Space Systems
Rocketdyne Propulsion & Power
6633 Canoga Avenue
P.O. Box 7922
Canoga Park, CA 91309-7922

November 9, 1998
In reply refer to 98RC5810

BOEING

Ms. Lisa Austin, Materials Licensing
Department of Health Services
Radiologic Health Branch
601 N. 7th Street
P.O. Box 942732
Sacramento, CA 94234-7320

Subject: Gamma Irradiation Facility (GIF), Building 104, DeSoto. Release for Unrestricted Use and Removal from Radioactive Materials License 0015-19.

Reference: (1) "Final Radiological Survey Data Package – Gamma Irradiation Facility, DeSoto, Building 104", November 6, 1998

Dear Ms. Austin,

The Gamma Irradiation Facility (GIF) at the DeSoto facility of Rocketdyne Propulsion and Power has been utilized since 1966 for irradiation experiments using sealed cobalt-60 and cesium-137 sources. Following removal and shipment of these materials to other DOE facilities and/or licensees, the facility was surveyed for residual radioactivity. This survey is documented in the attached "Final Radiological Survey Data Package" (Reference 1). All measurements were well below the DHS approved limits for surface contamination. Personnel from the DHS/RHB subsequently performed a verification survey of the GIF on October 8, 1998.

Therefore, Rocketdyne respectfully requests that the Gamma Irradiation Facility be released for unrestricted use, and removed from the Radioactive Materials License 0015-19.

BOEING

Should you have further questions, please contact the undersigned at 818-586-6140.

Sincerely,

Phil Rutherford, Manager
Radiation Safety

PR:mw

Enclosure

cc with enclosures:
S. Hsu, DHS/RHB

Final Radiological Survey Data Package

Gamma Irradiation Facility
De Soto, Building 104

Compiled by

James G. Barnes
and
Philip D. Rutherford

November 6, 1998

1.0 History

The Gamma Irradiation Facility (GIF) is located in the northeast corner of Building 104 at the De Soto facility. It comprised a heavily shield vault or cell with a lead glass window and hydraulic remote manipulators, and an operating gallery (Room 41A-11). See Figure 1.

The facility was operated since 1966 as an irradiation facility for sterilization of medical equipment, nuclear reactor component qualification, radiation hardening of space components and food irradiation.

Cobalt-60: Originally, 12 sealed cobalt-60 source pencils were procured for the facility. Sixteen cobalt-60 pencils were added in September 1974 and 20 cobalt-60 pencils added in 1975 bringing the total cobalt-60 inventory to 130,000 curies. By June 1994, this activity had decayed to 10,195 curies. At that time, 12 of these sources were shipped to J. L. Shepard Inc. and 36 were shipped to Neutron Products Inc.

Cesium-137: In August 1986, 12 sealed cesium-137 capsules with an activity of 650,000 curies were added to the facility. These were later removed from the facility in March 1991 and shipped to Hanford for recycling.

The State DHS was informed of, and observed both of these shipments.

During the period of possession of these sources, periodic source leak checks were performed. No evidence of any leakage of any sources was ever detected. The GIF was also used to store irradiated specimens from the Mass Spectroscopy Lab in the millicurie and microcurie range.

2.0 Surveys

Following removal of all radioactive material, a radiological survey of all surfaces of the gamma cell and operating gallery was performed in September 1994 and no contamination detected. At that point the gamma cell was sealed and the operating gallery used for (non-radiological) equipment storage.

In June through August of 1998, a final radiological survey was performed of both the gamma cell, the operating gallery, ventilation room (connecting the GIF to the roof) and the roof above the GIF where ventilation ducts had been removed.

- A 100% scanning survey for total alpha and beta surface contamination was performed. No activity was detected.
- In addition, approximately 1,800 smears were taken. No activity was detected. All smears were <20 dpm/100cm^2 (alpha) and <100 dpm/100cm^2 (beta).

Based on the following survey results the Gamma Irradiation Facility is suitable for release for unrestricted use.

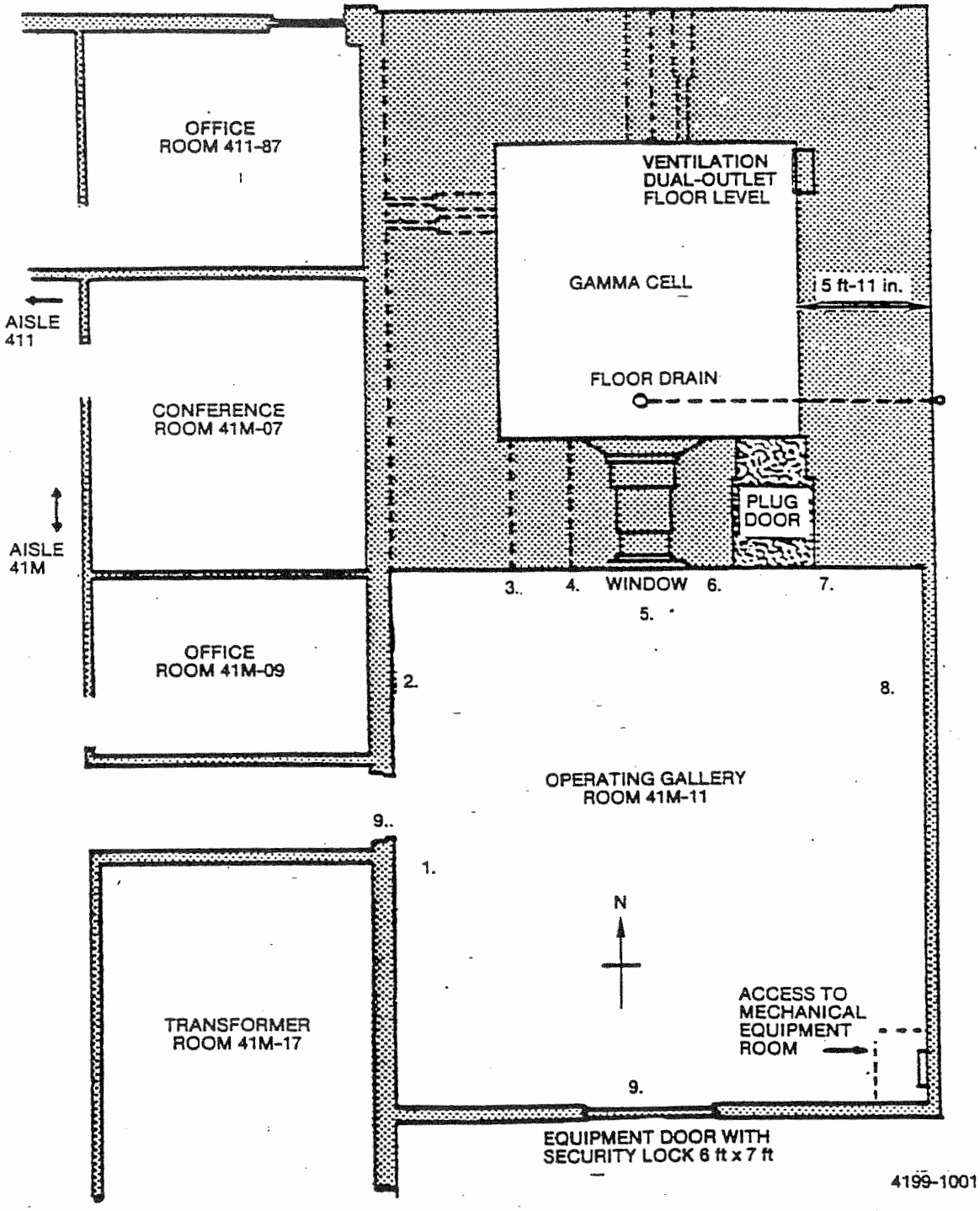

Figure 1. Facility Floor Plan

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: DIRECT FRISK OF ALL SURFACES DESCRIPTION	UNITS LIMIT	β cpm direct frisk NDA	α cpm direct frisk NDA		
	7/31/98	and	FLOOR, FLOOR CONDUITS, FLOOR RAILS AND RAIL SLOTS		NDA	NDA		
		8/3/98	USED FOR THE SHIELD BLOCK FOR THE GAMMA CELL					
	8/3/98	and	ELECTRICAL BOXES AND CONDUITS ON SOUTH WALL		NDA	NDA		
		8/13/98						
	8/3/98	and	LADDER ON EAST WALL AND PARTS OF THE EAST AND		NDA	NDA		
		8/12/98	SOUTH WALLS AT THE LADDER					
	8/7/98	and	EAST WALL		NDA	NDA		
		8/11/98						
	8/11/98	and	SOUTH WALL		NDA	NDA		
		8/12/98						
	8/12/98	and	WEST WALL AND PIPES		NDA	NDA		
		8/13/98						
	8/11/98	thru	CEILING AREA TO INCLUDE LIGHTS AND FIXTURES, BEAMS,		NDA	NDA		
		8/14/98	CONDUITS AND SPRINKLERS					
		8/14/98	DOORS AND DOOR FRAMES		NDA	NDA		
		8/17/98	VENTILATION DUCT IN FLOOR AT NORTHEAST CORNER		NDA	NDA		

COMMENTS:

Direct Beta Frisk

Background Range:60 to 80 cpm

NDA= lowest background + 100cpm Beta

INSTRUMENT	Ludlum 3	Ludlum 12		
IDENTIFICATION	EXO40902	NO381556		
CALIBRATION DUE	10/30/98	9/25/98		
BACKGROUND	60to80 cpm	0to1 cpm		
EFFICIENCY	13.10%	14%		
COUNT TIME	NA	NA		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 1 of 1

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Paint chips and debris	UNITS	α dpm/100cm2	β dpm/100cm2		
			DESCRIPTION	LIMIT	20	100		
1to20	8/10/98	8/10/98	PAINT CHIPS AND DEBRIS SAMPLES FROM THE FLOOR,		<20	<100		
			CEILING, WALLS AND OTHER AREAS NOT SPECIFICALLY					
			NAMED IN THE ROOM					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.1	1.6		
EFFICIENCY	0.3307	0.3982		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: P.S.C.

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 1 of 2

FORM 732-A REV 8-97

Rocketdyne Division

Desoto 104 GALLERY
Paint CHIPS 1-20

MON AUG 10, 1998
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
14	.0000	1.00	0	2	-0.10	0.40	-.30238887	1.0045203	07:15:59
46	.0000	1.00	2	3	1.90	1.40	5.7453886	3.5158212	07:17:1[illegible]
47	.0000	1.00	1	4	0.90	0.40	2.7214998	4.027122	07:18:22
46	.0000	1.00	1	6	0.90	4.40	2.7214998	11.049724	07:19:34
45	.0000	1.00	3	2	2.90	0.40	8.7692773	1.0045203	07:20:45
44	.0000	1.00	1	3	0.90	1.40	2.7214998	3.5158212	07:21:57
43	.0000	1.00	0	5	-0.10	3.40	-.30238887	8.5384229	07:23:[illegible]
42	.0000	1.00	0	2	-0.10	0.40	-.30238887	1.0045203	07:24:2[illegible]
41	.0000	1.00	0	2	-0.10	0.40	-.30238887	1.0045203	07:25:[illegible]
45	.0000	1.00	0	7	-0.10	5.40	-.30238887	13.561025	07:26:43
65	.0000	1.00	0	5	-0.10	3.40	-.30238887	8.5384229	07:27:55
66	.0000	1.00	0	1	-0.10	-0.60	-.30238887	-1.5067805	07:29:06
67	.0000	1.00	1	5	0.90	3.40	2.7214998	8.5384229	07:30:18
69	.0000	1.00	0	3	-0.10	1.40	-.30238887	3.5158212	07:31:30
70	.0000	1.00	0	11	-0.10	9.40	-.30238887	23.606228	07:32:41
71	.0000	1.00	2	2	1.90	0.40	5.7453886	1.0045203	07:33:53
72	.0000	1.00	2	3	1.90	1.40	5.7453886	3.5158212	07:35:04
73	.0000	1.00	0	3	-0.10	1.40	-.30238887	3.5158212	07:36:16
74	.0000	1.00	0	10	-0.10	8.40	-.30238887	21.094927	07:37:28
75	.0000	1.00	0	14	-0.10	14.40	-.30238887	36.162732	07:38:39

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
281to300	8/3/98	8/4/98	SOUTH WALL		<20	<100		
301to350	8/3/98		WEST WALL					
351to355	8/4/98		NORTH WALL					
356to373			EAST WALL					
374to385			LADDER					
386			GAITRONICS SPEAKER					
387to393			BEAM IN SOUTHEAST CORNER					
394			SOUTH WALL					
395to397			HATCHWAY STEEL AT TOP OF LADDER					
398to400			CEILING BEAM SOUTH SIDE					
401to425			SOUTH WALL					
426to428			BEAM IN SOUTHWEST CORNER					
429to434			CONDUIT SOUTH WALL					
435			PIPE FROM CEILING IN SOUTHWEST CORNER					
436,437			CONDUIT SOUTH WALL					
438			UNISTRUT ON SOUTH WALL					
439to441			PIPE					
442to444			WEST WALL					
445			PIPE					
446to457	8/4/98	8/4/98	WEST WALL		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.4	1.5		
EFFICIENCY	0.3334	0.3968		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R. Sh

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 1 of 8

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
458to462	8/4/98	8/4/98	WEST WALL CONDUIT		<20	<100		
463to469			WEST WALL					
470,471			PIPE IN NORTHWEST CORNER OF WEST WALL					
472to480			NORTH WALL					
481			SLIDE TUBE HOLE NORTH WALL					
482to485			NORTH WALL					
486,487			SLIDE TUBE HOLE NORTH WALL					
488to496			NORTH WALL					
497to520	8/4/98	8/4/98	FLOOR		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.4	1.5		
EFFICIENCY	0.3334	0.3968		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R. Garrett

REVIEWED BY: [signature] DATE: 11/21/98

See Attachment ☐

FORM 732-A REV 8-97

Rocketdyne Division

DESOTO 104 GALLERY

SMEARS 281-320

AUG 24, 1998

BGD = 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TIME HR:MN:SEC
1	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	06:57:19
2	.0000	1.00	1	7	0.40	5.50	1.7996401	13.860887	06:58:31
3	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	06:59:42
4	.0000	1.00	1	4	0.60	2.50	1.7996401	4.3004032	07:00:54
5	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	07:02:06
6	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	07:03:17
7	.0000	1.00	0	7	-0.40	5.50	-1.19976	13.860887	07:04:29
8	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	07:05:40
9	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	07:06:52
10	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	07:08:04
11	.0000	1.00	0	0	-0.40	-1.50	-1.19976	-3.7802419	07:09:15
12	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	07:10:27
13	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	07:11:39
14	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	07:12:50
15	.0000	1.00	2	2	1.40	0.50	4.7996402	1.2600806	07:14:02
16	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	07:15:13
17	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	07:16:25
18	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	07:17:37
19	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	07:18:48
20	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	07:20:00
21	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	07:21:11
22	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	07:22:23
23	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	07:23:35
24	.0000	1.00	1	0	0.60	-1.50	1.7996401	-3.7802419	07:24:46
25	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	07:25:58
26	.0000	1.00	1	5	0.60	3.50	1.7996401	8.8205645	07:27:09
27	.0000	1.00	0	0	-0.40	-1.50	-1.19976	-3.7802419	07:28:21
28	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	07:29:33
29	.0000	1.00	0	7	-0.40	5.50	-1.19976	13.860887	07:30:44
30	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	07:31:56
31	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	07:33:07
32	.0000	1.00	1	4	0.60	2.50	1.7996401	6.3004032	07:34:19
33	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	07:35:31
34	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	07:36:42
35	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	07:37:54
36	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	07:39:06
37	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	07:40:17
38	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	07:41:29
39	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	07:42:40
40	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	07:43:52

DeSoto 104 GALLERY

SMEARS 321-360

TUE AUG 24, 1998

GROUP 9 : 0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	HH:MM:SS
1	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	08:29:27
2	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	08:30:48
3	.0000	1.00	2	1	1.60	-0.50	4.7996402	-1.2600806	08:31:50
4	.0000	1.00	0	0	-0.40	-1.50	-1.19976	-3.7802419	08:33:32
5	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	08:34:13
6	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	08:35:25
7	.0000	1.00	0	6	-0.40	3.50	-1.19976	8.8205645	08:36:37
8	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	08:37:48
9	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	08:39:00
10	.0000	1.00	1	4	0.60	2.50	1.7996401	6.3004032	08:40:11
11	.0000	1.00	1	0	0.60	-1.50	1.7996401	-3.7802419	08:41:23
12	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	08:42:35
13	.0000	1.00	1	7	0.60	5.50	1.7996401	13.860887	08:43:46
14	.0000	1.00	0	6	-0.40	4.50	-1.19976	16.381048	08:44:58
15	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	08:46:10
16	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	08:47:21
17	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	08:48:33
18	.0000	1.00	1	5	0.60	3.50	1.7996401	8.8205645	08:49:44
19	.0000	1.00	2	2	1.60	0.50	4.7996402	1.2600806	08:50:56
20	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	08:52:08
21	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	08:53:19
22	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	08:54:31
23	.0000	1.00	1	4	0.60	2.50	1.7996401	6.3004032	08:55:43
24	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	08:56:54
25	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	08:58:06
26	.0000	1.00	0	0	-0.40	0.50	-1.19976	1.2600806	08:59:17
27	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:00:29
28	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	09:01:41
29	.0000	1.00	0	3	-0.40	3.50	-1.19976	8.8205645	09:02:52
30	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:04:04
31	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:05:16
32	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	09:06:27
33	.0000	1.00	0	0	-0.40	-1.50	-1.19976	-3.7802419	09:07:39
34	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	09:08:51
35	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	09:10:02
36	.0000	1.00	1	0	0.60	-1.50	1.7996401	-3.7802419	09:11:14
37	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:12:26
38	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	09:13:37
39	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	09:14:49
40	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:16:01

DeSoto 104 GALLERY

TUE AUG 04, 1998 Smears 361-400

GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SS
1	.0000	1.00	1	4	0.40	2.50	1.7996401	6.3004032	09:21:33
2	.0000	1.00	0	4	-0.40	4.50	-1.19976	11.340726	09:21:50
3	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:23:02
4	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:24:13
5	.0000	1.00	2	4	1.40	2.50	4.7996402	6.3004032	09:25:25
6	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:26:37
7	.0000	1.00	1	4	0.40	2.50	1.7996401	6.3004032	09:27:48
8	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:29:00
9	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:30:12
10	.0000	1.00	1	2	0.40	0.50	1.7996401	1.2600806	09:31:23
11	.0000	1.00	1	0	0.40	-1.50	1.7996401	-3.7802419	09:32:35
12	.0000	1.00	1	0	0.40	-1.50	1.7996401	-3.7802419	09:33:47
13	.0000	1.00	1	2	0.40	0.50	1.7996401	1.2600806	09:34:58
14	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	09:36:10
15	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:37:22
16	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:38:33
17	.0000	1.00	2	1	1.40	-0.50	4.7996402	-1.2600806	09:39:45
18	.0000	1.00	0	0	-0.40	-1.50	-1.19976	-3.7802419	09:40:57
19	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	09:42:08
20	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:43:20
21	.0000	1.00	1	4	0.40	2.50	1.7996401	6.3004032	09:44:32
22	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:45:43
23	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	09:46:55
24	.0000	1.00	2	2	1.40	0.50	4.7996402	1.2600806	09:48:07
25	.0000	1.00	1	4	0.40	2.50	1.7996401	6.3004032	09:49:18
26	.0000	1.00	1	2	0.40	0.50	1.7996401	1.2600806	09:50:30
27	.0000	1.00	0	6	-0.40	4.50	-1.19976	11.340726	09:51:42
28	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	09:52:53
29	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	09:54:05
30	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:55:17
31	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:56:28
32	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	09:57:40
33	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	09:58:52
34	.0000	1.00	1	4	0.40	2.50	1.7996401	6.3004032	10:00:03
35	.0000	1.00	0	0	-0.40	-1.50	-1.19976	-3.7802419	10:01:15
36	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	10:02:27
37	.0000	1.00	3	5	2.40	3.50	7.7996403	8.8205645	10:03:38
38	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	10:04:50
39	.0000	1.00	1	3	0.40	1.50	1.7996401	3.7802419	10:06:02
40	.0000	1.00	1	5	0.40	3.50	1.7996401	8.8205645	10:07:13

Desoto 104 GALLERY

TUE AUG 04, 1998 Smears 401-440

GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA DPM/100 CM2	BETA DPM/100 CM2	TOD (HH:MM:SS)
1	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	10:36:32
2	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	10:37:34
3	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	10:40:44
4	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	10:41:57
5	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	10:43:09
6	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	10:44:20
7	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	10:45:32
8	.0000	1.00	1	0	0.60	-1.50	1.7996401	-3.7802419	10:46:44
9	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	10:47:55
10	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	10:49:07
11	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	10:50:19
12	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	10:51:30
13	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	10:52:42
14	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	10:53:54
15	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	10:55:05
16	.0000	1.00	3	2	2.60	0.50	7.7984403	1.2600806	10:56:17
17	.0000	1.00	2	1	1.60	-0.50	4.7990402	-1.2600806	10:57:29
18	.0000	1.00	1	3	-0.40	1.50	-1.19976	3.7802419	10:58:41
19	.0000	1.00	1	4	0.60	2.50	1.7996402	6.3004032	10:59:53
20	.0000	1.00	2	2	1.60	0.50	4.7990402	1.2600806	11:01:04
21	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	11:02:16
22	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	11:03:27
23	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	11:04:39
24	.0000	1.00	1	4	0.60	2.50	1.7996401	6.3004032	11:05:51
25	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	11:07:02
26	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	11:08:14
27	.0000	1.00	1	1	0.60	-0.50	1.7996401	-1.2600806	11:09:26
28	.0000	1.00	0	6	-0.40	4.50	-1.19976	11.340726	11:10:38
29	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	11:11:49
30	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	11:13:01
31	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	11:14:13
32	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	11:15:24
33	.0000	1.00	2	6	1.60	4.50	4.7990402	11.340726	11:16:36
34	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	11:17:48
35	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	11:18:59
36	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	11:20:11
37	.0000	1.00	0	1	-0.40	-0.50	-1.19976	3.7802419	11:21:23
38	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	11:22:34
39	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	11:23:46
40	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	11:24:58

