



# AEROTEST OPERATIONS, INC.

3455 FOSTORIA WAY • SAN RAMON, CALIFORNIA 94583 • (415) 837-4248



## ANNUAL SUMMARY OF CHANGES, TESTS AND EXPERIMENTS

PERFORMED AT THE

AEROTEST RADIOGRAPHY AND RESEARCH REACTOR

(ARRR)

DOCKET NO. 50-228

FOR PERIOD ENDING JUNE 30, 1985

BY

I. E. LAMB

APPROVED BY:

*Paul E. Newacheck for*  
R.L. NEWACHECK, PRESIDENT

AEROTEST OPERATIONS, INC.

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PDR ADOCK 05000228  
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A SUBSIDIARY OF



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## SECTION I

### PART I - CHANGES

A. No major facility changes were made during the year. Minor additions of shielding were made at the top and bottom areas surrounding the radiography area to reduce the radiation dose to the radiographers.

B. One additional Senior Reactor Operator has been licensed by the NRC for a total of four Senior Reactor Operators.

### PART II - EXPERIMENTS

No new experiments were performed during the year. The experiments performed during the year were as follows:

<u>Experiment number</u>	
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114	Perform neutron radiography in the neutron radiography facilities.
116	Irradiation of hydrocarbon activation analysis samples.
120	Irradiation of plastic slides impregnated with microscopic quantities of fissionable materials for the McClellan Air Force Base and General Electric Company.
123	Calibration of fission detectors in the T1A position of the thermal column for the General Electric Company.

SECTION II

ARRR MONTHLY OPERATIONS SUMMARY

<u>DATE</u>	<u>OPERATING HOURS</u>	<u>KILOWATT HOURS</u>	<u>ACCUMULATED kw HOURS</u>	<u>EXPERIMENTS &amp; IRRADIATIONS</u>	<u>UNSCHEDULED SHUTDOWNS</u>
7-84	154.1	38509	3942625	24	3
8-84	131.6	33770	3976395	10	1
9-84	141.1	35049	4011444	11	0
10-84	172.4	41448	4052892	9	0
11-84	125.5	31373	4084265	16	0
12-84	106.8	26717	4110982	10	1
1-85	136.3	33714	4144696	11	0
2-85	170.4	42621	4187317	8	0
3-85	174.9	43991	4231308	7	1
4-85	157.6	39418	4270726	9	0
5-85	157.0	39260	4309986	8	0
6-85	<u>165.1</u>	<u>39551</u>	4349537	<u>8</u>	<u>1</u>
Totals	1792.8	445421		131	7

### ARRR UNSCHEDULED POWER REDUCTIONS

[illegible]



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REGION V IRE

August 6, 1985

Mr. Thomas W. Bishop, Director  
Division of Reactor Safety and Products  
U.S. Nuclear Regulatory Commission, Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, CA 94596

Subject: Annual Summary of Changes, Tests and  
Experiments at Aerotest Radiography and  
Research Reactor (ARRR), Docket No. 50-228,  
for period ending 6/30/85

Dear Mr. Bishop:

The enclosed report is a summary of the ARRR operation from July 1, 1984 through June 30, 1985. This submittal complies with the requirements set forth in 10 CFR, Part 50.59, "Authorization of Changes, Tests and Experiments." Summary forms of monthly operations and unscheduled power reductions are included.

No new or unusual problems have been noted during the year and reactor operations have continued to improve in safety and reliability.

Very truly yours,

AEROTEST OPERATIONS, INC

Irvin E. Lamb  
Manager, Reactor Operations

IEL/kb

Enclosure

cc: Director of Inspection & Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555