September 9, 2005

Stephen Hsu
Department of Health Services
Radiologic Health Branch
P. O. Box 997414
MS 7610
Sacramento, CA 95899-7414

Subject: Request to Perform Confirmatory Surveys of the Building 4024 Stack, Lead Shot and Facility Penetrations, Santa Susana Field Laboratory

Dear Sir:

Surveys of the facility stack, removed lead shot and the facility penetrations have been completed by Boeing.

All surveys were performed per the methods of Boeing's standard survey procedure, RS-00012 (Methods and Procedures for Radiological Monitoring, Rev A, 4/29/2003). All surveys were documented using Boeing's 732-A forms (enclosed).

Boeing requests that the Department of Health Services (DHS) perform confirmatory surveys of this equipment. The purpose of the DHS survey is to release this equipment for disposal at the Kettleman Hills hazardous waste site.

If you have any questions, please contact the undersigned at (818) 586-6140 or Ray McGinnis at (818) 586-5445.

Sincerely,

Phil Rutherford
Manager, Radiation Safety
Safety, Health and Environmental Affairs

RM:je

Enclosure: 732A forms and Tennelec gas proportional smear printouts.

cc w/o enclosure: Mike Lopez, DOE-OAK

SHEA-102421

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RADIATION SURVEY REPORT

FACILITY: T 024

LOCATION: Hepa Room Stack

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Survey inside of Stack / DESCRIPTION	UNITS / LIMIT	α dpm/100cm2	βγ dpm/100cm2	βγ cpm Direct Frisk	
				LIMIT	20	100	NA	
1 to 20	6/22/2005	6/22/2005	Survey inside stack up to 8'		<20	<100	NDA	
			NOTE: Direct Frisk, Nothing Detectable.					

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COMMENTS:

MDA = Minimum Detectable Activity NA=Not Applicable

MDA = ALPHA 13 dpm/100cm2, BETA 28 dpm/100cm2

No Detectable Activity (NDA) = Lowest Background + 100 cpm Beta

BKG = Background

INSTRUMENT	Tennelec		Model 3
IDENTIFICATION	NO 842489		EX054113
CALIBRATION DUE	Daily		8/1/2005
BACKGROUND	0.15 cpm	4.55 cpm	60 cpm
EFFICIENCY	32.13%	36.18%	12.00%
COUNT TIME	1 min		NA
See Attachment ☑	Page 1		2

SAMPLED BY: Bob Bass ANALYZED BY: R Bass

REVIEWED BY: Daniel [illegible] DATE: 6-22-05

FORM 732-A REV 8-97

Rocketdyne Division

Sample Report

Batch ID:	Smears 1 Minute Count - 200506221227	**Count Date:**	6/22/2005
Group:	A	**Count Minutes:**	1.0
Device:	HP Trailer Tennelec	**Count Mode:**	Simultaneous
Batch Key:	1,068	**Operating Volts:**	1425
Selected Geometry:	Swipe/Smear		Bldg. 24 Hepa Room Stack outside of Bldg.

Background (cpm)				**Efficiency (%)**			
Alpha Rate:	0.15	±	0.07	**Alpha:**	32.13	±	1.05
Beta Rate:	4.55	±	0.21	**Beta:**	36.18	±	0.80

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
20050622122730-A40 1	Unknown	-0.47	0.22	13	1.24	6.21	28
20050622122900-A10 2	Unknown	5.76	4.41	13	-1.52	5.56	28
20050622123010-A27 3	Unknown	2.65	3.12	13	-4.28	4.82	28
20050622123130-A37 4	Unknown	-0.47	0.22	13	-7.05	3.96	28
20050622123240-A21 5	Unknown	-0.47	0.22	13	-1.52	5.56	28
20050622123400-A45 6	Unknown	-0.47	0.22	13	1.24	6.21	28
20050622123510-A29 7	Unknown	-0.47	0.22	13	-7.05	3.96	28
20050622123620-A33 8	Unknown	-0.47	0.22	13	-1.52	5.56	28
20050622123740-A30 9	Unknown	-0.47	0.22	13	1.24	6.21	28
20050622123850-A35 10	Unknown	2.65	3.12	13	-7.05	3.96	28
20050622124010-A24 11	Unknown	-0.47	0.22	13	4.01	6.80	28
20050622124120-A34 12	Unknown	-0.47	0.22	13	-4.28	4.82	28
20050622124230-A3 13	Unknown	-0.47	0.22	13	4.01	6.80	28
20050622124350-A47 14	Unknown	2.65	3.12	13	-1.52	5.56	28
20050622124500-A32 15	Unknown	-0.47	0.22	13	-7.05	3.96	28
20050622124620-A25 16	Unknown	2.65	3.12	13	-9.81	2.83	28
20050622124730-A23 17	Unknown	-0.47	0.22	13	6.77	7.34	28
20050622124850-A7 18	Unknown	-0.47	0.22	13	1.24	6.21	28
20050622125000-A36 19	Unknown	-0.47	0.22	13	6.77	7.34	28
20050622125110-A6 20	Unknown	-0.47	0.22	13	6.77	7.34	28