DESOTO 104 GALLERY

TUE AUG 04, 1998

GROUP 8 0.0000 SMEARS 441-480

SAMPLE SN	SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD (LOCAL) HR:MN:SEC
1	.0000	1.00	0	6	-0.40	2.50	-1.19976	4.3004032	12:49:47
2	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	12:51:57
3	.0000	1.00	1	4	0.60	2.50	1.7996401	4.3004032	12:52:17
4	.0000	1.00	0	1	-0.40	-0.50	-1.19976	1.2600806	12:53:22
5	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	12:54:34
6	.0000	1.00	1	4	0.60	2.50	1.7996401	4.3004032	12:55:44
7	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	12:56:57
8	.0000	1.00	0	7	-0.40	5.50	-1.19976	13.840887	12:58:09
9	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	12:59:21
10	.0000	1.00	2	2	1.60	0.50	4.7996402	1.2600806	13:00:32
11	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	13:01:44
12	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	13:02:56
13	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	13:04:07
14	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	13:05:19
15	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	13:06:31
16	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	13:07:43
17	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	13:08:54
18	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	13:10:06
19	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	13:11:18
20	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	13:12:29
21	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:13:41
22	.0000	1.00	1	5	0.60	3.50	1.7996401	8.8205645	13:14:53
23	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:16:05
24	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	13:17:16
25	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	13:18:28
26	.0000	1.00	2	0	1.40	-1.50	4.7996402	-3.7802419	13:19:40
27	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	13:20:51
28	.0000	1.00	0	6	-0.40	4.50	-1.19976	11.340726	13:22:03
29	.0000	1.00	0	4	-0.40	2.50	-1.19976	4.3004032	13:23:15
30	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	13:24:27
31	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:25:38
32	.0000	1.00	2	7	1.40	5.50	4.7996402	13.840887	13:26:50
33	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	13:28:02
34	.0000	1.00	1	6	0.60	4.50	1.7996401	11.340726	13:29:13
35	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:30:25
36	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:31:37
37	.0000	1.00	1	1	0.60	-0.50	1.7996401	-1.2600806	13:32:49
38	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:34:00
39	.0000	1.00	0	4	-0.40	4.50	-1.19976	11.340726	13:35:12
40	.0000	1.00	2	1	1.60	-0.50	4.7996402	-1.2600806	13:36:24

DeSoto 104 Gallery
Smears 481-520

THU AUG 24, 1995
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.0000	1.00	1	5	0.60	2.50	1.7996401	6.3004032	13:37:43
2	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:38:55
3	.0000	1.00	1	4	0.60	2.50	1.7996401	6.3004032	13:40:07
4	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:41:19
5	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	13:42:30
6	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	13:43:42
7	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	13:44:54
8	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	13:46:05
9	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	13:47:17
10	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	13:48:29
11	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	13:49:41
12	.0000	1.00	1	5	0.60	3.50	1.7996401	8.8205645	13:50:52
13	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	13:52:04
14	.0000	1.00	1	4	0.60	2.50	1.7996401	6.3004032	13:53:16
15	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	13:54:27
16	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	13:55:39
17	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	13:56:51
18	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	13:58:03
19	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	13:59:14
20	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	14:00:26
21	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	14:01:38
22	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	14:02:49
23	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	14:04:01
24	.0000	1.00	0	0	-0.40	-1.50	-1.19976	-3.7802419	14:05:13
25	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	14:06:25
26	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	14:07:36
27	.0000	1.00	1	3	0.60	1.50	1.7996401	3.7802419	14:08:48
28	.0000	1.00	0	6	-0.40	4.50	-1.19976	11.340726	14:10:00
29	.0000	1.00	1	5	0.60	3.50	1.7996401	8.8205645	14:11:12
30	.0000	1.00	0	4	-0.40	2.50	-1.19976	6.3004032	14:12:23
31	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	14:13:35
32	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	14:14:47
33	.0000	1.00	1	2	0.60	0.50	1.7996401	1.2600806	14:15:58
34	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	14:17:10
35	.0000	1.00	0	1	-0.40	-0.50	-1.19976	-1.2600806	14:18:22
36	.0000	1.00	0	5	-0.40	3.50	-1.19976	8.8205645	14:19:34
37	.0000	1.00	1	4	0.60	4.50	1.7996401	11.340726	14:20:45
38	.0000	1.00	0	3	-0.40	1.50	-1.19976	3.7802419	14:21:57
39	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	14:23:09
40	.0000	1.00	0	2	-0.40	0.50	-1.19976	1.2600806	14:24:21

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY	UNITS	α dpm/100cm2	β dpm/100cm2		
			DESCRIPTION	LIMIT	20	100		
521to560	8/5/98	8/5/98	FLOOR		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.2	1.6		
EFFICIENCY	0.3344	0.4032		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R. Ge

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 1 of 2

FORM 732-A REV 8-97

Rocketdyne Division

Desoto 104 Gallery
Smears 521-560

WED AUG 05, 1998
GROUP 8 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA (CPM)	BETA (CPM)	ALPHA (CORRECTED)	BETA (CORRECTED)	TOD (HH:MM:SS)
1	.0000	1.00	0	3	-0.20	1.40	-.59808612	3.4722222	14:46:20
2	.0000	1.00	1	4	0.80	2.40	2.3923445	5.952381	14:47:32
3	.0000	1.00	0	1	-0.20	-0.60	-.59808612	-1.4880952	14:48:44
4	.0000	1.00	0	3	-0.20	1.40	-.59808612	3.4722222	14:49:55
5	.0000	1.00	0	0	-0.20	-1.60	-.59808612	-3.968254	14:51:07
6	.0000	1.00	1	3	0.80	1.40	2.3923445	3.4722222	14:52:19
7	.0000	1.00	1	1	0.80	-0.60	2.3923445	-1.4880952	14:53:30
8	.0000	1.00	1	3	0.80	1.40	2.3923445	3.4722222	14:54:42
9	.0000	1.00	0	3	-0.20	1.40	-.59808612	3.4722222	14:55:54
10	.0000	1.00	0	1	-0.20	-0.60	-.59808612	-1.4880952	14:57:05
11	.0000	1.00	0	4	-0.20	2.40	-.59808612	5.952381	14:58:17
12	.0000	1.00	0	3	-0.20	1.40	-.59808612	3.4722222	14:59:29
13	.0000	1.00	0	2	-0.20	0.40	-.59808612	.99206349	15:00:41
14	.0000	1.00	0	2	-0.20	0.40	-.59808612	.99206349	15:01:52
15	.0000	1.00	0	2	-0.20	0.40	-.59808612	.99206349	15:03:04
16	.0000	1.00	1	2	0.80	0.40	2.3923445	.99206349	15:04:15
17	.0000	1.00	0	2	-0.20	0.40	-.59808612	.99206349	15:05:27
18	.0000	1.00	1	4	0.80	4.40	2.3923445	10.912698	15:06:39
19	.0000	1.00	1	3	0.80	1.40	2.3923445	3.4722222	15:07:50
20	.0000	1.00	1	3	0.80	1.40	2.3923445	3.4722222	15:09:02
21	.0000	1.00	0	1	-0.20	-0.60	-.59808612	-1.4880952	15:10:14
22	.0000	1.00	0	2	-0.20	0.40	-.59808612	.99206349	15:11:25
23	.0000	1.00	0	3	-0.20	1.40	-.59808612	3.4722222	15:12:37
24	.0000	1.00	0	7	-0.20	5.40	-.59808612	13.392857	15:13:49
25	.0000	1.00	2	7	1.80	5.40	5.3827751	13.392857	15:15:00
26	.0000	1.00	1	1	0.80	-0.60	2.3923445	-1.4880952	15:16:12
27	.0000	1.00	1	4	0.80	2.40	2.3923445	5.952381	15:17:24
28	.0000	1.00	0	3	-0.20	1.40	-.59808612	3.4722222	15:18:35
29	.0000	1.00	0	3	-0.20	1.40	-.59808612	3.4722222	15:19:47
30	.0000	1.00	0	2	-0.20	0.40	-.59808612	.99206349	15:20:59
31	.0000	1.00	0	2	-0.20	0.40	-.59808612	.99206349	15:22:11
32	.0000	1.00	0	6	-0.20	3.40	-.59808612	8.4325397	15:23:22
33	.0000	1.00	1	0	0.80	-1.60	2.3923445	-3.968254	15:24:34
34	.0000	1.00	1	1	0.80	-0.60	2.3923445	-1.4880952	15:25:45
35	.0000	1.00	0	4	-0.20	1.40	-.59808612	3.4722222	15:26:57
36	.0000	1.00	0	6	-0.20	3.40	-.59808612	8.4325397	15:28:09
37	.0000	1.00	0	4	-0.20	2.40	-.59808612	5.952381	15:29:21
38	.0000	1.00	0	8	-0.20	4.40	-.59808612	10.912698	15:30:32
39	.0000	1.00	0	7	-0.20	5.40	-.59808612	13.392857	15:31:44
40	.0000	1.00	1	3	0.80	1.40	2.3923445	3.4722222	15:32:57

BOEING

RADIATION SURVEY REPORT

FACILITY:	DeSoto Bldg. 104
LOCATION:	GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
561to576	8/6/98	8/6/98	FLOOR		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.2	1.5		
EFFICIENCY	0.3351	0.4042		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R. Lee

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 1 of 2

FORM 732-A REV 8-97

Rocketdyne Division

Desoto 104 Gallery

Smears 561-576

[illegible] AUG 06, 1998

GROUP # 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.0000	1.00	1	5	0.80	3.50	2.3873471	8.6590797	13:57:29
2	.0000	1.00	0	3	-0.20	1.50	-.59683677	3.7110341	13:58:41
3	.0000	1.00	[illegible]	1	[illegible]	[illegible]	-.59683677	-1.2370114	13:59:52
4	.0000	1.00	0	4	-0.20	2.50	-.59683677	6.1850569	14:01:04
5	.0000	1.00	1	2	0.80	0.50	2.3873471	1.2370114	14:02:15
6	.0000	1.00	1	6	0.80	4.50	2.3873471	11.133102	14:03:27
7	.0000	1.00	0	4	-0.20	2.50	-.59683677	6.1850569	14:04:38
8	.0000	1.00	0	4	-0.20	2.50	-.59683677	6.1850569	14:05:[illegible]
9	.0000	1.00	2	5	1.80	3.50	5.3715309	8.6590797	14:07:02
10	.0000	1.00	0	3	-0.20	1.50	-.59683677	3.7110341	14:08:13
11	.0000	1.00	0	2	-0.20	0.50	-.59683677	1.2370114	14:09:25
12	.0000	1.00	1	5	0.80	3.50	2.3873471	8.6590797	14:10:37
13	.0000	1.00	0	3	-0.20	1.50	-.59683677	3.7110341	14:11:48
14	.0000	1.00	1	6	0.80	4.50	2.3873471	11.133102	14:13:00
15	.0000	1.00	0	3	-0.20	1.50	-.59683677	3.7110341	14:14:12
16	.0000	1.00	0	2	-0.20	0.50	-.59683677	1.2370114	14:15:23

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
577to587	8/12/98	8/12/98	BEAMS		<20	<100		
588to591			NORTH WALL					
592to596			CEILING					
597to600			NORTH WALL					
601to606			CEILING					
607to610			EAST WALL					
611			CEILING					
612to620			LIGHTS AND FIXTURES					
621,622			EAST WALL					
623to627			CEILING					
628,629			LIGHTS AND FIXTURES					
630to632			EAST WALL					
633to635			BEAMS					
363to639			CEILING					
640to643			EAST WALL					
644,645			CEILING					
646			BEAMS					
647to656			LIGHTS AND FIXTURES					
657to662			BEAMS					
663to666	8/12/98	8/12/98	CEILING		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	1.9		
EFFICIENCY	0.3321	0.397		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 1 of 10

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
667,668	8/12/98	8/12/98	BEAMS		<20	<100		
669,670			EAST WALL					
671to681			BEAMS					
682,683			SPRINKLERS AND PIPING					
684,685			CEILING					
686,687			SOUTH WALL					
688to691			LIGHTS AND FIXTURES					
692,693			CEILING					
694,695			BEAMS					
696			LIGHTS AND FIXTURES					
697to700			BEAMS					
701,702			CEILING					
703,704			SPRINKLERS AND PIPING					
705to707			BEAMS					
708,709			LIGHTS AND FIXTURES					
710,711			CEILING					
712to714			LIGHTS AND FIXTURES					
715,716			SPRINKLERS AND PIPING					
717,718			CEILING					
719,720	8/12/98	8/12/98	NORTH WALL		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	1.9		
EFFICIENCY	0.3321	0.397		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY:

REVIEWED BY: DATE: 11/2/98

See Attachment ☐

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
721to723	8/12/98	8/12/98	CEILING		<20	<100		
724to730			BEAMS					
731,732			LIGHTS AND FIXTURES					
733to736			BEAMS					
737,738			CEILING					
739to741			LIGHTS AND FIXTURES					
742,743			SPRINKLERS AND PIPING					
744to747			SOUTH WALL					
748to757			BEAMS					
758to762			CEILING					
763			LIGHTS AND FIXTURES					
764to769			BEAMS					
770to774			CEILING					
775,776			CONDUIT					
777to783			LIGHTS AND FIXTURES					
784,785			CEILING					
786,787			SPRINKLERS AND PIPING					
788to791			BEAMS					
792,793			CEILING					
794to801	8/12/98	8/12/98	LIGHTS AND FIXTURES		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	1.9		
EFFICIENCY	0.3321	0.397		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 3 of 10

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
802,803	8/12/98	8/12/98	CEILING		<20	<100		
804,805			BEAMS					
806,807			LIGHTS AND FIXTURES					
808,809			SPRINKLERS AND PIPING					
810to816			BEAMS					
817,818			SOUTH WALL					
819			CEILING					
820	8/12/98	8/12/98	BEAMS		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	1.9		
EFFICIENCY	0.3321	0.397		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY R. Le

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 4 of 10

FORM 732-A REV 8-97

Rocketdyne Division

DeSoto 104 Gallery

WED AUG 12, 1998

Smears 577 - 616

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	07:20:29
2	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	07:21:41
3	.0000	1.00	1	1	-0.50	-0.90	-1.5055706	-4.7858942	07:22:52
4	.0000	1.00	3	5	-0.50	3.10	-1.5055706	7.8085642	07:24:04
5	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	07:25:16
6	.0000	1.00	1	3	0.50	1.10	1.5055706	2.7707809	07:26:27
7	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	07:27:39
8	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	07:28:51
9	.0000	1.00	1	3	0.50	1.10	1.5055706	2.7707809	07:30:02
10	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	07:31:14
11	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	07:32:26
12	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	07:33:37
13	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	07:34:49
14	.0000	1.00	1	4	0.50	2.10	1.5055706	5.2894725	07:36:01
15	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	07:37:13
16	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	07:38:24
17	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	07:39:36
18	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	07:40:48
19	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	07:41:59
20	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	07:43:11
21	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2894725	07:44:23
22	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	07:45:35
23	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	07:46:46
24	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2894725	07:47:58
25	.0000	1.00	0	6	-0.50	4.10	-1.5055706	10.327456	07:49:10
26	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	07:50:21
27	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2894725	07:51:33
28	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2894725	07:52:45
29	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	07:53:56
30	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	07:55:08
31	.0000	1.00	1	3	0.50	1.10	1.5055706	2.7707809	07:56:20
32	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	07:57:32
33	.0000	1.00	1	7	0.50	5.10	1.5055706	12.846348	07:58:43
34	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2894725	07:59:55
35	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	08:01:07
36	.0000	1.00	0	7	-0.50	5.10	-1.5055706	12.846348	08:02:18
37	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	08:03:30
38	.0000	1.00	2	4	0.50	4.10	4.5167118	10.327456	08:04:41
39	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	08:05:54
40	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	08:[illegible]

DeSoto 104 Gallery Smears 617-658

WED AUG 12, 1986
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD (HH:MM:SS)
1	.0000	1.00	0	3	-0.50	1.10	-1.5055706	7.8085442	10:42:1[illegible]
2	.0000	1.00	2	1	1.50	-0.90	4.5167118	-2.2670025	10:43:22
3	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	10:44:34
4	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	10:45:45
5	.0000	1.00	1	0	0.50	-1.90	-1.5055706	.25188917	10:46:57
6	.0000	1.00	1	0	0.50	0.10	-1.5055706	.25188917	10:48:09
7	.0000	1.00	1	1	0.50	-0.90	-1.5055706	-2.2670025	10:49:21
8	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085442	10:50:32
9	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	10:51:44
10	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	10:52:56
11	.0000	1.00	1	0	0.50	-1.90	-1.5055706	.25188917	10:54:07
12	.0000	1.00	0	0	-0.50	0.10	-1.5055706	.25188917	10:55:19
13	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	10:56:31
14	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	10:57:43
15	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	10:58:54
16	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	11:00:06
17	.0000	1.00	1	1	0.50	0.10	-1.5055706	.25188917	11:01:18
18	.0000	1.00	0	3	-0.50	3.10	-1.5055706	7.8085442	11:02:29
19	.0000	1.00	1	0	0.50	-1.90	-1.5055706	-4.7858942	11:03:41
20	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	11:04:53
21	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	11:06:05
22	.0000	1.00	1	3	0.50	1.10	-1.5055706	2.7707809	11:07:16
23	.0000	1.00	1	0	0.50	-1.90	-1.5055706	.25188917	11:08:28
24	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	11:09:4[illegible]
25	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	11:10:52
26	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	11:12:03
27	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	11:13:15
28	.0000	1.00	0	7	-0.50	5.10	-1.5055706	12.846348	11:14:27
29	.0000	1.00	1	1	0.50	-0.90	-1.5055706	-2.2670025	11:15:38
30	.0000	1.00	0	8	-0.50	3.10	-1.5055706	7.8085442	11:16:5[illegible]
31	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	11:18:[illegible]
32	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	11:19:[illegible]
33	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	11:20:[illegible]
34	.0000	1.00	2	4	1.50	2.10	4.5167118	5.2896725	11:21:[illegible]
35	.0000	1.00	1	1	0.50	-0.90	[illegible]	[illegible]	[illegible]
36	.0000	1.00	1	1	-0.50	-0.90	-1.5055706	-2.2670025	11:24:[illegible]
37	.0000	1.00	1	3	0.50	1.10	-1.5055706	2.7707809	11:25:[illegible]
38	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	11:26:26
39	.0000	1.00	0	8	-0.50	3.10	-1.5055706	7.8085442	11:27:34
40	.0000	1.00	1	6	0.50	4.10	-1.5055706	10.327456	11:28:48
41	.0000	1.00	1	1	0.50	-0.90	-1.5055706	.25188917	11:[illegible]
42	.0000	1.00	1	3	0.50	1.10	-1.5055706	2.7707809	11:[illegible]

DESOTO 104 GALLERY
SMEARS 659-700

WED AUG 12, 1998
[illegible]

SN	DATE CODE	TIME (MIN.)	A-B COUNTS	B-A COUNTS	A-B CPM	B-A CPM	A-BKA CORRECTED	B-A CORRECTED	TOD CLOCK HR:MN:SEC
1	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	12:20:56
2	.0000	1.00	[illegible]	4	[illegible]	2.10	-1.5055706	5.2896725	12:22:08
3	.0000	1.00	[illegible]	[illegible]	[illegible]	[illegible]	-1.5055706	.25188917	12:23:19
4	.0000	1.00	[illegible]	[illegible]	[illegible]	1.10	-1.5055706	2.7707809	12:24:31
5	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	12:25:43
6	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	12:26:54
7	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	12:28:06
8	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	12:29:18
9	.0000	1.00	1	[illegible]	0.50	-1.90	-1.5055706	-4.7858942	12:30:37
10	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	12:31:41
11	.0000	1.00	0	6	-0.50	4.10	-1.5055706	10.327456	12:32:53
12	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	12:34:05
13	.0000	1.00	2	1	1.50	-0.90	4.5167118	-2.2670025	12:35:17
14	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	12:36:28
15	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	12:37:40
16	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	12:38:51
17	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	12:40:04
18	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	12:41:15
19	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	12:42:27
20	.0000	1.00	[illegible]	1	[illegible]	-0.90	-1.5055706	-2.2670025	12:43:39
21	.0000	1.00	[illegible]	3	-1.00	1.10	-1.5055706	2.7707809	12:44:51
22	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	12:46:02
23	.0000	1.00	0	11	-0.50	9.10	-1.5055706	22.921914	12:47:14
24	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	12:48:26
25	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	12:49:37
26	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	12:50:49
27	.0000	1.00	1	1	0.50	-0.90	-1.5055706	-2.2670025	12:52:01
28	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	12:53:13
29	.0000	1.00	1	6	0.50	4.10	-1.5055706	10.327456	12:54:24
30	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	12:55:36
31	.0000	1.00	1	3	0.50	1.10	-1.5055706	2.7707809	12:56:48
32	.0000	1.00	1	4	0.50	2.10	-1.5055706	5.2896725	12:58:[illegible]
33	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	12:59:11
34	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:00:23
35	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	13:01:35
36	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	13:02:46
37	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	13:03:58
38	.0000	1.00	1	1	0.50	-0.90	-1.5055706	-2.2670025	13:05:10
39	.0000	1.00	1	[illegible]	0.50	[illegible]	-1.5055706	2.7707809	13:06:22
40	.0000	1.00	1	3	0.50	1.10	-1.5055706	2.7707809	13:07:33
41	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	13:08:45
42	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:09:57

DeSoto 104 Gallery
Smears 701-740

WED AUG 12, 1998
[illegible]

