

FLORIDA POWER & LIGHT COMPANY
TURKEY POINT PLANTS
1991 MAN-REM REPORT

Standard format for reporting number of personnel & Man-Rem for work and job functions.

| Work & Job function | Number of Personnel >100 mRem | | | Total Man-Rem | | |
|---|-------------------------------|-----------|-------------|----------------|---------------|-----------------|
| | Station | Utility | Contract | Station | Utility | Contract |
| REACTOR OPERATION & SURVEILLANCE | | | | | | |
| Maintenance Personnel | 141 | 17 | 387 | 65,620 | 4,555 | 122,985 |
| Operating Personnel | 26 | 1 | 0 | 35,112 | .210 | 0.000 |
| Health Physics Personnel | 27 | 0 | 98 | 18,647 | .020 | 55,975 |
| Supervisory Personnel | 19 | 0 | 7 | 8,196 | .125 | 2,415 |
| Engineering Personnel | 27 | 2 | 93 | 11,921 | .891 | 29,407 |
| ROUTINE MAINTENANCE | | | | | | |
| Maintenance Personnel | 100 | 15 | 166 | 63,649 | 6,260 | 106,867 |
| Operating Personnel | 4 | 0 | 0 | 1,888 | 0.000 | 0.000 |
| Health Physics Personnel | 4 | 0 | 24 | 971 | 0.000 | 52,496 |
| Supervisory Personnel | 1 | 0 | 0 | 1,090 | .060 | .035 |
| Engineering Personnel | 4 | 0 | 3 | 2,925 | .020 | 2,045 |
| INSERVICE INSPECTION | | | | | | |
| Maintenance Personnel | 68 | 8 | 336 | 49,170 | 9,130 | 332,963 |
| Operating Personnel | 7 | 0 | 1 | 2,560 | .065 | 420 |
| Health Physics Personnel | 7 | 0 | 40 | 2,495 | 0.000 | 32,340 |
| Supervisory Personnel | 8 | 2 | 12 | 4,330 | .375 | 6,908 |
| Engineering Personnel | 5 | 7 | 25 | 2,320 | .370 | 15,450 |
| SPECIAL MAINTENANCE ** | | | | | | |
| Maintenance Personnel | 80 | 10 | 1227 | 45,111 | 5,020 | 1759,271 |
| Operating Personnel | 14 | 0 | 0 | 3,992 | 0.000 | 0.000 |
| Health Physics Personnel | 10 | 1 | 148 | 5,378 | .595 | 164,809 |
| Supervisory Personnel | 11 | 1 | 19 | 3,100 | .210 | 5,741 |
| Engineering Personnel | 19 | 6 | 67 | 10,650 | 1,439 | 60,759 |
| WASTE PROCESSING | | | | | | |
| Maintenance Personnel | 16 | 2 | 11 | 19,261 | 1,030 | 5,700 |
| Operating Personnel | 2 | 0 | 0 | .501 | 0.000 | 0.000 |
| Health Physics Personnel | 6 | 0 | 25 | 7,846 | 0.000 | 19,728 |
| Supervisory Personnel | 2 | 0 | 0 | .648 | 0.000 | 0.000 |
| Engineering Personnel | 1 | 0 | 0 | 1,335 | 0.000 | .06 |
| REFUELING | | | | | | |
| Maintenance Personnel | 72 | 6 | 55 | 85,180 | 12,340 | 18,950 |
| Operating Personnel | 19 | 1 | 0 | 9,695 | .330 | 0.000 |
| Health Physics Personnel | 1 | 0 | 18 | .455 | 0.000 | 11,940 |
| Supervisory Personnel | 5 | 0 | 0 | 1,319 | 0.000 | .04 |
| Engineering Personnel | 6 | 1 | 3 | 6,470 | .105 | 1,580 |
| TOTAL | | | | | | |
| Maintenance Personnel | 165 | 22 | 1509 | 327,930 | 39,355 | 1947,210 |
| Operating Personnel | 44 | 1 | 1 | 53,748 | .605 | .42 |
| Health Physics Personnel | 30 | 1 | 207 | 35,901 | .615 | 336,340 |
| Supervisory Personnel | 32 | 3 | 25 | 13,733 | .770 | 15,110 |
| Engineering Personnel | 38 | 10 | 134 | 35,631 | 3,325 | 110,300 |
| GRAND TOTAL | 309 | 37 | 1876 | 471,955 | 43,650 | 2409,380 |

** Steam Generator Replacement Unit 3

2924,689

2925 rem

BOSTON
Edison COMPANY

PILGRIM NUCLEAR POWER STATION
RFD #1 ROCKY HILL ROAD
PLYMOUTH, MASSACHUSETTS 02360

R. D. MACHON
NUCLEAR OPERATIONS MANAGER
PILGRIM STATION

March 2, 1982

BECO Ltr. #82-69

U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
631 Park Avenue
King of Prussia, PA 19406



Dear Sir:

In accordance with the reporting requirements of U.S.N.R.C. Regulatory Guide 1.16, Pilgrim Nuclear Power Station is forwarding the enclosed annual report regarding personnel and man-rem exposure by job function. Small exposure totaling less than 20% of the total dose have not been accounted for in this report.