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6/22/05

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RADIATION SURVEY REPORT

FACILITY: Bldg. 24

LOCATION: By Hepa Room

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Survey on Bldg. 24 Stack DESCRIPTION	UNITS LIMIT	α dpm/100cm2 20	βγ dpm/100cm2 100	mR/hr N/A	dpm/100 cm2 β direct NDA
			Survey on stack after in was dropped to ground. Surveyed the top					
			8' down into stack. The botom has already been surveyed.					
1 to 13	8/30/2005	8/30/2005	Down inside of stack		<20	<100	0.01	< Bkgd

COMMENTS:

MDA = Minimum Detectable Activity NA=Not Applicable

MDA = ALPHA 13 dpm/100cm2, BETA 27 dpm/100cm2

Bkgd = Background

NDA β = Lowest background + 100 cpm

INSTRUMENT	Tennelec		Bicron	Ludlum 3
IDENTIFICATION	NR 007137		EX040968	EX054113
CALIBRATION DUE	Daily		9/8/2005	11/14/2005
BACKGROUND	0.15 cpm	4.50 cpm	0.010 mR/hr	60 cpm
EFFICIENCY	33.73%	37.95%	N/A	12.00%
COUNT TIME	1 min		N/A	NA
See Attachment ☐	Page 1		2	

SAMPLED BY: Bob Bass ANALYZED BY: R Bass

REVIEWED BY: [signature] DATE: 9/7/05

FORM 732-A REV 8-97

Rocketdyne Division

Sample Report

Batch ID:	Smears 1 Minute Count - 200508300910	**Count Date:**	8/30/2005
Group:	A	**Count Minutes:**	1.0
Device:	RMHF Tennelec (NR 007137)	**Count Mode:**	Simultaneous
Batch Key:	467	**Operating Volts:**	1477
Selected Geometry:	Swipe/Smear	**Comments**	Bldg. 24 Stack Top 8 feet smears

Background (cpm)			**Efficiency (%)**		
Alpha Rate:	0.15	± 0.07	**Alpha:**	33.73	± 1.01
Beta Rate:	4.50	± 0.99	**Beta:**	37.95	± 0.96

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
20050830091016-A83 1	Unknown	5.48	4.20	13	9.22	7.90	27
20050830091147-A19 2	Unknown	-0.44	0.21	13	22.40	9.87	27
20050830091257-A66 3	Unknown	5.48	4.20	13	11.86	8.33	27
20050830091407-A37 4	Unknown	-0.44	0.21	13	-1.32	5.88	27
20050830091527-A10 5	Unknown	-0.44	0.21	13	9.22	7.90	27
20050830091637-A22 6	Unknown	5.48	4.20	13	9.22	7.90	27
20050830091747-A2 7	Unknown	-0.44	0.21	13	11.86	8.33	27
20050830091857-A6 8	Unknown	-0.44	0.21	13	-3.95	5.26	27
20050830092017-A36 9	Unknown	-0.44	0.21	13	1.32	6.44	27
20050830092127-A2 10	Unknown	-0.44	0.21	13	-1.32	5.88	27
20050830092237-A88 11	Unknown	-0.44	0.21	13	6.59	7.44	27
20050830092347-A19 12	Unknown	-0.44	0.21	13	1.32	6.44	27
20050830092507-A23 13	Unknown	-0.44	0.21	13	-3.95	5.26	27

BB 8/30/05
115 Top of Bldg 24 STACK, First 8'

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Print Date 8/30/2005
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RADIATION SURVEY REPORT

FACILITY: T 024

LOCATION: Hi-Bay Mezz

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Survey of lead waste trash DESCRIPTION	UNITS LIMIT	α dpm/100cm2 20	βγ dpm/100cm2 100	βγ cpm Direct Frisk NA	
1 to 15	6/6/2005	6/6/2005	Smears on lead waste trash bags, Inside and Outside of bags		<20	<100	NDA	
			Waste came from pulling lead window out of center cell in basement					
			Direct frisk nothing was detected. Bob Bass					

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COMMENTS:

MDA = Minimum Detectable Activity NA=Not Applicable

MDA = ALPHA 13 dpm/100cm2, BETA 27 dpm/100cm2

No Detectable Activity (NDA) = Lowest Background + 100 cpm Beta

BKG = Background

INSTRUMENT	Tennelec		Ludlum 3	
IDENTIFICATION	NO 842489		EX040899	
CALIBRATION DUE	Daily		8/15/2005	
BACKGROUND	0.10 cpm	4.00 cpm	60 cpm	
EFFICIENCY	32.24%	36.21%	12.00%	
COUNT TIME	1 min		NA	
See Attachment ☑	Page	1	2	

SAMPLED BY: Bob Bass ANALYZED BY: [signature]

REVIEWED BY: [signature] DATE: 6/6/05

FORM 732-A REV 8-97

Rocketdyne Division

Sample Report

Batch ID:	Smears 1 Minute Count - 200506061110	**Count Date:**	6/6/2005
Group:	A	**Count Minutes:**	1.0
Device:	HP Trailer Tennelec	**Count Mode:**	Simultaneous
Batch Key:	1,017	**Operating Volts:**	1425
Selected Geometry:	Swipe/Smear		Smears on lead waste trash inside and outside of bags