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD [illegible] HR:MN:SEC
1	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	13:20:31
2	.0000	1.00	0	1	-0.50	1.10	-1.5055706	2.7707809	13:21:47
3	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:22:54
4	.0000	1.00	0	1	-0.50	1.10	-1.5055706	2.7707809	13:24:06
5	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	13:25:17
6	.0000	1.00	0	1	-0.50	1.10	-1.5055706	2.7707809	13:26:29
7	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:27:41
8	.0000	1.00	0	2	-0.50	[illegible]	[illegible]	[illegible]	[illegible]
9	.0000	1.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	.0000	1.00	1	2	-0.50	[illegible]	[illegible]	.25188917	[illegible]
11	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	13:32:28
12	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	13:33:39
13	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:34:51
14	.0000	1.00	1	1	0.50	-0.90	1.5055706	-2.2670025	13:36:03
15	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:37:15
16	.0000	1.00	0	0	-0.50	-1.70	-1.5055706	-4.7858942	13:38:26
17	.0000	1.00	1	4	0.50	2.10	1.5055706	5.2896725	13:39:38
18	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	13:40:50
19	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	13:42:01
20	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:43:13
21	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	13:44:25
22	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	13:45:37
23	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:46:48
24	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:48:00
25	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	13:49:12
26	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	13:50:24
27	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	13:51:35
28	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	13:52:47
29	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	13:53:59
30	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	13:55:11
31	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	13:56:22
32	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	13:57:34
33	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	13:58:46
34	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	13:59:57
35	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:01:09
36	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:02:21
37	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:03:33
38	.0000	1.00	[illegible]	0	-0.50	-0.90	-1.5055706	-2.2670025	14:04:44
39	.0000	1.00	1	7	[illegible]	[illegible]	2.5278531	12.8463348	14:05:54
40	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	14:07:06

DeSoto 104 Gallery

WED AUG 12, 1998
GROW 4 0.0000

Smears 741-780

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD FLOW HR:MN:SE
1	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:12:47
2	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:13:58
3	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	14:15:10
4	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:16:21
5	.0000	1.00	1	1	0.50	-0.90	1.5055706	-2.2670025	14:17:33
6	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:18:45
7	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:19:57
8	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	14:21:08
9	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:22:21
10	.0000	1.00	1	1	0.50	-0.90	1.5055706	-2.2670025	14:23:32
11	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:24:44
12	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	14:25:55
13	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:27:07
14	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:28:19
15	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	14:29:31
16	.0000	1.00	0	8	-0.50	6.10	-1.5055706	15.365239	14:30:42
17	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:31:54
18	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	14:33:06
19	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	14:34:17
20	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:35:29
21	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:36:41
22	.0000	1.00	1	0	0.50	-1.90	1.5055706	-4.7858942	14:37:53
23	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:39:04
24	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:40:16
25	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	14:41:28
26	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:42:39
27	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	14:43:51
28	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	14:45:03
29	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:46:15
30	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	14:47:26
31	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:48:38
32	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:49:50
33	.0000	1.00	1	3	0.50	1.10	1.5055706	2.7707809	14:51:02
34	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:52:13
35	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	14:53:25
36	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	14:54:37
37	.0000	1.00	1	5	0.50	3.10	1.5055706	7.8085642	14:55:49
38	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:57:00
39	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-4.7858942	14:58:12
40	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	14:59:24

DESOTO 104 GALLERY
SMEARS 781-820

WED AUG 12, 1998
GROUP A C.0000

SAMPLE SN	SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SE
1	.0000	1.00	0	6	-0.50	4.10	-1.5055706	10.327456	15:04:22
2	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	15:05:44
3	.0000	1.00		1	-0.50	-0.90	-1.5055706	-2.2670025	15:07:44
4	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	15:08:08
5	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	15:09:09
6	.0000	1.00	1	7	0.50	5.10	1.5055706	12.846348	15:10:21
7	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	15:11:37
8	.0000	1.00	1	1	0.50	-0.90	1.5055706	-2.2670025	15:12:45
9	.0000	1.00	1	4	0.50	3.10	1.5055706	7.8085642	15:13:54
10	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	15:15:08
11	.0000	1.00	0	4	-0.50	2.10	-1.5055706	5.2896725	15:16:20
12	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	15:17:31
13	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	15:18:43
14	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	15:19:55
15	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	15:21:07
16	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	15:22:18
17	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	15:23:30
18	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	15:24:42
19	.0000	1.00	1	5	0.50	3.10	1.5055706	7.8085642	15:25:53
20	.0000	1.00	1	7	0.50	5.10	1.5055706	12.846348	15:27:05
21	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	15:28:17
22	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	15:29:29
23	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	15:30:40
24	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	15:31:52
25	.0000	1.00	0	5	-0.50	3.10	-1.5055706	7.8085642	15:33:04
26	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	15:34:16
27	.0000	1.00	0	8	-0.50	4.10	-1.5055706	15.365239	15:35:27
28	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	15:36:39
29	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	15:37:51
30	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	15:39:02
31	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	15:40:14
32	.0000	1.00	1	5	0.50	3.10	1.5055706	7.8085642	15:41:26
33	.0000	1.00	1	4	0.50	2.10	1.5055706	5.2896725	15:42:37
34	.0000	1.00	0	1	-0.50	-0.90	-1.5055706	-2.2670025	15:43:49
35	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	15:45:01
36	.0000	1.00	0	3	-0.50	1.10	-1.5055706	2.7707809	15:46:13
37	.0000	1.00	0	2	-0.50	0.10	-1.5055706	.25188917	15:47:24
38	.0000	1.00	0	0	-0.50	-1.90	-1.5055706	-4.7858942	15:48:36
39	.0000	1.00	1	5	0.50	3.10	1.5055706	7.8085642	15:49:48
40	.0000	1.00	1	2	0.50	0.10	1.5055706	.25188917	15:50:59

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
821to823	8/13/98	8/13/98	BEAMS		<20	<100		
824to828			CEILING					
829to835			BEAMS					
836,837			CEILING					
838			SOUTH WALL					
839,840			BEAMS					
841			CEILING					
842,843			NORTH WALL					
844to846			SPRINKLERS AND PIPING					
847,848			LIGHTS AND FIXTURES					
849,850			BEAMS					
851,852			UNISTRUT					
853			CONDUIT					
854to862			CEILING					
863,864			BEAMS					
865to868			CONDUIT					
869,870			SPRINKLERS AND PIPING					
871to873			SOUTH WALL					
874to877			WEST WALL					
878to882	8/13/98	8/13/98	BEAMS		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	1.1		
EFFICIENCY	0.3396	0.3997		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R. G.

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 1 of 7

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
883,884	8/13/98	8/13/98	LIGHTS AND FIXTURES		<20	<100		
885,886			SPRINKLERS AND PIPING					
887			UNISTRUT					
888,889			CEILING					
890to895			LIGHTS AND FIXTURES					
896to900			BEAMS					
901to903			WEST WALL					
904			BEAMS					
905,906			WEST WALL					
907,908			CONDUIT					
909			UNISTRUT					
910to913			WEST WALL					
914to917			BEAMS					
918,919			UNISTRUT					
920,921			SPRINKLERS AND PIPING					
922			CONDUIT					
923to927			CEILING					
928,929			CONDUIT					
930			SPRINKLERS AND PIPING					
931,932	8/13/98	8/13/98	BEAMS		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	1.1		
EFFICIENCY	0.3396	0.3997		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 2 of 7

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
933to936	8/13/98	8/13/98	WEST WALL		<20	<100		
937to940			BEAMS					
941			LIGHTS AND FIXTURES					
942			BEAMS					
943,944			CEILING					
945,946			SPRINKLERS AND PIPING					
947			CONDUIT					
948			UNISTRUT					
949to954			LIGHTS AND FIXTURES					
955,956			CEILING					
957			UNISTRUT					
958,959			SPRINKLERS AND PIPING					
960to964			WEST WALL					
965to969			BEAMS					
970to980	8/13/98	8/13/98	CONDUIT		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	1.1		
EFFICIENCY	0.3396	0.3997		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R.S.

REVIEWED BY: DATE: 11/12/98

See Attachment ☐ Page 3 of 7

FORM 732-A REV 8-97

Rocketdyne Division

DeSoto 104 Gallery
Smears 821-860

THU AUG 13, 1998
GROUP: B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA (CORRECTED)	BETA (CORRECTED)	TOD CLOCK HH:MM:SS
1	.0000	1.00	1	4	-0.50	1.90	-1.4723204	9.757318	06:35:57
2	[illegible]	1.00	1	1	-0.50	-0.10	-1.4723204	-2.4414414	06:37:10
3	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	06:38:20
4	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	06:39:32
5	.0000	1.00	2	5	1.50	3.90	4.4169611	9.757318	06:40:43
6	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	06:41:55
7	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	06:43:07
8	.0000	1.00	1	2	0.50	0.90	1.4723204	2.2514888	06:44:18
9	.0000	1.00	1	5	0.50	3.90	1.4723204	9.757318	06:45:30
10	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	06:46:42
11	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	06:47:53
12	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	06:49:05
13	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	06:50:17
14	.0000	1.00	0	6	-0.50	4.90	-1.4723204	12.259494	06:51:28
15	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	06:52:40
16	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	06:53:52
17	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	06:55:04
18	.0000	1.00	2	5	1.50	3.90	4.4169611	9.757318	06:56:15
19	.0000	1.00	0	2	-0.50	0.90	-1.4723204	4.7535652	06:57:27
20	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	06:58:39
21	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	06:59:50
22	.0000	1.00	0	5	-0.50	3.90	-1.4723204	9.757318	07:01:02
23	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	07:02:14
24	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:03:26
25	.0000	1.00	2	4	1.50	2.90	4.4169611	7.2554416	07:04:37
26	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:05:49
27	.0000	1.00	1	2	0.50	0.90	1.4723204	2.2514888	07:07:01
28	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	07:08:12
29	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	07:09:24
30	.0000	1.00	1	4	0.50	2.90	1.4723204	7.2554416	07:10:36
31	.0000	1.00	2	8	1.50	6.90	4.4169611	17.242947	07:11:47
32	.0000	1.00	1	4	0.50	2.90	1.4723204	7.2554416	07:12:59
33	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:14:11
34	.0000	1.00	1	2	0.50	0.90	1.4723204	2.2514888	07:15:23
35	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	07:16:34
36	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	07:17:46
37	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	07:18:58
38	.0000	1.00	1	4	0.50	2.90	1.4723204	7.2554416	07:20:11
39	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	07:21:21
40	.0000	1.00	1	0	0.50	-1.10	1.4723204	-2.752064	07:22:33

DeSoto 104 Gallery Smears 861-940

[illegible] AUG 13, 1998
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SS
1	.0000	1.00	[illegible]	3	-0.50	1.90	-1.4723204	4.7535652	07:34:[illegible]
2	.0000	1.00	1	5	-0.50	3.90	-1.4723204	9.757316	07:35:47
3	.0000	1.00	1	1	[illegible]	-0.10	1.4723204	-.25018764	07:36:54
4	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:38:04
5	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	07:39:17
6	.0000	1.00	2	0	1.50	-1.10	4.4169611	-2.752064	07:40:29
7	.0000	1.00	1	4	-0.50	2.90	-1.4723204	7.2554416	07:41:41
8	.0000	1.00	2	4	1.50	2.90	4.4169611	7.2554416	07:42:53
9	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:44:04
10	.0000	1.00	1	4	0.50	2.90	1.4723204	7.2554416	07:45:16
11	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	07:46:28
12	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:47:39
13	.0000	1.00	[illegible]	7	-0.50	5.90	-1.4723204	2.2516888	07:48:51
14	.0000	1.00	0	[illegible]	-0.50	-1.10	-1.4723204	-2.752364	07:50:03
15	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:51:15
16	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	07:52:26
17	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	07:53:38
18	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	07:54:51
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.90	[illegible]	[illegible]	[illegible]
20	.0000	1.00	[illegible]	[illegible]	[illegible]	1.90	1.4723204	4.7535652	[illegible]
21	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:57:[illegible]
22	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	07:58:37
23	.0000	1.00	1	4	0.50	2.90	1.4723204	7.2554416	08:00:48
24	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	08:02:00
25	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	08:03:12
26	.0000	1.00	0	[illegible]	-0.50	1.90	-1.4723204	4.7535652	08:04:23
27	.0000	1.00	0	4	-0.50	4.90	-1.4723204	12.259194	08:05:35
28	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	08:06:47
29	.0000	1.00	0	4	-0.50	4.90	-1.4723204	12.259194	08:07:59
30	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	08:09:10
31	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	08:10:22
32	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	08:11:34
33	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	08:12:46
34	.0000	1.00	1	6	0.50	4.90	1.4723204	12.259194	08:13:57
35	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	08:15:09
36	.0000	1.00	0	6	-0.50	4.90	-1.4723204	12.259194	08:16:21
37	.0000	1.00	1	5	0.50	3.90	1.4723204	9.757316	08:17:32
38	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	08:18:44
39	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	08:19:56
40	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	08:21:08

Desoto 104 GALLERY

Smears 904 - 940

AUG 13, 1998

GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HH:MM:SS
1	.0000	1.00	1	2	0.50	0.90	1.4723204	2.2514888	08:34:47
2	.0000	1.00	0	5	-0.50	3.90	-1.4723204	9.757416	08:35:5[illegible]
3	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	08:37:03
4	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	08:38:15
5	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	08:39:27
6	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	08:40:39
7	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	08:41:[illegible]
8	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	08:43:[illegible]
9	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	08:44:14
10	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	08:45:25
11	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	08:46:37
12	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	08:47:49
13	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	08:49:[illegible]
14	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	08:50:[illegible]
15	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	08:51:24
16	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	08:52:36
17	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	08:53:47
18	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	08:54:59
19	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	08:56:[illegible]
20	.0000	1.00	0	[illegible]	-0.50	-1.10	-1.4723204	-2.752064	08:57:[illegible]
21	.0000	1.00	0	0	-0.50	-1.10	-1.4723204	-2.752064	08:58:34
22	.0000	1.00	1	0	0.50	-1.10	1.4723204	-2.752064	08:59:46
23	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	09:00:58
24	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	09:02:[illegible]
25	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	09:03:21
26	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	09:04:3[illegible]
27	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	09:05:45
28	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	09:06:56
29	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	09:08:08
30	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	09:09:20
31	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	09:10:32
32	.0000	1.00	1	4	0.50	2.90	1.4723204	7.2554416	09:11:4[illegible]
33	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	09:12:55
34	.0000	1.00	1	6	0.50	4.90	1.4723204	12.259194	09:14:07
35	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	09:15:19
36	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	09:16:31
37	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2514888	09:17:43
38	.0000	1.00	1	4	0.50	2.90	1.4723204	7.2554416	09:18:57
39	.0000	1.00	1	8	0.50	6.90	1.4723204	17.262947	09:20:08
40	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	09:21:2[illegible]

Desoto 104 Gallery Smears 941-980

THU AUG 13, 1998
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOSE HH:MM:SS
1	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	10:07:1
2	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	10:08:1
3	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	10:09:2
4	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	10:10:4
5	.0000	1.00	0	5	-0.50	3.90	-1.4723204	9.757318	10:11:5
6	.0000	1.00	0	0	-0.50	-1.10	-1.4723204	-2.752064	10:13:0
7	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	10:14:1
8	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	10:15:1
9	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	10:16:1
10	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	10:17:5
11	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	10:19:0
12	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	10:20:1
13	.0000	1.00	[illegible]	2	-0.50	0.90	-1.4723204	2.2516888	[illegible]
14	.0000	1.00	[illegible]	4	-0.50	2.90	-1.4723204	7.2554416	10:22:1
15	.0000	1.00	[illegible]	1	-0.50	-0.10	-1.4723204	-.25018764	10:23:4
16	.0000	1.00	0	6	-0.50	4.90	-1.4723204	12.259194	10:25:0
17	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	10:26:1
18	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	10:27:2
19	.0000	1.00	[illegible]	3	-0.50	1.90	-1.4723204	4.7535652	10:28:4
20	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	10:29:4
21	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	10:31:[illegible]
22	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	10:32:1
23	.0000	1.00	0	1	-0.50	-0.10	-1.4723204	-.25018764	10:33:2
24	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	10:34:3
25	.0000	1.00	1	1	0.50	-0.10	1.4723204	-.25018764	10:35:4
26	.0000	1.00	0	4	-0.50	2.90	-1.4723204	7.2554416	10:36:5
27	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	10:38:1
28	.0000	1.00	1	2	0.50	0.90	1.4723204	2.2516888	10:39:2
29	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	10:40:3
30	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	10:41:4
31	.0000	1.00	0	3	-0.50	1.90	-1.4723204	4.7535652	10:42:5
32	.0000	1.00	0	0	-0.50	-1.10	-1.4723204	-2.752064	10:44:0
33	.0000	1.00	0	5	-0.50	3.90	-1.4723204	9.757318	10:45:2
34	.0000	1.00	1	3	0.50	1.90	1.4723204	4.7535652	10:46:3
35	.0000	1.00	0	11	-0.50	9.90	-1.4723204	24.768576	10:47:4
36	.0000	1.00	1	6	0.50	4.90	1.4723204	12.259194	10:48:5
37	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	10:50:1
38	.0000	1.00	0	2	-0.50	0.90	-1.4723204	2.2516888	10:51:1
39	.0000	1.00	[illegible]	[illegible]	-0.50	-0.10	-1.4723204	-.25018764	10:52:3
40	.0000	1.00	0	8	-0.50	6.90	-1.4723204	17.262947	10:53:4

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
981	8/13/98	8/14/98	CONDUIT		<20	<100		
982,983			SPRINKLERS AND PIPING					
984to986			BEAMS					
987,988			NORTH WALL					
989			BEAMS					
990,991			BEAM IN SOUTHWEST CORNER					
992			BEAMS					
993			LIGHTS AND FIXTURES					
994,995			BEAMS					
996 to			WEST WALL					
1,001			WEST WALL					
1002 to			BEAM IN SOUTHWEST CORNER					
1,005			BEAM IN SOUTHWEST CORNER					
1,006			CONDUIT					
1,007			WEST WALL					
1008 to			CEILING					
1,010	8/13/98	8/14/98	CEILING		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.2	1.8		
EFFICIENCY	0.3342	0.3988		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R.S.C.

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 1 of 2

FORM 732-A REV 8-9

Rocketdyne Division

DESOTO 10e GALLERY
Smears 981-1010

FRI AUG 14 1998
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.0000	1.00	0	4	-0.20	4.20	-.59844405	[illegible]	07:36:56
2	.0000	1.00	0	0	-0.20	-1.80	-.59844405	-4.5135406	07:38:08
3	.0000	1.00	1	2	0.80	0.20	2.3937762	.50150451	07:39:19
4	.0000	1.00	0	0	-0.20	-1.80	-.59844405	-4.5135406	07:40:31
5	.0000	1.00	1	2	0.80	1.20	2.3937762	3.0090271	07:41:43
6	.0000	1.00	1	0	0.80	-1.80	2.3937762	-4.5135406	07:42:55
7	.0000	1.00	0	3	-0.20	1.20	-.59844405	3.0090271	07:44:06
8	.0000	1.00	1	1	0.80	-0.80	2.3937762	-2.0060181	07:45:18
9	.0000	1.00	0	2	-0.20	0.20	-.59844405	.50150451	07:46:30
10	.0000	1.00	2	2	1.80	0.20	5.3859964	.50150451	07:47:41
11	.0000	1.00	1	4	0.80	2.20	2.3937762	5.5165496	07:48:[illegible]
12	.0000	1.00	0	1	-0.20	-0.80	-.59844405	-2.0060181	07:50:05
13	.0000	1.00	0	2	-0.20	0.20	-.59844405	.50150451	07:51:16
14	.0000	1.00	0	2	-0.20	0.20	-.59844405	.50150451	07:52:28
15	.0000	1.00	0	4	-0.20	2.20	-.59844405	5.5165496	07:53:40
16	.0000	1.00	0	1	-0.20	-0.80	-.59844405	-2.0060181	07:54:52
17	.0000	1.00	0	1	-0.20	-0.80	-.59844405	-2.0060181	07:56:03
18	.0000	1.00	0	3	-0.20	1.20	-.59844405	3.0090271	07:57:15
19	.0000	1.00	0	4	-0.20	2.20	-.59844405	5.5165496	07:58:27
20	.0000	1.00	0	2	-0.20	0.20	-.59844405	.50150451	07:59:39
21	.0000	1.00	0	4	-0.20	2.20	-.59844405	5.5165496	08:00:50
22	.0000	1.00	1	5	0.80	3.20	2.3937762	8.0240722	08:02:02
23	.0000	1.00	0	3	-0.20	1.20	-.59844405	3.0090271	08:03:14
24	.0000	1.00	0	3	-0.20	1.20	-.59844405	3.0090271	08:04:25
25	.0000	1.00	0	4	-0.20	2.20	-.59844405	5.5165496	08:05:37
26	.0000	1.00	1	4	0.80	2.20	2.3937762	5.5165496	08:06:49
27	.0000	1.00	1	4	0.80	2.20	2.3937762	5.5165496	08:08:01
28	.0000	1.00	0	4	-0.20	2.20	-.59844405	5.5165496	08:09:[illegible]
29	.0000	1.00	2	5	1.80	3.20	5.3859964	8.0240722	08:10:24
30	.0000	1.00	0	4	-0.20	2.20	-.59844405	5.5165496	08:11:36

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
1to4	8/3/98	8/3/98	INSIDE VENTILATION DUCT		<20	<100		
5to17			CONDUIT AT FLOOR					
18to21			ELECTIRICAL OUTLETS					
22to27			PIPE ON WEST WALL					
28to45			CONDUIT ON SOUTH WALL					
46to56			ELECTRICAL BOXES ON SOUTH WALL					
57to59			UNISTRUT ON SOUTH AND WEST WALLS					
60			480KV RECEPTICLE					
61			FIRE EXTINGUISHER RACK					
62,63			ELECTRICAL OUTLETS					
64to76			LARGE GAMMA CELL WINDOW SLIDE OPENING					
77to80			SMALL GAMMA CELL WINDOW SLIDE OPENING					
81to89			SLIDE TUBES ON NORTH WALL					
90to123			DOUBLE DOORS AND FRAME ON SOUTH WALL					
124to133			LADDER ON EAST WALL					
134to138			STEEL BEAM IN SOUTHEAST CORNER					
139to144			STEEL BEAM IN SOUTHWEST CORNER					
145			INSET IN WALL AT GAMMA CELL ENTRANCE					
146to181			FLOOR RAILS FOR DOOR TO GAMMA CELL TOP OF TRACK					
182to203	8/3/98	8/3/98	FLOOR RAILS FOR DOOR TO GAMMA CELL INSIDE TRACK		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.3	1.3		
EFFICIENCY	0.3326	0.4028		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: P.R.