Also enclosed is a list of exposure expended due to specific modifications required by the U.S.N.R.C.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'R D Machon'.

R. D. Machon
Nuclear Operations Manager
Pilgrim Station

ART:ep

Enclosures

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PDR ADCK 05000293
R PDR

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NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION

| WORK AND JOB FUNCTION | Number of Personnel (> 100 mrem) | | | Total Man-Rem | | |
|----------------------------|-----------------------------------|-------------------|-----------------------------|-------------------|-------------------|-----------------------------|
| | Station Employees | Utility Employees | Contract Workers and Others | Station Employees | Utility Employees | Contract Workers And Others |
| <u>SPECIAL MAINTENANCE</u> | | | | | | |
| Maintenance Personnel | 85 | 25 | 1585 | 48.945 | 1.350 | 893.465 |
| Operating Personnel | 45 | | | 7.135 | | |
| Health Physics Personnel | 38 | | 103 | 7.440 | | 53.560 |
| Supervisory Personnel | 70 | 146 | 30 | 62.900 | 53.785 | 3.835 |
| Engineering Personnel | 26 | 19 | 92 | 12.335 | 8.090 | 19.010 |
| <u>WASTE PROCESSING</u> | | | | | | |
| Maintenance Personnel | 80 | | 280 | 16.985 | | 12.925 |
| Operating Personnel | 38 | | | 20.270 | | |
| Health Physics Personnel | 32 | | 41 | 4.355 | | 3.325 |
| Supervisory Personnel | 8 | | | 1.215 | | |
| Engineering Personnel | 9 | | | 1.750 | | |
| <u>REFUELING</u> | | | | | | |
| Maintenance Personnel | 24 | 25 | 150 | 7.825 | 8.675 | 25.065 |
| Operating Personnel | 45 | | | 8.430 | | |
| Health Physics Personnel | 21 | | 42 | 0.255 | | 1.555 |
| Supervisory Personnel | 10 | 14 | | 3.025 | 2.025 | |
| Engineering Personnel | 14 | | | 1.020 | | |
| <u>TOTAL</u> | | | | | | |
| Maintenance Personnel | 85 | 25 | 1585 | 103.200 | 10.025 | 1181.235 |
| Operating Personnel | 45 | | | 65.410 | | |
| Health Physics Personnel | 38 | | 103 | 38.900 | | 90.045 |
| Supervisory Personnel | 83 | 146 | 30 | 76.765 | 57.415 | 6.685 |
| Engineering Personnel | 26 | 19 | 92 | 22.695 | 8.285 | 21.370 |
| <u>GRAND TOTAL</u> | 277 | 190 | 1820 | 306.970 | 75.725 | 1299.335 |

1682.03
 3 (1682 rem)

PNPS RADIATION EXPOSURE -
NRC REQUIREMENTS - 1981

| <u>Category</u> | <u>Exposure (Man Rem)</u> |
|--------------------------------------|---------------------------|
| Baseplates, Hangers & Torus External | 165.370 |
| Torus Internal | 138.280 |
| Fire Protection | 11.480 |
| TMI Modifications | 206.550 |
| Blockwalls | <u>13.880</u> |
| Total | 535.560 |



MAINE YANKEE ATOMIC POWER COMPANY •

EDISON DRIVE
AUGUSTA, MAINE 04336
(207) 623-3521

March 3, 1982
MN-82-38



United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Reference: (a) License No. DPR-36 (Docket No. 50-309)

Subject: Personnel Exposure Report

Dear Sir:

Enclosed herewith please find one (1) copy of the Personnel Exposure Report, pursuant to the Maine Yankee Atomic Power Company Technical Specifications 5.9.1.3.

We trust you find this report acceptable; however, should you have any questions, please contact us.

