

**Georgia Institute of Technology  
Research Reactor**

**Final Survey Package 15**

**Air Compressor Room**

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## **Section 1**

# **Survey Package 15 Worksheet for Air Compressor Room**

Duratek Inc.  
Survey Package Worksheet for Air Compressor Room  
Georgia Institute of Technology Research Reactor

Package Identification No.: 15	Prepared by: Paul Jones
Location: Air Compressor Room	Date prepared: 06/5/2001
Area Classification: Suspect Affected	

#### Area Description

The survey area consists of the air compressor room located in the basement of the reactor building. This package includes the floor, the walls and ceiling of this room.

#### Historical Information

The air compressor room was built in the 1970's. The two air compressors and their support piping were moved from behind the motor control center to the air compressor room in the 1970's. This relocation was to minimize noise and for other safety concerns.

The two air compressors and their support piping were removed during January 2001 in support of the reactor decommissioning.

#### General Survey Instructions

Floor, walls and ceiling of the air compressor room.

- 1) Ensure the area is gridded as shown on the grid map(s).
- 2) Perform a 100% beta scan on the floor and walls to identify areas of elevated activity.
- 3) Obtain 1 direct beta measurement for each 1 m<sup>2</sup>.
- 4) Obtain 1 smear for removable beta and alpha contamination for each 1 m<sup>2</sup> of area.
- 5) Obtain 1 exposure rate measurement at 1 meter above the floor at each corresponding direct beta measurement location.
- 6) Obtain required smears for H-3 analysis (See special Instructions for the minimum number of smears required). Denote location of all smears on map.

Use only the Package ID, L2, L7 and L8 codes when labeling smears for counting.

Use all location codes provided below when taking fixed beta readings.

Special Instructions

Source check meters to Tc-99 for beta measurements.

Use gas flow proportional detector model numbers 43-68 and 43-106 for surveys.

The direct beta, smears, and the exposure rate measurements should be taken in the center of each grid.

Verify that the MDA is less than 600dpm/100cm<sup>2</sup> for direct beta measurements after obtaining initial background.

Obtain at least two 10 minute field background readings on each type of surface (eg block wall, concrete wall, and floor).

During scanning the detector is to be kept as close to the surface as possible and moved across the surface at a slow speed (scan speed shall not exceed one probe width per sec). The scan should be performed using the audible output and using headphones whenever necessary.

Survey performance (Initial and date as each survey is complete)

Location Code					General Description	Beta Scan	Direct Beta	1 meter Gamma	Smear Gross $\alpha/\beta$	LS Smear
L1	L2	L6	L7	L8						
Georgia Tech Research Reactor Ground Floor General Area										
A0215	01F01	B0001	A - B	1 thru 6	Floor	DB 6-28-01	(12) BSK 6-28-01	(12) WMB 7-10-01	(12) WMB 6-28-01	(8) WMB 6-28-01
A0215	01W01	B0003	A thru D	1 thru 2	Wall 1	DB 6-28-01	(8) BSK 6-28-01	N/A	(8) WMB 6-28-01	(3) WMB 6-28-01
A0215	01W02	B0001	A thru D	1 thru 6	Wall 2	DB 6-28-01	(24) BSK 6-28-01	N/A	(24) WMB 6-28-01	(5) WMB 6-28-01
A0215	01W03	B0003	A thru D	1 thru 3	Wall 3	DB 6-28-01	(12) BSK 6-28-01	N/A	(12) WMB 6-28-01	(5) WMB 6-28-01
A0215	01W04	B0003, B9999	A thru D	1 thru 6	Wall 4	DB 6-28-01	(24) BSK 6-28-01	N/A	(24) WMB 6-28-01	(5) WMB 6-28-01
A0215	01V01	B9999	ZZZZZ	1-4	Vent 1	DB 6-28-01	(4) BSK 6-28-01 (2)	N/A	(4) WMB 6-28-01 (2)	(1) WMB 6-28-01
A0215	01V02	B9999	ZZZZZ	1-4	Vent 2	DB 6-28-01	(4) BSK 6-28-01 (2)	N/A	(4) WMB 6-28-01 (2)	(1) WMB 6-28-01

Location Code					General Description	Beta Scan	Direct Beta	1 meter Gamma	Smear Gross $\alpha/\beta$	LS Smear
L1	L2	L6	L7	L8						
A0215	01C01	B0001	A - B	1 thru 6	Ceiling	DB 6-28-01	(12) BSK 6-28-01	(12) <del>6-29-01</del> N/A	(12) WMS 6-28-01	(4) WMS 6-28-01
N A										

Package Review

Date Package Completed

5/21/02

Package Reviewed by and Date

P. Jones 5/21/02

Survey Comments

The required number of Direct Betas and Gross  $\alpha/\beta$  smears reduced to 2 for vents 01V01 and 01V02 based on surface area. OK P. Jones 8/28/01

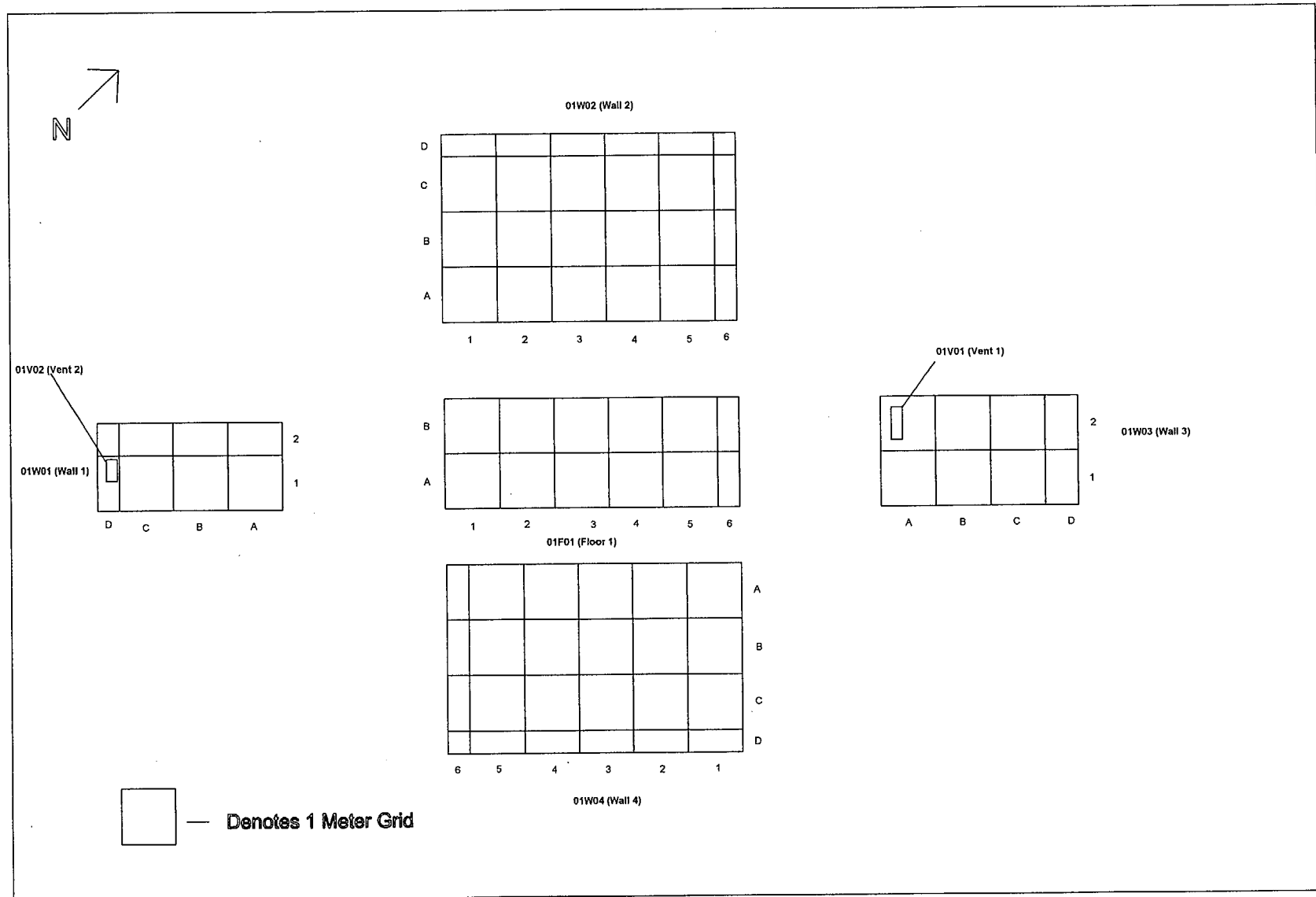
One <sup>composite</sup> sample taken from block walls to investigate elevated exposure rate measurements. See attached "Block Dust From Compressor Room" isotopic analysis.

**Section 2**

**Package 15**  
**Air Compressor Room Drawing**



# Air Compressor Room



## **Section 3**

### **Package 15**

# **Direct Beta Survey Report for the Suspect Affected Air Compressor Room (including download reports)**

Package 15\_A0215 FBSR (Suspect Affected Air Compressor Room)