Background (cpm)				**Efficiency (%)**			
Alpha Rate:	0.10	±	0.00	**Alpha:**	32.24	±	1.05
Beta Rate:	4.00	±	0.99	**Beta:**	36.21	±	0.80

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
20050606111038-A27 1	Unknown	-0.31	0.01	13	2.76	6.75	27
20050606111208-A15 2	Unknown	-0.31	0.01	13	-2.76	5.51	27
20050606111318-A16 3	Unknown	2.79	3.10	13	-5.52	4.77	27
20050606111438-A25 4	Unknown	-0.31	0.01	13	-2.76	5.51	27
20050606111548-A5 5	Unknown	-0.31	0.01	13	-5.52	4.77	27
20050606111708-A21 6	Unknown	-0.31	0.01	13	-5.52	4.77	27
20050606111818-A33 7	Unknown	5.89	4.39	13	-2.76	5.51	27
20050606111938-A23 8	Unknown	-0.31	0.01	13	0.00	6.16	27
20050606112048-A36 9	Unknown	-0.31	0.01	13	-5.52	4.77	27
20050606112158-A45 10	Unknown	-0.31	0.01	13	-5.52	4.77	27
20050606112318-A30 11	Unknown	-0.31	0.01	13	-2.76	5.51	27
20050606112428-A7 12	Unknown	-0.31	0.01	13	0.00	6.16	27
20050606112548-A29 13	Unknown	2.79	3.10	13	-2.76	5.51	27
20050606112658-A22 14	Unknown	-0.31	0.01	13	-5.52	4.77	27
20050606112808-A9 15	Unknown	-0.31	0.01	13	0.00	6.16	27

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6/6/05

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RADIATION SURVEY REPORT

FACILITY: T 024

LOCATION: Hi-Bay Mezz

SAMPLE NUMBER	DATE SAMPLED	DATE ANALYZED	PURPOSE: Survey of Lead Shot and Wool in Drums. DESCRIPTION	UNITS / LIMIT	α dpm/100cm2	βγ dpm/100cm2	βγ cpm Direct Frisk	α direct frisk
					20	100	NA	20
			Gamma Spectrum Analysis Reports abe Attached.					
			Report Number					
1 to 3	4/29/2005	4/27/2005	24-05-0016 Lead Shot Drum# L-1149		<20	<100	NDA	NDA
4 to 6	4/29/2005	4/28/2005	24-05-0017 Lead Wool No Number		<20	<100	NDA	NDA
7 to 9	4/29/2005	4/28/2005	24-05-0018 Lead Shot Drum# L-1153		<20	<100	NDA	NDA
10 to 13	5/20/2005	5/3/2005	24-05-0019 Cloths pulled thru Penetrations Bottle #1		<20	<100	NDA	NDA
			Penetration #'s M1 to M14		<20	<100	NDA	NDA
14 to 17	5/20/2005	5/3/2005	24-05-0020 Cloths pulled thru Penetrations Bottle #2		<20	<100	NDA	NDA
			Penetration #'s M15 to M28		<20	<100	NDA	NDA
18 to 20	5/20/2005	5/18/2005	24-05-0021 Cloths pulled thru Penetrations Bottle #3		<20	<100	NDA	NDA
			Penetration #'s B-1 to B-30					
21 to 24	5/20/2005	5/18/2005	24-05-0022 Cloths pulled thru Penetrations Bottle #4		<20	<100	NDA	NDA
			Penetration #'s B-31 to B-60					
25 to 28	5/20/2005	5/18/2005	24-05-0023 Cloths pulled thru Penetrations Bottle #5		<20	<100	NDA	NDA
			Penetration #'s B-61 to B-67					
29 to 31	5/20/2005	5/20/2005	24-05-0025 Lead Shot Drum# L-1154		<20	<100	NDA	NDA
32 to 34	5/20/2005	5/20/2005	24-05-0026 Lead Wool, Small Blue Drum, No Number		<20	<100	NDA	NDA
35 to 42	5/20/2005	6/1/2005	24-05-0027 Lead Shot From Floor Plug In Hi-Bay		<20	<100	NDA	NDA
43 to 52	2/28/2005	2/28/2005	Wall Plugs on Mezz in Hi-Bay Numbers 1 to 10		<20	<100	NDA	NDA
			Direct Frisk Lead Shot, Wool and Penetrations and Cloth rags		<20	<100	NDA	NDA

COMMENTS: M= Mezz B = Basement

MDA = Minimum Detectable Activity NA=Not Applicable

MDA = ALPHA 13 dpm/100cm2, BETA 27 dpm/100cm2

No Detectable Activity (NDA) = Lowest Background + 100 cpm Beta

BKG = Background

INSTRUMENT	Tennelec		Ludlum 3	Ludlum 12
IDENTIFICATION	NO 842489		EX040899	NO381728
CALIBRATION DUE	Daily		8/15/2005	8/5/2005
BACKGROUND	SEE ATTACHED	SHEETS	60 to 80 cpm	0 cpm
EFFICIENCY	FOR DAILY	INFORMATION	12.00%	29.00%
COUNT TIME	1 min		NA	NA
See Attachment ☑	Page 1		29	