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 1 of 9

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GALLERY

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
204to228	8/3/98	8/3/98	NORTH WALL		<20	<100		
229to265			EAST WALL		<20	<100		
266to280	8/3/98	8/3/98	SOUTH WALL		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.3	1.3		
EFFICIENCY	0.3326	0.4028		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: R. [illegible]

REVIEWED BY: [illegible] DATE: 11/2/98

See Attachment ☐ Page 2 of 9

FORM 732-A REV 8-97

Rocketdyne Division

DeSoto 104 Gallery Smears 1-40

MON AUG 03, 1998
PROJ # 0 0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD (HR:MN:SEC)
1	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:03:33
2	.0000	1.00	1	1	0.70	-0.30	.1044302	.74478649	10:04:49
3	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:06:04
4	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:07:08
5	.0000	1.00	1	4	0.70	2.70	2.1044302	6.7030785	10:08:20
6	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:09:31
7	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:10:43
8	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	10:11:54
9	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:13:04
10	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:14:17
11	.0000	1.00	1	4	0.70	2.70	2.1044302	6.7030785	10:15:29
12	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:16:41
13	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	10:17:52
14	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	10:19:04
15	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:20:14
16	.0000	1.00	0	1	-0.30	1.70	-.90198437	4.2204568	10:21:27
17	.0000	1.00	1	3	0.70	1.70	2.1044302	4.2204568	10:22:39
18	.0000	1.00	2	4	1.70	2.70	5.1112447	6.7030785	10:23:50
19	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:25:02
20	.0000	1.00	4	5	3.70	3.70	9.1857001	9.1857001	10:26:13
21	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:27:25
22	.0000	1.00	1	1	0.70	-0.30	2.1044302	-.74478649	10:28:37
23	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-2.2274081	10:29:48
24	.0000	1.00	1	1	0.70	-0.30	2.1044302	-.74478649	10:31:00
25	.0000	1.00	2	5	-0.30	3.70	-.90198437	9.1857001	10:32:11
26	.0000	1.00	1	3	0.70	1.70	2.1044302	4.2204568	10:33:23
27	.0000	1.00	1	5	-0.30	3.70	-.90198437	9.1857001	10:34:35
28	.0000	1.00	2	4	1.70	2.70	5.1112447	6.7030785	10:35:46
29	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:36:58
30	.0000	1.00	0	6	-0.30	4.70	-.90198437	11.668322	10:38:09
31	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:39:21
32	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	10:40:33
33	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	10:41:44
34	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:42:56
35	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1857001	10:44:07
36	.0000	1.00	1	5	0.70	3.70	2.1044302	9.1857001	10:45:19
37	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	10:46:31
38	.0000	1.00	1	1	0.70	-0.30	2.1044302	-.74478649	10:47:42
39	.0000	1.00	1	3	0.70	1.70	2.1044302	4.2204568	10:48:54
40	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	10:50:06

DESOTO 104 GALLERY
SMEARS 41-80

MON AUG 03, 1998
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD FROM 9:MAR:81
1	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	11:01:31
2	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	11:02:43
3	.0000	1.00	1	0	0.70	-1.30	2.1046302	-3.2274081	11:03:54
4	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	11:05:04
5	.0000	1.00	1	5	0.70	3.70	2.1046302	9.1857001	11:06:18
6	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	11:07:29
7	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	11:08:41
8	.0000	1.00	1	5	0.70	3.70	2.1046302	9.1857001	11:09:52
9	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1857001	11:11:04
10	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	11:12:16
11	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	11:13:27
12	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	11:14:39
13	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	11:15:51
14	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	11:17:02
15	.0000	1.00	0	6	-0.30	4.70	-.90198437	11.668322	11:18:14
16	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	11:19:25
17	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	11:20:37
18	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	11:21:49
19	.0000	1.00	0	6	-0.30	4.70	-.90198437	11.668322	11:23:00
20	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	11:24:12
21	.0000	1.00	1	0	0.70	-1.30	2.1046302	-3.2274081	11:25:23
22	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	11:26:35
23	.0000	1.00	2	3	2.70	1.70	8.1139493	4.2204568	11:27:47
24	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	11:28:58
25	.0000	1.00	2	5	1.70	3.70	5.1112447	9.1857001	11:30:10
26	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	11:31:22
27	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	11:32:33
28	.0000	1.00	1	4	0.70	2.70	2.1046302	6.7030785	11:33:45
29	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	11:34:57
30	.0000	1.00	0	7	-0.30	5.70	-.90198437	14.150743	11:36:08
31	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	11:37:20
32	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	11:38:31
33	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	11:39:43
34	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	11:40:55
35	.0000	1.00	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
36	.0000	1.00	[illegible]	3	[illegible]	[illegible]	[illegible]	4.2204568	[illegible]
37	.0000	1.00	[illegible]	4	[illegible]	[illegible]	[illegible]	6.7030785	[illegible]
38	.0000	1.00	1	4	0.70	2.70	2.1046302	6.7030785	11:45:41
39	.0000	1.00	2	3	1.70	1.70	5.1112447	4.2204568	11:46:53
40	.0000	1.00	1	5	0.70	3.70	2.1046302	9.1857001	11:48:04

DeSoto 104 Gallery Smears 81-120

MON AUG 23, 198[illegible]
GROUP R 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD (HR:MN:SE)
1	.0000	1.00	1	4	0.70	2.70	2.1046302	6.7030785	12:10:45
[illegible]	[illegible]	1.00	1	4	-0.30	2.70	-.90198437	6.7030785	12:11:57
2	[illegible]	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:13:09
4	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1857001	12:14:20
5	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:15:32
6	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	12:16:44
7	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	12:17:55
[illegible]	[illegible]	1.00	1	4	0.70	2.70	2.1046302	6.7030785	12:19:07
9	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:20:19
10	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1857001	12:21:30
11	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1857001	12:22:42
12	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:23:54
13	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1857001	12:25:05
14	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:26:17
15	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	12:27:28
16	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	12:28:40
17	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:29:52
18	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	12:31:03
19	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:32:15
20	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:33:27
21	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	12:34:38
22	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:35:50
23	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1857001	12:37:01
24	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:38:13
25	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	12:39:25
26	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:40:34
27	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	12:41:48
28	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	12:43:01
29	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	12:44:11
30	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:45:23
31	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:46:35
32	[illegible]	1.00	1	4	0.70	2.70	2.1046302	6.7030785	12:47:44
33	[illegible]	1.00	1	3	0.70	1.70	2.1046302	4.2204568	12:48:56
34	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:50:11
35	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	12:51:21
36	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:52:33
37	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	12:53:45
38	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:54:54
39	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	12:56:06
40	.0000	1.00	0	1	-0.30	-1.30	-.90198437	-3.2274081	12:57:20

DESOTO 104 GALLERY

SMEARS 121-160

MON AUG 03, 1998

GROUP B 1.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.0000	1.00	1	1	-0.30	-0.30	-.90198437	-3.2274081	12:59:24
2	.0000	1.00	1	5	-0.30	3.70	-.90198437	9.1857001	13:01:37
3	.0000	1.00	2	2	-0.30	1.70	-.90198437	4.2204568	13:02:49
4	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	13:03:02
5	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	13:04:12
6	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	13:05:24
7	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	13:06:36
8	.0000	1.00	2	3	-0.30	1.70	-.90198437	4.2204568	13:07:47
9	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-.74478649	13:08:59
10	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	13:10:10
11	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:11:22
12	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	13:12:34
13	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:13:45
14	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:14:57
15	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:16:08
16	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	13:17:20
17	.0000	1.00	1	4	0.70	2.70	2.1046302	6.7030785	13:18:32
18	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:19:43
19	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:20:55
20	.0000	1.00	0	4	-0.30	4.70	-.90198437	11.668322	13:22:07
21	.0000	1.00	1	4	0.70	2.70	2.1046302	6.7030785	13:23:18
22	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	13:24:30
23	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:25:42
24	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:26:53
25	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	13:28:05
26	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:29:16
27	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:30:28
28	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:31:40
29	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	13:32:51
30	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	13:34:03
31	.0000	1.00	1	4	0.70	2.70	2.1046302	6.7030785	13:35:14
32	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:36:26
33	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	13:37:38
34	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	13:38:50
35	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:40:01
36	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	13:41:13
37	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	13:42:24
38	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	13:43:36
39	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	13:44:48
40	.0000	1.00	2	5	1.70	3.70	5.1112447	9.1857001	13:46:00

DESOTO 104 GALLERY
SMEARS 161-200

MON AUG 03, 1998
SHOP # 0.0000

SAMPLE SN	TYPE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD HR:MN:SEC
1	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:47:19
2	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:48:31
3	.0000	1.00	1	4	0.70	3.70	2.1044302	7.1857801	13:49:42
4	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:50:54
5	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:52:06
6	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:53:17
7	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:54:29
8	.0000	1.00	0	1	-0.30	-1.30	-.90198437	-3.2274081	13:55:40
9	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	13:56:52
10	.0000	1.00	1	4	0.70	2.70	2.1044302	6.7030785	13:58:04
11	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	13:59:15
12	.0000	1.00	1	4	0.70	2.70	2.1044302	6.7030785	14:00:27
13	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:01:39
14	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	14:02:50
15	.0000	1.00	1	1	0.70	-0.30	2.1044302	-.74478649	14:04:02
16	.0000	1.00	0	5	-0.30	3.70	-.90198437	7.1857801	14:05:14
17	.0000	1.00	1	4	0.70	2.70	2.1044302	6.7030785	14:06:25
18	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:07:37
19	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:08:48
20	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:1[illegible]
21	.0000	1.00	0	5	-0.30	3.70	-.90198437	7.1857801	14:11:12
22	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:12:23
23	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:13:35
24	.0000	1.00	1	1	0.70	-0.30	2.1044302	-.74478649	14:14:47
25	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:15:58
26	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:17:10
27	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:18:22
28	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:19:33
29	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:20:45
30	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:21:57
31	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	14:23:08
32	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:24:20
33	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	14:25:32
34	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:26:43
35	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:27:55
36	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:29:07
37	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:30:18
38	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:31:[illegible]
39	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:32:41
40	.0000	1.00	0	5	-0.30	3.70	-.90198437	7.1857801	14:33:53

DeSoto 104 Gallery Smears 201-240

MON APR 28, 1998
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SE
1	.0000	1.00	[illegible]	4	[illegible]	2.70	-.90198437	[illegible]	[illegible]
2	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	14:36:24
3	.0000	1.00	1	6	0.70	4.70	2.1046302	11.668322	14:37:34
4	.0000	1.00	2	2	1.70	0.70	5.1112447	1.7378352	14:38:46
5	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:39:59
6	.0000	1.00	[illegible]	[illegible]	[illegible]	[illegible]	-.90198437	-.74478649	14:41:11
7	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:42:23
8	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1657001	14:43:34
9	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	14:44:46
10	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	14:45:57
11	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	14:47:09
12	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:48:21
13	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	14:49:32
14	.0000	1.00	1	6	-0.30	4.70	-.90198437	11.668322	14:50:44
15	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:51:56
16	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:53:07
17	.0000	1.00	0	6	-0.30	4.70	-.90198437	11.668322	14:54:19
18	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	14:55:31
19	.0000	1.00	[illegible]	[illegible]	[illegible]	1.70	-.90198437	4.2204568	14:56:42
20	.0000	1.00	0	5	-0.30	3.70	-.90198437	9.1657001	14:57:54
21	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	14:59:06
22	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:00:17
23	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	15:01:29
24	.0000	1.00	[illegible]	3	-0.30	1.70	-.90198437	4.2204568	15:02:40
25	.0000	1.00	0	[illegible]	-0.30	1.70	-.90198437	4.2204568	15:03:52
26	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:05:04
27	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	15:06:15
28	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	15:07:27
29	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	15:08:39
30	.0000	1.00	2	[illegible]	1.70	-0.30	5.1112447	-.74478649	15:09:50
31	.0000	1.00	[illegible]	[illegible]	[illegible]	1.70	2.1046302	4.2204568	15:11:02
32	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	15:12:14
33	.0000	1.00	0	6	-0.30	4.70	-.90198437	11.668322	15:13:25
34	.0000	1.00	0	8	-0.30	6.70	-.90198437	16.633565	15:14:37
35	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	15:15:48
36	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:17:00
37	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:18:12
38	.0000	1.00	0	6	-0.30	4.70	-.90198437	11.668322	15:19:23
39	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	15:20:35
40	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	15:21:47

DeSoto 104 Gallery

MON AUG 03, 1998
GROUP 9 0.0000 **Smears 241-280**

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD FROM MIDNIGHT
1	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	15:25:04
2	.0000	1.00	1	1	0.70	-0.30	2.1046302	-.74478649	15:26:17
3	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	15:27:29
4	.0000	1.00	2	3	1.70	1.70	5.1112447	4.2204568	15:28:41
5	.0000	1.00	1	4	0.70	2.70	2.1046302	6.7030785	15:29:54
6	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:31:06
7	.0000	1.00	1	0	0.70	-1.30	2.1046302	-3.2274081	15:32:18
8	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	15:33:27
9	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	15:34:39
10	.0000	1.00	2	2	1.70	0.70	5.1112447	1.7378352	15:35:51
11	.0000	1.00	0	[illegible]	[illegible]	[illegible]	[illegible]	-.74478649	15:37:03
12	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	15:38:14
13	.0000	1.00	2	3	1.70	1.70	5.1112447	4.2204568	15:39:25
14	.0000	1.00	1	0	0.70	-1.30	2.1046302	-3.2274081	15:40:37
15	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	15:41:49
16	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	15:43:00
17	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:44:12
18	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	15:45:23
19	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	15:46:35
20	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:47:4[illegible]
21	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	15:48:58
22	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:50:11
23	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	15:51:2[illegible]
24	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	15:52:[illegible]
25	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	15:53:45
26	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	15:54:57
27	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	15:56:0[illegible]
28	.0000	1.00	0	7	-0.30	5.70	-.90198437	14.150943	15:57:2[illegible]
29	.0000	1.00	2	3	1.70	1.70	5.1112447	4.2204568	15:58:3[illegible]
30	.0000	1.00	1	2	0.70	0.70	2.1046302	1.7378352	15:59:4[illegible]
31	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	16:00:5[illegible]
32	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	16:02:0[illegible]
33	.0000	1.00	1	4	0.70	4.70	2.1046302	11.668322	16:03:1[illegible]
34	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	16:04:3[illegible]
35	.0000	1.00	0	0	-0.30	-1.30	-.90198437	-3.2274081	16:05:4[illegible]
36	.0000	1.00	0	4	-0.30	2.70	-.90198437	6.7030785	16:06:5[illegible]
37	.0000	1.00	1	3	0.70	1.70	2.1046302	4.2204568	16:08:0[illegible]
38	.0000	1.00	0	3	-0.30	1.70	-.90198437	4.2204568	16:09:1[illegible]
39	.0000	1.00	0	1	-0.30	-0.30	-.90198437	-.74478649	16:10:2[illegible]
40	.0000	1.00	0	2	-0.30	0.70	-.90198437	1.7378352	16:11:3[illegible]

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GAMMA CELL

SAMPLE NUMBER	DATE ANALYZED	DATE ANALYZED	PURPOSE: DIRECT FRISK OF ALL SURFACES / DESCRIPTION	UNITS / LIMIT	β cpm direct frisk / NDA	α cpm direct frisk / NDA		
		8/4/98	ENTRY AREA WHERE SHIELD PLUG ON RAILS WAS USED TO		NDA	NDA		
			INCLUDE ALL WALLS, CEILINGS, FLOORS, RAILS AND RAIL					
			SLOTS IN THE FLOOR					
		8/4/98	ALL CONDUIT OPENINGS ON THE FLOOR AREAS		NDA	NDA		
	8/4/98	thru	FLOOR		NDA	NDA		
		8/5/98						
		8/5/98	VENTILATION DUCTING LOCATED LOWER EAST WALL		NDA	NDA		
	8/5/98	and	EAST WALL		NDA	NDA		
		8/10/98						
	8/5/98	and	NORTH WALL		NDA	NDA		
		8/11/98						
	8/6/98	and	WEST WALL		NDA	NDA		
		8/10/98						
	8/6/98	and	SOUTH WALL		NDA	NDA		
		8/11/98						
		8/6/98	SMALL SLIDE WINDOW SOUTH WALL		NDA	NDA		
		8/6/98	LARGE SLIDE WINDOW SOUTH WALL		NDA	NDA		
		8/7/98	ALL LARGE AND SMALL THROUGH TUBE HOLES		NDA	NDA		
	8/7/98	and	ALL PIPES		NDA	NDA		
		8/11/98						

COMMENTS:

Direct Beta Frisk

Background Range:60 to 80 cpm

NDA= lowest background + 100cpm Beta

INSTRUMENT	Ludlum 3	Ludlum 12
IDENTIFICATION	EXO40902	NO381556
CALIBRATION DUE	10/30/98	9/25/98
BACKGROUND	60to80 cpm	0to1 cpm
EFFICIENCY	13.10%	14%
COUNT TIME	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: R. [illegible]

REVIEWED BY: [illegible] DATE: 11/2/98

See Attachment ☐ Page 1 of 2

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GAMMA CELL

SAMPLE NUMBER	DATE ANALYZED	DATE ANALYZED	PURPOSE: DIRECT FRISK OF ALL SURFACES / DESCRIPTION	UNITS / LIMIT	β cpm direct frisk / NDA	α cpm direct frisk / NDA		
		8/10/98	SMALL DUCT UPPER SOUTH WALL CENTER		NDA	NDA		
	8/10/98	and	CEILING AREA					
		8/11/98						
	8/10/98	and	CRANE TROLLEY AND ASSOCIALTED SUPPORT BEAMS		NDA	NDA		
		8/11/98						
		8/11/98	SPRINKLERS		NDA	NDA		

COMMENTS:

Direct Beta Frisk

Background Range:60 to 80 cpm

NDA= lowest background + 100cpm Beta

INSTRUMENT	Ludlum 3	Ludlum 12		
IDENTIFICATION	EXO40902	NO381556		
CALIBRATION DUE	10/30/98	9/25/98		
BACKGROUND	60to80 cpm	0to1 cpm		
EFFICIENCY	13.10%	14%		
COUNT TIME	NA	NA		

SAMPLED RICHARD GARRETT ANALYZED BY: R.S.

REVIEWED BY: DATE: 11/2/98

See Attachment ☐ Page 2 of 2

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GAMMA CELL

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SAMPLES / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
1to20	8/7/98	8/7/98	PAINT AND DEBRIS SAMPLES FROM VARIOUS LOCATIONS IN		<20	<100		
			THE GAMMA CELL TO INCLUDE WALLS, FLOOR, CEILING					
			AND OTHER AREAS.					

COMMENTS: NOTE: THESE ARE SCRAPINGS OF PAINT AND OTHER DEBRIS FROM INSIDE THE GAMMA CELL.

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.5	2		
EFFICIENCY	0.3337	0.3964		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 1 of 2

FORM 732-A REV 8-97

Rocketdyne Division

DESOTO 104 GAMMA CELL
PAINT CHIPS 1-20

[illegible] AUG 07, 1998
GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOC PR:MN:SE
41	.0000	1.00	0	0	-0.50	0	-1.4983518	0	14:41:1[illegible]
42	.0000	1.00	0	3	-0.50	1.00	-1.4983518	2.5227043	14:42:29
43	.0000	1.00	0	2	-0.50	0	-1.4983518	0	14:43:41
44	.0000	1.00	0	3	-0.50	1.00	-1.4983518	2.5227043	14:44:52
45	.0000	1.00	0	6	-0.50	4.00	-1.4983518	10.090817	14:46:04
46	.0000	1.00	0	3	-0.50	1.00	-1.4983518	2.5227043	14:47:1[illegible]
47	.0000	1.00	0	5	-0.50	6.00	-1.4983518	15.136226	14:48:27
48	.0000	1.00	0	4	-0.50	2.00	-1.4983518	5.0454087	14:49:39
44	.0000	1.00	2	2	1.50	0	4.4950554	0	14:50:50
45	.0000	1.00	0	5	-0.50	3.00	-1.4983518	7.568113	14:52:02
65	.0000	1.00	0	1	-0.50	-1.00	-1.4983518	-2.5227043	14:53:14
66	.0000	1.00	0	3	-0.50	1.00	-1.4983518	2.5227043	14:54:25
67	.0000	1.00	0	6	-0.50	6.00	-1.4983518	15.136226	14:55:37
69	.0000	1.00	0	5	-0.50	3.00	-1.4983518	7.568113	14:56:49
70	.0000	1.00	0	3	-0.50	1.00	-1.4983518	2.5227043	14:58:00
71	.0000	1.00	0	0	-0.50	-2.00	-1.4983518	-5.0454087	14:59:12
72	.0000	1.00	1	5	0.50	3.00	1.4983518	7.568113	15:00:23
73	.0000	1.00	1	5	0.50	3.00	1.4983518	7.568113	15:01:35
74	.0000	1.00	1	5	0.50	3.00	1.4983518	7.568113	15:02:47
75	.0000	1.00	0	7	-0.50	5.00	-1.4983518	12.613522	15:03:58

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Building 104

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: GAMMA CELL / DESCRIPTION	UNITS / LIMIT	αdpm/100cm2 / 20	βdpm/100cm2 / 100		
1	6/22/98	6/22/98	FLOOR RAILS		<20	<100		
2,3			FLOOR					
4			FLOOR RAILS					
5			FLOOR					
6to9			INSIDE FLOOR RAILS					
10to12			FLOOR					
13,14			FLOOR RAILS					
15,16			INSIDE FLOOR RAILS					
17			LEDGE					
18			FLOOR					
19			LEDGE					
20			FLOOR RAILS					
21			FLOOR					
22			LEDGE					
23,24			INSIDE FLOOR RAILS					
25,26			FLOOR					
27			LEDGE					
28to39			FLOOR					
40	6/22/98	6/22/98	CONDUIT		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec
IDENTIFICATION	NO100394	NO100394
CALIBRATION DUE	DAILY	DAILY
BACKGROUND	0.3	2.3
EFFICIENCY	0.3297	0.3993
COUNT TIME	1MIN	1MIN
See Attachment ☐		

SAMPLED BY: ANALYZED BY: R.F.