Desc.	File	Sample Number	Gross Counts	Count Time (sec)	Material Type	Detector Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
Ceiling	151	16	965	60	B0002	126	01C01	FLDCT	A	00001	0.211	757	782	354	428	389
	151	17	936	60	B0002	126	01C01	FLDCT	A	00002	0.211	774	609	354	255	393
	151	18	924	60	B0002	126	01C01	FLDCT	A	00003	0.211	772	572	354	218	392
	151	19	995	60	B0002	126	01C01	FLDCT	A	00004	0.211	733	985	354	631	383
	151	20	991	60	B0002	126	01C01	FLDCT	A	00005	0.211	764	854	354	500	390
	151	21	998	60	B0002	126	01C01	FLDCT	A	00006	0.211	754	918	354	564	388
	151	22	990	60	B0002	126	01C01	FLDCT	B	00001	0.211	719	1019	354	665	380
	151	23	1021	60	B0002	126	01C01	FLDCT	B	00002	0.211	732	1087	354	733	383
	151	24	1000	60	B0002	126	01C01	FLDCT	B	00003	0.211	699	1132	354	778	376
	151	25	931	60	B0002	126	01C01	FLDCT	B	00004	0.211	704	854	354	500	377
	151	26	1039	60	B0002	126	01C01	FLDCT	B	00005	0.211	705	1256	354	902	377
	151	27	1029	60	B0002	126	01C01	FLDCT	B	00006	0.211	766	989	354	635	391
Floor	149	17	866	60	B0001	126	01F01	FLDCT	A	00001	0.213	734	492	346	146	380
	149	18	827	60	B0001	126	01F01	FLDCT	A	00002	0.213	706	451	346	105	373
	149	19	836	60	B0001	126	01F01	FLDCT	A	00003	0.213	679	585	346	239	367
	149	20	909	60	B0001	126	01F01	FLDCT	A	00004	0.213	738	637	346	291	381
	149	21	940	60	B0001	126	01F01	FLDCT	A	00005	0.213	829	414	346	68	400
	149	22	929	60	B0001	126	01F01	FLDCT	A	00006	0.213	782	548	346	202	390
	149	23	861	60	B0001	126	01F01	FLDCT	B	00001	0.213	702	592	346	246	373
	149	24	840	60	B0001	126	01F01	FLDCT	B	00002	0.213	620	820	346	474	353
	149	25	796	60	B0001	126	01F01	FLDCT	B	00003	0.213	619	660	346	314	353
	149	26	782	60	B0001	126	01F01	FLDCT	B	00004	0.213	647	503	346	157	360
	149	27	859	60	B0001	126	01F01	FLDCT	B	00005	0.213	712	548	346	202	375
	149	28	907	60	B0001	126	01F01	FLDCT	B	00006	0.213	763	537	346	191	386
Vent 1	151	30	882	60	B9999	126	01V01	FLDCT	ZZZZZ	00001	0.211	706	662	0	662	355
	151	31	742	60	B9999	126	01V01	FLDCT	ZZZZZ	00002	0.211	656	323	0	323	343
Vent 2	151	34	999	60	B9999	126	01V02	FLDCT	ZZZZZ	00001	0.211	864	508	0	508	392
	151	35	685	60	B9999	126	01V02	FLDCT	ZZZZZ	00002	0.211	668	64	0	64	346
Wall 1	149	34	1442	60	B0009	126	01W01	FLDCT	A	00001	0.213	1023	1561	346	1215	440
	149	35	1306	60	B0009	126	01W01	FLDCT	A	00002	0.213	881	1584	346	1238	411
	149	36	1567	60	B0009	126	01W01	FLDCT	B	00001	0.213	998	2120	346	1774	435
	149	37	1369	60	B0009	126	01W01	FLDCT	B	00002	0.213	899	1751	346	1405	415
	149	102	1387	60	B0009	126	01W01	FLDCT	C	00001	0.213	958	1598	346	1252	427
	149	103	1352	60	B0009	126	01W01	FLDCT	C	00002	0.213	877	1770	346	1424	410
	149	104	1390	60	B0009	126	01W01	FLDCT	D	00001	0.213	965	1584	346	1238	428
	149	105	1243	60	B0009	126	01W01	FLDCT	D	00002	0.213	798	1658	346	1312	394
Wall 2	149	44	941	60	B0001	126	01W02	FLDCT	A	00001	0.213	620	1196	346	850	353
	149	45	921	60	B0001	126	01W02	FLDCT	A	00002	0.213	582	1263	346	917	344
	149	46	835	60	B0001	126	01W02	FLDCT	A	00003	0.213	588	920	346	574	346
	149	47	805	60	B0001	126	01W02	FLDCT	A	00004	0.213	600	764	346	418	349
	149	48	909	60	B0001	126	01W02	FLDCT	A	00005	0.213	627	1051	346	705	355
	149	49	901	60	B0001	126	01W02	FLDCT	A	00006	0.213	665	879	346	533	364
	149	56	994	60	B0001	126	01W02	FLDCT	B	00001	0.213	696	1110	346	764	371
	149	57	898	60	B0001	126	01W02	FLDCT	B	00002	0.213	680	812	346	466	368
	149	58	894	60	B0001	126	01W02	FLDCT	B	00003	0.213	643	935	346	589	359
	149	59	924	60	B0001	126	01W02	FLDCT	B	00004	0.213	664	969	346	623	364
	149	60	982	60	B0001	126	01W02	FLDCT	B	00005	0.213	708	1021	346	675	374
	149	61	946	60	B0001	126	01W02	FLDCT	B	00006	0.213	788	589	346	243	392
	149	118	917	60	B0001	126	01W02	FLDCT	C	00001	0.213	707	782	346	436	374
	149	119	998	60	B0001	126	01W02	FLDCT	C	00002	0.213	705	1092	346	746	373
	149	120	902	60	B0001	126	01W02	FLDCT	C	00003	0.213	667	876	346	530	365
	149	121	948	60	B0001	126	01W02	FLDCT	C	00004	0.213	697	935	346	589	371

Desc.	File	Sample Number	Gross Counts	Count Time (sec)	Material Type	Detector Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	149	122	928	60	B0001	126	01W02	FLDCT	C	00005	0.213	712	805	346	459	375
	149	123	947	60	B0001	126	01W02	FLDCT	C	00006	0.213	741	768	346	422	381
	149	124	921	60	B0001	126	01W02	FLDCT	D	00001	0.213	716	764	346	418	376
	149	125	920	60	B0001	126	01W02	FLDCT	D	00002	0.213	662	961	346	615	363
	149	126	949	60	B0001	126	01W02	FLDCT	D	00003	0.213	701	924	346	578	372
	149	127	910	60	B0001	126	01W02	FLDCT	D	00004	0.213	682	850	346	504	368
	149	128	850	60	B0001	126	01W02	FLDCT	D	00005	0.213	671	667	346	321	365
	149	129	943	60	B0001	126	01W02	FLDCT	D	00006	0.213	754	704	346	358	384
Wall 3	149	67	1334	60	B0009	126	01W03	FLDCT	A	00001	0.213	856	1781	346	1435	406
	149	68	1316	60	B0009	126	01W03	FLDCT	A	00002	0.213	924	1461	346	1115	420
	149	69	1497	60	B0009	126	01W03	FLDCT	A	00003	0.213	971	1923	346	1577	429
	149	70	1450	60	B0009	126	01W03	FLDCT	B	00001	0.213	928	1945	346	1599	421
	149	71	1391	60	B0009	126	01W03	FLDCT	B	00002	0.213	969	1572	346	1226	429
	149	73	1541	60	B0009	126	01W03	FLDCT	B	00003	0.213	1014	1964	346	1618	438
	149	136	1411	60	B0009	126	01W03	FLDCT	C	00001	0.213	933	1781	346	1435	422
	149	137	1608	60	B0009	126	01W03	FLDCT	C	00002	0.213	985	2321	346	1975	432
	149	138	1475	60	B0009	126	01W03	FLDCT	C	00003	0.213	1062	1539	346	1193	447
	149	139	1474	60	B0009	126	01W03	FLDCT	D	00001	0.213	941	1986	346	1640	423
	149	140	1350	60	B0009	126	01W03	FLDCT	D	00002	0.213	921	1598	346	1252	419
	149	141	1402	60	B0009	126	01W03	FLDCT	D	00003	0.213	998	1505	346	1159	435
Wall 4	149	86	1396	60	B0009	126	01W04	FLDCT	A	00001	0.213	911	1807	346	1461	417
	149	87	1272	60	B0009	126	01W04	FLDCT	A	00002	0.213	820	1684	346	1338	399
	149	88	1280	60	B0009	126	01W04	FLDCT	A	00003	0.213	823	1703	346	1357	399
	149	89	1314	60	B0009	126	01W04	FLDCT	A	00004	0.213	837	1777	346	1431	402
	149	90	1349	60	B0009	126	01W04	FLDCT	A	00005	0.213	931	1557	346	1211	421
	149	91	1384	60	B0009	126	01W04	FLDCT	A	00006	0.213	1000	1431	346	1085	435
	149	92	1388	60	B0009	126	01W04	FLDCT	B	00001	0.213	948	1639	346	1293	425
	149	93	1411	60	B0009	126	01W04	FLDCT	B	00002	0.213	903	1893	346	1547	416
	149	94	1292	60	B0009	126	01W04	FLDCT	B	00003	0.213	859	1613	346	1267	407
	149	95	1255	60	B0009	126	01W04	FLDCT	B	00004	0.213	844	1531	346	1185	404
	149	96	1388	60	B0009	126	01W04	FLDCT	B	00005	0.213	946	1647	346	1301	424
	149	97	1489	60	B0009	126	01W04	FLDCT	B	00006	0.213	988	1867	346	1521	433
	149	154	1452	60	B0009	126	01W04	FLDCT	C	00001	0.213	1008	1654	346	1308	437
	149	155	1458	60	B0009	126	01W04	FLDCT	C	00002	0.213	992	1736	346	1390	434
	149	156	1313	60	B0009	126	01W04	FLDCT	C	00003	0.213	898	1546	346	1200	415
	149	157	1315	60	B0009	126	01W04	FLDCT	C	00004	0.213	932	1427	346	1081	422
	149	158	1449	60	B0009	126	01W04	FLDCT	C	00005	0.213	1023	1587	346	1241	440
	149	159	1534	60	B0009	126	01W04	FLDCT	C	00006	0.213	1029	1882	346	1536	441
	149	160	1433	60	B0009	126	01W04	FLDCT	D	00001	0.213	940	1837	346	1491	423
	149	161	1386	60	B0009	126	01W04	FLDCT	D	00002	0.213	924	1721	346	1375	420
	149	162	1321	60	B0009	126	01W04	FLDCT	D	00003	0.213	873	1669	346	1323	410
	149	163	1319	60	B0009	126	01W04	FLDCT	D	00004	0.213	880	1636	346	1290	411
	149	164	1356	60	B0009	126	01W04	FLDCT	D	00005	0.213	880	1774	346	1428	411
	149	165	1407	60	B0009	126	01W04	FLDCT	D	00006	0.213	956	1680	346	1334	426
														# Measurements	96	
														Average	879	dpm/100cm <sup>2</sup>
														Maximum	1975	dpm/100cm <sup>2</sup>
														STD DEV	491	dpm/100cm <sup>2</sup>
														95% CL on Mean	977	dpm/100cm <sup>2</sup>

The "net activity" (dpm/100 cm<sup>2</sup>) presented on the following download report is raw data. It has not been corrected, if required, for the natural radioactivity that may be present in materials of construction. In addition the background used to correct for ambient exposure rates, instrument noise, etc. may need to be adjusted if more than one surface type was included in the download.

See the enclosed spreadsheets for the corrected results.

File #151

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Download Print  
 Technician: Name: D. Schwaner Signature: [Signature] Station: 2  
 File: 151  
 Serial No. Verification: Model 2350:  Detector:  Problems:  (See Comments)

Survey Technician(s):  
 Print Name: Betty S. Kjos User ID: BSK0490 Signature: [Signature] Date: 6-27-01  
 Print Name: \_\_\_\_\_ User ID: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Survey Unit Description: A0215, Air Compressor Room, Ceiling & Vents  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)

Instrument Model and Serial No.: Model 2350  Model 2350-1 : 129429

Instrument and Detector Calibration Due Dates: Survey Meter: <sup>BSK 6-27-01</sup>12-6-01 Detector: 12-6-01

Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain): \_\_\_\_\_

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input checked="" type="checkbox"/> Beta $\beta$	<u>091050</u>	43-68B	<u>.211</u>	<u>5311 / 391</u>	<u>151</u>	<u>151</u>
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input type="checkbox"/> Gamma $\gamma$		44-2	N/A			

Local Area Background Measurements						MEAN Value in cpm	
$\beta$ Beta	1	2	3	4	5	6	<u>0</u>
$\alpha$ Alpha	1	2	3	4	5	6	

COMMENTS: Change L3 to TST01

\_\_\_\_\_

\_\_\_\_\_

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

Direct Beta Survey Report, dpm/100 cm<sup>2</sup>

File Number: 151	Survey Description: A0215: RX BUILDING AIR COMPRESSOR ROOM		
Survey Reason: TERMINATION	User ID: BSK0490	Technician name: B.S. Kjos	
Instrument Model: 2350-1	S/N: 129429	Calibration Due: 12/06/01	Group: 2
Detector Model: 43-68B	Detector S/N: 091050	Type: 126 cm <sup>2</sup> Gas Proportional Detector, Beta Window	
Background: 0 cpm	Beta Efficiency: .211	Survey Date: 6/27/01	

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

## Technician Review:

I have reviewed this cover sheet and 2 pages of the report, 0 pages of comments, and 1 graph.