SAMPLED BY: Bob Bass ANALYZED BY: N Bass

REVIEWED BY: [signature] DATE: 6-2-05

FORM 732-A REV 8-97

Rocketdyne Division

Sample Report

Batch ID:	Smears 1 Minute Count - 200504290735	**Count Date:**	4/29/2005
Group:	A	**Count Minutes:**	1.0
Device:	HP Trailer Tennelec	**Count Mode:**	Simultaneous
Batch Key:	859	**Operating Volts:**	1425
Selected Geometry:	Swipe/Smear		Lead Drums From Bldg 24

	Background (cpm)			Efficiency (%)		
Alpha Rate:	0.15	±	0.21	**Alpha:**	33.23	± 1.09
Beta Rate:	4.55	±	1.63	**Beta:**	36.57	± 0.81

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
20050429073541-A6 1	Unknown	-0.45	0.64	13	1.23	7.56	28
20050429073711-A14 2	Unknown	-0.45	0.64	13	-12.44	4.46	28
20050429073821-A47 3	Unknown	-0.45	0.64	13	-12.44	4.46	28
20050429073941-A17 4	Unknown	-0.45	0.64	13	1.23	7.56	28
20050429074051-A45 5	Unknown	2.56	3.08	13	-1.50	7.05	28
20050429074211-A31 6	Unknown	-0.45	0.64	13	-6.97	5.90	28
20050429074321-A24 7	Unknown	-0.45	0.64	13	-12.44	4.46	28
20050429074431-A30 8	Unknown	-0.45	0.64	13	-6.97	5.90	28
20050429074551-A30 9	Unknown	-0.45	0.64	13	-6.97	5.90	28

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Sample Report

Batch ID:	Smears 1 Minute Count - 200505200821	**Count Date:**	5/20/2005
Group:	A	**Count Minutes:**	1.0
Device:	HP Trailer Tennelec	**Count Mode:**	Simultaneous
Batch Key:	964	**Operating Volts:**	1425
Selected Geometry:	Swipe/Smear		

Penetrations Smears on Cloths and 2 Druns of Lead From Bldg 24 5-20-2005

Background (cpm)				**Efficiency (%)**			
Alpha Rate:	0.05	±	0.07	**Alpha:**	33.23	±	1.09
Beta Rate:	2.75	±	0.49	**Beta:**	37.23	±	0.82

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
20050520082146-A3	Unknown 10	-0.15	0.21	11	8.73	6.71	23
20050520082316-A24 2	Unknown 11	2.86	3.02	11	6.04	6.15	23
20050520082426-A74 3	Unknown 12	-0.15	0.21	11	11.41	7.23	23
20050520082546-A26 4	Unknown 13	-0.15	0.21	11	-4.70	3.00	23
20050520082656-A6 5	Unknown 14	-0.15	0.21	11	-4.70	3.00	23
20050520082816-A30 6	Unknown 15	-0.15	0.21	11	6.04	6.15	23
20050520082926-A23 7	Unknown 16	-0.15	0.21	11	-2.01	4.02	23
20050520083036-A22 8	Unknown 17	-0.15	0.21	11	8.73	6.71	23
20050520083156-A7 9	Unknown 18	5.87	4.27	11	11.41	7.23	23
20050520083306-A29 10	Unknown 19	-0.15	0.21	11	6.04	6.15	23
20050520083426-A15 11	Unknown 20	-0.15	0.21	11	-4.70	3.00	23
20050520083536-A16 12	Unknown 21	-0.15	0.21	11	6.04	6.15	23
20050520083646-A45 13	Unknown 22	-0.15	0.21	11	6.04	6.15	23
20050520083806-A27 14	Unknown 23	2.86	3.02	11	-2.01	4.02	23
20050520083916-A9 15	Unknown 24	-0.15	0.21	11	0.67	4.84	23
20050520084036-A42 16	Unknown 25	2.86	3.02	11	6.04	6.15	23
20050520084146-A42 17	Unknown 26	-0.15	0.21	11	0.67	4.84	23
20050520084256-A21 18	Unknown 27	-0.15	0.21	11	0.67	4.84	23
20050520084416-A36 19	Unknown 28	-0.15	0.21	11	8.73	6.71	23
20050520084526-A33 20	Unknown 29	-0.15	0.21	11	6.04	6.15	23
20050520084636-A25 21	Unknown 30	-0.15	0.21	11	6.04	6.15	23
20050520084756-A32 22	Unknown 31	5.87	4.27	11	0.67	4.84	23
20050520084906-A47 23	Unknown 32	-0.15	0.21	11	-4.70	3.00	23
20050520085026-A19 24	Unknown 33	-0.15	0.21	11	-4.70	3.00	23
20050520085136-A34 25	Unknown 34	-0.15	0.21	11	3.36	5.53	23