REVIEWED BY: DATE: 11/2/98

FORM 732-A REV 8-9

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Building 104

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: GAMMA CELL / DESCRIPTION	UNITS / LIMIT	αdpm/100cm2 / 20	βdpm/100cm2 / 100		
41,42	6/22/98	6/22/98	FLOOR		<20	<100		
43			CONDUIT					
44			BOTTOM OF THE VENTILATION DUCT					
45to82			FLOOR					
83			CONDUIT					
84			FLOOR					
85,86			CONDUIT					
87to98			FLOOR					
99			CONDUIT					
100			CONDUIT					
101to108			FLOOR					
109,110			CONDUIT					
111to113			FLOOR					
114,115			CONDUIT					
116			INSIDE FLOOR DRAIN COVER					
117to145			LARGE GAMMA CELL WINDOW SLIDE AREA					
146to169	6/22/98	6/22/98	SMALL GAMMA CELL WINDOW SLIDE AREA		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	DAILY	DAILY		
BACKGROUND	0.3	2.3		
EFFICIENCY	0.3297	0.3993		
COUNT TIME	1MIN	1MIN		
See Attachment ☐				

SAMPLED BY: ANALYZED BY: R.G.

REVIEWED BY: DATE: 11/2/98

FORM 732-A REV 8-97

Rocketdyne Division

104 DESOTO GAMMA CELL
SMEARS 1-40

JUN 22, 1996
BKG .3926

SAMPLE IN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.3965	1.00	0	3	-0.30	-1.30	-.90991811	-2.7513148	09:40:27
2	.3965	1.00	0	4	-0.30	0.70	-.90991811	1.7530679	09:41:38
3	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-2.7513148	09:42:50
4	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	09:44:01
5	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	09:45:13
6	.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	09:46:25
7	.3965	1.00	1	7	0.70	4.70	2.1231423	11.770599	09:47:36
8	.3965	1.00	0	1	-0.30	-2.30	-.90991811	-5.7600801	09:48:48
9	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	09:50:00
0	.3965	1.00	1	9	0.70	6.70	2.1231423	16.779364	09:51:11
1	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	09:52:23
2	.3965	1.00	0	0	-0.30	-2.30	-.90991811	-5.7600801	09:53:34
3	.3965	1.00	2	3	1.70	2.70	3.1542024	4.7618332	09:54:46
4	.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	09:55:58
5	.3965	1.00	0	1	-0.30	-2.30	-.90991811	-5.7600801	09:57:09
6	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	09:58:21
7	.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	09:59:32
8	.3965	1.00	1	0	0.70	-2.30	2.1231423	-5.7600801	10:00:44
9	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-2.7513148	10:01:54
0	.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	10:03:07
1	.3965	1.00	2	4	1.70	1.70	3.1542024	4.2574505	10:04:19
2	.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	10:05:31
3	.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	10:06:42
4	.3965	1.00	1	7	0.70	4.70	2.1231423	11.770599	10:07:54
5	[illegible]	1.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	.3965	1.00	1	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	.3965	1.00	[illegible]	[illegible]	[illegible]	-1.30	[illegible]	[illegible]	[illegible]
8	.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	10:12:40
9	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	10:13:52
0	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	10:15:03
1	.3965	1.00	1	7	0.70	4.70	2.1231423	11.770599	10:16:15
2	.3965	1.00	1	2	0.70	-0.30	2.1231423	[illegible]	[illegible]
3	.3965	1.00	2	4	1.70	1.70	3.1542024	4.2574505	10:18:38
4	.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	10:19:50
5	.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	10:21:02
6	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	10:22:13
7	.3965	1.00	1	5	0.70	2.70	2.1231423	4.7618332	10:23:25
8	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	10:24:36
9	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	10:25:48
0	.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	10:27:00

104 DESOTO GAMMA CELL

JUN 22, 1998 SMEARS 41-80

8 3926

SAMPLE N	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	10:37:31
2	.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	10:38:42
3	.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	10:39:54
4	.3965	1.00	4	3	3.70	0.70	11.222323	1.7530679	10:41:06
5	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	10:42:17
6	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	10:43:29
7	.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	10:44:41
8	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	10:45:52
9	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	10:47:04
10	.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	10:48:15
11	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	10:49:27
12	.3965	1.00	2	4	1.70	3.70	5.1562026	9.2662159	10:50:39
13	.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	10:51:50
14	.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	10:53:02
15	.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	10:54:14
16	.3965	1.00	1	7	0.70	4.70	2.1231423	11.770599	10:55:25
17	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	10:56:37
18	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	10:57:48
19	.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	10:59:00
20	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	11:00:12
21	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	11:01:23
22	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	11:02:35
23	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	11:03:46
24	.3965	1.00	1	5	0.70	2.70	2.1231423	6.7618332	11:04:58
25	.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	11:06:10
26	.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	11:07:21
27	.3965	1.00	0	0	-0.30	-2.30	-.90991811	-5.7600801	11:08:33
28	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	11:09:44
29	.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	11:10:56
30	.3965	1.00	1	6	0.70	3.70	2.1231423	9.2662159	11:12:08
31	.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	11:13:19
32	.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	11:14:31
33	.3965	1.00	0	6	-0.30	3.70	-.90991811	9.2662159	11:15:42
34	.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	11:16:54
35	.3965	1.00	2	7	1.70	4.70	5.1562026	11.770599	11:18:06
36	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	11:19:17
37	.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	11:20:29
38	.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	11:21:41
39	.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	11:22:52
40	.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	11:24:04

104 DESOTO GAMMA CELL
SMEARS 81-120

JUN 22, 1998
5 .3926

SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	11:58:59
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	12:00:10
.3965	1.00	2	1	1.70	-1.30	5.1562026	-3.2556975	12:01:22
.3965	1.00	0	6	-0.30	3.70	-.90991811	9.2662159	12:02:34
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:03:45
.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	12:04:57
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:06:08
.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	12:07:20
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	12:08:31
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:09:43
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:10:55
.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	12:12:06
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	12:13:18
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:14:29
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	12:15:41
.3965	1.00	1	4	0.70	1.70	2.1231423	4.2574505	12:16:52
.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	12:18:04
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:19:16
.3965	1.00	1	7	0.70	4.70	2.1231423	11.770599	12:20:27
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	12:21:39
.3965	1.00	2	3	1.70	0.70	5.1562026	1.7530679	12:22:50
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	12:24:02
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:25:13
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	12:26:25
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	12:27:37
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:28:48
.3965	1.00	2	1	1.70	-1.30	5.1562026	-3.2556975	12:30:00
.3965	1.00	0	6	-0.30	3.70	-.90991811	9.2662159	12:31:11
.3965	1.00	2	4	1.70	1.70	5.1562026	4.2574505	12:32:23
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	12:33:35
.3965	1.00	1	4	0.70	1.70	2.1231423	4.2574505	12:34:46
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	12:35:58
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	12:37:09
.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	12:38:21
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	12:39:33
.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	12:40:44
.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	12:41:56
.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	12:43:08
.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	12:44:19
.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	12:45:31

104 DESOTO GAMMA CELL
SMEARS 121-160

JUN 22, 1998
3926

SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	13:08:27
.3965	1.00	1	0	0.70	-2.30	2.1231423	-5.7600801	13:09:33
.3965	1.00	2	5	1.70	2.70	5.1562026	6.7618332	13:10:45
.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	13:11:56
.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	13:13:08
.3965	1.00	0	4	-0.30	3.70	-.90991811	9.2662159	13:14:19
.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	13:15:31
.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	13:16:43
.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	13:17:54
.3965	1.00	0	0	-0.30	-2.30	-.90991811	-5.7600801	13:19:06
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:20:17
.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	13:21:29
.3965	1.00	0	5	-0.30	2.70	-.90991811	6.7618332	13:22:40
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:23:52
.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	13:25:04
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	13:26:15
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	13:27:27
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:28:38
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:29:50
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:31:02
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	13:32:14
.3965	1.00	1	4	0.70	1.70	2.1231423	4.2574505	13:33:25
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	13:34:37
.3965	1.00	1	3	0.70	0.70	2.1231423	1.7530679	13:35:48
.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	13:37:00
.3965	1.00	2	6	1.70	5.70	5.1562026	14.274981	13:38:11
.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	13:39:23
.3965	1.00	1	6	0.70	3.70	2.1231423	9.2662159	13:40:35
.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	13:41:46
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	13:42:58
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:44:09
.3965	1.00	0	0	-0.30	-2.30	-.90991811	-5.7600801	13:45:21
.3965	1.00	1	1	0.70	-1.30	2.1231423	-3.2556975	13:46:33
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	13:47:44
.3965	1.00	1	0	0.70	-2.30	2.1231423	-5.7600801	13:48:56
.3965	1.00	1	2	0.70	-0.30	2.1231423	-0.7513148	13:50:07
.3965	1.00	1	4	0.70	1.70	2.1231423	4.2574505	13:51:19
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:52:31
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	13:53:42
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	13:54:54

104 DESOTO GAMMA CELL
SMEARS 161-169

JUN 22, 1998
B .3926

SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	13:59:59
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	14:01:10
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	14:02:22
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	14:03:34
.3965	1.00	0	1	-0.30	-1.30	-.90991811	-3.2556975	14:04:45
.3965	1.00	2	1	1.70	-1.30	5.1562026	-3.2556975	14:05:57
.3965	1.00	0	3	-0.30	0.70	-.90991811	1.7530679	14:07:08
.3965	1.00	0	2	-0.30	-0.30	-.90991811	-0.7513148	14:08:20
.3965	1.00	0	4	-0.30	1.70	-.90991811	4.2574505	14:09:32

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GAMMA CELL

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
170to181	7/30/98	7/30/98	SOUTH WALL		<20	<100		
182to184			SLIDE HOLES					
185to196			SOUTH WALL					
197			SLIDE HOLES					
198			SOUTH WALL					
199			SLIDE HOLES					
200to206			SOUTH WALL					
207,208			SLIDE HOLES					
209to229			SOUTH WALL					
230to232			WEST WALL					
233			PIPE					
234to240			WEST WALL					
241			SLIDE HOLES					
242to245			WEST WALL					
246			PIPE					
247to255			WEST WALL					
256			SLIDE HOLES					
257			PIPE					
258to261			WEST WALL					
262,263	7/30/98	7/30/98	PIPE		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.4	1.5		
EFFICIENCY	0.333	0.3928		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 1 of 9

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GAMMA CELL

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
264to284	7/30/98	7/30/98	WEST WALL		<20	<100		
285			PIPE					
286			WEST WALL					
287to291			NORTH WALL					
292			PIPE					
293to332			NORTH WALL					
333to347			EAST WALL					
348to356			VENTILATION DUCT					
357to383			EAST WALL					
384			SOUTH WALL					
385			CRANE BEAM ATTACHED TO WALL					
386,387			SOUTH WALL					
388,389			CRANE SUPPORT BEAM					
390to432	7/30/98	7/30/98	SHIELD PLUG AREA ENTRANCE TO GAMMA CELL ALL AREAS		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.4	1.5		
EFFICIENCY	0.333	0.3928		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 2 of 9

FORM 732-A REV 8-97

Rocketdyne Division

104 Desoto Gamma Cell
Smears 170-210 41 Total

THU JUL 30, 1998
GROUP 9 3499

SAMPLE SN	CODE	TIME (MIN)	Δ_BKG COUNTS	BETA COUNTS	Δ_E-A CPM	BETA CPM	Δ_E-A CORRECTED	BETA CORRECTED	TOD (HH:MM:SS)
1	.3978	1.00	3	4	2.40	2.50	7.8078078	6.3645621	08:10:33
2	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	08:11:45
3	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	08:12:56
4	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	08:14:08
5	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	08:15:19
6	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	08:16:31
7	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	08:17:42
8	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	08:18:54
9	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	08:20:06
10	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	08:21:17
11	.3978	1.00	1	[illegible]	0.60	6.50	1.8018018	14.002037	08:22:29
12	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	08:23:40
13	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	08:24:52
14	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	08:26:03
15	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	08:27:15
16	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	08:28:26
17	.3978	1.00	1	4	0.60	2.50	1.8018018	6.3645621	08:29:38
18	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	08:30:49
19	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	08:32:01
20	.3978	1.00	1	4	0.60	2.50	1.8018018	6.3645621	08:33:12
21	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	08:34:24
22	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	08:35:35
23	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	08:36:47
24	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	08:37:58
25	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	08:39:10
26	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	08:40:21
27	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	08:41:33
28	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	08:42:44
29	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	08:43:56
30	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	08:45:07
31	.3978	1.00	1	5	0.60	3.50	1.8018018	8.910387	08:46:19
32	.3978	1.00	2	4	1.40	2.50	4.8048048	6.3645621	08:47:31
33	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	08:48:42
34	.3978	1.00	0	7	-0.40	5.50	-1.2012012	14.002037	08:49:54
35	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	08:51:05
36	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	08:52:17
37	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	08:53:28
38	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	08:54:40
39	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	08:55:51
40	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	08:57:[illegible]
41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

~~RSA ENTRY FROM~~ RPC 7/30/98 COUNT THIS LINE, line out is an error RSG

104 DeSoto Gamma Cell

THU JUL 30, 1998 Smears 211-~~260~~ 250 40 TOTAL

GROUP B .3872

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.3978	1.00	1	1	0.40	-1.50	1.8018018	-3.8187373	09:01:21
2	.3978	1.00	1	3	0.40	1.50	1.8018018	3.8187373	09:02:33
3	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:03:44
4	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	09:04:56
5	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	09:06:07
6	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	09:07:19
7	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	09:08:30
8	.3978	1.00	1	3	0.40	1.50	1.8018018	3.8187373	09:09:42
9	.3978	1.00	1	5	0.60	3.50	1.8018018	8.910387	09:10:53
10	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:12:05
11	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	09:13:16
12	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:14:28
13	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:15:39
14	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	09:16:51
15	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:18:02
16	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:19:14
17	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	09:20:26
18	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	09:21:37
19	.3978	1.00	0	7	-0.40	5.50	-1.2012012	14.002037	09:22:49
20	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:24:00
21	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:25:12
22	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:26:23
23	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	09:27:35
24	.3978	1.00	1	7	0.40	7.50	1.8018018	19.093686	09:28:46
25	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:29:58
26	.3978	1.00	1	4	0.40	2.50	1.8018018	6.3645621	09:31:09
27	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	09:32:21
28	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:33:32
29	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	09:34:44
30	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:35:55
31	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	09:37:07
32	.3978	1.00	1	5	0.40	3.50	1.8018018	8.910387	09:38:18
33	.3978	1.00	0	7	-0.40	5.50	-1.2012012	14.002037	09:39:30
34	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	09:40:41
35	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:41:53
36	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:43:04
37	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:44:16
38	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	09:45:27
39	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:46:39
40	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:47:51

104 DESOTO GAMMA CELL

THU JUL 30, 1998

GROUP 8 .3892

Smears ~~261-300~~ 286 251-290

40 TOTAL

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:51:31
2	.3978	1.00	0	4	-0.40	2.50	-1.2012012	4.3645621	09:52:43
3	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:53:54
4	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	09:55:06
5	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	09:56:17
6	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	09:57:29
7	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	09:58:40
8	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	09:59:52
9	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	10:01:03
10	.3978	1.00	0	4	-0.40	2.50	-1.2012012	4.3645621	10:02:15
11	.3978	1.00	1	4	0.60	2.50	1.8018018	4.3645621	10:03:27
12	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	10:04:38
13	.3978	1.00	0	4	-0.40	2.50	-1.2012012	4.3645621	10:05:50
14	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	10:07:01
15	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	10:08:12
16	.3978	1.00	0	4	-0.40	2.50	-1.2012012	4.3645621	10:09:24
17	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	10:10:36
18	.3978	1.00	0	4	-0.40	2.50	-1.2012012	4.3645621	10:11:48
19	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	10:12:59
20	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	10:14:11
21	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	10:15:22
22	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	10:16:34
23	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	10:17:45
24	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	10:18:57
25	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	10:20:08
26	.3978	1.00	0	4	-0.40	2.50	-1.2012012	4.3645621	10:21:20
27	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	10:22:32
28	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	10:23:43
29	.3978	1.00	0	8	-0.40	6.50	-1.2012012	16.547862	10:24:55
30	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	10:26:06
31	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	10:27:18
32	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	10:28:29
33	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	10:29:41
34	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	10:30:53
35	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	10:32:04
37	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	10:33:16
38	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	10:34:27
39	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	10:35:39
40	.3978	1.00	1	4	0.60	2.50	1.8018018	4.3645621	10:36:51
37	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	10:38:02

104 DESOTO GAMMA CELL

THU JUL 30, 1998

GROUP B .3892

Smears ~~301-340~~ 291-330 ~~128~~ 40 TOTAL

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SC
1	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	10:48:07
2	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	10:49:19
3	.3978	1.00	0	4	-0.40	4.50	-1.2012012	11.456212	10:50:31
4	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	10:51:42
5	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	10:52:54
6	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	10:54:05
7	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	10:55:17
8	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	10:56:28
9	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	10:57:40
10	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	10:58:51
11	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	11:00:03
12	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:01:15
13	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:02:26
14	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	11:03:38
15	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:04:49
16	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	11:06:01
17	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:07:12
18	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:08:24
19	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	11:09:35
20	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	11:10:47
21	.3978	1.00	0	3	-0.40	3.50	-1.2012012	8.910387	11:11:59
22	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	11:13:10
23	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	11:14:22
24	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:15:33
25	.3978	1.00	1	5	0.60	3.50	1.8018018	8.910387	11:16:45
26	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	11:17:57
27	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	11:19:08
28	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	11:20:20
29	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	11:21:31
30	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	11:22:43
31	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:23:54
32	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:25:06
33	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	11:26:18
34	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	11:27:29
35	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	11:28:41
37	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	11:29:52
36	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	11:31:04
38	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	11:32:15
40	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	11:33:27
39	.3978	1.00	1	6	0.60	4.50	1.8018018	11.456212	11:34:39

104 DeSoto Gamma Cell

THU JUL 30, 1998

GROUP B .3892

Smears ~~341-380~~ 331-370 40 TOTAL

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD (HR:MN:SS)
1	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	13:16:28
2	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	13:17:40
3	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:18:51
4	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	13:20:03
5	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	13:21:15
6	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	13:22:26
7	.3978	1.00	1	4	0.60	2.50	1.8018018	6.3645621	13:23:38
8	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	13:24:49
9	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	13:26:01
10	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	13:27:13
11	.3978	1.00	1	4	0.60	2.50	1.8018018	6.3645621	13:28:24
12	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	13:29:36
13	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:30:47
14	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	13:31:59
15	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	13:33:11
16	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	13:34:22
17	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	13:35:34
18	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:36:45
19	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	13:37:57
20	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	13:39:09
21	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	13:40:20
22	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:41:32
23	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:42:43
24	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	13:43:55
25	.3978	1.00	1	5	0.60	3.50	1.8018018	8.910387	13:45:07
26	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:46:18
27	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	13:47:30
28	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:48:41
29	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	13:49:53
30	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	13:51:05
31	.3978	1.00	2	2	1.60	0.50	4.8048048	1.2729124	13:52:16
32	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	13:53:28
33	.3978	1.00	1	4	0.60	2.50	1.8018018	6.3645621	13:54:40
34	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	13:55:51
35	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	13:57:03
37	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	13:58:14
36	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	13:59:26
38	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	14:00:38
39	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:01:49
40	.3978	1.00	1	5	0.60	3.50	1.8018018	8.910387	14:03:01

104 DeSoto Gamma Cell

Smears 371-410

40 Total

GROUP B .3892

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA (CORRECTED)	BETA (CORRECTED)	TOD CLOCK HR:MN:SEC
1	.3978	1.00	1	3	0.40	1.50	1.8018018	3.8187373	14:17:40
2	.3978	1.00	2	4	1.40	2.50	4.0040040	6.3645621	14:18:52
3	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:20:03
4	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	14:21:15
5	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	14:22:26
6	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:23:38
7	.3978	1.00	1	2	0.40	0.50	1.8018018	1.2729124	14:24:51
8	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	14:26:01
9	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	14:27:13
10	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:28:25
11	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	14:29:36
12	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	14:30:48
13	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	14:31:59
14	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	14:33:11
15	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	14:34:23
16	.3978	1.00	0	1	-0.40	-0.50	-1.2012012	-1.2729124	14:35:34
17	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	14:36:46
18	.3978	1.00	0	0	-0.40	-1.50	-1.2012012	-3.8187373	14:37:57
19	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	14:39:09
20	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	14:40:21
21	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	14:41:32
22	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:42:44
23	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:43:54
24	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	14:45:07
25	.3978	1.00	0	9	-0.40	7.50	-1.2012012	19.093486	14:46:19
26	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	14:47:30
27	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	14:48:42
28	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:49:54
29	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	14:51:05
30	.3978	1.00	2	4	1.60	2.50	4.8048048	6.3645621	14:52:17
31	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	14:53:29
32	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	14:54:40
33	.3978	1.00	0	6	-0.40	4.50	-1.2012012	11.456212	14:55:52
34	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	14:57:03
35	.3978	1.00	1	0	0.60	-1.50	1.8018018	-3.8187373	14:58:15
37	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	14:59:27
36	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:00:38
38	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:01:50
39	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:03:02
40	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	15:04:13

[illegible] JUL 30, 1998 Smears 411-432 22 TOTAL Page 9 of 9

GROUP B .3892

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.3978	1.00	1	1	[illegible]	-0.50	1.8018018	-1.2729124	15:11:32
2	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	15:12:44
3	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	15:13:55
4	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:15:07
5	.3978	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.8187373	15:16:19
6	.3978	1.00	[illegible]	[illegible]	-0.40	[illegible]	-1.2012012	3.8187373	15:17:31
7	.3978	1.00	[illegible]	4	-0.40	2.50	-1.2012012	6.3645621	15:18:42
8	.3978	1.00	1	1	0.60	-0.50	1.8018018	-1.2729124	15:19:53
9	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	15:21:05
10	.3978	1.00	0	5	-0.40	3.50	-1.2012012	8.910387	15:22:17
11	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:23:28
12	.3978	1.00	1	3	0.60	1.50	1.8018018	3.8187373	15:24:40
13	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	15:25:52
14	.3978	1.00	0	4	-0.40	2.50	-1.2012012	6.3645621	15:27:03
15	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:28:15
16	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:29:26
17	.3978	1.00	1	5	0.60	3.50	1.8018018	8.910387	15:30:38
18	.3978	1.00	1	2	0.60	0.50	1.8018018	1.2729124	15:31:50
19	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:33:01
20	.3978	1.00	0	2	-0.40	0.50	-1.2012012	1.2729124	15:34:13
21	.3978	1.00	0	3	-0.40	1.50	-1.2012012	3.8187373	15:35:25
22	.3978	1.00	0	8	-0.40	6.50	-1.2012012	16.547862	15:36:36