I performed this survey: Betty S. Kjos / Betty S. Kjos Date: 6-27-01  
 Print name Signature

and,

I performed this survey: \_\_\_\_\_ / \_\_\_\_\_ Date: \_\_\_\_\_  
 Print name Signature

## Corrections and Reasons:

## Comment Resolution:

Survey Reviewed and Approved by: PAUL JONES / Paul Jones Date: 11/12/01  
 Print name Signature

Survey Date: 6/27/01  
File: 151

Report Date: 6/27/01

Page: 1  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0215	01C01	TST01	02200	Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B0002	A	00001	4	60	757	2847	*
FLDBK	B0002	A	00002	5	60	774	2911	*
FLDBK	B0002	A	00003	6	60	772	2904	*
FLDBK	B0002	A	00004	7	60	733	2757	*
FLDBK	B0002	A	00005	8	60	764	2874	*
FLDBK	B0002	A	00006	9	60	754	2836	*
FLDBK	B0002	B	00001	10	60	719	2704	*
FLDBK	B0002	B	00002	11	60	732	2753	*
FLDBK	B0002	B	00003	12	60	699	2629	*
FLDBK	B0002	B	00004	13	60	704	2648	*
FLDBK	B0002	B	00005	14	60	749	2817	*
FLDBK	B0002	B	00006	15	60	766	2881	*

Group Average: 2797

FLDCT	B0002	A	00001	16	60	965	3630	*
FLDCT	B0002	A	00002	17	60	936	3521	*
FLDCT	B0002	A	00003	18	60	924	3476	*
FLDCT	B0002	A	00004	19	60	995	3743	*
FLDCT	B0002	A	00005	20	60	991	3728	*
FLDCT	B0002	A	00006	21	60	998	3754	*
FLDCT	B0002	B	00001	22	60	990	3724	*
FLDCT	B0002	B	00002	23	60	1021	3840	*
FLDCT	B0002	B	00003	24	60	1000	3761	*
FLDCT	B0002	B	00004	25	60	931	3502	*
FLDCT	B0002	B	00005	26	60	1039	3908	*
FLDCT	B0002	B	00006	27	60	1029	3870	*

Group Average: 3705

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0215	01V01	TST01	02200	Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00001	28	60	706	2656	*
FLDBK	B9999	ZZZZZ	00002	29	60	656	2467	*

Group Average: 2561

FLDCT	B9999	ZZZZZ	00001	30	60	882	3318	*
FLDCT	B9999	ZZZZZ	00002	31	60	742	2791	*

Group Average: 3054

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0215	01V02	TST01	02200	Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00001	32	60	864	3250	*
FLDBK	B9999	ZZZZZ	00002	33	60	668	2513	*

Group Average: 2881

FLDCT	B9999	ZZZZZ	00001	34	60	999	3758	*
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\* Hi flag set at 2400 dpm/100 cm2



Survey Date: 6/27/01  
File: 151

Report Date: 6/27/01

Page: 2  
Station: 2

Comments

Survey Code	L1 A0215	L2 01V02	L3 TST01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDCT	B9999	ZZZZZ	00002	35	60	685	2577	*
Group Average:							3167	

Survey Code	L1 ZZZZZ	L2 E2260	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
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L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
PRB00	ZZZZZ	ZZZZZ	00000	1	60	5487	20639	*
PRB00	ZZZZZ	ZZZZZ	00000	2	60	5825	21910	*
PRB00	ZZZZZ	ZZZZZ	00000	3	60	5795	21797	*
Group Average:							21449	
PTB00	ZZZZZ	ZZZZZ	00000	37	60	5838	21959	*
PTB00	ZZZZZ	ZZZZZ	00000	38	60	5747	21617	*
PTB00	ZZZZZ	ZZZZZ	00000	39	60	5836	21951	*
Group Average:							21842	

Survey Code	L1 ZZZZZ	L2 ZZZZZ	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
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L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
PRBBK	ZZZZZ	ZZZZZ	00000	0	600	3906	1469	
Group Average:							1469	
PTBBK	ZZZZZ	ZZZZZ	00000	36	600	4099	1542	
Group Average:							1542	

Total Number of Measurements on this Report: 40

NOTE: This report is grouped by:  
 Package (L1) (Package number)  
 Setup number (Detector parameters)  
 Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)  
 Reason (L3-345) (Char survey, source check, final survey, etc.)  
 Surface Cat (L2) (Wall, floor, drain, penetration, etc.)  
 Count Type (L5) (Field count, bkg, pre-, post-, etc.)  
 Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

\* Hi flag set at 2400 dpm/100 cm2

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

## GEORGIA INSTITUTE OF TECHNOLOGY

6/27/2001

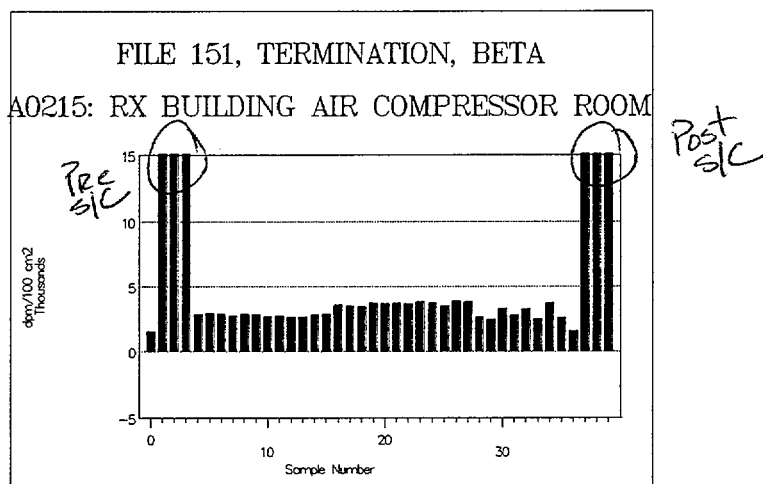
Graph of File 151

Station: 2

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Survey Date: 6/27/2001 Survey Start Time: 06:42:14

Description: A0215: RX BUILDING AIR COMPRESSOR ROOM



Flag set for 2400 dpm/100 cm2. Review values greater than this value.

Review this graph for visual outliers.

Mark outliers, source checks and backgrounds on the graph on this page.

The "net activity" (dpm/100 cm<sup>2</sup>) presented on the following download report is raw data. It has not been corrected, if required, for the natural radioactivity that may be present in materials of construction. In addition the background used to correct for ambient exposure rates, instrument noise, etc. may need to be adjusted if more than one surface type was included in the download.

See the enclosed spreadsheets for the corrected results.

File #149

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Download Print  
 Technician: Name: Don Schump Signature: [Signature] Station: 2  
 File: 149  
 Serial No. Verification: Model 2350:  Detector:  Problems:  (See Comments)

Survey Technician(s):  
 Print Name: Betty S. Kjos User ID: BSK0490 Signature: [Signature] Date: 6-26-01  
 Print Name: \_\_\_\_\_ User ID: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Survey Unit Description: A0215 Air Compressor Room, Floor & Walls  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)

Instrument Model and Serial No.: Model 2350  Model 2350-1 : 129429

Instrument and Detector Calibration Due Dates: Survey Meter: 12-6-01 Detector: 12-6-01

Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain): \_\_\_\_\_

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input checked="" type="checkbox"/> Beta $\beta$	<u>091050</u>	43-68B	<u>.213</u>	<u>5374   417</u>	<u>149</u>	<u>149</u>
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input type="checkbox"/> Gamma $\gamma$		44-2	N/A			

Local Area Background Measurements						MEAN Value in cpm	
$\beta$ Beta	1	2	3	4	5	6	<u>0</u>
$\alpha$ Alpha	1	2	3	4	5	6	

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

Direct Beta Survey Report, dpm/100 cm<sup>2</sup>

File Number: 149	Survey Description: A0215: RX BUILDING COMPRESSOR ROOM FLOOR AND WALLS		
Survey Reason: TERMINATION	User ID: BSK0490	Technician name: B.S. Kjos	
Instrument Model: 2350-1	S/N: 129429	Calibration Due: 12/06/01	Group: 2
Detector Model: 43-68B	Detector S/N: 091050	Type: 126 cm <sup>2</sup> Gas Proportional Detector, Beta Window	
Background: 0 cpm	Beta Efficiency: .213	Survey Date: 6/26/01	

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

## Technician Review:

I have reviewed this cover sheet and 5 pages of the report, 1 pages of comments, and 1 graph.

I performed this survey: Betty S. Kjos / Betty S. Kjos Date: 6-27-01  
 Print name Signature

and,

I performed this survey: \_\_\_\_\_ / \_\_\_\_\_ Date: \_\_\_\_\_  
 Print name Signature

## Corrections and Reasons:

## Comment Resolution:

Survey Reviewed  
and Approved by:

PAUL JONES  
Print name

Paul Jones  
Signature

Date: 11/12/01

Survey Date: 6/26/01  
File: 149

Report Date: 6/27/01

Page: 1  
Station: 2

Comments

Survey Code	L1 A0215	L2 01F01	L3 TST01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0001	A	00001	5	60	734	2735	*
FLDBK	B0001	A	00002	6	60	706	2631	*
FLDBK	B0001	A	00003	7	60	679	2530	*
FLDBK	B0001	A	00004	8	60	738	2750	*
FLDBK	B0001	A	00005	9	60	829	3089	*
FLDBK	B0001	A	00006	10	60	782	2914	*
FLDBK	B0001	B	00001	11	60	702	2616	*
FLDBK	B0001	B	00002	12	60	620	2310	*
FLDBK	B0001	B	00003	13	60	619	2306	*
FLDBK	B0001	B	00004	14	60	647	2411	*
FLDBK	B0001	B	00005	15	60	712	2653	*
FLDBK	B0001	B	00006	16	60	763	2843	*

Group Average: 2649

FLDCT	B0001	A	00001	17	60	866	3227	*
FLDCT	B0001	A	00002	18	60	827	3081	*
FLDCT	B0001	A	00003	19	60	836	3115	*
FLDCT	B0001	A	00004	20	60	909	3387	*
FLDCT	B0001	A	00005	21	60	940	3502	*
FLDCT	B0001	A	00006	22	60	929	3462	*
FLDCT	B0001	B	00001	23	60	861	3208	*
FLDCT	B0001	B	00002	24	60	840	3130	*
FLDCT	B0001	B	00003	25	60	796	2966	*
FLDCT	B0001	B	00004	26	60	782	2914	*
FLDCT	B0001	B	00005	27	60	859	3201	*
DCT	B0001	B	00006	28	60	907	3380	*