Very truly yours,

MAINE YANKEE ATOMIC POWER COMPANY

Michael A. Whitney for

John H. Garrity, Senior Director
Nuclear Engineering and Licensing

JHG/bjp

Enclosure

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PDR ADOCK 05000309
R PDR

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S11

MAINE YANKEE PERSONNEL AND MAN-REM BY WORK AND DUTY FUNCTION REPORT

1981

PWR - Maine Yankee (81)

TOTAL MAN-REM

NUMBER OF PERSONNEL OVER 100 MREM

| | STATION EMPLOYEES | UTILITY EMPLOYEES | CONTRACT WORKERS AND OTHERS | STATION EMPLOYEES | UTILITY EMPLOYEES | CONTRACT WORKERS AND OTHERS |
|--|-------------------|-------------------|-----------------------------|-------------------|-------------------|-----------------------------|
| REACTOR OPERATIONS & SURVEILLANCE | | | | | | |
| MAINTENANCE PERSONNEL | 0 | 0 | 0 | .410 | .005 | .115 |
| OPERATING PERSONNEL | 17 | 0 | 0 | 4.490 | .000 | .030 |
| HEALTH PHYSICS PERSONNEL | 4 | 0 | 1 | 1.140 | .000 | .210 |
| SUPERVISORY PERSONNEL | 1 | 0 | 0 | .370 | .047 | .122 |
| ENGINEERING PERSONNEL | 3 | 0 | 4 | 1.140 | .365 | 1.277 |
| ROUTINE MAINTENANCE | | | | | | |
| MAINTENANCE PERSONNEL | 33 | 0 | 19 | 18.351 | .000 | 6.414 |
| OPERATING PERSONNEL | 2 | 0 | 0 | 1.122 | .000 | .105 |
| HEALTH PHYSICS PERSONNEL | 6 | 0 | 1 | 1.930 | .000 | .230 |
| SUPERVISORY PERSONNEL | 1 | 0 | 0 | .276 | .000 | .005 |
| ENGINEERING PERSONNEL | 2 | 0 | 2 | .550 | .010 | .355 |
| INSERVICE INSPECTION | | | | | | |
| MAINTENANCE PERSONNEL | 3 | 0 | 49 | .850 | .000 | 28.478 |
| OPERATING PERSONNEL | 0 | 0 | 0 | .165 | .000 | .000 |
| HEALTH PHYSICS PERSONNEL | 0 | 0 | 0 | .000 | .000 | .005 |
| SUPERVISORY PERSONNEL | 0 | 0 | 1 | .000 | .000 | .170 |
| ENGINEERING PERSONNEL | 1 | 1 | 20 | .395 | .355 | 8.875 |
| SPECIAL MAINTENANCE | | | | | | |
| MAINTENANCE PERSONNEL | 0 | 0 | 0 | .000 | .000 | .000 |
| OPERATING PERSONNEL | 0 | 0 | 0 | .000 | .000 | .000 |
| HEALTH PHYSICS PERSONNEL | 0 | 0 | 0 | .000 | .000 | .000 |
| SUPERVISORY PERSONNEL | 0 | 0 | 0 | .000 | .000 | .000 |
| ENGINEERING PERSONNEL | 0 | 0 | 0 | .000 | .000 | .000 |
| WASTE PROCESSING | | | | | | |
| MAINTENANCE PERSONNEL | 11 | 0 | 11 | 3.870 | .000 | 4.395 |
| OPERATING PERSONNEL | 20 | 0 | 2 | 5.892 | .000 | .895 |
| HEALTH PHYSICS PERSONNEL | 2 | 0 | 1 | .265 | .000 | .265 |
| SUPERVISORY PERSONNEL | 0 | 0 | 0 | .090 | .160 | .005 |
| ENGINEERING PERSONNEL | 0 | 0 | 0 | .167 | .000 | .005 |
| REFUELING | | | | | | |
| MAINTENANCE PERSONNEL | 32 | 0 | 282 | 26.360 | .000 | 187.953 |
| OPERATING PERSONNEL | 37 | 0 | 2 | 18.876 | .000 | .237 |
| HEALTH PHYSICS PERSONNEL | 11 | 0 | 43 | 4.704 | .000 | 25.654 |
| SUPERVISORY PERSONNEL | 5 | 0 | 1 | 3.655 | .025 | .496 |
| ENGINEERING PERSONNEL | 11 | 6 | 23 | 5.295 | 3.137 | 9.930 |
| TOTALS | | | | | | |
| MAINTENANCE PERSONNEL | 79 | 0 | 361 | 49.841 | .005 | 227.355 |
| OPERATING PERSONNEL | 76 | 0 | 4 | 30.545 | .000 | 1.267 |
| HEALTH PHYSICS PERSONNEL | 23 | 0 | 46 | 8.039 | .000 | 26.314 |
| SUPERVISORY PERSONNEL | 7 | 0 | 2 | 4.391 | .232 | .798 |
| ENGINEERING PERSONNEL | 17 | 7 | 49 | 7.547 | 3.887 | 20.442 |
| GRAND TOTAL | 202 | 7 | 462 | 100.363 | 4.124 | 276.206 |

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 PDR ADOCK 050000009
 PDR