5/20/05

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Sample Report

Batch ID:	Smears 1 Minute Count - 200505310704	**Count Date:**	5/31/2005
Group:	A	**Count Minutes:**	1.0
Device:	HP Trailer Tennelec	**Count Mode:**	Simultaneous
Batch Key:	991	**Operating Volts:**	1425
Selected Geometry:	Swipe/Smear		Lead Shot and Drum From Bldg 24 6-1-05

Background (cpm)				**Efficiency (%)**			
Alpha Rate:	0.15	±	0.07	**Alpha:**	32.99	±	1.08
Beta Rate:	3.70	±	0.85	**Beta:**	36.58	±	0.81

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
20050531070421-A27 35	Unknown	-0.45	0.21	13	-4.65	4.51	26
20050531070551-A21 36	Unknown	-0.45	0.21	13	-4.65	4.51	26
20050531070701-A6 37	Unknown	-0.45	0.21	13	-7.38	3.59	26
20050531070821-A9 38	Unknown	-0.45	0.21	13	-7.38	3.59	26
20050531070931-A23 39	Unknown	2.58	3.04	13	-7.38	3.59	26
20050531071051-A33 40	Unknown	-0.45	0.21	13	-7.38	3.59	26
20050531071201-A15 41	Unknown	-0.45	0.21	13	-4.65	4.51	26
20050531071311-A22 42	Unknown	-0.45	0.21	13	-10.11	2.33	26

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Print Date 9/9/2005
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Sample Report

Batch ID:	Smears 1 Minute Count - 200502280930	**Count Date:**	2/28/2005
Group:	A	**Count Minutes:**	1.0
Device:	HP Trailer Tennelec	**Count Mode:**	Simultaneous
Batch Key:	611	**Operating Volts:**	1425
Selected Geometry:	Swipe/Smear		

Plugs From Mezz Wall in Hi_bay Bldg 24
2-28-2005

	Background (cpm)				Efficiency (%)		
Alpha Rate:	0.30	±	0.28	**Alpha:**	32.96	±	1.08
Beta Rate:	3.40	±	0.28	**Beta:**	36.43	±	0.80

Sample ID	Sample Type	Alpha (dpm)	Unc	Alpha MDA (dpm)	Beta (dpm)	Unc	Beta MDA (dpm)
20050228093048-A37 43	Unknown	-0.91	0.86	15	4.39	6.19	25
20050228093218-A15 44	Unknown	-0.91	0.86	15	-3.84	3.96	25
20050228093328-A42 45	Unknown	-0.91	0.86	15	-9.33	0.80	25
20050228093448-A74 46	Unknown	-0.91	0.86	15	7.14	6.77	25
20050228093558-A31 47	Unknown	-0.91	0.86	15	-3.84	3.96	25
20050228093718-A49 48	Unknown	-0.91	0.86	15	-1.10	4.82	25
20050228093828-A10 49	Unknown	-0.91	0.86	15	-1.10	4.82	25
20050228093938-A25 50	Unknown	-0.91	0.86	15	-1.10	4.82	25
20050228094058-A35 51	Unknown	-0.91	0.86	15	-1.10	4.82	25
20050228094208-A28 52	Unknown	-0.91	0.86	15	-1.10	4.82	25

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2/28/05

COPY

Reviewed by: RBan

Print Date 9/9/2005
Print Time 9:22:39AM

C:\Eclipse\sample report.rpt

April 2005
Tennelec # NO 842489Counter Control Log

Day	a Background 1 *c/10 min.*	α Background 2 *c/10 min.*	β Background 1 *c/10 min.*	β Background 2 *c/10 min.*	α Source Count *cpm*	β Source Count *cpm*	α Daily Bkg. *cpm*	β Daily Bkg. *cpm*	α Counter Efficiency %	β Counter Efficiency %
1	1	3	41.0	47.0	3414.10	3592.00	0.20	4.40	33.42	36.73
2										
3										
4	1	3	48.0	45.0	3384.60	3585.40	0.20	4.65	33.13	36.66
5										
6	0	1	70.0	66.0	3233.30	3632.00	0.05	6.80	31.65	37.14
7	1	2	60.0	58.0	3425.50	3611.30	0.15	5.90	33.53	36.93
8	1	1	48.0	43.0	3326.90	3554.10	0.10	4.55	32.56	36.34
9										
10										
11	3	0	58.0	45.0	3358.50	3647.50	0.15	5.15	32.87	37.30
12	0	0	52.0	57.0	3382.00	3610.40	0.00	5.45	33.10	36.92
13	1	0	37.0	48.0	3370.00	3577.20	0.05	4.25	32.99	36.58
14										
15	1	1	57.0	49.0	3380.90	3578.80	0.10	5.30	33.09	36.59
16										
17										
18	1	3	47.0	50.0	3340.00	3558.90	0.20	4.85	32.69	36.39
19	0	1	51.0	53.0	3337.30	3550.70	0.05	5.20	32.67	36.31
20	0	1	52.0	41.0	3431.60	3554.20	0.05	4.65	33.59	36.34
21	2	0	36.0	45.0	3335.50	3561.80	0.10	4.05	32.65	36.42
22	1	1	53.0	57.0	3383.80	3589.10	0.10	5.50	33.12	36.70
23										
24										
25	3	0	54.0	43.0	3427.00	3544.80	0.15	4.85	33.54	36.25
26										
27	2	2	49.0	45.0	3430.30	3585.70	0.20	4.70	33.58	36.66
28	1	1	42.0	43.0	3342.80	3643.90	0.10	4.25	32.72	37.26
29	0	3	57.0	34.0	3395.20	3576.40	0.15	4.55	33.23	36.57
30										
31										