Group Average: 3214

Survey Code	L1 A0215	L2 01W01	L3 TST01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0009	A	00001	30	60	1023	3812	*
FLDBK	B0009	A	00002	31	60	881	3283	*
FLDBK	B0009	B	00001	32	60	998	3719	*
FLDBK	B0009	B	00002	33	60	899	3350	*
FLDBK	B0009	C	00001	98	60	958	3570	*
FLDBK	B0009	C	00002	99	60	877	3268	*
FLDBK	B0009	D	00001	100	60	965	3596	*
FLDBK	B0009	D	00002	101	60	798	2973	*

Group Average: 3446

FLDCT	B0009	A	00001	34	60	1442	5373	*
FLDCT	B0009	A	00002	35	60	1306	4866	*
FLDCT	B0009	B	00001	36	60	1567	5839	*
FLDCT	B0009	B	00002	37	60	1369	5101	*
FLDCT	B0009	C	00001	102	60	1387	5168	*
FLDCT	B0009	C	00002	103	60	1352	5038	*
FLDCT	B0009	D	00001	104	60	1390	5179	*
FLDCT	B0009	D	00002	105	60	1243	4631	*

Group Average: 5149

Survey Date: 6/26/01  
File: 149

Report Date: 6/27/01

Page: 2  
Station: 2

Comments

Survey Code	L1 A0215	L2 01W02	L3 TST01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0001	A	00001	38	60	620	2310	
FLDBK	B0001	A	00002	39	60	582	2169	
FLDBK	B0001	A	00003	40	60	588	2191	
FLDBK	B0001	A	00004	41	60	600	2236	
FLDBK	B0001	A	00005	42	60	627	2336	
FLDBK	B0001	A	00006	43	60	665	2478	*
FLDBK	B0001	B	00001	50	60	696	2593	*
FLDBK	B0001	B	00002	51	60	680	2534	*
FLDBK	B0001	B	00003	52	60	643	2396	*
FLDBK	B0001	B	00004	53	60	664	2474	*
FLDBK	B0001	B	00005	54	60	708	2638	*
FLDBK	B0001	B	00006	55	60	788	2936	*
FLDBK	B0001	C	00001	106	60	707	2634	*
FLDBK	B0001	C	00002	107	60	705	2627	*
FLDBK	B0001	C	00003	108	60	667	2485	*
FLDBK	B0001	C	00004	109	60	697	2597	*
FLDBK	B0001	C	00005	110	60	712	2653	*
FLDBK	B0001	C	00006	111	60	741	2761	*
FLDBK	B0001	D	00001	112	60	716	2668	*
FLDBK	B0001	D	00002	113	60	662	2467	*
FLDBK	B0001	D	00003	114	60	701	2612	*
FLDBK	B0001	D	00004	115	60	682	2541	*
FLDBK	B0001	D	00005	116	60	671	2500	*
FLDBK	B0001	D	00006	117	60	754	2809	*

Group Average: 2527

FLDCT	B0001	A	00001	44	60	941	3506	*
FLDCT	B0001	A	00002	45	60	921	3432	*
FLDCT	B0001	A	00003	46	60	835	3111	*
FLDCT	B0001	A	00004	47	60	805	2999	*
FLDCT	B0001	A	00005	48	60	909	3387	*
FLDCT	B0001	A	00006	49	60	901	3357	*
FLDCT	B0001	B	00001	56	60	994	3704	*
FLDCT	B0001	B	00002	57	60	898	3346	*
FLDCT	B0001	B	00003	58	60	894	3331	*
FLDCT	B0001	B	00004	59	60	924	3443	*
FLDCT	B0001	B	00005	60	60	982	3659	*
FLDCT	B0001	B	00006	61	60	946	3525	*
FLDCT	B0001	C	00001	118	60	917	3417	*
FLDCT	B0001	C	00002	119	60	998	3719	*
FLDCT	B0001	C	00003	120	60	902	3361	*
FLDCT	B0001	C	00004	121	60	948	3532	*
FLDCT	B0001	C	00005	122	60	928	3458	*
FLDCT	B0001	C	00006	123	60	947	3529	*
FLDCT	B0001	D	00001	124	60	921	3432	*
FLDCT	B0001	D	00002	125	60	920	3428	*
FLDCT	B0001	D	00003	126	60	949	3536	*
FLDCT	B0001	D	00004	127	60	910	3391	*
FLDCT	B0001	D	00005	128	60	850	3167	*
FLDCT	B0001	D	00006	129	60	943	3514	*

Group Average: 3428

Survey Code	L1 A0215	L2 01W03	L3 TST01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0009	A	00001	62	60	856	3190	*

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 6/26/01  
File: 149

Report Date: 6/27/01

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Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0215	01W03	TST01	02200	Det Cal Due: 12/06/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0009	A	00002	63	60	924	3443	*
FLDBK	B0009	A	00003	64	60	971	3618	*
FLDBK	B0009	B	00001	65	60	928	3458	*
FLDBK	B0009	B	00002	66	60	969	3611	*
FLDBK	B0009	B	00003	72	60	1014	3778	*
FLDBK	B0009	C	00001	130	60	933	3476	*
FLDBK	B0009	C	00002	131	60	985	3670	*
FLDBK	B0009	C	00003	132	60	1062	3957	*
FLDBK	B0009	D	00001	133	60	941	3506	*
FLDBK	B0009	D	00002	134	60	921	3432	*
FLDBK	B0009	D	00003	135	60	998	3719	*

Group Average: 3571

FLDCT	B0009	A	00001	67	60	1334	4971	*
FLDCT	B0009	A	00002	68	60	1316	4903	*
FLDCT	B0009	A	00003	69	60	1487	5541	*
FLDCT	B0009	B	00001	70	60	1450	5403	*
FLDCT	B0009	B	00002	71	60	1391	5183	*
FLDCT	B0009	B	00003	73	60	1541	5742	*
FLDCT	B0009	C	00001	136	60	1411	5257	*
FLDCT	B0009	C	00002	137	60	1608	5992	*
FLDCT	B0009	C	00003	138	60	1475	5496	*
FLDCT	B0009	D	00001	139	60	1474	5492	*
FLDCT	B0009	D	00002	140	60	1350	5030	*
FLDCT	B0009	D	00003	141	60	1402	5224	*

Group Average: 5353

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0215	01W04	TST01	02200	Det Cal Due: 12/06/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0009	A	00001	74	60	911	3394	*
FLDBK	B0009	A	00002	75	60	820	3055	*
FLDBK	B0009	A	00003	76	60	823	3067	*
FLDBK	B0009	A	00004	77	60	837	3119	*
FLDBK	B0009	A	00005	78	60	931	3469	*
FLDBK	B0009	A	00006	79	60	1000	3726	*
FLDBK	B0009	B	00001	80	60	948	3532	*
FLDBK	B0009	B	00002	81	60	903	3365	*
FLDBK	B0009	B	00003	82	60	859	3201	*
FLDBK	B0009	B	00004	83	60	844	3145	*
FLDBK	B0009	B	00005	84	60	946	3525	*
FLDBK	B0009	B	00006	85	60	988	3681	*
FLDBK	B0009	C	00001	142	60	1008	3756	*
FLDBK	B0009	C	00002	143	60	992	3696	*
FLDBK	B0009	C	00003	144	60	898	3346	*
FLDBK	B0009	C	00004	145	60	932	3473	*
FLDBK	B0009	C	00005	146	60	1023	3812	*
FLDBK	B0009	C	00006	147	60	1029	3834	*
FLDBK	B0009	D	00001	148	60	940	3502	*
FLDBK	B0009	D	00002	149	60	924	3443	*
FLDBK	B0009	D	00003	150	60	873	3253	*
FLDBK	B0009	D	00004	151	60	880	3279	*
FLDBK	B0009	D	00005	152	60	880	3279	*
FLDBK	B0009	D	00006	153	60	956	3562	*

\* Hi flag set at 2400 dpm/100 cm2



Survey Date: 6/26/01  
File: 149

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Comments

Survey Code	L1 A0215	L2 01W04	L3 TST01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
Group Average:							3438	
FLDCT	B0009	A	00001	86	60	1396	5202	*
FLDCT	B0009	A	00002	87	60	1272	4740	*
FLDCT	B0009	A	00003	88	60	1280	4769	*
FLDCT	B0009	A	00004	89	60	1314	4896	*
FLDCT	B0009	A	00005	90	60	1349	5026	*
FLDCT	B0009	A	00006	91	60	1384	5157	*
FLDCT	B0009	B	00001	92	60	1388	5172	*
FLDCT	B0009	B	00002	93	60	1411	5257	*
FLDCT	B0009	B	00003	94	60	1292	4814	*
FLDCT	B0009	B	00004	95	60	1255	4676	*
FLDCT	B0009	B	00005	96	60	1388	5172	*
FLDCT	B0009	B	00006	97	60	1489	5548	*
FLDCT	B0009	C	00001	154	60	1452	5410	*
FLDCT	B0009	C	00002	155	60	1458	5433	*
FLDCT	B0009	C	00003	156	60	1313	4892	*
FLDCT	B0009	C	00004	157	60	1315	4900	*
FLDCT	B0009	C	00005	158	60	1449	5399	*
FLDCT	B0009	C	00006	159	60	1534	5716	*
FLDCT	B0009	D	00001	160	60	1433	5339	*
FLDCT	B0009	D	00002	161	60	1386	5164	*
FLDCT	B0009	D	00003	162	60	1321	4922	*
FLDCT	B0009	D	00004	163	60	1319	4915	*
FLDCT	B0009	D	00005	164	60	1356	5053	*
FLDCT	B0009	D	00006	165	60	1407	5243	*

Group Average: 5117

Survey Code	L1 ZZZZZ	L2 EZ260	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
Group Average:							21578	
PRB00	ZZZZZ	ZZZZZ	00000	1	60	5573	20765	*
PRB00	ZZZZZ	ZZZZZ	00000	2	60	5883	21920	*
PRB00	ZZZZZ	ZZZZZ	00000	3	60	5917	22047	*
PTB00	ZZZZZ	ZZZZZ	00000	167	60	5908	22014	*
PTB00	ZZZZZ	ZZZZZ	00000	168	60	6071	22621	*
PTB00	ZZZZZ	ZZZZZ	00000	169	60	5679	21160	*

Group Average: 21932

Survey Code	L1 ZZZZZ	L2 ZZZZZ	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
BBK	ZZZZZ	ZZZZZ	00000	0	600	4174	1555	

Group Average: 1555

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 6/26/01  
File: 149

Report Date: 6/27/01

Page: 5  
Station: 2

Comments

Survey Code	L1 ZZZZZ	L2 ZZZZZ	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
PTBBK	ZZZZZ	ZZZZZ	00000	166	600	4150	1546	

Group Average: 1546

Total Number of Measurements on this Report: 168

NOTE: This report is grouped by:

Package (L1) (Package number)

Setup number (Detector parameters)

Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)

Reason (L3-345) (Char survey, source check, final survey, etc.)

Surface Cat (L2) (Wall, floor, drain, penetration, etc.)

Count Type (L5) (Field count, bkg, pre-, post-, etc.)

Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

GTS:0143 :C:\PDOX35\M2350\TLOGREVU.R2 12-01-97 JPA

L 80 M 03,133

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

## GEORGIA INSTITUTE OF TECHNOLOGY

6/27/01

Comments Report for File 149

Station: 2

---

Comment Number	Comment
1	Deleted sample numbers from 4 to 4. Because 10 MINUTE NOT NEEDED DUE TO SINGLE BACKGROUNDS BEING TAKEN
2	Deleted sample numbers from 29 to 29. Because 10 MINUTE BACKGROUND NOT NEEDED DUE TO SINGLE BACKGROUNDS TAKEN

---

GTS:0143 :C:\PDOX35\M2350\COMMENTS:R1

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

## GEORGIA INSTITUTE OF TECHNOLOGY

6/27/2001

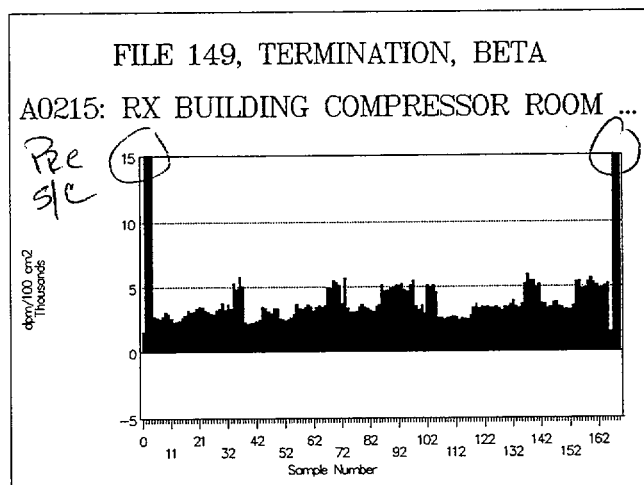
Graph of File 149

Station: 2

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Survey Date: 6/26/2001 Survey Start Time: 07:16:26

Description: A0215: RX BUILDING COMPRESSOR ROOM FLOOR AND WALLS



Flag set for 2400 dpm/100 cm<sup>2</sup>. Review values greater than this value.  
Review this graph for visual outliers.  
Mark outliers, source checks and backgrounds on the graph on this page.

**Section 4**

**Package 15  
Exposure Rate Measurements for the  
Air Compressor Room**

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Download Print  
 Technician: Name: D. Schurke Signature: [Signature] Station: 2  
 File: 160  
 Serial No. Verification: Model 2350:  Detector:  Problems:  (See Comments)

Survey Technician(s):  
 Print Name: B. Bishop User ID Umb 7302 Signature: [Signature] Date: 6-29-01  
 Print Name: \_\_\_\_\_ User ID \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Survey Unit Description: A0215 AIR COMPRESSOR ROOM Gamma  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)  
 Instrument Model and Serial No.: Model 2350  Model 2350-1 : 126182  
 Instrument and Detector Calibration Due Dates: Survey Meter: 9-22-01 Detector: 12-6-01  
 Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain): \_\_\_\_\_

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input type="checkbox"/> Beta $\beta$		43-68B				
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input checked="" type="checkbox"/> Gamma $\gamma$	<u>091034</u>	44-2	N/A	N/A	<u>160</u>	<u>160</u>

Local Area Background Measurements						MEAN Value in cpm	
$\beta$ Beta	1	2	3	4	5	6	
$\alpha$ Alpha	1	2	3	4	5	6	

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

## GEORGIA INSTITUTE OF TECHNOLOGY

## Gamma Radiation Survey Report, Micro-R/hour - Integrated Measurement

File Number: 160	Survey Description: A0215: AIR COMPRESSOR ROOM GAMMA'S		
Survey Reason: TERMINATION	User ID: WMB7302	Technician name: Bill Bishop	
Instrument Model: M2350-1	S/N: 126182	Calibration Due: 9/22/01	Group: 2
Detector Model: 44-2	Detector S/N: PR091034	Type: High Energy Gamma Scintillator, 1 x 1 NaI	
Background: uR/hr	Gamma Calibration Constant: 1.70095 E10 c/R	PIC ratio: 1.000 (PIC/NaI)	Survey Date: 6/29/01

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

## Technician Review:

I have reviewed this cover sheet and 2 pages of the report, 0 pages of comments, and 1 graph.

I performed this survey: Bill Bishop, Bi Bishop Date: 7/2/01  
 Print name Signature

and,  
 I performed this survey: \_\_\_\_\_ / \_\_\_\_\_ Date: \_\_\_\_\_  
 Print name Signature

## Corrections and reason (required):

## Comment Resolution:

Survey Reviewed and Approved by: Paul Jones, Paul Jones Date: 11/12/01  
 Print name Signature

Survey Date: 6/29/01  
File: 160

Report Date: 6/30/01

Station: 2  
Page: 1

Comments

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	A0215	01F01	TAT01	03100	FLDCT	B0001	Det Cal Due: 12/6/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
A	00001	4	10	1768	37.4	*
A	00002	5	10	1436	30.4	*
A	00003	6	10	1357	28.7	*
A	00004	7	10	1610	34.1	*
A	00005	8	10	1802	38.1	*
A	00006	9	10	1967	41.6	*
B	00001	10	10	1603	33.9	*
B	00002	11	10	1489	31.5	*
B	00003	12	10	1389	29.4	*
B	00004	13	10	1474	31.2	*
B	00005	14	10	1584	33.5	*
B	00006	15	10	1919	40.6	*

Group Average: 9699 cpm      Average uR/hr: 34.2  
Number of measurements: 12

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	ZZZZZ	ZZZZZ	TAT01	03100	PRBBK	ZZZZZ	Det Cal Due: 12/6/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
ZZZZZ	00000	0	300	19440	13.7	-
ZZZZ	00000	1	60	548264	1934.0	*
ZZZZ	00000	2	60	14096	49.7	*
ZZZZZ	00000	3	60	5260	18.6	*

Group Average: 142877 cpm      Average uR/hr: 504.0  
Number of measurements: 4

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	ZZZZZ	ZZZZZ	TAT01	03100	PTB00	ZZZZZ	Det Cal Due: 12/6/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
ZZZZZ	00000	17	60	531232	1873.9	*
ZZZZZ	00000	18	60	14650	51.7	*
ZZZZZ	00000	19	60	5174	18.3	*

Group Average: 183685 cpm      Average uR/hr: 647.9  
Number of measurements: 3

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	ZZZZZ	ZZZZZ	TAT01	03100	PTBBK	ZZZZZ	Det Cal Due: 12/6/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
ZZZZZ	00000	16	300	18775	13.2	-

Group Average: 3755 cpm      Average uR/hr: 13.2  
Number of measurements: 1

\* Hi flag set at 15.0 micro-R/hr.



Survey Date: 6/29/01  
File: 160

Report Date: 6/30/01

Station: 2  
Page: 2

Comments

Total Number of Measurements on this Report: 20

NOTE: This report is grouped by:

Package (L1) (Package number)

Setup number (Detector parameters)

Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)

Reason (L3-345) (Char survey, source check, final survey, etc.)

Surface Cat (L2) (Wall, floor, drain, penetration, etc.)

Count Type (L5) (Field count, bkg, pre-, post-, etc.)

Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

GTS:0143 :C:\PDOX35\M2350\TLOGREVU.R4 11-26-97 JPA

L 80 M 03,133

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

6/30/2001

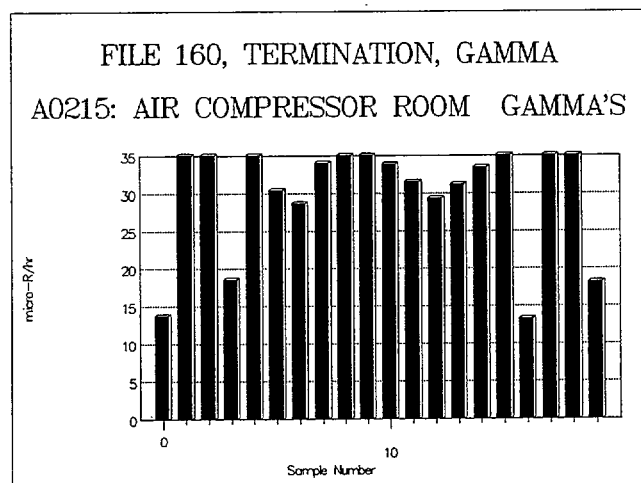
Graph of File 160

Station: 2

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Survey Date: 6/29/2001 Survey Start Time: 03:32:58

Description: A0215: AIR COMPRESSOR ROOM GAMMA'S



## **Section 5**

### **Package 15**

#### **Removable Beta Contamination for the Air Compressor Room (including lab reports)**

## Removable Beta Contamination Package A0215 (Air Compressor Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	0	90	100	01C01	FLDCT	A	00001	0.3425	2	-5	16
	4	90	100	01C01	FLDCT	A	00002	0.3425	2	3	16
	0	90	100	01C01	FLDCT	A	00003	0.3425	2	-5	16
	2	90	100	01C01	FLDCT	A	00004	0.3425	2	-1	16
	0	90	100	01C01	FLDCT	A	00005	0.3425	2	-5	16
	1	90	100	01C01	FLDCT	A	00006	0.3425	2	-3	16
	3	90	100	01C01	FLDCT	B	00001	0.3425	2	1	16
	2	90	100	01C01	FLDCT	B	00002	0.3425	2	-1	16
	6	90	100	01C01	FLDCT	B	00003	0.3425	2	7	16
	4	90	100	01C01	FLDCT	B	00004	0.3425	2	3	16
	3	90	100	01C01	FLDCT	B	00005	0.3425	2	1	16
	7	90	100	01C01	FLDCT	B	00006	0.3425	2	9	16
	19	90	100	01F01	FLDCT	A	00001	0.3425	2	32	16
	7	90	100	01F01	FLDCT	A	00002	0.3425	2	9	16
	1	90	100	01F01	FLDCT	A	00003	0.3425	2	-3	16
	8	90	100	01F01	FLDCT	A	00004	0.3425	2	11	16
	4	90	100	01F01	FLDCT	A	00005	0.3425	2	3	16
	5	90	100	01F01	FLDCT	A	00006	0.3425	2	5	16
	5	90	100	01F01	FLDCT	B	00001	0.3425	2	5	16
	8	90	100	01F01	FLDCT	B	00002	0.3425	2	11	16
	7	90	100	01F01	FLDCT	B	00003	0.3425	2	8	16
	1	90	100	01F01	FLDCT	B	00004	0.3425	2	-4	16
	7	90	100	01F01	FLDCT	B	00005	0.3425	2	8	16
	8	90	100	01F01	FLDCT	B	00006	0.3425	2	11	16
	10	90	100	01V01	FLDCT	ZZZZZ	00001	0.3425	2	15	16
	6	90	100	01V01	FLDCT	ZZZZZ	00002	0.3425	2	6	16
	5	90	100	01V02	FLDCT	ZZZZZ	00001	0.3425	2	5	16
	1	90	100	01V02	FLDCT	ZZZZZ	00002	0.3425	2	-3	16
	2	90	100	01W01	FLDCT	A	00001	0.3425	2	-1	16
	4	90	100	01W01	FLDCT	A	00002	0.3425	2	3	16
	3	90	100	01W01	FLDCT	B	00001	0.3425	2	1	16
	0	90	100	01W01	FLDCT	B	00002	0.3425	2	-5	16
	5	90	100	01W01	FLDCT	C	00001	0.3425	2	4	16
	3	90	100	01W01	FLDCT	C	00002	0.3425	2	1	16
	0	90	100	01W01	FLDCT	D	00001	0.3425	2	-5	16
	2	90	100	01W01	FLDCT	D	00002	0.3425	2	-1	16
	1	90	100	01W02	FLDCT	A	00001	0.3425	2	-3	16

