



AEROTEST OPERATIONS, INC.

3455 FOSTORIA WAY • SAN RAMON, CA 94583 • (925) 866-1212 • FAX (925) 866-1716

28 July 2005

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 of 1 July 2004 to 30 June 2005.

Gentlemen:

The enclosed report summarizes the ARRR operations from July 1, 2004 through June 30, 2005. This submittal complies with the requirements set forth in 10 CFR 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,

Christopher E. Bauman
Reactor Supervisor
Aerotest Operations, Inc.

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 'C. E. Bauman', with a long horizontal flourish extending to the right.

CHRISTOPHER E. BAUMAN

APPROVED BY

A handwritten signature in black ink, appearing to read 'Alfredo W. Meren', with a long horizontal flourish extending to the right.

ALFREDO W. MEREN

FOR

RAY R. TSUKIMURA

PRESIDENT

AEROTEST OPERATIONS, INC.

SECTION I

Part I – Changes

1. Updated Procedures and Safety Analysis Report have been submitted to Nuclear Regulatory Commission as part of facility's relicensing application package. No changes have yet been implemented.

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.

SECTION II

ARRR MONTHLY OPERATING SUMMARY

Date	Operating Hours	kilowatt- hours	Accumulated kW-h	Experiments & Irradiations	Unscheduled Shutdowns
7-04	181	27,041	12,485,380	0	2
8-04	204	30,596	12,515,976	0	0
9-04	156	23,275	12,539,251	0	0
10-04	164	24,532	12,563,783	0	3
11-04	185	27,666	12,591,449	0	8
12-04	149	22,304	12,613,753	0	0
1-05	174	26,029	12,639,782	0	1
2-05	130	19,446	12,659,228	0	1
3-05	166	24,852	12,684,080	0	2
4-05	137	20,521	12,704,601	0	2
5-05	130	19,504	12,724,105	0	1
6-05	128	19,192	12,743,297	0	0
Totals	1904	284,958	12,743,297	0	20

ARRR UNSCHEDULED POWER REDUCTIONS

TYPE OF SCRAM							CHANNEL AFFECTED						
No.	DATE	AUTO	MAN	Spurious	Op. Error	CAL	1	2	3	4	Earthquake	H20	Comments
1	7/9/2004	X					X	X	X	X			Channel 4 90% Voltage
2	7/22/2004	X		X			X	X	X	X			Channel 2 Period Fast
3	10/7/2004	X		X			X	X	X	X			Channel 3 Low
4	10/15/2004	X		X			X	X	X	X			no visible alarm
5	10/19/2004	X		X			X	X	X	X			no visible alarm
6	11/3/2004	X		X			X	X	X	X			no visible alarm
7	11/3/2004	X		X			X	X	X	X			no visible alarm
8	11/3/2004	X		X			X	X	X	X			no visible alarm
9	11/6/2004	X		X			X	X	X	X			no visible alarm
10	11/10/2004	X		X			X	X	X	X			no visible alarm
11	11/11/2004	X		X			X	X	X	X			no visible alarm
12	11/13/2004	X		X			X	X	X	X			no visible alarm
13	11/19/2004	X					X	X	X	X			Channel 3 Low
14	1/5/2005	X			X		X	X	X	X			Channel 3 High
15	2/16/2005	X					X	X	X	X			Channel 4 Low *
16	3/9/2005	X		X			X	X	X	X			no visible alarm
17	3/22/2005	X					X	X	X	X			no visible alarm *
18	4/5/2005	X		X			X	X	X	X			no visible alarm
19	4/18/2005	X					X	X	X	X			no visible alarm *
20	5/26/2005	X					X	X	X	X			Channel 2 Period Fast
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* Physical shock to console