Note:Background and Efficiency AreTaken Off The Daily Tennelec Printout

COPY

α Source:Th230# S-4065 10217 dpm
β Source:Tc99# S-4071 9780 dpm

May 2005
Tennelec # NO 842489Counter Control Log

Day	a Background 1 *c/10 min.*	α Background 2 *c/10 min.*	β Background 1 *c/10 min.*	β Background 2 *c/10 min.*	α Source Count *cpm*	β Source Count *cpm*	α Daily Bkg. *cpm*	β Daily Bkg. *cpm*	α Counter Efficiency *%*	β Counter Efficiency *%*
1										
2	2	0	33.0	42.0	3380.50	3596.70	0.10	3.75	33.09	36.78
3	2	3	48.0	48.0	3381.60	3564.40	0.25	4.80	33.10	36.45
4	2	3	49.0	37.0	3368.20	3616.30	0.25	4.30	32.97	36.98
5	0	4	55.0	53.0	3365.40	3608.30	0.20	5.40	32.94	36.90
6	1	1	47.0	57.0	3371.90	3656.80	0.10	5.20	33.00	37.39
7										
8										
9	2	3	45.0	34.0	3395.40	3629.80	0.25	3.95	33.23	37.12
10	3	0	41.0	33.0	3401.50	3627.20	0.15	3.70	33.29	37.09
11	0	2	46.0	40.0	3366.80	3638.10	0.10	4.30	32.95	37.20
12	2	3	49.0	42.0	3408.70	3631.80	0.25	4.55	33.36	37.14
13	0	0	53.0	54.0	3326.50	3560.80	0.00	5.35	32.56	36.41
14										
15	0	1	33.0	51.0	3408.00	3643.70	0.05	4.20	33.36	37.26
16	2	0	39.0	39.0	3370.00	3648.70	0.10	3.90	32.99	37.31
17	2	0	46.0	37.0	3421.20	3647.00	0.10	4.15	33.49	37.29
18	2	1	59.0	40.0	3393.40	3544.50	0.15	4.95	33.21	36.24
19	1	1	50.0	45.0	3430.90	3627.60	0.10	4.75	33.58	37.09
20	0	1	24.0	31.0	3395.10	3641.40	0.05	2.75	33.23	37.23
21										
22										
23	1	1	48.0	44.0	3378.80	3612.00	0.10	4.60	33.07	36.93
24	0	1	46.0	43.0	3410.90	3613.50	0.05	4.45	33.39	36.95
25	4	3	27.0	45.0	3371.80	3580.50	0.35	3.60	33.00	36.61
26	1	1	54.0	48.0	3360.40	3583.90	0.10	4.10	32.89	36.65
27	1	4	62.0	34.0	3359.70	3598.20	0.25	4.80	32.88	36.79
28										
29										
30										
31	1	2	43.0	31.0	3370.20	3577.70	0.15	3.70	32.99	36.58

Note:Background and Efficiency AreTaken Off The Daily Tennelec Printout

COPY

α Source:Th230# S-4065 10217 dpm
β Source:Tc99# S-4071 9780 dpm

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	4/27/05 2:38:15 PM
Sample Identification	:	024050016M
Spectrum Description	:	Lead shot from 4024 Lead Glass Window
MCA Number	:	System #1
Sample Type	:	Lead
Sample Geometry	:	1
Peak Locate Threshold	:	7.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	350 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	3.444E+003 g
Sample Taken On	:	4/27/05 9:00:00 AM
Acquisition Started	:	4/27/05 2:08:52 PM
Live Time	:	1200.0 seconds
Real Time	:	1200.1 seconds

Energy Calibration Used Done On : 8/25/04
Efficiency Calibration Used Done On : 8/25/04

Report Reviewed and
Conforms to RS-00017

By: ER [signature] Date: 4-27-05

Radiation Safety

NOTE:COPY1

Acceptable for Non-radioactive Disposal
(See Rocketdyne N001OP000034)

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050016M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/g)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/g)

Total Sample Activity... 0.0000E+000 pCi/g

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	4/29/05 10:25:28 AM
Sample Identification	:	024050017M
Spectrum Description	:	4024 Lead Wool From Lead Glass Window
MCA Number	:	System #1
Sample Type	:	Lead
Sample Geometry	:	1
Peak Locate Threshold	:	7.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	350 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	1.165E+003 g
Sample Taken On	:	4/28/05 9:00:00 AM
Acquisition Started	:	4/29/05 9:55:28 AM
Live Time	:	1200.0 seconds
Real Time	:	1391.8 seconds

Energy Calibration Used Done On : 8/25/04
Efficiency Calibration Used Done On : 8/25/04