Removable Beta Contamination Package A0215 (Air Compressor Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	1	90	100	01W02	FLDCT	A	00002	0.3425	2	-3	16
	1	90	100	01W02	FLDCT	A	00003	0.3425	2	-3	16
	1	90	100	01W02	FLDCT	A	00004	0.3425	2	-3	16
	2	90	100	01W02	FLDCT	A	00005	0.3425	2	-1	16
	2	90	100	01W02	FLDCT	A	00006	0.3425	2	-1	16
	7	90	100	01W02	FLDCT	B	00001	0.3425	2	9	16
	2	90	100	01W02	FLDCT	B	00002	0.3425	2	-1	16
	0	90	100	01W02	FLDCT	B	00003	0.3425	2	-5	16
	2	90	100	01W02	FLDCT	B	00004	0.3425	2	-1	16
	1	90	100	01W02	FLDCT	B	00005	0.3425	2	-3	16
	0	90	100	01W02	FLDCT	B	00006	0.3425	2	-5	16
	3	90	100	01W02	FLDCT	C	00001	0.3425	2	1	16
	3	90	100	01W02	FLDCT	C	00002	0.3425	2	1	16
	3	90	100	01W02	FLDCT	C	00003	0.3425	2	1	16
	1	90	100	01W02	FLDCT	C	00004	0.3425	2	-3	16
	5	90	100	01W02	FLDCT	C	00005	0.3425	2	5	16
	0	90	100	01W02	FLDCT	C	00006	0.3425	2	-5	16
	2	90	100	01W02	FLDCT	D	00001	0.3425	2	-1	16
	0	90	100	01W02	FLDCT	D	00002	0.3425	2	-5	16
	1	90	100	01W02	FLDCT	D	00003	0.3425	2	-3	16
	0	90	100	01W02	FLDCT	D	00004	0.3425	2	-5	16
	2	90	100	01W02	FLDCT	D	00005	0.3425	2	-1	16
	2	90	100	01W02	FLDCT	D	00006	0.3425	2	-1	16
	4	90	100	01W03	FLDCT	A	00001	0.3425	2	3	16
	1	90	100	01W03	FLDCT	A	00002	0.3425	2	-3	16
	2	90	100	01W03	FLDCT	A	00003	0.3425	2	-1	16
	6	90	100	01W03	FLDCT	B	00001	0.3425	2	7	16
	1	90	100	01W03	FLDCT	B	00002	0.3425	2	-3	16
	1	90	100	01W03	FLDCT	B	00003	0.3425	2	-3	16
	7	90	100	01W03	FLDCT	C	00001	0.3425	2	9	16
	4	90	100	01W03	FLDCT	C	00002	0.3425	2	3	16
	0	90	100	01W03	FLDCT	C	00003	0.3425	2	-5	16
	4	90	100	01W03	FLDCT	D	00001	0.3425	2	3	16
	3	90	100	01W03	FLDCT	D	00002	0.3425	2	1	16
	0	90	100	01W03	FLDCT	D	00003	0.3425	2	-5	16
	6	90	100	01W04	FLDCT	A	00001	0.3425	2	7	16
	8	90	100	01W04	FLDCT	A	00002	0.3425	2	11	16
	0	90	100	01W04	FLDCT	A	00003	0.3425	2	-5	16
	3	90	100	01W04	FLDCT	A	00004	0.3425	2	1	16
	2	90	100	01W04	FLDCT	A	00005	0.3425	2	-1	16

Removable Beta Contamination Package A0215 (Air Compressor Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	3	90	100	01W04	FLDCT	A	00006	0.3425	2	1	16
	0	90	100	01W04	FLDCT	B	00001	0.3425	2	-5	16
	4	90	100	01W04	FLDCT	B	00002	0.3425	2	3	16
	1	90	100	01W04	FLDCT	B	00003	0.3425	2	-3	16
	3	90	100	01W04	FLDCT	B	00004	0.3425	2	1	16
	1	90	100	01W04	FLDCT	B	00005	0.3425	2	-3	16
	3	90	100	01W04	FLDCT	B	00006	0.3425	2	1	16
	2	90	100	01W04	FLDCT	C	00001	0.3425	2	-1	16
	0	90	100	01W04	FLDCT	C	00002	0.3425	2	-5	16
	0	90	100	01W04	FLDCT	C	00003	0.3425	2	-5	16
	2	90	100	01W04	FLDCT	C	00004	0.3425	2	-1	16
	0	90	100	01W04	FLDCT	C	00005	0.3425	2	-5	16
	3	90	100	01W04	FLDCT	C	00006	0.3425	2	1	16
	4	90	100	01W04	FLDCT	D	00001	0.3425	2	3	16
	0	90	100	01W04	FLDCT	D	00002	0.3425	2	-5	16
	1	90	100	01W04	FLDCT	D	00003	0.3425	2	-3	16
	0	90	100	01W04	FLDCT	D	00004	0.3425	2	-5	16
	7	90	100	01W04	FLDCT	D	00005	0.3425	2	9	16
	2	90	100	01W04	FLDCT	D	00006	0.3425	2	-1	16
								# Measurements		96	
									Average	1	dpm/100cm <sup>2</sup>
									Maximum	32	dpm/100cm <sup>2</sup>
									STD DEV	6	dpm/100cm <sup>2</sup>
									95% CL on Mean	2	dpm/100cm <sup>2</sup>

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm					Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		19	11.07	32.31		06-27-2001	07:13:43
002	00	2	0	0.00	0.00		7	3.07	8.95		06-27-2001	07:15:42
003	00	3	0	0.00	0.00		1	-0.93	-2.73		06-27-2001	07:17:41
004	00	4	0	0.00	0.00		8	3.73	10.90		06-27-2001	07:19:40
005	00	5	0	0.00	0.00		4	1.07	3.11		06-27-2001	07:21:39
006	00	6	0	0.00	0.00		5	1.73	5.06		06-27-2001	07:23:38

Performed By: *[Signature]* Date: 6-27-01  
Reviewed By: *[Signature]* Date: 6/28/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm					Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		5	1.73	5.06		06-27-2001	07:27:59
002	00	2	0	0.00	0.00		8	3.73	10.90		06-27-2001	07:29:58
003	00	3	1	0.67	1.91		7	2.87	8.37		06-27-2001	07:31:57
004	00	3	2	1.33	3.81		1	-1.33	-3.89		06-27-2001	07:33:56
005	00	5	1	0.67	1.91		7	2.87	8.37		06-27-2001	07:35:55
006	00	6	0	0.00	0.00		8	3.73	10.90		06-27-2001	07:37:54

Performed By: Melan Date: 6-27-01  
Reviewed By: Pal Jes Date: 6/28/01



FINAL SURVEY  
PIC IPC9025 216712

01W01 A PIN 15

041

ALPHA					BETA					DATE	TIME	
SN	RPT	ID	COUNTS	NET CPM	DPH	LIMITS	COUNTS	NET CPM	DPH	LIMITS		
001	00	1	0	0.00	0.00		2	-0.27	-0.78		06-27-2001	14:36:28
002	00	2	0	0.00	0.00		4	1.07	3.11		06-27-2001	14:38:27

Performed By: *Milum* Date: 6-27-01  
Reviewed By: *P. Ges* Date: 6/28/01

ALPHA				BETA							
ID	COUNTS	NET CPM	DPH	LIMITS	ID	COUNTS	NET CPM	DPH	LIMITS	DATE	TIME
001	00	0	0.00	0.00	001	00	0	0.00	0.00	04-27-2001	14:41:29
002	00	0	0.00	0.00	002	00	0	0.00	0.00	04-27-2001	14:43:28

Performed By: *[Signature]* Date: 6-22-01  
 Reviewed By: *[Signature]* Date: 6/28/01

ID	ALPHA				BETA				DATE	TIME
	EFF: 34.97%	REG: 0.00 cpm	MDA: 5.17 dpm	LIMITS	EFF: 34.25%	REG: 1.60 cpm	MDA: 19.30 dpm	LIMITS		
001 00	1	0.67	1.91		5	1.53	4.48		06-27-2001	14:47:01
002 00	2	0.00	0.00		3	0.40	1.17		06-27-2001	14:49:00

Performed By: *[Signature]* Date: 6-27-01  
 Reviewed By: *[Signature]* Date: 6/28/01

FINAL SURVEY  
PID 1P09A25 216715

01M01 D PIN 15

044

		ALPHA				BETA				
SN	RT	ID	EFF: 34.97%	ERR: 0.00 CPM	MDA: 5.17 DPM	EFF: 34.23%	ERR: 1.60 CPM	MDA: 19.30 DPM	DATE	TIME
			---COUNTS---	---NET CPM---	---DPM---	---COUNTS---	---NET CPM---	---DPM---	---	---
001	00	1	0	0.00	0.00	0	-1.60	-4.67	06-27-2001	14:54:15
002	00	2	0	0.00	0.00	2	-0.27	-0.78	06-27-2001	14:54:15

Performed By: *Q Miller* Date: 6-27-01

Reviewed By: *RLG* Date: 6/28/01

ID	ALPHA				BETA				DATE	TIME
	ETI	Bkg	CPM	MDA	ETI	Bkg	CPM	MDA		
001	00	0	0.00	0.00	1	-0.93	-2.73	06-27-2001	09:59:54	
002	00	0	0.00	0.00	1	-0.93	-2.73	06-27-2001	09:01:53	
003	00	0	0.00	0.00	1	-0.93	-2.73	06-27-2001	09:03:52	
004	00	0	0.00	0.00	1	-0.93	-2.73	06-27-2001	09:05:51	
005	00	0	0.00	0.00	2	-0.27	-0.78	06-27-2001	09:07:50	
006	00	0	0.00	0.00	2	-0.27	-0.78	06-27-2001	09:09:49	

Performed By: *[Signature]* Date: 6-27-2001  
 Reviewed By: *[Signature]* Date: 6/28/01

FIG 1PC9025 216712

		ALPHA				BETA				
1-SN-1-RPT-1-ID	1-COUNTS	1-NET CPM	1-DPM	1-LIMITS	1-COUNTS	1-NET CPM	1-DPM	1-LIMITS	1-DATE	1-TIME
001 00	0	0.00	0.00		7	3.07	8.95		06-27-2001	09:20:41
002 00	1	0.67	1.91		2	-0.47	-1.36		06-27-2001	09:23:40
003 00	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	09:24:39
004 00	0	0.00	0.00		2	-0.27	-0.78		06-27-2001	09:24:38
005 00	0	0.00	0.00		1	-0.93	-2.73		06-27-2001	09:28:37
006 00	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	09:30:36

Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm | Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm

