



Entergy Nuclear Operations, Inc.
Pilgrim Station
600 Rocky Hill Road
Plymouth, MA 02360

April 28, 2004

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
Docket No.: 50-293
License No.: DPR-35

Personnel and Man-Rem by Work and Job Function

LETTER NUMBER: 2.04.038

The enclosed table, "Number of Personnel and Man-Rem by Work and Job Function," for calendar year 2003 is submitted in accordance with Technical Specification 5.6.1, and as recommended by Regulatory Guide 1.16. The tabulation supplements the reporting requirement of 10 CFR 20.2206(b).

The total dose measured by Self-Indicating Dosimeter (SID) was 259.844 Rem. SID measurements are used for tracking dose assigned by job functions. In part, Technical Specification 5.6.1 specifies that in the aggregate, at least 80% of the total whole body dose received from external sources should be assigned to specific major work functions. The total dose was accounted via radiation work permits assigned to specific major work functions.

There are no commitments contained in this letter.

Please feel free to contact Douglas Ellis, (508) 830-8160, if there are any questions regarding this subject.

Sincerely,

A handwritten signature in black ink, appearing to read "Bryan Ford".

Bryan Ford
Licensing Manager

DWE/dm

Enclosure: (as stated)

cc: Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Senior NRC Resident Inspector

IES6

ENTERGY NUCLEAR OPERATIONS / PILGRIM NUCLEAR POWER STATION
ANNUAL REPORT for Year 2003
NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION

| Work & Job Function | All Personnel * | | | Total Man-Rem | | |
|---|-------------------|-------------------|------------------------|-------------------|-------------------|------------------------|
| | Station Employees | Utility Employees | Contractors and Others | Station Employees | Utility Employees | Contractors and Others |
| Reactor Operation & Surveillance | | | | | | |
| -Maintenance Personnel | 62 | 1 | 52 | 1.849 | 0.001 | 0.172 |
| -Operations Personnel | 132 | 6 | 189 | 18.489 | 0.007 | 2.086 |
| -Health Physics Personnel | 41 | 20 | 67 | 6.712 | 1.840 | 1.687 |
| -Supervisory Personnel | 75 | 9 | 43 | 0.689 | 0.004 | 0.140 |
| -Engineering Personnel | 60 | 18 | 48 | 0.736 | 0.048 | 0.152 |
| Routine Maintenance | | | | | | |
| -Maintenance Personnel | 165 | 58 | 775 | 36.104 | 7.125 | 66.083 |
| -Operations Personnel | 51 | 0 | 15 | 2.397 | 0.000 | 0.347 |
| -Health Physics Personnel | 32 | 9 | 50 | 3.039 | 0.458 | 9.488 |
| -Supervisory Personnel | 36 | 0 | 13 | 2.589 | 0.000 | 0.781 |
| -Engineering Personnel | 105 | 21 | 120 | 3.704 | 1.985 | 11.697 |
| Inservice Inspection | | | | | | |
| -Maintenance Personnel | 15 | 19 | 261 | 0.390 | 0.446 | 35.177 |
| -Operations Personnel | 21 | 0 | 0 | 0.592 | 0.000 | 0.000 |
| -Health Physics Personnel | 5 | 1 | 7 | 0.067 | 0.058 | 0.083 |
| -Supervisory Personnel | 8 | 0 | 2 | 0.666 | 0.000 | 0.050 |
| -Engineering Personnel | 21 | 5 | 23 | 0.630 | 0.189 | 2.567 |
| Special Maintenance*** | | | | | | |
| -Maintenance Personnel | 4 | 0 | 100 | 0.026 | 0.000 | 12.660 |
| -Operations Personnel | 1 | 0 | 1 | 0.002 | 0.000 | 0.021 |
| -Health Physics Personnel | 5 | 1 | 4 | 0.096 | 0.015 | 0.143 |
| -Supervisory Personnel | 1 | 0 | 0 | 0.241 | 0.000 | 0.000 |
| -Engineering Personnel | 6 | 2 | 7 | 0.202 | 0.119 | 0.122 |
| Waste Processing | | | | | | |
| -Maintenance Personnel | 62 | 6 | 36 | 2.961 | 0.117 | 0.405 |
| -Operations Personnel | 35 | 0 | 7 | 0.563 | 0.000 | 0.958 |
| -Health Physics Personnel | 24 | 3 | 37 | 0.762 | 0.052 | 0.968 |
| -Supervisory Personnel | 7 | 0 | 4 | 0.252 | 0.000 | 0.391 |
| -Engineering Personnel | 3 | 0 | 5 | 0.121 | 0.000 | 0.090 |
| Refueling | | | | | | |
| -Maintenance Personnel | 83 | 8 | 60 | 2.339 | 0.102 | 5.515 |
| -Operations Personnel | 44 | 0 | 0 | 0.851 | 0.000 | 0.000 |
| -Health Physics Personnel | 15 | 2 | 23 | 0.582 | 0.088 | 2.305 |
| -Supervisory Personnel | 13 | 0 | 2 | 0.136 | 0.000 | 0.003 |
| -Engineering Personnel | 21 | 3 | 42 | 0.276 | 0.011 | 5.030 |

**ENTERGY NUCLEAR OPERATIONS / PILGRIM NUCLEAR POWER STATION
ANNUAL REPORT for Year 2003
NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION**

| Totals by Work & Job Function | All Personnel * | | | Total Man-Rem | | |
|-------------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|------------------------|
| | Station Employees | Utility Employees | Contractors and Others | Station Employees | Utility Employees | Contractors and Others |
| -Maintenance Personnel | 391 | 92 | 1284 | 43.669 | 7.791 | 120.012 |
| -Operations Personnel | 284 | 6 | 212 | 22.893 | 0.007 | 3.412 |
| -Health Physics Personnel | 122 | 36 | 188 | 11.257 | 2.509 | 14.674 |
| -Supervisory Personnel | 140 | 9 | 64 | 4.573 | 0.004 | 1.364 |
| -Engineering Personnel | 216 | 49 | 245 | 5.669 | 2.352 | 19.658 |
| Grand Totals** | 1153 | 192 | 1993 | 88.061 | 12.663 | 159.120 |

* Workers may be counted in more than one category.

** Total dose by self-indicating dosimeter is 259.844 Rem. Total TEDE dose is 250.192 Rem.

*** Special Maintenance Work

1. RWP 03-0093 Torus Diving, Desludging and Inspection (ECCS Suction Strainer Loading)
2. RWP 03-0123 Upgrade Main Steam Line and MSR/V Tailpipe Supports (TPO Modification)
3. RWP 03-0190 Floc Recycle Tank Inspection (Millstone Event for Abandoned Rooms Commitment)