Report Reviewed and
Conforms to RS-00017

By: ER McGinnis Date: 4-29-05

Radiation Safety

NOTE:COPY1

COPY

Acceptable for Non-radioactive Disposal
(See Rocketdyne N001OP000034)

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050017M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/g)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/g)

Total Sample Activity... 0.0000E+000 pCi/g

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                B O E I N G   C A N O G A   P A R K                *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R     *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B          *****
*****                                                                    *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T       *****
*****************************************************************************
```

Report Generated On	:	4/29/05 10:49:44 AM
Sample Identification	:	024050018M
Spectrum Description	:	4024 Lead Shot From Lead Glass Window
MCA Number	:	System #1
Sample Type	:	Lead
Sample Geometry	:	1
Peak Locate Threshold	:	7.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	350 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	3.705E+003 g
Sample Taken On	:	4/28/05 9:00:00 AM
Acquisition Started	:	4/29/05 10:25:02 AM
Live Time	:	1200.0 seconds
Real Time	:	1391.7 seconds

Energy Calibration Used Done On : 8/25/04
Efficiency Calibration Used Done On : 8/25/04

Report Reviewed and
Conforms to RS-00017 By: ERMEDimmes Date: 4-29-05

Radiation Safety

NOTE:COPY1

Acceptable for Non-radioactive Disposal
(See Rocketdyne N001OP000034)

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050018M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/g)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/g)

Total Sample Activity... 0.0000E+000 pCi/g

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B          *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	9/8/05 1:25:25 PM
Sample Identification	:	024050019M
Spectrum Description	:	Swiped pipe penetrations, Hibay, Mezz 1
MCA Number	:	System #1
Sample Type	:	Wipes
Sample Geometry	:	3
Peak Locate Threshold	:	4.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	1 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	1.000E+000 Bottle
Sample Taken On	:	5/3/05 9:00:00 AM
Acquisition Started	:	5/4/05 12:17:55 PM
Live Time	:	1000.0 seconds
Real Time	:	1000.1 seconds

Energy Calibration Used Done On : 8/26/04
Efficiency Calibration Used Done On : 8/26/04

Report Reviewed and
Conforms to RS-00017 By: [signature] Date: 9-8-05

Radiation Safety

NOTE:COPY1

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050019M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/Bottle)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/Bottle)

Total Sample Activity... 0.0000E+000 pCi/Bottle

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	9/8/05 1:29:40 PM
Sample Identification	:	024050020M
Spectrum Description	:	Swiped pipe penetrations, Hibay, Mezz 1
MCA Number	:	System #1
Sample Type	:	Wipes
Sample Geometry	:	3
Peak Locate Threshold	:	4.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	1 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	1.000E+000 Bottle
Sample Taken On	:	5/3/05 9:00:00 AM
Acquisition Started	:	5/4/05 12:45:07 PM
Live Time	:	1000.0 seconds
Real Time	:	1000.1 seconds

Energy Calibration Used Done On : 8/26/04
Efficiency Calibration Used Done On : 8/26/04

Report Reviewed and
Conforms to RS-00017

By: [signature] Date: 9-8-05

Radiation Safety

NOTE:COPY1

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050020M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/Bottle)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/Bottle)

Total Sample Activity... 0.0000E+000 pCi/Bottle

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	9/8/05 1:33:23 PM
Sample Identification	:	024050021M
Spectrum Description	:	Well RD - 93.
MCA Number	:	System #1
Sample Type	:	Soil
Sample Geometry	:	1
Peak Locate Threshold	:	4.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	1 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	7.920E+002 g
Sample Taken On	:	5/23/05 9:00:00 AM
Acquisition Started	:	5/23/05 2:00:54 PM
Live Time	:	1000.0 seconds
Real Time	:	1000.2 seconds

Energy Calibration Used Done On : 8/25/04
Efficiency Calibration Used Done On : 8/25/04

Report Reviewed and
Conforms to RS-00017

By: [signature] Date: 9-8-05

Radiation Safety

NOTE:COPY1

COPY

****
***** I N T E R F E R E N C E C O R R E C T E D R E P O R T 2 *****
****

Sample Identification : 024050021M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/g)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/g)
K-40	0.999	1.423E+001	1.610E+000	95.49%	4.898E-001
PB-212T @	0.565	6.726E-001	8.319E-002	4.51%	8.886E-002

Total Sample Activity... 1.4905E+001 pCi/g

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	9/8/05 1:41:24 PM
Sample Identification	:	024050022M
Spectrum Description	:	Basement penetrations Building 24.
MCA Number	:	System #1
Sample Type	:	Cloth
Sample Geometry	:	3
Peak Locate Threshold	:	4.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	1 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	1.000E+000 1
Sample Taken On	:	5/18/05 9:00:00 AM
Acquisition Started	:	5/19/05 1:13:28 PM
Live Time	:	1000.0 seconds
Real Time	:	1000.1 seconds

Energy Calibration Used Done On : 8/26/04
Efficiency Calibration Used Done On : 8/26/04

Report Reviewed and
Conforms to RS-00017

By: [signature] Date: 9-8-05

Radiation Safety

NOTE:COPY1

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050022M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/l)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/l)

Total Sample Activity... 0.0000E+000 pCi/l

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	9/8/05 1:43:44 PM
Sample Identification	:	024050023M
Spectrum Description	:	Basement penetrations Building 24.
MCA Number	:	System #1
Sample Type	:	Cloth
Sample Geometry	:	3
Peak Locate Threshold	:	4.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	1 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	1.000E+000 1
Sample Taken On	:	5/18/05 9:00:00 AM
Acquisition Started	:	5/19/05 1:41:07 PM
Live Time	:	1000.0 seconds
Real Time	:	1000.1 seconds

Energy Calibration Used Done On : 8/26/04
Efficiency Calibration Used Done On : 8/26/04

Report Reviewed and
Conforms to RS-00017

By: [signature] Date: 9-8-05

Radiation Safety

NOTE:COPY1

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050023M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/1)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/1)

Total Sample Activity... 0.0000E+000 pCi/1

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
**  ***************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R       *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T         *****
**************************************************************************
```

