



# AEROTEST OPERATIONS, INC.

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1 July 2000

50-228

Director of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Annual Summary of Changes, Tests and Experiments at Aerotest Radiography and Research Reactor (ARRR), Docket no. 50-228, for the period 1 July 1999 through 30 June 2000.

Gentlemen:

The enclosed report summarizes the ARRR operations from July 1, 1999 through June 30, 2000. 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 remained stable with respect to safety and reliability.

Sincerely,  
Aerotest Operations, Inc.

Alfredo W. Meren  
Reactor Supervisor

IE47

Annual Summary of Changes, Tests and Experiments

Performed at the

Aerotest Radiography and Research Reactor

(ARRR)

Docket No. 50-228

By

A handwritten signature in black ink, appearing to read 'Alfredo W. Meren'.

Alfredo W. Meren

Reactor Supervisor

Approved by

A handwritten signature in black ink, appearing to read 'Ray R. Tsukimura'.

Ray R. Tsukimura

President

Aerotest Operations, Inc.

## SECTION I

Part I – Changes (none)

## Part II – Experiments

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

### Experiment No.

- |     |   |
|-----|---|
| 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	Expts. & Irradiations	Unscheduled Shutdowns
7-99	143	25803	11217602	0	1
8-99	147	26397	11243999	0	0
9-99	149	26886	11270885	0	0
10-99	154	27808	11298693	0	1
11-99	124	22278	11320971	0	1
12-99	118	21294	11342265	1	0
1-00	150	18790	11361055	0	0
2-00	149	18613	11379668	0	0
3-00	165	19298	11398966	0	0
4-00	145	16961	11415927	0	0
5-00	167	19534	11435461	0	8
6-00	275	32129	11467590	0	2

# ARRR UNSCHEDULED POWER REDUCTIONS

TYPE OF SCRAM							CHANNEL AFFECTED						
NO.	DATE	AUTO	MAN	Spurious	OP. ERROR	CAL	1	2	3	4	Earthquake	H2O	COMMENTS
1	7-8-99			X			X	X	X	X			no visible alarm
2	10-25-99			X			X	X	X	X			no visible alarm
3	11-15-99	X					X	X	X	X			faulty electronic part
4	5-8-00			X			X	X	X	X			no visible alarm
5	5-12-00			X			X	X	X	X			no visible alarm
6	5-12-00			X			X	X	X	X			no visible alarm
7	5-15-00			X			X	X	X	X			no visible alarm
8	5-18-00			X			X	X	X	X			no visible alarm
9	5-18-00			X			X	X	X	X			no visible alarm
10	5-22-00			X			X	X	X	X			no visible alarm
11	5-30-00			X			X	X	X	X			no visible alarm
12	6-8-00			X			X	X	X	X			no visible alarm
13	6-13-00	X					X	X	X	X			power outage
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