

# The Light company

Houston Lighting & Power South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

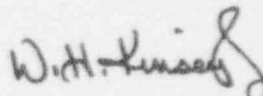
February 25, 1993  
ST-HL-AE-4344  
File No.: G02  
10CFR20.407

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

South Texas Project  
Units 1 and 2  
Docket Nos. STN 50-498, STN 50-499  
Annual Reports Required by Tech. Spec. 6.9.1.2 and 10CFR20.407

Attached are the Annual Reports required by the South Texas Project Electric Generating Station (STPEGS) Technical Specification 6.9.1.2 and 10CFR20.407. These reports consist of: Annual Personnel Exposure Reports required by Technical Specification 6.9.1.2.a and 10CFR20.407; and a report of the results of specific activity analyses in which the primary coolant exceeded the limits of Technical Specification 3.4.8 as required by Technical Specification 6.9.1.2.b.

If you have any questions on this matter, please contact Mr. C. A. Ayala at (512) 972-8628.

  
W. H. Kinsey, Jr.  
Vice President,  
Nuclear Generation

MKJ/sr

Attachments: 1) Annual Personnel Exposure Reports  
2) A Report of Results of Specific Activity Analyses in which the Primary Coolant Exceeded the Limits of Technical Specification 3.4.8

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A Subsidiary of Houston Industries Incorporated

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Houston Lighting & Power Company  
South Texas Project Electric Generating Station

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ANNUAL PERSONNEL EXPOSURE REPORTS

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 and their associated man-rem exposures according to work and job functions. This data is presented on page two of this attachment. Specific tasks included in the Special Maintenance work and job function are listed on page three.

10CFR20.407 requires a report of the total number of individuals for whom personnel monitoring was provided for the reporting year. This number and a statistical summary of whole body exposure to these individuals is presented on page four of this attachment. An explanation of the statistics is provided on page five of this attachment.

During 1992, 2712 personnel were monitored and one individual received greater than 1.0 rem.

Licensee: HOUSTON LIGHTING &amp; POWER COMPANY

Address: Post Office Box 289  
Wadsworth, Texas 77483

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

REPORTING YEAR: 1992

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

WORK & JOB FUNCTION	NUMBER OF PERSONNEL (> 100 MREM)			TOTAL MAN-REM*		
	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS AND OTHERS	STATION EMPLOYEES	UTILITY EMPLOYEES	CONTRACTORS AND OTHERS
REACTOR OPS & SURVEILLANCE						
Maintenance Personnel	0	0	0	0.494	0.000	0.186
Operating Personnel	1	0	0	1.583	0.000	0.000
Health Physics Personnel	17	0	1	3.410	0.000	0.901
Supervisory Personnel	3	0	0	1.045	0.169	0.000
Engineering Personnel	0	0	0	0.301	0.000	0.089
Nuclear Assurance Personnel	0	0	0	0.131	0.000	0.000
Other Personnel	0	0	1	0.000	1.032	0.734
ROUTINE MAINTENANCE						
Maintenance Personnel	64	0	57	19.510	0.000	15.151
Operating Personnel	0	0	0	0.138	0.000	0.000
Health Physics Personnel	7	0	4	2.062	0.000	1.445
Supervisory Personnel	2	0	0	0.962	0.181	0.000
Engineering Personnel	8	0	20	3.526	0.000	7.739
Nuclear Assurance Personnel	9	0	0	2.062	0.000	0.057
Other Personnel	0	1	49	0.000	0.541	13.773
IN-SERVICE INSPECTION						
Maintenance Personnel	0	0	7	0.270	0.000	2.709
Operating Personnel	0	0	0	0.004	0.000	0.000
Health Physics Personnel	0	0	0	0.204	0.000	0.080
Supervisory Personnel	0	0	0	0.085	0.048	0.000
Engineering Personnel	3	0	2	0.732	0.000	0.866
Nuclear Assurance Personnel	3	0	4	0.835	0.000	1.518
Other Personnel	0	1	23	0.000	0.228	7.599
SPECIAL MAINTENANCE						
Maintenance Personnel	4	0	6	1.962	0.000	2.026
Operating Personnel	0	0	0	0.127	0.000	0.000
Health Physics Personnel	4	0	0	1.075	0.000	0.353
Supervisory Personnel	0	0	0	0.133	0.037	0.000
Engineering Personnel	0	0	0	0.016	0.000	0.006
Nuclear Assurance Personnel	1	0	0	0.678	0.000	0.000
Other Personnel	0	0	5	0.000	0.117	2.673
WASTE PROCESSING						
Maintenance Personnel	0	0	0	0.062	0.000	0.018
Operating Personnel	0	0	0	0.008	0.000	0.000
Health Physics Personnel	6	0	29	2.003	0.000	8.332
Supervisory Personnel	0	0	0	0.196	0.005	0.000
Engineering Personnel	0	0	0	0.001	0.000	0.000
Nuclear Assurance Personnel	0	0	0	0.062	0.000	0.000
Other Personnel	0	0	2	0.000	0.182	1.291
REFUELING						
Maintenance Personnel	3	0	25	2.441	0.000	10.702
Operating Personnel	20	0	0	4.394	0.000	0.000
Health Physics Personnel	20	0	21	4.665	0.000	6.347
Supervisory Personnel	4	0	0	1.920	0.076	0.000
Engineering Personnel	0	0	1	0.275	0.000	0.283
Nuclear Assurance Personnel	0	0	0	0.327	0.000	0.035
Other Personnel	0	0	41	0.000	0.315	12.939
TOTAL WORK & JOB FUNCTION						
Maintenance Personnel	71	0	95	24.739	0.000	30.792
Operating Personnel	21	0	0	6.254	0.000	0.000
Health Physics Personnel	54	0	55	13.419	0.000	17.458
Supervisory Personnel	9	0	0	4.341	0.516	0.000
Engineering Personnel	11	0	23	4.851	0.000	8.983
Nuclear Assurance Personnel	13	0	4	4.095	0.000	1.610
Other Personnel	0	2	121	0.000	2.415	39.009
GRAND TOTAL	179	2	298	57.699	2.931	97.852