Report Generated On	:	5/24/05 9:47:20 AM
Sample Identification	:	024050025M
Spectrum Description	:	Lead shot.
MCA Number	:	System #1
Sample Type	:	Lead
Sample Geometry	:	1
Peak Locate Threshold	:	7.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	350 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	3.522E+003 g
Sample Taken On	:	5/19/05 9:00:00 AM
Acquisition Started	:	5/24/05 9:29:15 AM
Live Time	:	1000.0 seconds
Real Time	:	1000.0 seconds

Energy Calibration Used Done On : 8/25/04
Efficiency Calibration Used Done On : 8/25/04

Report Reviewed and Conforms to RS-00017

By: [signature] Date: 5-24-05

Radiation Safety

NOTE:COPY1

Acceptable for Non-radioactive Disposal
(See Rocketdyne N001OP000034)

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050025M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/g)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/g)

Total Sample Activity... 0.0000E+000 pCi/g

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	5/26/05 10:20:56 AM
Sample Identification	:	024050026M
Spectrum Description	:	Lead wool.
MCA Number	:	System #1
Sample Type	:	Lead
Sample Geometry	:	1
Peak Locate Threshold	:	7.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	350 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	9.560E+002 g
Sample Taken On	:	5/19/05 9:00:00 AM
Acquisition Started	:	5/26/05 10:02:56 AM
Live Time	:	1000.0 seconds
Real Time	:	1000.0 seconds

Energy Calibration Used Done On	:	8/25/04
Efficiency Calibration Used Done On	:	8/25/04

Report Reviewed and Conforms to RS-00017

By: [signature] Date: 5-26-05

Radiation Safety

NOTE:COPY1

Acceptable for Non-radioactive Disposal
(See Rocketdyne N001OP000034)

COPY

```
*****************************************************************************
*****   I N T E R F E R E N C E   C O R R E C T E D   R E P O R T 2 *****
*****************************************************************************
```

Sample Identification : 024050026M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/g)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/g)

Total Sample Activity... 0.0000E+000 pCi/g

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

```
*****************************************************************************
*****                 B O E I N G   C A N O G A   P A R K                 *****
*****  R O C K E T D Y N E   P R O P U L S I O N   A N D   P O W E R      *****
*****       S H E A -   R A D I A T I O N   S A F E T Y   L A B           *****
*****                                                                     *****
*****  G A M M A   S P E C T R U M   A N A L Y S I S   R E P O R T        *****
*****************************************************************************
```

Report Generated On	:	9/8/05 1:46:13 PM
Sample Identification	:	024050027M
Spectrum Description	:	Bldg. 24 lead shot from floor plug.
MCA Number	:	System #1
Sample Type	:	Lead
Sample Geometry	:	1
Peak Locate Threshold	:	4.00
Peak Locate Range (in channels)	:	350 - 16384
Peak Area Range (in channels)	:	1 - 16384
Identification Energy Tolerance	:	1.000 keV
Sample Size	:	1.804E+003 g
Sample Taken On	:	6/1/05 9:00:00 AM
Acquisition Started	:	6/3/05 2:34:32 PM
Live Time	:	1000.0 seconds
Real Time	:	1000.1 seconds

Energy Calibration Used Done On : 8/25/04
Efficiency Calibration Used Done On : 8/25/04

Report Reviewed and
Conforms to RS-00017

By: [signature] Date: 9-8-05

Radiation Safety

NOTE:COPY1

COPY

****
***** I N T E R F E R E N C E C O R R E C T E D R E P O R T 2 *****
****

Sample Identification : 024050027M

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/g)	Wt mean Activity Uncertainty	Percent Total Act.	Nuclide MDA (pCi/g)

Total Sample Activity... 0.0000E+000 pCi/g

? = nuclide is part of an undetermined solution
X = nuclide rejected by the interference analysis
@ = nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 2.000 sigma

COPY

DATE: 9/9/05

D/092 OUTGOING **ENVIRONMENTAL**

OUTGOING LETTER NUMBER

SHEA - 102421

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