	0.948	0.000	0.528
HEALTH PHYSICS PERSONNEL	1	0	1	0.278	0.060	0.801
SUPERVISORY PERSONNEL	0	0	0	0.014	0.000	0.045
ENGINEERING PERSONNEL	0	5	1	0.104	1.159	0.289
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	3	0	38	0.764	0.040	18.731
OPERATING PERSONNEL	0	0	1	0.194	0.000	0.859
HEALTH PHYSICS PERSONNEL	1	2	27	0.239	0.552	9.328
SUPERVISORY PERSONNEL	0	0	0	0.022	0.000	0.016
ENGINEERING PERSONNEL	0	1	0	0.092	0.303	0.060
INSERVICE INSPECTION						
MAINTENANCE PERSONNEL	0	0	0	0.006	0.000	0.143
OPERATING PERSONNEL	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	0	0	0.005	0.000	0.008
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.000	0.004	0.000
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	1	0	71	0.305	0.088	55.922
OPERATING PERSONNEL	0	0	0	0.172	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	2	5	0.071	0.618	1.616
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.034
ENGINEERING PERSONNEL	0	1	0	0.037	0.466	0.037
WASTE PROCESSING						
MAINTENANCE PERSONNEL	1	0	53	0.744	0.007	21.616
OPERATING PERSONNEL	0	0	0	0.140	0.000	0.056
HEALTH PHYSICS PERSONNEL	1	1	30	0.366	0.212	9.764
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.025
ENGINEERING PERSONNEL	0	2	3	0.012	0.710	1.181
REFUELING						
MAINTENANCE PERSONNEL	2	0	55	0.420	0.025	27.222
OPERATING PERSONNEL	0	0	0	0.054	0.000	0.049
HEALTH PHYSICS PERSONNEL	0	0	2	0.058	0.064	0.725
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.038
ENGINEERING PERSONNEL	1	1	1	0.345	0.390	0.212
TOTALS						
MAINTENANCE PERSONNEL	7	0	220	2.412	0.219	126.779
OPERATING PERSONNEL	2	0	2	1.507	0.000	1.493
HEALTH PHYSICS PERSONNEL	3	5	65	1.017	1.506	22.243
SUPERVISORY PERSONNEL	0	0	0	0.036	0.000	0.157
ENGINEERING PERSONNEL	1	10	5	0.591	3.034	1.779
GRAND TOTAL	13	15	292	5.563	4.759	152.450

Approved by : *M. St. Laurent*
Plant Superintendent

2/15/94
Date

Approved by : *Sm. Balmeau*
Radiation Protection Manager

2/14/94
Date

YANKEE ATOMIC ELECTRIC COMPANY

SUMMARY OF PERSONNEL MONITORING REPORT
FINAL END OF THE YEAR REPORT FOR 1993

Estimated whole body exposure range	Number of individuals in each range
No Measurable Exposure	354
Less than 0.1	65
0.1 to 0.25	54
0.25 to 0.5	56
0.5 to 0.75	50
0.75 to 1.0	34
1.0 to 2.0	54
2.0 to 3.0	0
3.0 to 4.0	0
4.0 to 5.0	0
5.0 to 6.0	0
6.0 to 7.0	0
7.0 to 8.0	0
8.0 to 9.0	0
9.0 to 10.0	0
10.0 to 11.0	0
11.0 to 12.0	0
12.0 and over	0
Total number of personnel monitored	667
Total Dose (REM)	162.772
Average REM per person (1)	0.520

Jim Balme
Radiation Protection Manager

2/14/94
Date

MAST Rount
Plant Superintendent

2/15/94
Date

(1) Excluding 354 persons with no measurable exposure.