\* Dose as estimated by Self Reading Dosimeter.

Additional Information

- 1) South Texas Project site includes two 1250 Mw Westinghouse Pressurized Water reactors.
- 2) During 1992, there was one refueling outage in Unit One.
- 3) Special maintenance performed during 1992 included the following:
  - a) Repair of the spent fuel pool gate valve
  - b) Repair of the reactor coolant pump motor ratchet pawls
  - c) Repair of the chemical volume and control system alternate charging isolation valve (CV-MOV-0006)
  - d) Testing insertion of incore thimbles
  - e) Installation of a reactor head vent system
  - f) Repair of the residual heat removal pump suction isolation valve (RH-MOV-0060C)
  - g) Repair of steam generator secondary covers
  - h) Repair of nuclear instrument #31
  - i) Repair of a canopy seal leak on the reactor head.

This report is furnished to the office of Nuclear Regulatory Research as required by Part 20.407 of the Code of Federal Regulations, Title 10

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NRC License Numbers: NPF - 76; NPF - 80

\*\*\*\*\*  
Total number of individuals for whom personnel monitoring was provided for the Reporting Year submitted in accordance with paragraph (a) (2) of Section 20.407 ..... 2712  
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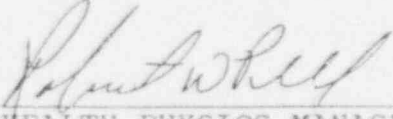
### STATISTICAL SUMMARY

Estimated Whole Body Exposure (1,3) (rems)	Number of Individuals in each range/man-rem	
No Measurable Exposure (2) .....	1789	0.034
Measurable Exposure less than 0.1 .....	478	19.724
0.1 to 0.25 .....	231	39.292
0.25 to 0.5 .....	166	57.047
0.5 to 0.75 .....	43	26.343
0.75 to 1 .....	4	3.271
1 to 2 .....	1	1.073
2 to 3 .....	0	0.000
3 to 4 .....	0	0.000
4 to 5 .....	0	0.000
5 to 6 .....	0	0.000
6 to 7 .....	0	0.000
7 to 8 .....	0	0.000
8 to 9 .....	0	0.000
9 to 10 .....	0	0.000
10 to 11 .....	0	0.000
11 to 12 .....	0	0.000
12+ .....	0	0.000

- \*\*\*\*\*
1. As determined using PANASONIC TLDs.
  2. Includes exposures less than 0.010 rem.
  3. Individual values exactly equal to the value separating ranges shall be reported in the higher range.
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TOTAL NUMBER OF INDIVIDUALS IN ALL RANGES: 2712

TOTAL MAN-REM 146.784

APPROVED BY:   
HEALTH PHYSICS MANAGER

DATE: 2/22/93

Completed reports shall be retained for the life of the plant + 75 years

The difference in total man-rem recorded on these two reports is due to the use of thermoluminescent dosimeters (TLD) values on the 10CFR20.407 report and use of self reading dosimeters (SRD) values on the Technical Specification 6.9.1.2.a report.

Single individuals are listed in more than one work category on the Technical Specification 6.9.1.2.a report. This accounts for the apparent discrepancy in the number of individuals with a whole body exposure greater than 100 mRem on the 10CFR20.407 report.



PRIMARY COOLANT SPECIFIC ACTIVITY REPORT

Technical Specification 6.9.1.2.b requires the results of specific activity analyses in which primary coolant exceeded the limits of Technical Specification 3.4.8.

Unit 1 and Unit 2 have not exceeded the limits of Technical Specification 3.4.8 for the calendar year of 1992.