



South Texas Project Electric Generating Station PO Box 289 Wadsworth Texas 77483

February 26, 2003  
NOC-AE-03001474  
STI: 31563772

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
One White Flint North  
11555 Rockville Pike  
Rockville, MD 20852

South Texas Project  
Units 1 & 2  
Docket Nos. STN 50-498 & 50-499  
Annual Reports Required by Technical Specification 6.9.1.2

Attached are the Annual Reports required by the South Texas Project Technical Specification 6.9.1.2. Attachment 1 is the Annual Personnel Exposure Report required by Technical Specification 6.9.1.2.a. Attachment 2 is the annual report required by Technical Specification 6.9.1.2.b of the results of specific activity analyses for any primary coolant samples exceeding Technical Specification 3.4.8 limits.

If you have any questions on this matter, please contact Mr. S. M. Head at (361) 972-7136 or me at (361) 972-7566.

A handwritten signature in black ink, appearing to read "G.T. Powell".

G.T. Powell  
Manager,  
Health Physics

MKJ/

Attachments: 1) 2002 Annual Personnel Exposure Report  
2) Primary Coolant Specific Activity Report For Samples Exceeding  
Technical Specification Limits

IE36

cc:  
(paper copy)

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**2002 Annual Personnel Exposure Report**  
(Technical Specification 6.9.1.2.a)

Technical Specification 6.9.1.2.a requires a tabulation on an annual basis of the number of station, utility, and other personnel (including contractors) receiving exposures greater than 100 mrem/yr according to work and job functions. This data is based on self-reading dosimetry results and is presented on page two of this attachment. Specific tasks included in the Special Maintenance work and job function are listed on page three.

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## Plant Radiation Exposure Planning And REporting Database

Licensee STP NUCLEAR OPERATING COMPANY  
 Address Post Office Box 289  
 Wadsworth, Texas 77483