Performed By: *J. Miller* Date: 6-27-01  
 Reviewed By: *P. L. G. S.* Date: 6/28/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm					Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		3	0.40	1.17		06-27-2001	09:44:45
002	00	2	0	0.00	0.00		3	0.40	1.17		06-27-2001	09:46:44
003	00	3	0	0.00	0.00		3	0.40	1.17		06-27-2001	09:48:43
004	00	4	0	0.00	0.00		1	-0.93	-2.73		06-27-2001	09:50:42
005	00	5	0	0.00	0.00		5	1.73	5.06		06-27-2001	09:52:41
006	00	6	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	09:54:40

Performed By: [Signature] Date: 6-27-01  
Reviewed By: [Signature] Date: 4/28/02

-----  
 ALPHA  
 -----  
Err: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm	Err: 34.25% Bkg: 1.60 cpm NDA: 19.30 dpm						
---COUNTS---	---NET CPM---	---DPM---	---LIMITS---	---COUNTS---	---NET CPM---	---DPM---	---LIMITS---
---SN---	---RPT---	---ID---					

ID	SN	RPT	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	00	0.00	0.00	0	0.00	0.00	0.00	0.00	06-27-2001	10:14:50
002	00	00	0.00	0.00	0	0.00	0.00	0.00	0.00	06-27-2001	10:16:49
003	00	00	1.91	0.67	1	1.91	0.67	1.91	0.67	06-27-2001	10:18:48
004	00	00	0.00	0.00	0	0.00	0.00	0.00	0.00	06-27-2001	10:20:47
005	00	00	1.91	0.67	1	1.91	0.67	1.91	0.67	06-27-2001	10:22:46
006	00	00	0.00	0.00	0	0.00	0.00	0.00	0.00	06-27-2001	10:24:45

Performed By: [Signature] Date: 6-27-01  
 Reviewed By: [Signature] Date: 6/28/01



ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm					Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		4	1.07	3.11		06-27-2001	14:04:47
002	00	2	0	0.00	0.00		1	-0.93	-2.73		06-27-2001	14:06:46
003	00	3	0	0.00	0.00		2	-0.27	-0.78		06-27-2001	14:09:45

Performed By: *[Signature]* Date: 6-27-01  
Reviewed By: *[Signature]* Date: 6/28/01

FINAL SURVEY  
PIC IP69025 216712

01W03 B PIN 15

ID	ALPHA				BETA				DATE	TIME
	Eff: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm	Eff: 34.25%	Bkg: 1.60 cpm	MDA: 19.30 dpm	NET CPM	DPN		
001 00	1	0.67	1.91	6	2.20	6.43			06-27-2001 14:12:34	
002 00	0	0.00	0.00	1	-0.93	-2.73			06-27-2001 14:14:33	
003 00	1	0.67	1.91	1	-1.13	-3.31			06-27-2001 14:16:32	

Performed By: J. Miller Date: 6-27-01

Reviewed By: R. G. P. Date: 6/28/01

ID	RT	ID	ALPHA			BETA			DATE	TIME
			ETI	Bkg	MDA	ETI	Bkg	MDA		
001	00	1	34.97%	0.00	5.17	34.25%	1.40	19.30	04-27-2001	4:24:13
002	00	2	0.00	0.00	0.00	0.00	1.07	3.11	04-27-2001	4:25:12
003	00	3	0.00	0.00	1.91	0.00	-1.80	-5.25	04-27-2001	4:25:11

Performed By: *[Signature]* Date: 4-27-01  
 Reviewed By: *[Signature]* Date: 4/28/01

ALPHA						BETA						
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm						Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm						
-SN-	-RPT-	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		4	1.07	3.11		06-27-2001	14:28:18
002	00	2	0	0.00	0.00		3	0.40	1.17		06-27-2001	14:30:17
003	00	3	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	14:32:16

Performed By: *[Signature]* Date: 6-27-01  
Reviewed By: *[Signature]* Date: 6/28/01

----- ALPHA -----				----- BETA -----									
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm				Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm									
SN	RPT	ID	LIMITS	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1		0	0.00	0.00		6	2.40	7.01		06-27-2001	12:46:44
002	00	2		0	0.00	0.00		8	3.73	10.90		06-27-2001	12:48:43
003	00	3		0	0.00	0.00		0	-1.60	-4.67		06-27-2001	12:50:42
004	00	4		0	0.00	0.00		3	0.40	1.17		06-27-2001	12:52:41
005	00	5		0	0.00	0.00		2	-0.27	-0.78		06-27-2001	12:54:40
006	00	6		1	0.67	1.91		3	0.20	0.59		06-27-2001	12:56:39

Performed By: *JML* Date: 6-27-01  
Reviewed By: *PLG* Date: 6/28/01

ALPHA					BETA					DATE	TIME	
-SN-	-RPT-	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS		
001	00	1	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	13:01:15
002	00	2	0	0.00	0.00		4	1.07	3.11		06-27-2001	13:03:14
003	00	3	0	0.00	0.00		1	-0.93	-2.73		06-27-2001	13:05:13
004	00	4	0	0.00	0.00		3	0.40	1.17		06-27-2001	13:07:12
005	00	5	0	0.00	0.00		1	-0.93	-2.73		06-27-2001	13:09:11
006	00	6	0	0.00	0.00		3	0.40	1.17		06-27-2001	13:11:10

Performed By: *[Signature]* Date: 6-27-01  
Reviewed By: *[Signature]* Date: 6/28/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm					Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm							
SN	RPT	ID	COUNTS	NET CPN	DPM	LIMITS	COUNTS	NET CPN	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		2	-0.27	-0.78		06-27-2001	13:36:26
002	00	2	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	13:38:25
003	00	3	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	13:40:24
004	00	4	0	0.00	0.00		2	-0.27	-0.78		06-27-2001	13:42:23
005	00	5	0	0.00	0.00		0	-1.60	-4.67		06-27-2001	13:44:22
006	00	6	0	0.00	0.00		3	0.40	1.17		06-27-2001	13:46:21

Performed By: *[Signature]* Date: 6-27-01  
Reviewed By: *[Signature]* Date: 6/28/01

PIC IPC9025 216712

		ALPHA				BETA			
ISN	RPT	NET CPM	DPN	LIMITS	NET CPM	DPN	LIMITS	DATE	TIME
001	00	0	0.00	0.00	4	1.07	3.11	06-27-2001	13:50:02
002	00	0	0.00	0.00	0	-1.60	-4.67	06-27-2001	13:52:02
003	00	1	0.67	1.91	1	-1.13	-3.31	06-27-2001	13:54:01
004	00	0	0.00	0.00	0	-1.60	-4.67	06-27-2001	13:56:00
005	00	0	0.00	0.00	7	3.07	8.95	06-27-2001	13:57:59
006	00	1	0.67	1.91	2	-0.47	-1.36	06-27-2001	13:59:58

Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm | Eff: 34.25% Bkg: 1.60 cpm NDA: 19.30 dpm

Performed By: Miller Date: 6/27/01

Reviewed By: Paul Goo Date: 6/29/01



		ALPHA				BETA						
ISN	RT-ID	ID	COUNTS	NET CPM	DPN	LIMITS	COUNTS	NET CPM	DPN	LIMITS	DATE	TIME
001	00	1	1	0.67	1.91		10	4.87	14.21		05-27-2001	08:27:21
002	00	2	2	1.33	3.81		6	2.00	5.85		05-27-2001	08:31:19
003	00	3	0	0.00	0.00		7	3.07	8.95		05-27-2001	08:31:19
004	00	4	0	0.00	0.00		8	3.73	10.90		05-27-2001	08:33:18

\* Not required PLO-C 2/20/01

Performed By: [Signature] Date: 6/22/01  
 Reviewed By: [Signature] Date: 6/29/01

		ALPHA				BETA						
SN	RPT	ID	Eff: 34.97% COUNTS	Bkg: 0.00 cpm NET CPM	MDA: 5.17 dpm DPN	LIMITS	Eff: 34.25% COUNTS	Bkg: 1.60 cpm NET CPM	MDA: 19.30 dpm DPN	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		5	1.73	5.06		06-27-2001	08:44:58
002	00	2	0	0.00	0.00		1	-0.93	-2.73		06-27-2001	08:49:58
* 003	00	3	0	0.00	0.00		4	1.07	3.11		06-27-2001	08:49:57
* 004	00	4	0	0.00	0.00		2	-0.27	-0.78		06-27-2001	08:47:56

\* Not read above table

Performed By: *[Signature]* Date: 6.27.01  
 Reviewed By: *[Signature]* Date: 6/28/01

-----ALPHA-----  
| Eff: 34.97% Bkg: 0.00 cpm MDAs: 5.17 dpm | Eff: 34.25% Bkg: 1.60 cpm MDAs: 19.30 dpm |  
|-----BETA-----|

SN-RPT-ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001 00	1	0.00	0.00	-1.60	4	1.07	3.11	-4.67	06-27-2001	07:48:05
002 00	2	0.00	0.00	-1.60	4	1.07	3.11	-4.67	06-27-2001	07:50:04
003 00	3	0.00	0.00	-1.60	0	-4.67			06-27-2001	07:52:03
004 00	4	0.00	0.00	-1.60	0	-4.67			06-27-2001	07:54:02
005 00	5	0.67	1.91	-1.80	0	-5.25			06-27-2001	07:56:01
006 00	6	0.67	1.91	-1.13	1	-3.31			06-27-2001	07:58:00

Performed By: [Signature] Date: 6/27/01  
Reviewed By: [Signature] Date: 6/28/01

				ALPHA				BETA						
				Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm				Eff: 34.25% Bkg: 1.60 cpm MDA: 19.30 dpm						
SN	RPT	ID	---	COUNTS	NET CPM	DPM	LIMITS	---	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1		1	0.67	1.91			3	0.20	0.59		06-27-2001	08:06:57
002	00	2		0	0.00	0.00			2	-0.27	-0.78		06-27-2001	08:08:56
003	00	3		0	0.00	0.00			6	2.40	7.01		06-27-2001	08:10:55
004	00	4		0	0.00	0.00			4	1.07	3.11		06-27-2001	08:12:54
005	00	5		0	0.00	0.00			3	0.40	1.17		06-27-2001	08:14:53
006	00	6		0	0.00	0.00			7	3.07	8.95		06-27-2001	08:16:52