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GAMMA CELL

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
433,434	8/10/98	8/11/98	SOUTH WALL		<20	<100		
435to439			EAST WALL					
440to442			CEILING					
443to456			CRANE, TROLLEY AND SUPPORT BEAMS					
457			SOUTH WALL					
458			WALL DUCT					
459,460			SOUTH WALL					
461to463			WALL DUCT					
464to467			CEILING					
468to473			CRANE, TROLLEY AND SUPPORT BEAMS					
474to476			CEILING					
477to505			CRANE, TROLLEY AND SUPPORT BEAMS					
506			CEILING					
507			SOUTH WALL					
508,509			WEST WALL					
510			CEILING					
511to517	8/10/98		CRANE, TROLLEY AND SUPPORT BEAMS					
518to530	8/11/98		CRANE, TROLLEY AND SUPPORT BEAMS					
531			WEST WALL					
532to539	8/11/98	8/11/98	CEILING		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.2	1.8		
EFFICIENCY	0.3315	0.3982		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐ Page 1 of 7

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: GAMMA CELL

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: SMEAR SURVEY / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100		
540,541	8/11/98	8/11/98	WEST WALL		<20	<100		
542to558			CRANE, TROLLEY AND SUPPORT BEAMS					
559to561			CEILING					
562			WEST WALL					
563to567			NORTH WALL					
568,569			SPRINKLER					
570to576			CEILING					
577,578			NORTH WALL					
579,580			EAST WALL					
581to587			CRANE, TROLLEY AND SUPPORT BEAMS					
588to590			CEILING					
591to600			CRANE, TROLLEY AND SUPPORT BEAMS					
601,602			CEILING					
603to611			CRANE, TROLLEY AND SUPPORT BEAMS					
612,613			CEILING					
614to629			CRANE, TROLLEY AND SUPPORT BEAMS					
630			CEILING					
631to637			CRANE, TROLLEY AND SUPPORT BEAMS					
638,640			CEILING					
639	8/11/98	8/11/98	EAST WALL		<20	<100		

COMMENTS:

INSTRUMENT	Tennelec	Tennelec		
IDENTIFICATION	NO100394	NO100394		
CALIBRATION DUE	Daily	Daily		
BACKGROUND	0.2	1.8		
EFFICIENCY	0.3315	0.3982		
COUNT TIME	1 min	1 min		

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☐

FORM 732-A REV 8-97

Rocketdyne Division

DeSoto 104 Gamma Cell Smears 433-475

TUE AUG 11, 1998

GROUP: 3.0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HH:MM:SS
1	.0000	1.00	0	4	-0.20	2.20	-.40331825	5.5555556	07:23:27
2	.0000	1.00	0	1	-0.20	-0.80	-.40331825	-2.020202	07:24:39
3	.0000	1.00	0	0	-0.20	-1.80	-.40331825	-4.5454545	07:25:50
4	.0000	1.00	0	2	-0.20	0.20	-.40331825	.50505051	07:27:02
5	.0000	1.00	1	5	0.80	3.20	2.413273	8.0808081	07:28:14
6	.0000	1.00	0	1	-0.20	1.20	-.40331825	3.030303	07:29:25
7	.0000	1.00	1	4	0.80	4.20	.4133182	10.606061	07:30:37
8	.0000	1.00	0	1	-0.20	-1.80	-.40331825	-4.5454545	07:31:49
9	.0000	1.00	0	2	-0.20	0.20	-.40331825	.50505051	07:33:00
10	.0000	1.00	0	5	-0.20	3.20	-.40331825	8.0808081	07:34:12
11	.0000	1.00	2	2	1.80	0.20	5.4298643	.50505051	07:35:24
12	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	07:36:35
13	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	07:37:47
14	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	07:38:59
15	.0000	1.00	0	1	-0.20	-0.80	-.40331825	-2.020202	07:40:10
16	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	07:41:22
17	.0000	1.00	1	3	0.80	1.20	2.413273	3.030303	07:42:34
18	.0000	1.00	0	4	-0.20	2.20	-.40331825	5.5555556	07:43:45
19	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	07:44:57
20	.0000	1.00	1	4	0.80	4.20	2.413273	10.606061	07:46:09
21	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	07:47:20
22	.0000	1.00	0	2	-0.20	0.20	-.40331825	.50505051	07:48:32
23	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	07:49:44
24	.0000	1.00	0	2	-0.20	0.20	-.40331825	.50505051	07:50:56
25	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	07:52:07
26	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	07:53:19
27	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	07:54:31
28	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	07:55:42
29	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	07:56:54
30	.0000	1.00	0	1	-0.20	-0.80	-.40331825	-2.020202	07:58:04
31	.0000	1.00	0	2	-0.20	0.20	-.40331825	.50505051	07:59:16
32	.0000	1.00	0	8	-0.20	6.20	-.40331825	8.0808081	08:00:27
33	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	08:01:41
34	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	08:02:53
35	.0000	1.00	0	0	-0.20	-1.80	-.40331825	-4.5454545	08:04:04
36	.0000	1.00	1	1	0.80	-0.80	2.413273	-2.020202	08:05:16
37	.0000	1.00	0	2	-0.20	0.20	-.40331825	.50505051	08:06:28
38	.0000	1.00	0	4	-0.20	2.20	-.40331825	5.5555556	08:07:40
39	.0000	1.00	1	4	0.80	4.20	2.413273	10.606061	08:08:51
40	.0000	1.00	0	8	-0.20	6.20	-.40331825	15.656566	08:10:03
43	.0000	1.00	0	2	-0.20	0.20	-.40331825	.50505051	08:11:15
42	.0000	1.00	0	3	-0.20	1.20	-.40331825	3.030303	08:12:26
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DESOTO 104 GAMMA CELL
SMEARS #476-517 (476-517)

TUE AUG 11, 1998

SAMPLE SN.	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	DD MM:HH:MM
1	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	08:37:54
2	.0000	1.00	0	1	-0.20	1.20	-.60331825	3.030303	08:39:06
3	.0000	1.00	1	1	0.80	-0.80	2.413273	-2.020202	08:40:17
4	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	08:41:31
5	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	08:42:43
6	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	08:43:55
7	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	08:45:07
8	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	08:46:18
9	.0000	1.00	1	2	0.80	1.20	2.413273	3.030303	08:47:30
10	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	08:48:42
11	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	08:49:53
12	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	08:51:05
13	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	08:52:17
14	.0000	1.00	0	5	-0.20	3.20	-.60331825	8.0808081	08:53:29
15	.0000	1.00	1	1	0.80	-0.80	2.413273	-2.020202	08:54:40
16	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	08:55:52
17	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	08:57:04
18	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	08:58:15
19	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	08:59:27
20	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:00:39
21	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	09:01:51
22	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	09:03:02
23	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	09:04:14
24	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:05:26
25	.0000	1.00	0	5	-0.20	3.20	-.60331825	8.0808081	09:06:37
26	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:07:49
27	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	09:09:01
28	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:10:12
29	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:11:24
30	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:12:36
31	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	09:13:48
32	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	09:14:59
33	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	09:16:11
34	.0000	1.00	1	3	0.80	1.20	2.413273	3.030303	09:17:23
35	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:18:34
36	.0000	1.00	2	4	1.80	2.20	5.4298643	5.5555556	09:19:46
37	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	09:20:58
38	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:22:11
39	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	09:23:21
40	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:24:33
41	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:25:45
42	.0000	1.00	0	5	-0.20	3.20	-.60331825	8.0808081	09:26:54

DeSoto 104 GAMMA CELL

THE AUG 11, 1998 SMEARS 518-560

GROUP B 0.0000

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	09:35:[illegible]
2	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	09:36:20
3	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	09:37:32
4	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:38:44
5	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:39:55
6	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:41:07
7	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:42:19
8	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	09:43:30
9	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	09:44:42
10	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:45:54
11	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	09:47:05
12	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:48:17
13	.0000	1.00	0	4	-0.20	3.20	-.60331825	8.080808	09:49:29
14	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:50:41
15	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:51:52
16	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	09:53:04
17	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	09:54:16
18	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	09:55:27
19	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	09:56:39
20	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	09:57:51
21	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	09:59:03
22	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	10:00:14
23	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	10:01:26
24	.0000	1.00	2	3	1.80	1.20	5.4298643	3.030303	10:02:38
25	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	10:03:49
26	.0000	1.00	1	3	0.80	1.20	2.413273	3.030303	10:05:01
27	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	10:06:13
28	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	10:07:25
29	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	10:08:36
30	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	10:09:48
31	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	10:11:00
32	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	10:12:12
33	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	10:13:23
34	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	10:14:35
35	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	10:15:47
36	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	10:16:58
37	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	10:18:10
38	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	10:19:22
39	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	10:20:34
40	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	10:21:45
41	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	10:22:57
42	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	10:24:09
43	.0000	1.00	0	0	-0.20	-1.80	-.60331825	-4.5454545	10:25:21

Desoto 104 Gamma Cell

TUE AUG 11, 1998 Smears 561 - 600

NOV 3 2,2000

SAMPLE SN	CODE	TIME (MIN.)	ALFA COUNTS	BETA COUNTS	ALFA (DPM)	BETA (DPM)	ALFA CORRECTED	BETA CORRECTED	TOD (HH:MM:SS)
1	.0000	1.00	1	1	0.80	-0.80	2.413273	-2.020202	10:54:54
2	.0000	1.00	1	3	0.80	1.20	2.413273	3.030303	10:56:06
3	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	10:57:18
4	.0000	1.00	0	7	-0.20	5.20	-.60331825	13.131313	10:58:29
5	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	10:59:41
6	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	11:00:53
7	.0000	1.00	0	6	-0.20	4.20	-.60331825	10.606061	11:02:04
8	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	11:03:16
9	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	11:04:28
10	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	11:05:40
11	.0000	1.00	1	1	0.80	-0.80	2.413273	-2.020202	11:06:51
12	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	11:08:03
13	.0000	1.00	0	5	-0.20	3.20	-.60331825	8.0808081	11:09:15
14	.0000	1.00	0	7	-0.20	5.20	-.60331825	13.131313	11:10:26
15	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	11:11:38
16	.0000	1.00	0	2	-0.20	1.20	-.60331825	3.030303	11:12:50
17	.0000	1.00	1	4	0.80	2.20	2.413273	5.5555556	11:14:01
18	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	11:15:13
19	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	11:16:25
20	.0000	1.00	2	5	1.80	3.20	5.4298643	8.0808081	11:17:37
21	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	11:18:48
22	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	11:20:00
23	.0000	1.00	1	3	0.80	1.20	2.413273	3.030303	11:21:12
24	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	11:22:24
25	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	11:23:35
26	.0000	1.00	0	5	-0.20	3.20	-.60331825	8.0808081	11:24:47
27	.0000	1.00	0	5	-0.20	3.20	-.60331825	8.0808081	11:25:59
28	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	11:27:10
29	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	11:28:22
30	.0000	1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	11:29:34
31	.0000	1.00	0	6	-0.20	4.20	-.60331825	10.606061	11:30:45
32	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	11:31:57
33	.0000	1.00	1	1	0.80	-0.80	2.413273	-2.020202	11:33:09
34	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	11:34:20
35	.0000	1.00	0	2	-0.20	0.20	-.60331825	.50505051	11:35:32
36	.0000	1.00	1	2	0.80	0.20	2.413273	.50505051	11:36:44
37	.0000	1.00	0	4	-0.20	2.20	-.60331825	5.5555556	11:37:56
38	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	11:39:07
39	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	11:40:19
40	.0000	1.00	0	3	-0.20	1.20	-.60331825	3.030303	11:41:31

DESOTO 104 GAMMA CELL
SMEARS 601-640

GROUP: 3-0.0000

SAMPLE #	CODE	TIME (MIN)	ALPHA COUNTS	BETA COUNTS	ALPHA PCM	BETA PCM	ALPHA CORRECTED	BETA CORRECTED	TOD (HH:MM:SS)
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3 .0000		1.00	0	2	-0.20	0.20	-.60331825	5.0808081	12:22:17
4 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	12:22:41
5 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	12:23:42
6 .0000		1.00	[illegible]	2	-0.20	0.20	-.60331825	[illegible]	[illegible]
7 .0000		1.00	[illegible]	[illegible]	[illegible]	-1.80	-.60331825	-4.5454545	12:26:04
8 .0000		1.00	[illegible]	5	0.80	3.20	2.413273	8.0808081	12:27:18
9 .0000		1.00	0	4	-0.20	2.20	-.60331825	5.5555556	12:28:29
10 .0000		1.00	1	1	0.80	-0.80	2.413273	-2.020202	12:29:41
11 .0000		1.00	0	3	-0.20	1.20	-.60331825	3.030303	12:30:53
12 .0000		1.00	0	3	-0.20	1.20	-.60331825	3.030303	12:32:04
13 .0000		1.00	1	[illegible]	0.80	-1.80	2.413273	-4.5454545	12:33:14
14 .0000		1.00	0	4	-0.20	2.20	-.60331825	5.5555556	12:34:26
15 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	12:35:40
16 .0000		1.00	0	3	-0.20	1.20	-.60331825	3.030303	12:36:51
17 .0000		1.00	2	4	1.80	2.20	5.4298643	5.5555556	12:38:03
18 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	12:39:15
19 .0000		1.00	0	3	-0.20	1.20	-.60331825	3.030303	12:40:27
20 .0000		1.00	0	4	-0.20	2.20	-.60331825	5.5555556	12:41:38
21 .0000		1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	12:42:50
22 .0000		1.00	0	4	-0.20	2.20	-.60331825	5.5555556	12:44:02
23 .0000		1.00	0	5	-0.20	3.20	-.60331825	8.0808081	12:45:13
24 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	12:46:25
25 .0000		1.00	0	4	-0.20	2.20	-.60331825	5.5555556	12:47:37
26 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	12:48:49
27 .0000		1.00	0	3	-0.20	1.20	-.60331825	3.030303	12:50:00
28 .0000		1.00	1	1	0.80	-0.80	2.413273	-2.020202	12:51:12
29 .0000		1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	12:52:24
30 .0000		1.00	0	5	-0.20	3.20	-.60331825	8.0808081	12:53:37
31 .0000		1.00	0	7	-0.20	5.20	-.60331825	13.131313	12:54:47
32 .0000		1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	12:55:59
33 .0000		1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	12:57:11
34 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	12:58:22
35 .0000		1.00	0	4	-0.20	2.20	-.60331825	5.5555556	12:59:34
36 .0000		1.00	1	7	0.80	5.20	2.413273	13.131313	13:00:44
37 .0000		1.00	0	5	-0.20	3.20	-.60331825	8.0808081	13:01:57
38 .0000		1.00	0	2	-0.20	0.20	-.60331825	.50505051	13:03:07
39 .0000		1.00	0	1	-0.20	-0.80	-.60331825	-2.020202	13:04:21
40 .0000		1.00	0	3	-0.20	1.20	-.60331825	3.030303	13:05:33

BOEING

RADIATION SURVEY REPORT

FACILITY: DESOTO Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: COVER SHEET FOR RELEASE SURVEY DESCRIPTION	UNITS LIMIT	NOT APPLICABLE
SEE					
ATTACHED					
		SHEETS			
			ALL SMEARS AND PAINT SAMPLES TAKEN IN THIS ROOM		
			ARE MARKED ON THE APPROPIATE ITEMS WITH LARGE		
			BLACK MAGIC MARKER NUMBERS . SEE ATTACHED SHEETS		
			FOR EXACT LOCATIONS OF THESE ITEMS.		

COMMENTS:

INSTRUMENT	SEE		
IDENTIFICATION		ATTACHED	
CALIBRATION DUE			SHEETS
BACKGROUND			
EFFICIENCY			
COUNT TIME			
See Attachment #			

SAMPLED RICHARD GARRETT ANALYZED BY: R.S.O

REVIEWED BY: DATE: 11/2/98

Page 1 of ~~40~~ 20

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
				LIMIT	20	100	NDA	NDA
1to60	6/8/98	6/8/98	FLOOR		<20	<100	NDA	NDA
61	6/8/98	6/8/98	CABINET		<20	<100	NDA	NDA
62	68/98	6/8/98	BOTH GREY EXIT DOORS		<20	<100	NDA	NDA
63	6/8/98	6/8/98	TRAP DOOR BOTH SIDES		<20	<100	NDA	NDA
64	6/8/98	6/8/98	LADDER TO ROOF		<20	<100	NDA	NDA
65to74	6/8/98	6/8/98	FRONT AND SIDES OF POWER PANELPP3A45.7M		<20	<100	NDA	NDA
75	6/8/98	6/8/98	CRITTENDEN TRANSFORMER		<20	<100	NDA	NDA
76	6/8/98	6/8/98	TOP OF POWER PANEL PP3A45.7M		<20	<100	NDA	NDA
77	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
78,79	68/98	6/8/98	PIPE		<20	<100	NDA	NDA
80,81	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
82,83	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
84,85	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
86to89	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
90	6/8/98	6/8/98	FIRE EXTINGUISHER AND HOLDER		<20	<100	NDA	NDA
91	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
92	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum 12	Ludlum 3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.3	1.3	0to1	60to80
EFFICIENCY	0.3275	0.3885	14%	13.10%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: RSC

REVIEWED BY: DATE: 11/2/98

See Attachment ☒ Page 2 of ~~10~~ 20

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
					20	100	NDA	NDA
93,95,98	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
94,96,97	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
100	6/8/98	6/8/98	LADDER		<20	<100	NDA	NDA
101	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
102,104	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
103	6/8/98	6/8/98	CONDUIT		<20	<100	NDA	NDA
105to137	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
138	6/8/98	6/8/98	GAMMA CELL VENTILATION DUCT		<20	<100	NDA	NDA
139,151	6/8/98	6/8/98	LARGE WINDOW		<20	<100	NDA	NDA
140	6/8/98	6/8/98	SMALL WINDOW		<20	<100	NDA	NDA
141to150	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
152to158	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
159,161	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
160	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
162to170	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
171	6/8/98	6/8/98	CONDUIT		<20	<100	NDA	NDA
172to175	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum12	Ludlum3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	131.00%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: RRC

REVIEWED BY: DATE: 11/2/98

See Attachment ☑ Page 3 of 20 TOTAL

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey	UNITS	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
			DESCRIPTION	LIMIT	20	100	NDA	NDA
176,179	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
177	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
178	6/8/98	6/8/98	CONDUIT		<20	<100	NDA	NDA
180to192	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
193,194	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
195to197	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
198	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
199	6/8/98	6/8/98	CONDUIT		<20	<100	NDA	NDA
200	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
201	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
202to204	6/8/98	6/8/98	WALL		<20	<100	NDA	NDA
205	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
206,207	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
208	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
209,210	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
211	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
212	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum12	Ludlum3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	131.00%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: R.S.C.

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ☒ Page 4 of ~~78~~ 20 pgs

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey	UNITS	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
			DESCRIPTION	LIMIT	20	100	NDA	NDA
213,222	6/8/98	6/8/98	CONDUIT AND LIGHT		<20	<100	NDA	NDA
214	6/8/98	6/8/98	HATCH OPENING		<20	<100	NDA	NDA
215,221	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
216,217	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
218,220	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
219,223	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
224	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
225,232	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
226,228	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
227	6/8/98	6/8/98	CONDUIT		<20	<100	NDA	NDA
229,234	6/8/98	6/8/98	FENCE		<20	<100	NDA	NDA
231,233	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
232	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
235	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
236to238	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
239	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
240	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum12	Ludlum3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	131.00%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: R.Pho

REVIEWED BY: DATE: 11/2/98

See Attachment ☒ Page 5 of 20 pages

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey	UNITS	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
			DESCRIPTION	LIMIT	20	100	NDA	NDA
241,244	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
242,245	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
243	6/8/98	6/8/98	CONDUIT		<20	<100	NDA	NDA
245	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
246	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
247,249	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
248	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
250	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
251	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
252,254	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
253	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
255	6/8/98	6/8/98	CONDUIT		<20	<100	NDA	NDA
256,258	6/8/98	6/8/98	BEAM		<20	<100	NDA	NDA
257,259	6/8/98	6/8/98	CEILING		<20	<100	NDA	NDA
260	6/8/98	6/8/98	PIPE		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum12	Ludlum3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	131.00%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: R.R.C

REVIEWED BY: DATE: 11/2/98

See Attachment ☒ Page 6 of 20

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
					20	100	NDA	NDA
261,263	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
262,264	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
265,268	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
266	6/9/98	6/9/98	PIPE		<20	<100	NDA	NDA
267	6/9/98	6/9/98	CONDUIT		<20	<100	NDA	NDA
269to271	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
272,274	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
273	6/9/98	6/9/98	CONDUIT AND LIGHT		<20	<100	NDA	NDA
275,278	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
276,277	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
279	6/9/98	6/9/98	CONDUIT AND LIGHT		<20	<100	NDA	NDA
280	6/9/98	6/9/98	PIPE		<20	<100	NDA	NDA
281,284	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
282,283	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
285	6/9/98	6/9/98	CONDUIT AND LIGHT		<20	<100	NDA	NDA
286	6/9/98	6/9/98	PIPE		<20	<100	NDA	NDA
287	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum 12	Ludlum 3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	13.10%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: R.S.C.

REVIEWED BY: DATE: 6/12/98

See Attachment ☒ Page 7 of 20

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
				LIMIT	20	100	NDA	NDA
288	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
289,292	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
290,291	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
293,296	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
294,295	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
297,300	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
298	6/9/98	6/9/98	PIPE		<20	<100	NDA	NDA
299,303	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
301,302	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
304	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
305,306	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
307	6/9/98	6/9/98	PIPE		<20	<100	NDA	NDA
308,309	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
310	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
311,312	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
313,315	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
314	6/9/98	6/9/98	PIPE		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum 12	Ludlum 3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	13.10%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: R.C.C.