## APPENDIX A

REPORTING YEAR 2002

NRC License Number (s) : NPF - 76 NPF - 80

## STANDARD FORMAT FOR REPORTING NUMBER OF PERSONNEL AND MAN-REM BY WORK AND JOB FUNCTION

| WORK & JOB                            | NUMBER OF PERSONNEL(> 100 MREM) |                   |                        | TOTAL MAN-REM (ALL PERSONNEL) |                   |                        |
|---------------------------------------|---------------------------------|-------------------|------------------------|-------------------------------|-------------------|------------------------|
|                                       | STATION EMPLOYEES               | UTILITY EMPLOYEES | CONTRACTORS AND OTHERS | STATION EMPLOYEES             | UTILITY EMPLOYEES | CONTRACTORS AND OTHERS |
| <b>REACTOR OPS &amp; SURVEILLANCE</b> |                                 |                   |                        |                               |                   |                        |
| OPERATIONS                            | 15                              | 0                 | 0                      | 4 328                         | 0 000             | 0 002                  |
| MAINTENANCE                           | 0                               | 0                 | 0                      | 0 306                         | 0 000             | 0 008                  |
| ENGINEERING                           | 3                               | 0                 | 0                      | 1 224                         | 0 000             | 0 027                  |
| GEN SUPPORT                           | 15                              | 0                 | 16                     | 3 709                         | 0 000             | 3 981                  |
| NUCLEAR A&L                           | 0                               | 0                 | 0                      | 0 036                         | 0 000             | 0 002                  |
| PROJECTS                              | 1                               | 0                 | 0                      | 0 140                         | 0 000             | 0 159                  |
| OTHER                                 | 0                               | 0                 | 0                      | 0 327                         | 0 000             | 0 171                  |
| <b>ROUTINE MAINTENANCE</b>            |                                 |                   |                        |                               |                   |                        |
| OPERATIONS                            | 0                               | 0                 | 0                      | 0 093                         | 0 000             | 0 000                  |
| MAINTENANCE                           | 37                              | 0                 | 4                      | 10 561                        | 0 000             | 1 489                  |
| ENGINEERING                           | 0                               | 0                 | 0                      | 0 507                         | 0 000             | 0 154                  |
| GEN SUPPORT                           | 0                               | 0                 | 0                      | 0 310                         | 0 000             | 0 133                  |
| NUCLEAR A&L                           | 0                               | 0                 | 0                      | 0 047                         | 0 000             | 0 080                  |
| PROJECTS                              | 0                               | 0                 | 12                     | 0 069                         | 0 000             | 5 804                  |
| OTHER                                 | 1                               | 0                 | 0                      | 0 628                         | 0 000             | 0 002                  |
| <b>IN-SERVICE INSPECTION</b>          |                                 |                   |                        |                               |                   |                        |
| OPERATIONS                            | 0                               | 0                 | 0                      | 0 000                         | 0 000             | 0 000                  |
| MAINTENANCE                           | 7                               | 0                 | 4                      | 1 322                         | 0 000             | 0 776                  |
| ENGINEERING                           | 5                               | 0                 | 4                      | 1 160                         | 0 000             | 0 751                  |
| GEN SUPPORT                           | 0                               | 0                 | 0                      | 0 015                         | 0 000             | 0 045                  |
| NUCLEAR A&L                           | 0                               | 0                 | 0                      | 0 000                         | 0 000             | 0 002                  |
| PROJECTS                              | 0                               | 0                 | 0                      | 0 000                         | 0 000             | 0 312                  |
| OTHER                                 | 0                               | 0                 | 0                      | 0 159                         | 0 000             | 0 000                  |
| <b>SPECIAL MAINTENANCE</b>            |                                 |                   |                        |                               |                   |                        |
| OPERATIONS                            | 2                               | 0                 | 0                      | 0 590                         | 0 000             | 0 000                  |
| MAINTENANCE                           | 16                              | 0                 | 8                      | 5 517                         | 0 000             | 2 081                  |
| ENGINEERING                           | 3                               | 0                 | 1                      | 0 903                         | 0 000             | 0 141                  |
| GEN SUPPORT                           | 10                              | 0                 | 20                     | 3 082                         | 0 000             | 6 962                  |
| NUCLEAR A&L                           | 0                               | 0                 | 1                      | 0 151                         | 0 000             | 0 689                  |
| PROJECTS                              | 2                               | 0                 | 575                    | 0 664                         | 0 000             | 228 055                |
| OTHER                                 | 2                               | 0                 | 0                      | 0 428                         | 0 000             | 0 002                  |
| <b>WASTE PROCESSING</b>               |                                 |                   |                        |                               |                   |                        |
| OPERATIONS                            | 1                               | 0                 | 0                      | 0 557                         | 0 000             | 0 000                  |
| MAINTENANCE                           | 0                               | 0                 | 0                      | 0 037                         | 0 000             | 0 000                  |
| ENGINEERING                           | 0                               | 0                 | 0                      | 0 001                         | 0 000             | 0 000                  |
| GEN SUPPORT                           | 3                               | 0                 | 16                     | 0 880                         | 0 000             | 4 265                  |
| NUCLEAR A&L                           | 0                               | 0                 | 0                      | 0 000                         | 0 000             | 0 000                  |
| PROJECTS                              | 0                               | 0                 | 0                      | 0 013                         | 0 000             | 0 080                  |
| OTHER                                 | 0                               | 0                 | 0                      | 0 005                         | 0 000             | 0 000                  |
| <b>REFUELING</b>                      |                                 |                   |                        |                               |                   |                        |
| OPERATIONS                            | 0                               | 0                 | 0                      | 0 035                         | 0 000             | 0 000                  |
| MAINTENANCE                           | 18                              | 0                 | 0                      | 5 842                         | 0 000             | 0 008                  |
| ENGINEERING                           | 9                               | 0                 | 1                      | 2 216                         | 0 000             | 0 192                  |
| GEN SUPPORT                           | 2                               | 0                 | 1                      | 0 298                         | 0 000             | 0 731                  |
| NUCLEAR A&L                           | 0                               | 0                 | 1                      | 0 048                         | 0 000             | 0 110                  |
| PROJECTS                              | 0                               | 0                 | 30                     | 0 000                         | 0 000             | 8 438                  |
| OTHER                                 | 1                               | 0                 | 0                      | 0 361                         | 0 000             | 0 000                  |
| <b>TOTAL WORK &amp; JOB FUNCTION</b>  |                                 |                   |                        |                               |                   |                        |
| OPERATIONS                            | 18                              | 0                 | 0                      | 5 603                         | 0 000             | 0 002                  |
| MAINTENANCE                           | 78                              | 0                 | 16                     | 23 585                        | 0 000             | 4 362                  |
| ENGINEERING                           | 20                              | 0                 | 6                      | 6 011                         | 0 000             | 1 265                  |
| GEN SUPPORT                           | 30                              | 0                 | 53                     | 8 294                         | 0 000             | 16 117                 |
| NUCLEAR A&L                           | 0                               | 0                 | 2                      | 0 282                         | 0 000             | 0 883                  |
| PROJECTS                              | 3                               | 0                 | 617                    | 0 886                         | 0 000             | 242 848                |
| OTHER                                 | 4                               | 0                 | 0                      | 1 908                         | 0 000             | 0 175                  |
| <b>GRAND TOTAL</b>                    | <b>153</b>                      | <b>0</b>          | <b>694</b>             | <b>46 569</b>                 | <b>0 000</b>      | <b>265 652</b>         |

2002 Annual Personnel Exposure Report  
(Technical Specification 6.9.1.2.a)

**Additional Information**

1. The South Texas Project includes two 3853 MW<sub>t</sub> Westinghouse four-loop pressurized water reactors.
2. During 2002, Unit 2 completed its ninth refueling outage, 2RE09. Outage 2RE09 involved refueling and a replacing of all four steam generators.
3. Outage 2RE09 was completed in 65 days with a total dose of 293 rem. The following are baseline activities or activity groupings that contributed more than 1 rem during this outage.

|  |            |
|--|------------|
| Steam Generator Replacement Activities | ( 245 rem) |
| Refueling Maintenance Activities       | (14.6 rem) |
| RP/Decon Support                       | ( 5.1 rem) |
| Routine Maintenance                    | ( 4.6 rem) |
| Inspections                            | ( 4.4 rem) |
| Operations Support                     | ( 3.5 rem) |
| Valve Maintenance                      | ( 2.5 rem) |
| Reactor Coolant Pump PMs               | ( 2.2 rem) |
| Temporary Shielding (non-SGR)          | ( 1.6 rem) |

4. For 2002, four individuals exceeded one rem deep dose equivalent with the highest exposed individual (including contract personnel) receiving 1.199 rem by electronic dosimeter records. The highest exposed station/utility individual received 0.700 rem by electronic dosimeter records.

**Primary Coolant Specific Activity Report**  
**For Samples Exceeding Technical Specification Limits**

Technical Specification 6.9.1.2.b requires the results of the specific activity analyses in which the primary coolant exceeded the limits of Technical Specification 3.4.8 to be reported on an annual basis.

Unit 1 and Unit 2 have not exceeded the limits of Technical Specification 3.4.8 for the calendar year of 2002.