



FPL Energy
Seabrook Station

FPL Energy Seabrook Station
P.O. Box 300
Seabrook, NH 03874
(603) 773-7000

March 14, 2006

Docket No. 50-443

SBK-L-06058

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

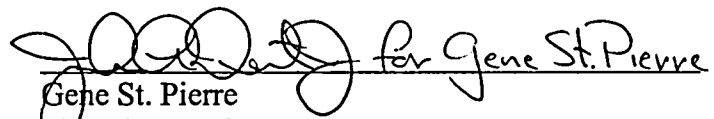
Seabrook Station
2005 Annual Report -- Radiation Exposure by Job Function

The FPL Energy Seabrook, LLC 2005 Annual Report of Radiation Exposure by Job Function is submitted in accordance with Technical Specification 6.8.1.2.a. and the guidance of Regulatory Guide 1.16.

Should you have any questions concerning this matter, please contact Mr. Ron Thurlow, Acting Health Physics Department Manager, at (603) 773-7438.

Very truly yours,

FPL Energy Seabrook, LLC


Gene St. Pierre
Site Vice President

cc: S. J. Collins, NRC Region I Administrator
E. G. Miller, NRC Project Manager, Project Directorate I-2
G.T. Dentel, NRC Senior Resident Inspector

JES4

ENCLOSURE TO SBK-L-06058

**FPLE Seabrook Station Personnel Exposure
Regulatory Guide 1.16 Annual Report for 2005
Man-Rem By Work and Job Function**

| Work & Job Function | Number of Personnel (> 100mRem) | | | | Total Man-Rem | | | |
|---|---------------------------------|-------------------|-----------------------------|---------------|-------------------|-------------------|-----------------------------|----------------|
| | Station Employees | Utility Employees | Contract Workers and Others | Total Persons | Station Employees | Utility Employees | Contract Workers and Others | Total Man-Rems |
| Inservice Inspection | | | | | | | | |
| Engineering Personnel | 0 | 0 | 5 | 5 | 0.000 | 0.000 | 0.721 | 0.721 |
| Health Physics | 1 | 0 | 0 | 1 | 0.001 | 0.000 | 0.000 | 0.001 |
| Maintenance | 3 | 0 | 1 | 4 | 0.004 | 0.000 | 0.011 | 0.015 |
| Operations Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Supervisory Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Reactor Operation & Surveillance | | | | | | | | |
| Engineering Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Health Physics | 9 | 0 | 0 | 9 | 0.090 | 0.000 | 0.000 | 0.090 |
| Maintenance | 3 | 0 | 3 | 6 | 0.035 | 0.000 | 0.013 | 0.048 |
| Operations Personnel | 4 | 0 | 0 | 4 | 0.281 | 0.000 | 0.000 | 0.281 |
| Supervisory Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Refueling | | | | | | | | |
| Engineering Personnel | 1 | 0 | 0 | 1 | 0.003 | 0.000 | 0.000 | 0.003 |
| Health Physics | 6 | 0 | 9 | 15 | 0.174 | 0.000 | 0.306 | 0.480 |
| Maintenance | 12 | 0 | 32 | 44 | 1.828 | 0.000 | 5.589 | 7.416 |
| Operations Personnel | 2 | 0 | 0 | 2 | 0.224 | 0.000 | 0.000 | 0.224 |
| Supervisory Personnel | 1 | 1 | 3 | 5 | 0.002 | 0.005 | 0.451 | 0.458 |
| Routine Maintenance | | | | | | | | |
| Engineering Personnel | 1 | 0 | 1 | 2 | 0.267 | 0.000 | 0.100 | 0.367 |
| Health Physics | 12 | 0 | 17 | 29 | 2.208 | 0.000 | 2.359 | 4.566 |
| Maintenance | 21 | 0 | 87 | 108 | 1.910 | 0.000 | 10.674 | 12.583 |
| Operations Personnel | 3 | 0 | 0 | 3 | 0.045 | 0.000 | 0.000 | 0.045 |
| Supervisory Personnel | 2 | 1 | 7 | 10 | 0.321 | 0.094 | 0.915 | 1.330 |

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Man-Rem By Work and Job Function**

| Work & Job Function | Number of Personnel (> 100mRem) | | | | Total Man-Rem | | | |
|----------------------------|---------------------------------|-------------------|-----------------------------|---------------|-------------------|-------------------|-----------------------------|----------------|
| | Station Employees | Utility Employees | Contract Workers and Others | Total Persons | Station Employees | Utility Employees | Contract Workers and Others | Total Man-Rems |
| Special Maintenance | | | | | | | | |
| Engineering Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Health Physics | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Maintenance | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Operations Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Supervisory Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Waste Processing | | | | | | | | |
| Engineering Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Health Physics | 8 | 0 | 7 | 15 | 0.111 | 0.000 | 0.101 | 0.212 |
| Maintenance | 4 | 0 | 12 | 16 | 0.549 | 0.000 | 0.972 | 1.521 |
| Operations Personnel | 0 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 |
| Supervisory Personnel | 1 | 0 | 0 | 1 | 0.006 | 0.000 | 0.000 | 0.006 |
| TOTAL | | | | | | | | |
| Engineering Personnel | 1 | 0 | 6 | 7 | 0.270 | 0.000 | 0.821 | 1.091 |
| Health Physics | 12 | 0 | 18 | 30 | 2.583 | 0.000 | 2.766 | 5.349 |
| Maintenance | 21 | 0 | 96 | 117 | 4.325 | 0.000 | 17.258 | 21.583 |
| Operations Personnel | 5 | 0 | 0 | 5 | 0.550 | 0.000 | 0.000 | 0.550 |
| Supervisory Personnel | 2 | 1 | 7 | 10 | 0.329 | 0.099 | 1.366 | 1.794 |
| GRAND TOTAL | 41 | 1 | 127 | 169 | 8.057 | 0.099 | 22.211 | 30.367 |

1) Individuals may appear in more than one work function.

2) Automatic processes not available to generate this report. Data manually extracted from the Access Control system, assigned NRC codes and sorted.

**FPLE Seabrook Station
Personnel Whole Body Exposure For Calendar Year 2005**

| Annual Dose Ranges (REM) | Number of Individuals in Each Range | Total TEDE (REM) |
|---|--|-------------------------|
| No Measurable Exposure | 536 | 0.000 |
| Measurable Exposure Less than 0.10 | 880 | 22.035 |
| 0.10 - 0.25 | 129 | 18.270 |
| 0.25 - 0.50 | 38 | 10.929 |
| 0.50 - 0.75 | 2 | 1.168 |
| 0.75 - 1.00 | 0 | 0.000 |
| 1.00 - 2.00 | 0 | 0.000 |
| 2.00 - 3.00 | 0 | 0.000 |
| 3.00 - 4.00 | 0 | 0.000 |
| 4.00 - 5.00 | 0 | 0.000 |
| 5.00 - 6.00 | 0 | 0.000 |
| 6.00 - 7.00 | 0 | 0.000 |
| 7.00 - 8.00 | 0 | 0.000 |
| 8.00 - 9.00 | 0 | 0.000 |
| 9.00 - 10.00 | 0 | 0.000 |
| 10.00 - 11.00 | 0 | 0.000 |
| 11.00 - 12.00 | 0 | 0.000 |
| 12.00 + | 0 | 0.000 |
| Total Number of Individuals Reported | 1585 | 52.402 |

* Individual values equal to the value separating exposure ranges are reported in the higher range.