REVIEWED BY: DATE: 11/2/98

See Attachment A Page 8 of 20

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2 / 20	β dpm/100cm2 / 100	α cpm direct frisk / NDA	β cpm direct frisk / NDA
316,316	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
318	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
319,323	6/9/98	6/9/98	PIPE		<20	<100	NDA	NDA
320,321	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
322	6/9/98	6/9/98	CONDUIT AND LIGHT		<20	<100	NDA	NDA
324,326	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
325,328	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
327,330	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
329,332	6/9/98	6/9/98	CONDUIT AND LIGHT		<20	<100	NDA	NDA
331	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
333,336	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
334,335	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
337,338	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
339	6/9/98	6/9/98	CONDUIT AND LIGHT		<20	<100	NDA	NDA
340,341	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
342,343	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
344	6/9/98	6/9/98	BEAM		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum 12	Ludlum 3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	13.10%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/12/98

See Attachment ☒ Page 9 of 20

FORM 732-A REV 8-97

Rocketdyne Division

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: VENTILATION ROOM

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey DESCRIPTION	UNITS LIMIT	α dpm/100cm2 20	β dpm/100cm2 100	α cpm direct frisk NDA	β cpm direct frisk NDA
345	6/9/98	6/9/98	CEILING		<20	<100	NDA	NDA
P1toP4	6/9/98	6/9/98	PAINT SAMPLE FROM WALL		<20	<100		
P5toP9	6/9/98	6/9/98	PAINT SAMPLE FROM WALL		<20	<100		
P10toP14	6/9/98	6/9/98	PAINT SAMPLE FROM WALL		<20	<100		
P15toP18	6/9/98	6/9/98	PAINT SAMPLE FROM WALL		<20	<100		
P19	6/9/98	6/9/98	PAINT SAMPLE FROM BEAM		<20	<100		
P20	6/9/98	6/9/98	PAINT SAMPLE FROM WALL		<20	<100		
P21toP25	6/9/98	6/9/98	PAINT SAMPLE FROM CEILING		<20	<100		
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum 12	Ludlum 3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	13.10%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 11/2/98

See Attachment ~~A~~ Page 10 of ~~10~~ 20

Rocketdyne Division

FORM 732-A REV 8-97

104 DESOTO VENTILATION ROOM
SMEARS01-050

MON JUN 08 1998
GROUP B .3926

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HH:MM:SS
1		1.00	0	4	1.70	4.67	0.17	12.002056	08:53:27
2		1.00	1	3	0.70	1.67	0.07	4.2919558	08:54:32
3		1.00	0	2	-0.30	0.67	-0.03	1.7219224	08:55:43
4		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	08:56:55
5		1.00	1	3	0.70	1.67	0.07	4.2919558	08:58:07
6		1.00	0	4	-0.30	4.67	-0.03	12.002056	08:59:18
7		1.00	1	4	0.70	4.67	0.07	12.002056	09:00:30
8		1.00	0	4	-0.30	4.67	-0.03	12.002056	09:01:41
9		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	09:02:52
10		1.00	1	3	0.70	1.67	0.07	4.2919558	09:04:04
11		1.00	0	5	-0.30	3.67	-0.03	9.4320226	09:05:16
12		1.00	0	2	-0.30	0.67	-0.03	1.7219224	09:06:25
13		1.00	0	0	-0.30	-1.33	-0.03	-3.4181444	09:07:39
14		1.00	1	4	0.70	2.67	0.07	6.8619892	09:08:51
15		1.00	0	3	-0.30	1.67	-0.03	4.2919558	09:10:03
16		1.00	0	3	-0.30	1.67	-0.03	4.2919558	09:11:14
17		1.00	1	3	0.70	1.67	0.07	4.2919558	09:12:24
18		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	09:13:37
19		1.00	1	2	0.70	0.67	0.07	1.7219224	09:14:49
20		1.00	2	5	1.70	3.67	0.17	9.4320226	09:16:01
21		1.00	0	5	-0.30	3.67	-0.03	9.4320226	09:17:12
23		1.00	2	3	1.70	1.67	0.17	4.2919558	09:18:24
23		1.00	0	2	-0.30	0.67	-0.03	1.7219224	09:19:35
24		1.00	0	2	-0.30	0.67	-0.03	1.7219224	09:20:47
25		1.00	0	3	-0.30	1.67	-0.03	4.2919558	09:21:59
26		1.00	2	3	1.70	1.67	0.17	4.2919558	09:23:10
27		1.00	0	0	-0.30	-1.33	-0.03	-3.4181444	09:24:22
28		1.00	2	5	1.70	3.67	0.17	9.4320226	09:25:33
29		1.00	0	0	-0.30	-1.33	-0.03	-3.4181444	09:26:45
30		1.00	0	4	-0.30	2.67	-0.03	6.8619892	09:27:57
31		1.00	1	4	0.70	4.67	0.07	12.002056	09:29:08
32		1.00	0	8	-0.30	6.67	-0.03	17.142123	09:30:20
33		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	09:31:32
34		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	09:32:43
35		1.00	1	4	0.70	2.67	0.07	6.8619892	09:33:55
36		1.00	0	4	-0.30	4.67	-0.03	12.002056	09:35:07
37		1.00	1	3	0.70	3.67	0.07	9.4320226	09:36:18
38		1.00	0	2	-0.30	0.67	-0.03	1.7219224	09:37:30
39		1.00	0	2	-0.30	0.67	-0.03	1.7219224	09:38:41
40		1.00	0	3	-0.30	1.67	-0.03	4.2919558	09:39:53
41		1.00	0	4	-0.30	4.67	-0.03	12.002056	09:41:05
42		1.00	0	2	-0.30	0.67	-0.03	1.7219224	09:42:16
43		1.00	0	5	-0.30	3.67	-0.03	9.4320226	09:43:28
44		1.00	0	2	-0.30	0.67	-0.03	1.7219224	09:44:39
45		1.00	0	3	-0.30	1.67	-0.03	4.2919558	09:45:51
46		1.00	0	3	-0.30	1.67	-0.03	4.2919558	09:47:03
47		1.00	1	2	0.70	0.67	0.07	1.7219224	09:48:14
48		1.00	0	5	-0.30	3.67	-0.03	9.4320226	09:49:26
49		1.00	0	3	-0.30	1.67	-0.03	4.2919558	09:50:37
50		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	09:51:49

104 DESOTO VENTILATION ROOM
SMEARS 051-075

MON JUN 08, 1998
GROUP B ,3926

SAMPLE SN	CODE	TIME (MIN)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HH:MM:SS
1		1.00	0	6	-0.30	4.67	-0.03	17.142123	09:52:[illegible]
2		1.00	0	4	-0.30	2.67	-0.03	6.8619892	09:56:17
3		1.00	0	4	-0.30	2.67	-0.03	6.8619892	09:59:24
4		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:00:35
5		1.00	0	5	-0.30	3.67	-0.03	9.4325224	10:01:47
6		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:02:55
7		1.00	0	4	-0.30	2.67	-0.03	6.8619892	10:04:12
8		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:05:22
9		1.00	0	3	-0.30	1.67	-0.03	4.2919558	10:06:33
10		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:07:45
11		1.00	0	8	-0.30	6.67	-0.03	17.142123	10:08:57
12		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:10:08
13		1.00	0	3	-0.30	1.67	-0.03	4.2919558	10:11:17
14		1.00	1	3	0.70	1.67	0.07	4.2919558	10:12:31
15		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:13:43
16		1.00	0	3	-0.30	1.67	-0.03	4.2919558	10:14:55
17		1.00	1	5	0.70	3.67	0.07	9.4325224	10:16:06
18		1.00	0	6	-0.30	4.67	-0.03	17.142123	10:17:18
19		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:18:30
20		1.00	1	1	0.70	-0.33	0.07	-.84811103	10:19:41
21		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	10:20:53
23		1.00	0	2	-0.30	0.67	-0.03	1.7219224	10:22:04
22		1.00	0	3	-0.30	1.67	-0.03	4.2919558	10:23:14
24		1.00	0	3	-0.30	1.67	-0.03	4.2919558	10:24:28
25		1.00	1	6	0.70	4.67	0.07	17.002056	10:25:39

104 DESOTO VENTILATION ROOM SMEARS 076 - 118

MON JUN 08, 1998

HOUR B .3926

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1		1.00	0	2	-0.30	0.67	-0.03	1.7219224	11:44:51
2		1.00	1	2	0.70	0.67	0.07	1.7219224	11:46:[illegible]
3		1.00	0	5	-0.30	1.67	-0.03	4.2919558	11:49:14
4		1.00	0	4	-0.30	2.67	-0.03	6.8619892	11:50:24
5		1.00	1	3	0.70	1.67	0.07	4.2919558	11:51:37
6		1.00	1	5	0.70	3.67	0.07	9.4320224	11:52:49
7		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	11:54:[illegible]
8		1.00	1	4	0.70	2.67	0.07	6.8619892	11:55:[illegible]
9		1.00	0	6	-0.30	4.67	-0.03	12.002056	11:56:23
10		1.00	0	3	-0.30	1.67	-0.03	4.2919558	11:57:35
11		1.00	0	2	-0.30	0.67	-0.03	1.7219224	11:58:47
12		1.00	1	2	0.70	0.67	0.07	1.7219224	11:59:58
13		1.00	1	2	0.70	0.67	0.07	1.7219224	12:01:[illegible]
14		1.00	0	2	-0.30	0.67	-0.03	1.7219224	12:02:[illegible]
15		1.00	0	6	-0.30	4.67	-0.03	12.002056	12:03:33
16		1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:04:45
17		1.00	0	2	-0.30	0.67	-0.03	1.7219224	12:05:56
18		1.00	1	7	0.70	5.67	0.07	14.572089	12:07:[illegible]
19		1.00	1	4	0.70	4.67	0.07	12.002056	12:08:25
20		1.00	0	4	-0.30	2.67	-0.03	6.8619892	12:09:[illegible]
21		1.00	0	6	-0.30	4.67	-0.03	12.002056	12:10:43
22		1.00	1	2	0.70	0.67	0.07	1.7219224	12:11:54
23		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	12:13:04
24		1.00	0	2	-0.30	0.67	-0.03	1.7219224	12:14:18
25		1.00	1	4	0.70	2.67	0.07	6.8619892	12:15:29
26		1.00	0	10	-0.30	8.67	-0.03	22.28219	12:16:41
27		1.00	0	10	-0.30	8.67	-0.03	22.28219	12:17:52
28		1.00	1	4	0.70	2.67	0.07	6.8619892	12:19:04
29		1.00	2	1	1.70	-0.33	0.17	-.84811103	12:20:[illegible]
30		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
32		1.00	0	4	-0.30	4.67	-0.03	12.002056	[illegible]
33		1.00	1	7	0.70	5.67	0.07	14.572089	12:25:[illegible]
34		1.00	1	1	0.70	-0.33	0.07	-.84811103	12:26:[illegible]
35		1.00	1	7	0.70	5.67	0.07	14.572089	12:27:25
36		1.00	1	2	0.70	0.67	0.07	1.7219224	12:28:[illegible]
37		1.00	1	4	0.70	4.67	0.07	12.002056	12:29:48
38		1.00	0	9	-0.30	7.67	-0.03	19.712154	[illegible]
39		1.00	2	6	1.70	4.67	0.17	12.002056	12:32:11
40		1.00	0	10	-0.30	8.67	-0.03	22.28219	12:33:23
41		1.00	0	6	-0.30	4.67	-0.03	12.002056	12:34:35
42		1.00	1	5	0.70	3.67	0.07	9.4320224	12:35:46
43		1.00	0	4	-0.30	4.67	-0.03	12.002056	12:36:58

104 DESOTO VENTILATION ROOM
SMEARS 119 - 142

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MON JUN 08, 1998
GROUP B .3926

SAMPLE SN / CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
44	1.00	0	1	-0.30	-0.33	-0.03	-.84811103	12:39:39
45	1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:4[illegible]
46	1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:42:[illegible]
47	1.00	0	4	-0.30	2.67	-0.03	6.8619892	12:43:14
48	1.00	0	4	-0.30	2.67	-0.03	6.8619892	12:44:26
45	1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:45:37
14	1.00	1	4	0.70	2.67	0.07	6.8619892	12:46:49
1	1.00	0	4	-0.30	2.67	-0.03	6.8619892	12:48:[illegible]
2	1.00	1	0	0.70	-1.33	0.07	-3.4181444	12:49:12
3	1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:50:24
4	1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:51:35
5	1.00	1	4	0.70	2.67	0.07	6.8619892	12:52:47
6	1.00	2	1	1.70	-0.33	0.17	-.84811103	12:53:59
7	1.00	1	9	0.70	7.67	0.07	19.712156	12:55:10
8	1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:56:22
9	1.00	0	3	-0.30	1.67	-0.03	4.2919558	12:57:33
10	1.00	0	5	-0.30	3.67	-0.03	9.4320226	12:58:45
11	1.00	0	1	-0.30	-0.33	-0.03	-.84811103	12:59:57
12	1.00	0	2	-0.30	0.67	-0.03	1.7219224	13:01:[illegible]
13	1.00	1	1	0.70	-0.33	0.07	-.84811103	13:02:[illegible]
14	1.00	0	2	-0.30	0.67	-0.03	1.7219224	13:[illegible]
15	1.00	1	3	0.70	1.67	0.07	4.2919558	13:04:43
16	1.00	1	3	0.70	1.67	0.07	4.2919558	13:05:55
17	1.00	1	3	0.70	1.67	0.07	4.2919558	13:07:06

~~MON JUN 08, 1998~~
~~GROUP A~~

RBG 6/8/98

~~SAMPLE SN / CODE~~	~~TIME (MIN.)~~	~~ALPHA COUNTS~~	~~BETA COUNTS~~	~~ALPHA CPM~~	~~BETA CPM~~	~~TOD CLOCK HR:MN:SEC~~

RBG 6/8/98

104 DESOTO VENTILATION ROOM
SMEARS 143-183

JUN 08, 1998
SUP B .3926

SAMPLE SN CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
17	1.00	0	9	-0.30	7.67	-0.03	19.712156	13:11:23
18	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:12:35
19	1.00	1	3	0.70	1.67	0.07	4.2919558	13:13:47
20	1.00	0	5	-0.30	3.67	-0.03	9.4320226	13:14:58
21	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:16:10
22	1.00	0	4	-0.30	2.67	-0.03	6.8619892	13:17:22
23	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:18:33
24	1.00	0	2	-0.30	0.67	-0.03	1.7219224	13:19:45
25	1.00	0	1	-0.30	-0.33	-0.03	-.84811103	13:20:56
26	1.00	1	4	0.70	2.67	0.07	6.8619892	13:22:08
27	1.00	0	6	-0.30	4.67	-0.03	12.002056	13:23:20
29	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:24:31
28	1.00	1	6	0.70	4.67	0.07	12.002056	13:25:43
30	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:26:54
31	1.00	1	1	0.70	-0.33	0.07	-.84811103	13:28:06
32	1.00	1	5	0.70	3.67	0.07	9.4320226	13:29:18
33	1.00	0	0	-0.30	-1.33	-0.03	-3.4181444	13:30:29
34	1.00	0	6	-0.30	4.67	-0.03	12.002056	13:31:41
35	1.00	1	0	0.70	-1.33	0.07	-3.4181444	13:32:53
36	1.00	1	3	0.70	1.67	0.07	4.2919558	13:34:04
37	1.00	1	3	0.70	1.67	0.07	4.2919558	13:35:16
38	1.00	3	1	2.70	-0.33	0.27	-.84811103	13:36:27
39	1.00	1	1	0.70	-0.33	0.07	-.84811103	13:37:39
40	1.00	0	2	-0.30	0.67	-0.03	1.7219224	13:38:51
41	1.00	1	3	0.70	1.67	0.07	4.2919558	13:40:02
42	1.00	2	1	1.70	-0.33	0.17	-.84811103	13:41:14
43	1.00	2	5	1.70	3.67	0.17	9.4320226	13:42:26
44	1.00	0	7	-0.30	5.67	-0.03	14.572089	13:43:37
46	1.00	0	7	-0.30	5.67	-0.03	14.572089	13:44:49
45	1.00	1	3	0.70	1.67	0.07	4.2919558	13:46:00
47	1.00	0	2	-0.30	0.67	-0.03	1.7219224	13:47:12
46	1.00	1	4	0.70	2.67	0.07	6.8619892	13:48:24
45	1.00	0	2	-0.30	0.67	-0.03	1.7219224	13:49:35
14	1.00	1	3	0.70	1.67	0.07	4.2919558	13:50:47
1	1.00	0	2	-0.30	0.67	-0.03	1.7219224	13:51:59
2	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:53:10
3	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:54:22
4	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:55:34
5	1.00	1	3	0.70	1.67	0.07	4.2919558	13:56:45
6	1.00	0	1	-0.30	-0.33	-0.03	-.84811103	13:57:57
7	1.00	0	3	-0.30	1.67	-0.03	4.2919558	13:59:09

104 DESOTO VENTILATION ROOM
SMEARS 184-213

JUN 08, 1998
[illegible] 3 ,3926

SAMPLE SN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD [illegible] HR:MN:[illegible]
8		1.00	0	7	-0.30	5.67	-0.03	14.572089	14:01:[illegible]
9		1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:02:17
10		1.00	1	2	0.70	0.67	0.07	1.7219224	14:03:29
11		1.00	0	3	-0.30	1.67	-0.03	4.2919558	14:04:40
12		1.00	2	2	1.70	0.67	0.17	1.7219224	14:05:52
13		1.00	0	0	-0.30	-1.33	-0.03	-3.4181444	14:07:04
14		1.00	1	1	0.70	-0.33	0.07	-.84811103	14:08:[illegible]
15		1.00	0	0	-0.30	-1.33	-0.03	-3.4181444	14:09:[illegible]
16		1.00	0	4	-0.30	2.67	-0.03	6.8619892	14:10:39
65		1.00	0	4	-0.30	2.67	-0.03	6.8619892	14:11:50
66		1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:13:02
67		1.00	0	7	-0.30	5.67	-0.03	14.572089	14:14:14
69		1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:15:[illegible]
70		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	14:16:[illegible]
71		1.00	1	4	0.70	2.67	0.07	6.8619892	14:17:48
72		1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:19:00
73		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	14:20:12
74		1.00	1	3	0.70	1.67	0.07	4.2919558	14:21:23
7		1.00	0	3	-0.30	1.67	-0.03	4.2919558	14:[illegible]
8		1.00	0	3	-0.30	1.67	-0.03	4.2919558	14:23:47
9		1.00	1	2	0.70	0.67	0.07	1.7219224	14:24:[illegible]
20		1.00	0	4	-0.30	2.67	-0.03	6.8619892	14:26:10
21		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	14:27:22
22		1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:28:33
23		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	14:29:45
24		1.00	1	2	0.70	0.67	0.07	1.7219224	14:30:56
25		1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:32:08
26		1.00	2	4	1.70	2.67	0.17	6.8619892	14:33:20
27		1.00	0	6	-0.30	4.67	-0.03	12.002056	14:34:31
29		1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:35:43

104 DESOTO VENTILATION ROOM
SMEARS 214 - 260

MON JUN 08, 1998
BG: P B .3926

SAMPLE N	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
8		1.00	0	1	-0.30	-0.33	-0.03	-.84811103	14:37:45
9		1.00	0	5	-0.30	3.67	-0.03	9.4320226	14:38:54
10		1.00	1	2	0.70	0.67	0.07	1.7219224	14:40:[illegible]
11	2	1.00	0	3	-0.30	1.67	-0.03	4.2919558	14:41:20
12	3	1.00	1	4	0.70	2.67	0.07	6.8619892	14:42:41
13	4	1.00	0	4	-0.30	2.67	-0.03	6.8619892	14:43:44
14	5	1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:44:54
15	6	1.00	0	4	-0.30	2.67	-0.03	6.8619892	14:46:04
16	7	1.00	1	4	0.70	2.67	0.07	6.8619892	14:47:18
17	8	1.00	0	2	-0.30	0.67	-0.03	1.7219224	14:48:29
18	9	1.00	1	5	0.70	3.67	0.07	9.4320226	14:49:41
19	10	1.00	1	2	0.70	0.67	0.07	1.7219224	14:50:53
20	11	1.00	2	1	1.70	-0.33	0.17	-.84811103	14:52:04
21	12	1.00	1	5	0.70	3.67	0.07	9.4320226	14:53:14
22	13	1.00	2	4	1.70	2.67	0.17	6.8619892	14:54:25
23	14	1.00	0	5	-0.30	3.67	-0.03	9.4320226	14:55:39
24	15	1.00	0	3	-0.30	1.67	-0.03	4.2919558	14:56:51
25	16	1.00	0	6	-0.30	4.67	-0.03	12.002056	14:58:02
26	17	1.00	1	2	0.70	0.67	0.07	1.7219224	14:59:14
27	18	1.00	0	5	-0.30	3.67	-0.03	9.4320226	15:00:26
28	19	1.00	0	2	-0.30	0.67	-0.03	1.7219224	15:01:37
29	20	1.00	0	2	-0.30	0.67	-0.03	1.7219224	15:02:49
30	21	1.00	0	3	-0.30	1.67	-0.03	4.2919558	15:04:01
31	22	1.00	0	3	-0.30	1.67	-0.03	4.2919558	15:05:12
32	23	1.00	0	3	-0.30	1.67	-0.03	4.2919558	15:06:24
33	24	1.00	0	3	-0.30	1.67	-0.03	4.2919558	15:07:35
34	25	1.00	0	5	-0.30	3.67	-0.03	9.4320226	15:08:47
35	26	1.00	1	6	0.70	4.67	0.07	12.002056	15:09:59
36	27	1.00	1	0	0.70	-1.33	0.07	-3.4181444	15:11:10
37	28	1.00	0	3	-0.30	1.67	-0.03	4.2919558	15:12:22
38	29	1.00	1	2	0.70	0.67	0.07	1.7219224	15:13:34
39	30	1.00	0	4	-0.30	2.67	-0.03	6.8619892	15:14:45
40	31	1.00	1	4	0.70	2.67	0.07	6.8619892	15:15:57
41	32	1.00	0	2	-0.30	0.67	-0.03	1.7219224	15:17:09
42	33	1.00	1	1	0.70	-0.33	0.07	-.84811103	15:18:20
43	34	1.00	0	3	-0.30	1.67	-0.03	4.2919558	15:19:32
44	35	1.00	0	4	-0.30	2.67	-0.03	6.8619892	15:20:43
45	36	1.00	0	4	-0.30	2.67	-0.03	6.8619892	15:21:55
46	37	1.00	1	5	0.70	3.67	0.07	9.4320226	15:23:07
47	38	1.00	0	4	-0.30	2.67	-0.03	6.8619892	15:24:18
48	39	1.00	1	6	0.70	4.67	0.07	12.002056	15:25:30
49	40	1.00	0	1	-0.30	-0.33	-0.03	-.84811103	15:26:42
50	41	1.00	1	3	0.70	1.67	0.07	4.2919558	15:27:53
51	42	1.00	1	4	0.70	1.67	0.07	4.2919558	15:29:[illegible]
52	43	1.00	1	[illegible]	-0.30	0.67	-0.03	1.7219224	15:30:17
53	44	1.00	0	5	-0.30	3.67	-0.03	9.4320226	15:31:28
54	45	1.00	1	4	0.70	2.67	0.07	6.8619892	15:32:40
55	46	1.00	0	5	-0.30	3.67	-0.03	9.4320226	15:33:51

