

ANNUAL SUMMARY OF CHANGES, TESTS AND EXPERIMENTS

PERFORMED AT THE

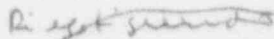
AEROTEST RADIOGRAPHY AND RESEARCH REACTOR

(ARRR)

DOCKET No. 50-228

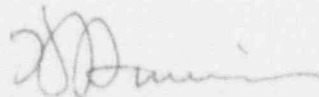
FOR THE PERIOD ENDING JUNE 30, 1992

BY



D. E. FIGUEREDO
REACTOR SUPERVISOR

APPROVED BY:



H. G. SIMENS
PRESIDENT
AEROTEST OPERATIONS, INC.

9207280286 920710
PDR ADOCK 05000228
R PDR

SECTION I

PART I - CHANGES

A. During the year, in September of 1991 we replaced one graphite element with one new stainless steel fuel element. On May fifth and May eleventh two old stainless steel fuel elements were replaced with two new stainless steel fuel elements.

B. In February we modified the demineralizer system and also replaced the demineralizer pump when the pump seal failed.

C. The magnet system for the shim control rod was rewired when the existing wire was shorted.

PART II - EXPERIMENTS

No new experiment was performed during the year. The experiments performed in this reporting period were as follows:

EXPERIMENT NUMBER

| | |
|-----|---|
| 114 | Neutron radiography performed in the radiography facilities. |
| 116 | Irradiation of hydrocarbon activation analysis samples |
| 120 | Irradiation of plastic slides impregnated with microscopic quantities of fissionable materials. |
| 124 | Irradiation of solid state electronic components to determine radiation damage effects. |

SECTION II

ARRR MONTHLY OPERATIONS SUMMARY

| DATE | OPERATING HOURS | KILOWATT HOURS | ACCUMULATED kw HOURS | EXPERIMENTS & IRRADIATIONS | UNSCHEDULED SHUTDOWNS |
|--------|--------------------|-------------------|-------------------------|-------------------------------|--------------------------|
| 7-91 | 245 | 61283 | 8001076 | 7 | 3 |
| 8-91 | 225 | 56357 | 8057433 | 7 | 4 |
| 9-91 | 236 | 59113 | 8116546 | 3 | 1 |
| 10-91 | 299 | 74690 | 8191236 | 5 | 0 |
| 11-91 | 250 | 62590 | 8253826 | 1 | 1 |
| 12-91 | 241 | 59886 | 8313712 | 0 | 0 |
| 1-92 | 208 | 52085 | 8365797 | 1 | 4 |
| 2-92 | 218 | 54550 | 8420347 | 1 | 0 |
| 3-92 | 214 | 53512 | 8473859 | 1 | 0 |
| 4-92 | 180 | 45040 | 8518899 | 0 | 1 |
| 5-92 | 175 | 43611 | 8562510 | 0 | 0 |
| 6-92 | 214 | 53427 | 8615937 | 2 | 2 |
| TOTALS | 2707 | 676144 | 8615937 | 28 | 16 |

