



AEROTEST OPERATIONS, INC.

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27 July 2007

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 2006 to 30 June 2007.

Gentlemen:

The enclosed report summarizes the ARRR operations from July 1, 2006 through June 30, 2007. 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,

Alfredo W. Meren
Reactor Supervisor
Aerotest Operations, Inc.

ANNUAL SUMMARY OF CHANGES, TESTS AND EXPERIMENTS
PERFORMED AT THE
AEROTEST RADIOGRAPHY AND RESEARCH REACTOR
(ARRR)

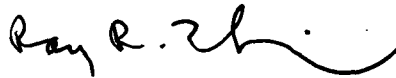
DOCKET NO. 50-228

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 'Ray R. Tsukimura', with a long horizontal flourish extending to the right.

RAY R. TSUKIMURA

PRESIDENT

AEROTEST OPERATIONS, INC.

SECTION I

Part I – Changes

1. Updated Procedures and Safety Analysis Report have previously been submitted to Nuclear Regulatory Commission as part of facility's relicensing application package. No changes have yet been implemented.
2. Alfredo W. Meren assumed the position of Reactor Supervisor for Christopher E. Bauman who will stay on as Senior Reactor Operator and Manager of Research and Development.

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
7-06	131	17,645	12,977,375	0	1
8-06	159	22,375	12,999,750	0	5
9-06	134	18,011	13,017,761	0	2
10-06	160	21,603	13,039,364	0	4
11-06	131	17,646	13,057,010	0	5
12-06	133	17,993	13,075,003	0	3
1-07	141	18,922	13,093,925	0	1
2-07	174	23,433	13,117,358	0	2
3-07	166	22,347	13,139,705	0	1
4-07	185	24,969	13,164,674	0	12
5-07	148	21,191	13,184,951	0	1
6-07	172	27,367	13,212,318	0	1
Totals	1834	253,502	13,212,318	0	38

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	7/19/2006	X		X			X	X	X	X			Momentary Building Power Loss
2	8/24/2006	X		X			X	X	X	X			no visible alarm
3	8/25/2006	X		X			X	X	X	X			no visible alarm
4	8/25/2006	X		X			X	X	X	X			no visible alarm
5	8/27/2006	X		X			X	X	X	X			no visible alarm
6	8/30/2006	X		X			X	X	X	X			Channel 3/4 Low
7	9/1/2006	X		X			X	X	X	X			no visible alarm
8	9/28/2006	X		X			X	X	X	X			no visible alarm
9	10/27/2006	X		X			X	X	X	X			Channel 2 Period Fast
10	10/29/2006	X		X			X	X	X	X			no visible alarm
11	10/30/2006	X		X			X	X	X	X			no visible alarm
12	10/31/2006	X		X			X	X	X	X			no visible alarm
13	11/1/2006	X		X			X	X	X	X			no visible alarm
14	11/1/2006	X		X			X	X	X	X			no visible alarm
15	11/1/2006	X		X			X	X	X	X			no visible alarm
16	11/1/2006	X		X			X	X	X	X			no visible alarm
17	11/29/2006	X		X			X	X	X	X			no visible alarm
18	12/1/2006	X		X			X	X	X	X			no visible alarm
19	12/14/2006	X		X			X	X	X	X			no visible alarm *
20	12/29/2006	X		X			X	X	X	X			Channel 2 Period Fast
21	1/4/2007	X		X			X	X	X	X			Channel 4 90% Voltage
22	2/7/2007	X		X			X	X	X	X			Channel 4 90% Voltage
23	2/9/2007	X		X			X	X	X	X			Channel 4 90% Voltage
24	3/13/2007	X		X			X	X	X	X			Channel 4 90% Voltage
25	4/4/2007	X		X			X	X	X	X			no visible alarm
26	4/5/2007	X		X			X	X	X	X			Channel 4 Low
27	4/6/2007	X		X			X	X	X	X			no visible alarm
28	4/9/2007	X			X		X	X	X	X			Channel 4 Low - switching
29	4/10/2007	X		X			X	X	X	X			no visible alarm *
30	4/10/2007	X		X			X	X	X	X			no visible alarm *
31	4/11/2007	X		X			X	X	X	X			no visible alarm
32	4/11/2007	X		X			X	X	X	X			no visible alarm
33	4/12/2007	X		X			X	X	X	X			no visible alarm
34	4/13/2007	X		X			X	X	X	X			no visible alarm
35	4/13/2007	X		X			X	X	X	X			no visible alarm
36	4/30/2007	X		X			X	X	X	X			no visible alarm
37	5/15/2007	X		X			X	X	X	X			Channel 2 Period Fast
38	6/4/2007	X		X			X	X	X	X			Channel 4 High - transient
39													
40													

* Concurrent with shutter operation