104 DESOTO VENTILATION ROOM Page 8 of 10

SMEARS 261 – 305

18 pp 20

N 39, 1998

R 3924

SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SC
	1.00	0	[illegible]	[illegible]	[illegible]	-1.2143291	-.76942806	08:19:15
	1.00	0	[illegible]	-0.40	1.70	-1.2143291	4.3600923	08:21:[illegible]
	1.00	[illegible]	[illegible]	-0.4	1.70	-1.2143291	4.3600923	08:21:40
	1.00	1	0	0.40	-1.30	1.8214936	-3.3341883	08:22:44
	1.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	1.00	[illegible]	[illegible]	-0.40	3.70	-1.2143291	9.4896127	08:25:[illegible]
	1.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	1.00	[illegible]	[illegible]	-0.40	4.70	-1.2143291	[illegible]	[illegible]
	1.00	[illegible]	[illegible]	[illegible]	[illegible]	1.8214936	-.76942806	08:28:40
	1.00	0	0	-0.40	-1.30	-1.2143291	-3.3341883	08:29:53
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	08:31:06
	1.00	1	7	0.40	5.70	1.8214936	14.619133	08:32:17
	1.00	2	4	1.40	3.70	4.8573163	9.4896127	08:33:28
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	08:34:40
	1.00	2	4	-0.40	2.70	-1.2143291	6.9248525	08:35:52
	1.00	0	6	-0.40	4.70	-1.2143291	12.054373	08:37:04
	1.00	1	5	0.40	3.70	1.8214936	9.4896127	08:38:15
	1.00	0	3	-0.40	1.70	-1.2143291	4.3600923	08:39:27
	1.00	1	4	0.40	4.70	1.8214936	12.054373	08:40:38
	1.00	0	5	-0.40	3.70	-1.2143291	9.4896127	08:41:51
	1.00	1	2	0.40	1.70	1.8214936	4.3600923	08:43:01
	1.00	0	1	-0.40	-0.30	-1.2143291	-.76942806	08:44:13
	1.00	1	2	0.60	0.70	1.8214936	1.7953321	08:45:25
	1.00	1	4	0.60	2.70	1.8214936	6.9248525	08:46:36
	1.00	[illegible]	[illegible]	-0.40	[illegible]	-1.2143291	[illegible]	[illegible]
	1.00	0	1	-0.40	-0.30	-1.2143291	-.76942806	08:49:00
	1.00	[illegible]	4	0.40	3.70	1.8214936	9.4896127	08:50:11
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	08:51:23
	1.00	2	1	1.60	-0.30	4.8573163	-.76942806	08:52:35
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	08:53:46
	[illegible]	[illegible]	[illegible]	-0.40	1.70	-1.2143291	4.3600923	08:54:58
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	08:56:10
	[illegible]	[illegible]	[illegible]	-0.40	-0.30	-1.2143291	-.76942806	08:57:21
	1.00	1	5	0.40	3.70	1.8214936	9.4896127	08:58:33
	1.00	1	4	0.40	2.70	1.8214936	6.9248525	08:59:45
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:00:56
	[illegible]	[illegible]	[illegible]	[illegible]	3.70	[illegible]	9.4896127	[illegible]
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	09:03:[illegible]
	1.00	0	8	-0.40	6.70	-1.2143291	17.183893	09:04:31
	1.00	1	8	0.40	6.70	1.8214936	17.183893	09:05:43
	1.00	0	1	-0.40	-0.30	-1.2143291	-.76942806	09:06:55
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:08:06
	[illegible]	[illegible]	[illegible]	0.40	1.70	1.8214936	4.3600923	09:09:18
	1.00	0	[illegible]	-0.4	-1.30	-1.2143291	-3.3341883	09:10:30
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:11:41

104 DESOTO VENTILATION ROOM
SMEARS 306-345

N 09, 1996
B .3926

SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
	1.00	1	7	0.60	5.70	1.8214936	14.619133	09:17:15
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	09:18:[illegible]
	1.00	0	3	-0.40	1.70	-1.2143291	4.3600923	09:19:[illegible]
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:20:[illegible]
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:22:01
	1.00	0	1	-0.40	-0.30	-1.2143291	-.76942806	09:23:13
	1.00	0	5	-0.40	3.70	-1.2143291	9.4896127	09:24:25
	1.00	1	2	0.60	0.70	1.8214936	1.7953321	09:25:36
	1.00	1	3	0.60	1.70	1.8214936	4.3600923	09:26:48
	1.00	1	7	0.60	5.70	1.8214936	14.619133	09:28:00
	1.00	0	3	-0.40	1.70	-1.2143291	4.3600923	09:29:11
	1.00	0	0	-0.40	-1.30	-1.2143291	-3.3341883	09:30:23
	1.00	0	3	-0.40	1.70	-1.2143291	4.3600923	09:31:35
	1.00	1	3	0.60	1.70	1.8214936	4.3600923	09:32:46
	1.00	1	1	0.60	-0.30	1.8214936	-.76942806	09:33:58
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:35:11
	1.00	1	5	0.60	3.70	1.8214936	9.4896127	09:36:21
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:37:33
	1.00	1	4	0.60	2.70	1.8214936	6.9248525	09:38:45
	1.00	0	3	1.60	1.70	4.8573163	4.3600923	09:39:56
	1.00	0	2	-0.40	0.70	-1.2143291	1.7953321	09:41:08
	1.00	1	3	0.60	1.70	1.8214936	4.3600923	09:42:20
	1.00	0	0	-0.40	-1.30	-1.2143291	-3.3341883	09:43:31
	1.00	1	2	0.60	0.70	1.8214936	1.7953321	09:44:43
	1.00	0	1	-0.40	-0.30	-1.2143291	-.76942806	09:45:55
	1.00	1	3	0.60	1.70	1.8214936	4.3600923	09:47:06
	1.00	0	3	-0.40	1.70	-1.2143291	4.3600923	09:48:18
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	09:49:30
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	09:50:41
	1.00	0	5	-0.40	3.70	-1.2143291	9.4896127	09:51:53
	1.00	0	8	-0.40	6.70	-1.2143291	17.183893	09:53:05
	1.00	0	5	-0.40	3.70	-1.2143291	9.4896127	09:54:16
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	09:55:28
	1.00	1	5	0.60	3.70	1.8214936	9.4896127	09:56:39
	1.00	1	5	0.60	3.70	1.8214936	9.4896127	09:57:51
	1.00	0	0	-0.40	-1.30	-1.2143291	-3.3341883	09:59:03
	1.00	0	5	-0.40	3.70	-1.2143291	9.4896127	10:00:14
	1.00	0	5	-0.40	3.70	-1.2143291	9.4896127	10:01:26
	1.00	0	5	-0.40	3.70	-1.2143291	9.4896127	10:02:38
	1.00	1	4	0.60	2.70	1.8214936	6.9248525	10:03:49

104 DESOTO VENTILATION ROOM SMEARS (PAINT SAMPLES) P1-P25

20 ~~10~~ 20

3926

SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
	1.00	0	0	-0.40	-1.30	-1.2143291	-3.3341883	13:43:17
	1.00	1	6	0.60	4.70	1.8214936	12.054373	13:44:29
	1.00	0	6	-0.40	4.70	-1.2143291	12.054373	13:45:40
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	13:46:52
	1.00	1	2	0.60	0.70	1.8214936	1.7953321	13:48:04
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	13:49:15
	1.00	0	8	-0.40	6.70	-1.2143291	17.183893	13:50:27
	1.00	0	9	-0.40	7.70	-1.2143291	19.748654	13:51:38
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	13:52:50
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	13:54:02
	1.00	0	6	-0.40	4.70	-1.2143291	12.054373	13:55:13
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	13:56:25
	1.00	0	4	-0.40	1.70	-1.2143291	4.3605923	13:57:37
	1.00	0	4	-0.40	2.70	-1.2143291	6.9248525	13:58:48
	1.00	0	6	-0.40	4.70	-1.2143291	12.054373	14:00:00
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	14:01:11
	1.00	0	9	-0.40	7.70	-1.2143291	19.748654	14:02:23
	1.00	0	9	-0.40	7.70	-1.2143291	19.748654	14:03:35
	1.00	0	9	-0.40	7.70	-1.2143291	19.748654	14:04:46
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	14:05:58
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	14:07:10
	1.00	1	6	0.60	4.70	1.8214936	12.054373	14:08:21
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	14:09:33
	1.00	1	11	0.60	9.70	1.8214936	24.878174	14:10:45
	1.00	0	7	-0.40	5.70	-1.2143291	14.619133	14:11:56

BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: ROOF

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
					20	100	NDA	NDA
1to4	6/10/98	6/10/98	UPPER ROOF		<20	<100	NDA	NDA
5	6/10/98	6/10/98	HATCH		<20	<100	NDA	NDA
6,7	6/10/98	6/10/98	UPPER ROOF		<20	<100	NDA	NDA
8to13	6/10/98	6/10/98	UNDER VENTILATION HATCH AT FENCE AREA		<20	<100	NDA	NDA
14to17	6/10/98	6/10/98	TOP OF VENLTILATION HATCH		<20	<100	NDA	NDA
18to35	6/10/98	6/10/98	UPPER ROOF		<20	<100	NDA	NDA
36to50	6/10/98	6/10/98	LOWER ROOF		<20	<100	NDA	NDA
51to64	6/10/98	6/10/98	LOWER ROOF WALLS		<20	<100	NDA	NDA
65	6/10/98	6/10/98	LARGE VENTILATION WINDOW		<20	<100	NDA	NDA
66	6/10/98	6/10/98	SMALL VENTILATION WINDOW		<20	<100	NDA	NDA
67to94	6/10/98	6/10/98	UPPER ROOF		<20	<100	NDA	NDA
95	6/10/98	6/10/98	RAMP		<20	<100	NDA	NDA
96to101	6/10/98	6/10/98	METAL FENCE (SOLID)		<20	<100	NDA	NDA
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum 12	Ludlum 3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.3	0to1	60to80
EFFICIENCY	0.3294	0.3899	14%	13.10%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: [signature]

REVIEWED BY: DATE:

See Attachment ☒ Page 1 of 3

FORM 732-A REV 8-97

Rocketdyne Division

104 DESOTO ROOF
SMEARS 1-~~47~~ 50

SAMPLE EN	CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
1		1.00	2	3	1.70	1.30	5.1687443	3.3214103	13:31:04
2		1.00	1	2	-0.30	0.70	-.91213135	.74447931	13:32:14
3		1.00	0	1	-0.30	-0.70	-.91213135	-1.7884517	13:33:29
4		1.00	0	1	-0.30	-0.70	-.91213135	-1.7884517	13:34:39
5		1.00	0	7	-0.30	5.30	-.91213135	13.541134	13:35:51
6		1.00	1	4	0.70	2.30	2.1283065	5.8763413	13:37:07
7		1.00	2	6	1.70	4.30	5.1687443	10.986203	13:38:14
8		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	13:39:24
9		1.00	0	6	-0.30	4.30	-.91213135	10.986203	13:40:37
10		1.00	1	4	0.70	2.30	2.1283065	5.8763413	13:41:49
11		1.00	0	4	-0.30	2.30	-.91213135	5.8763413	13:43:01
12		1.00	0	2	-0.30	0.30	-.91213135	.74447931	13:44:17
13		1.00	1	1	0.70	-0.70	2.1283065	-1.7884517	13:45:24
14		1.00	1	9	0.70	7.30	2.1283065	18.450994	13:46:35
15		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	13:47:47
16		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	13:49:10
17		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	13:50:21
18		1.00	0	2	-0.30	0.30	-.91213135	.74447931	13:51:33
19		1.00	0	1	-0.30	-0.70	-.91213135	-1.7884517	13:52:44
20		1.00	2	3	1.70	1.30	5.1687443	3.3214103	13:53:54
21		1.00	1	4	0.70	3.30	2.1283065	8.4312724	13:55:05
22		1.00	0	4	-0.30	2.30	-.91213135	5.8763413	13:56:20
23		1.00	0	4	-0.30	2.30	-.91213135	5.8763413	13:57:31
24		1.00	1	8	0.70	6.30	2.1283065	14.996245	13:58:43
25		1.00	1	5	0.70	3.30	2.1283065	8.4312724	13:59:55
26		1.00	2	4	1.70	2.30	5.1687443	5.8763413	14:01:04
27		1.00	0	6	-0.30	4.30	-.91213135	10.986203	14:02:19
28		1.00	1	6	0.70	4.30	2.1283065	10.986203	14:03:30
29		1.00	1	4	0.70	2.30	2.1283065	5.8763413	14:04:41
30		1.00	1	4	0.70	2.30	2.1283065	5.8763413	14:05:53
31		1.00	0	2	-0.30	0.30	-.91213135	.74447931	14:07:05
32		1.00	1	4	0.70	2.30	2.1283065	5.8763413	14:08:16
33		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	14:09:28
34		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	14:10:40
35		1.00	1	6	0.70	4.30	2.1283065	10.986203	14:11:51
36		1.00	2	4	1.70	2.30	5.1687443	5.8763413	14:13:03
37		1.00	1	2	0.70	0.30	2.1283065	.74447931	14:14:15
38		1.00	1	6	0.70	4.30	2.1283065	10.986203	14:15:26
39		1.00	0	6	-0.30	4.30	-.91213135	10.986203	14:16:38
40		1.00	1	4	0.70	2.30	2.1283065	5.8763413	14:17:50
41		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	14:19:01
42		1.00	0	5	-0.30	3.30	-.91213135	8.4312724	14:20:13
43		1.00	0	2	-0.30	0.30	-.91213135	.74447931	14:21:25
44		1.00	0	2	-0.30	0.30	-.91213135	.74447931	14:22:36
45		1.00	2	5	1.70	3.30	5.1687443	8.4312724	14:23:48
46		1.00	2	1	1.70	-0.70	5.1687443	-1.7884517	14:25:00
47		1.00	1	4	0.70	2.30	2.1283065	5.8763413	14:26:11
48		1.00	1	8	0.70	6.30	2.1283065	14.996245	14:27:23
49		1.00	1	5	0.70	3.30	2.1283065	8.4312724	14:28:34
50		1.00	0	3	-0.30	1.30	-.91213135	3.3214103	14:29:46

104 DESOTO ROOF
SMEARS 51-101

GENIE1 1770
IP B .3926

SAMPLE NO.	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD C.DDD HR:MN:SEC
1	1.00	1	3	-0.30	1.30	-.91213135	3.3214103	14:33:1[illegible]
2	1.00	0	1	-0.30	-0.70	-.91213135	-1.7804517	14:34:2[illegible]
3	1.00	1	4	0.70	2.30	2.1283065	5.8763413	14:35:34
4	1.00	0	4	-0.30	2.30	-.91213135	5.8763413	14:36:45
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	1.00	0	3	-0.30	1.30	-.91213135	3.3214103	14:38:[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7664793[illegible]	14:40:[illegible]
8	1.00	0	4	-0.30	2.30	-.91213135	5.8763413	14:41:[illegible]
9	1.00	1	3	-0.30	1.30	-.91213135	3.3214103	14:42:43
10	1.00	0	3	-0.30	1.30	-.91213135	3.3214103	14:43:55
11	1.00	1	3	0.70	3.30	2.1283065	8.6312724	14:45:07
12	1.00	0	2	-0.30	0.30	-.91213135	.76647931	14:44:18
13	[illegible]	[illegible]	4	-0.30	4.30	-.91213135	10.984203	14:47:30
14	1.00	0	4	-0.30	2.30	-.91213135	5.8763413	14:48:42
15	1.00	2	2	1.70	0.30	5.1657443	.76647931	14:49:57
16	1.00	1	4	0.70	2.30	2.1283065	5.8763413	14:51:09
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.1657443	[illegible]	14:52:17
18	1.00	3	4	2.70	2.30	8.2791821	5.8763413	14:53:29
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.4312724	14:54:47
20	1.00	1	2	0.70	0.30	2.1283065	.76647931	14:55:50
21	1.00	2	4	1.70	2.30	5.1657443	5.8763413	14:57:04
22	1.00	0	2	-0.30	0.30	-.91213135	.76647931	14:58:15
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.91213135	.76647931	14:59:27
24	1.00	1	4	-0.30	2.30	-.91213135	5.8763413	15:00:38
25	1.00	1	2	-0.30	0.30	-.91213135	.76647931	15:01:50
26	1.00	0	0	-0.30	-1.70	-.91213135	-4.3433827	15:03:02
27	1.00	0	0	-0.30	-1.70	-.91213135	-4.3433827	15:04:14
28	1.00	0	2	-0.30	0.30	-.91213135	.76647931	15:05:25
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-.91213135	[illegible]	15:06:37
30	1.00	0	4	-0.30	2.30	-.91213135	5.8763413	15:07:45
31	1.00	1	3	-0.30	1.30	-.91213135	3.3214103	15:09:[illegible]
32	1.00	2	3	1.70	1.30	5.1657443	3.3214103	15:10:12
33	1.00	0	4	-0.30	2.30	-.91213135	5.8763413	15:11:23
34	1.00	0	3	-0.30	1.30	-.91213135	3.3214103	15:12:35
35	[illegible]	[illegible]	4	[illegible]	2.30	5.1657443	5.8763413	15:13:47
36	1.00	1	5	-0.30	3.30	-.91213135	8.4312724	15:14:55
37	[illegible]	[illegible]	3	0.70	1.30	2.1283065	3.3214103	[illegible]
38	1.00	0	5	-0.30	3.30	-.91213135	8.4312724	15:17:21
39	1.00	1	5	0.70	4.30	2.1283065	10.984203	15:18:33
40	1.00	0	3	-0.30	1.30	-.91213135	3.3214103	15:19:45
41	[illegible]	[illegible]	4	0.70	2.30	2.1283065	5.8763413	15:20:57
42	1.00	0	3	-0.30	1.30	-.91213135	3.3214103	15:22:[illegible]
43	[illegible]	[illegible]	4	0.70	2.30	2.1283065	5.8763413	15:23:[illegible]
44	1.00	0	2	-0.30	0.30	-.91213135	.76647931	15:24:[illegible]
45	1.00	0	3	-0.30	1.30	-.91213135	3.3214103	15:25:43
46	1.00	2	2	1.70	0.30	5.1657443	.76647931	15:26:55
47	[illegible]	[illegible]	2	0.70	0.30	2.1283065	[illegible]	15:28:[illegible]
48	1.00	1	4	-0.30	4.30	-.91213135	10.984203	15:29:[illegible]
49	[illegible]	[illegible]	5	0.70	3.30	2.1283065	8.4312724	[illegible]
50	1.00	0	5	-0.30	3.30	-.91213135	8.4312724	15:31:47
51	1.00	1	4	-0.30	4.30	-.91213135	10.984203	15:32:53
52								
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BOEING

RADIATION SURVEY REPORT

FACILITY: DeSoto Bldg. 104

LOCATION: ROOF

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Release Survey	UNITS	α dpm/100cm2	β dpm/100cm2	α cpm direct frisk	β cpm direct frisk
			DESCRIPTION	LIMIT	20	100	NDA	NDA
P1toP5	6/10/98	6/11/98	PAINT AND DEBRIS SAMPLES FROM THE ROOF AREA		<20	<100	NOT	APPLICABLE
			Direct Beta Frisk					
			Background Range:60 to 80 cpm					
			NDA= lowest background + 100cpm Beta					

COMMENTS:

INSTRUMENT	Tennelec	Tennelec	Ludlum 12	Ludlum 3
IDENTIFICATION	NO100394	NO100394	NO381722	EXO40902
CALIBRATION DUE	Daily	Daily	9/4/98	8/7/98
BACKGROUND	0.4	1.2	0to1	60to80
EFFICIENCY	0.3286	0.3965	14%	13.10%
COUNT TIME	1 min	1 min	NA	NA

SAMPLED RICHARD GARRETT ANALYZED BY: [illegible]

REVIEWED BY: [illegible] DATE: 11/2/98

See Attachment ☒ Page 1 of 2

FORM 732-A REV 8-93

Rocketdyne Division

104 DESOTO ROOF
PAINT AND DEBRIS SAMPLES P1-P5

JUN 11, 1998
NUP 3 .3926

SAMPLE SN	SAMPLE CODE	TIME (MIN.)	ALPHA COUNTS	BETA COUNTS	ALPHA CPM	BETA CPM	ALPHA CORRECTED	BETA CORRECTED	TOD CLOCK HR:MN:SEC
2	.3965	1.00	1	1	-0.40	-0.20	-1.2172855	-1.5441362	08:04:42
2	.3965	1.00	0	4	-0.40	4.80	-1.2172855	12.105927	08:05:54
4	.3965	1.00	2	2	1.40	2.40	4.8691418	7.8176545	08:07:05
4	.3965	1.00	2	3	1.40	1.80	4.8691418	4.5397226	08:08:17
8	.3965	1.00	0	4	-0.40	4.80	-1.2172855	12.105927	08:09:29

RSE 6/11/98