Performed By: [Signature] Date: 6-27-01  
Reviewed By: [Signature] Date: 6/28/01

## **Section 6**

### **Package 15 H-3 Removable Beta Contamination Summary Data Table (including lab reports)**

H-3 Removable Beta Contamination Summary Data Table PKG 15.xls

Carrier No.	CPM	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Row	Location	Beta Efficiency	Beta Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
1	91	60	100	01F01	A	00001	0.115	0.00	795	795	24
2	47	60	100	01F01	A	00002	0.323	0.00	146	146	8
3	42	60	100	01F01	A	00003	0.205	0.00	204	204	13
4	49	60	100	01F01	A	00005	0.262	0.00	187	187	10
5	67	60	100	01F01	B	00002	0.239	0.00	281	281	11
6	57	60	100	01F01	B	00003	0.231	0.00	247	247	12
7	70	60	100	01F01	B	00004	0.110	0.00	636	636	25
8	41	60	100	01F01	B	00006	0.267	0.00	154	154	10
9	51	60	100	01W01	A	00002	0.302	0.00	169	169	9
10	41	60	100	01W01	B	00001	0.362	0.00	113	113	7
11	31	60	100	01W01	C	00001	0.378	0.00	82	82	7
12	31	60	100	01W02	A	00001	0.143	0.00	217	217	19
13	56	60	100	01W02	B	00005	0.338	0.00	166	166	8
14	54	60	100	01W02	C	00002	0.302	0.00	179	179	9
15	38	60	100	01W02	C	00004	0.280	0.00	136	136	10
16	54	60	100	01W02	D	00006	0.311	0.00	174	174	9
17	40	60	100	01W03	A	00001	0.384	0.00	104	104	7
18	38	60	100	01W03	A	00002	0.350	0.00	109	109	8
19	49	60	100	01W03	B	00001	0.359	0.00	137	137	8
20	29	60	100	01W03	C	00003	0.294	0.00	99	99	9
21	41	60	100	01W03	D	00002	0.262	0.00	157	157	10
22	36	60	100	01W04	A	00002	0.280	0.00	128	128	10
23	43	60	100	01W04	B	00003	0.368	0.00	117	117	7
24	51	60	100	01W04	C	00001	0.305	0.00	167	167	9
25	41	60	100	01W04	C	00006	0.353	0.00	116	116	8
26	42	60	100	01W04	D	00004	0.241	0.00	174	174	11
27	39	60	100	01C01	A	00001	0.297	0.00	131	131	9
28	34	60	100	01C01	A	00003	0.254	0.00	134	134	11
29	46	60	100	01C01	B	00003	0.294	0.00	156	156	9
30	32	60	100	01C01	B	00005	0.208	0.00	154	154	13
31	60	60	100	01V01	ZZZZZ	00002	0.066	0.00	905	905	41
32	54	60	100	01V02	ZZZZZ	00001	0.143	0.00	378	378	19
									# Measurements	31	
									Average	215	
									Maximum	905	
									STD DEV	192	

H-3 Removable Beta Contamination Summary Data Table PKG 15.xls

Carrier No.	CPM	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Row	Location	Beta Efficiency	Beta Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
									95% CL on Mean	293	

WED 27 JUN 2001 07:38

R: 1 ID:SMears PRESET TIME: 1.00  
 PLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N  
 H#: 1 ACC:N QCF:N RCM:N 2 PHASE MONITOR:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 0 UL: 670 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 0 UL: 1000 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0

SINGLE LABEL DPM: SET UP ON SUN 24 JUN 2001 16:19  
 UNKNOWN ID:SMears UNKNOWN REPLICATES: 1  
 UNKNOWN NORM FACTOR: 1.00000 UNKNOWN UNITS:DPM  
 QUENCH MODE:H CALCULATE COEFF:N HALF LIFE(DAYS):N  
 QUENCH COEFF A: 4.329559 B:-0.0051270 C:-0.0000122 D:-0.00000000212  
 STANDARD ID:  
 QUENCH LIMITS LOW:70.00 HIGH:390.0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG	H#	ERR
1	8-1	1	91.00	20.97	1.00	1.32	216.0		
		2	122.00	18.11					
		3	139.00	16.96					
2	8-2	1	47.00	29.17	1.00	%EFF:11.45	IS01 DPM :794.5350		
		2	70.00	23.90		2.79	123.0		
		3	91.00	20.97					
3	8-3	1	42.00	30.86	1.00	%EFF:32.26	IS01 DPM :145.6791		
		2	66.00	24.62		4.28	168.0		
		3	92.00	22.09					
4	8-4	1	49.00	28.57	1.00	%EFF:20.54	IS01 DPM :204.4810		
		2	80.00	22.36		5.77	145.0		
		3	100.00	20.00					
5	8-5	1	67.00	24.43	1.00	%EFF:26.15	IS01 DPM :187.3507		
		2	93.00	20.74		7.26	154.0		
		3	123.00	18.03					
6	8-6	1	57.00	26.49	1.00	%EFF:23.86	IS01 DPM :280.7957		
		2	97.00	20.31		8.75	157.0		
		3	117.00	18.49					
7	8-7	1	70.00	23.90	1.00	%EFF:23.12	IS01 DPM :246.4986		
		2	93.00	20.74		10.24	219.0		
		3	107.00	19.33					
8	8-8	1	41.00	31.23	1.00	%EFF:11.00	IS01 DPM :636.3326		
		2	68.00	24.25		11.72	143.0		
		3	92.00	20.85					
9	8-9	1	51.00	28.01	1.00	%EFF:26.68	IS01 DPM :153.6717		
		2	75.00	23.09		13.20	130.0		
		3	98.00	20.20					
						%EFF:30.24	IS01 DPM :168.6301		

Performed By: *J. Miller* Date: 6-27-01  
 Reviewed By: *P. Lopez* Date: 6/28/01



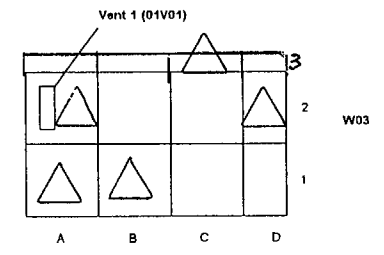
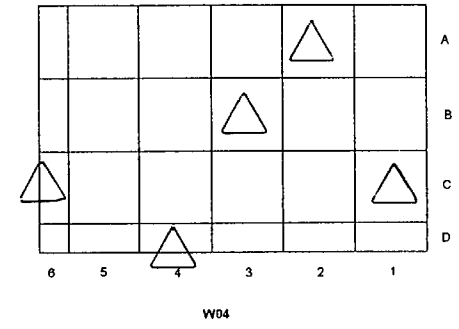
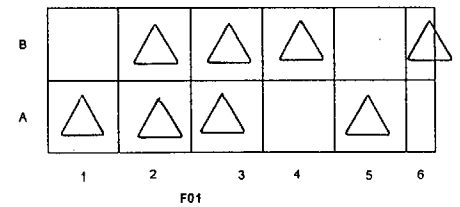
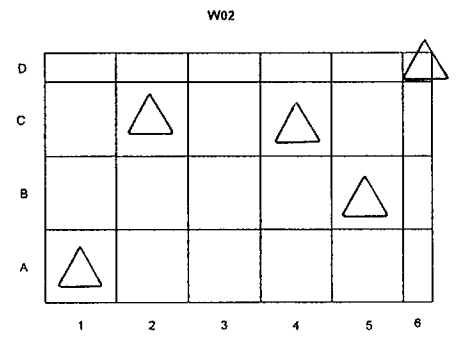
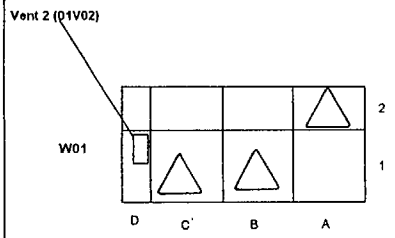
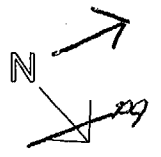
	POS	CH	CPM	2516%	TIME	EL TIME	AVG H#	ERR
10	8-10	1	41.00	31.23	1.00	14.68	110.0	
		2	68.00	24.25				
		3	94.00	20.63				
						%EFF:36.19	ISD1 DPM	:113.2945
11	8-11	1	31.00	35.92	1.00	16.17	105.0	
		2	69.00	24.08				
		3	105.00	19.52				
						%EFF:37.76	ISD1 DPM	:82.10369
12	8-12	1	31.00	35.92	1.00	17.76	199.0	
		2	60.00	25.82				
		3	79.00	22.50				
						%EFF:14.27	ISD1 DPM	:217.2549
13	6- 1	1	56.00	26.73	1.00	19.30	118.0	
		2	74.00	23.25				
		3	99.00	20.10				
						%EFF:33.75	ISD1 DPM	:165.9439
14	6- 2	1	54.00	27.22	1.00	20.78	130.0	
		2	80.00	22.36				
		3	97.00	20.31				
						%EFF:30.24	ISD1 DPM	:178.5495
15	6- 3	1	38.00	32.44	1.00	22.27	138.0	
		2	68.00	24.25				
		3	89.00	21.20				
						%EFF:28.02	ISD1 DPM	:135.6093
16	6- 4	1	54.00	27.22	1.00	23.77	127.0	
		2	81.00	22.22				
		3	107.00	19.33				
						%EFF:31.10	ISD1 DPM	:173.6293
17	6- 5	1	40.00	31.62	1.00	25.25	103.0	
		2	70.00	23.90				
		3	94.00	20.63				
						%EFF:38.39	ISD1 DPM	:104.1846
18	6- 6	1	38.00	32.44	1.00	26.73	114.0	
		2	63.00	25.20				
		3	93.00	20.74				
						%EFF:34.96	ISD1 DPM	:108.7044
19	6- 7	1	49.00	28.57	1.00	28.22	111.0	
		2	71.00	23.74				
		3	100.00	20.00				
						%EFF:35.88	ISD1 DPM	:136.5700
20	6- 8	1	29.00	37.14	1.00	29.70	133.0	
		2	55.00	26.97				
		3	89.00	21.20				
						%EFF:29.40	ISD1 DPM	:98.64037
21	6- 9	1	41.00	31.23	1.00	31.18	145.0	
		2	67.00	24.43				
		3	100.00	20.00				
						%EFF:26.15	ISD1 DPM	:156.7628
22	6-10	1	36.00	33.33	1.00	32.67	138.0	
		2	70.00	23.90				
		3	100.00	20.00				
						%EFF:28.02	ISD1 DPM	:128.4720

Performed By: Muler Date: 6-27-01  
 Reviewed By: Palys Date: 6/28/01


	POS	CH	DPM	2516%	TIME	EL TIME	AVG H#	ERR
23	6-11	1	43.00	30.50	1.00	34.15	108.0	
		2	77.00	22.79				
		3	103.00	19.71				
			%EFF:36.81 ISO1 DPM :116.8087					
24	6-12	1	51.00	28.01	1.00	35.65	129.0	
		2	71.00	23.74				
		3	103.00	19.71				
			%EFF:30.53 ISO1 DPM :167.0590					
25	7- 1	1	41.00	31.23	1.00	37.19	113.0	
		2	64.00	25.00				
		3	93.00	20.74				
			%EFF:35.26 ISO1 DPM :116.2686					
26	7- 2	1	42.00	30.86	1.00	38.67	153.0	
		2	71.00	23.74				
		3	102.00	19.80				
			%EFF:24.11 ISO1 DPM :174.2043					
27	7- 3	1	39.00	32.03	1.00	40.17	132.0	
		2	66.00	24.62				
		3	100.00	20.00				
			%EFF:29.68 ISO1 DPM :131.4031					
28	7- 4	1	34.00	34.30	1.00	41.65	148.0	
		2	62.00	25.40				
		3	83.00	21.95				
			%EFF:25.38 ISO1 DPM :133.9837					
29	7- 5	1	46.00	29.49	1.00	43.13	133.0	
		2	77.00	22.79				
		3	106.00	19.43				
			%EFF:29.40 ISO1 DPM :156.4641					
30	7- 6	1	32.00	35.36	1.00	44.62	167.0	
		2	63.00	25.20				
		3	84.00	21.82				
			%EFF:20.77 ISO1 DPM :154.0907					
31	7- 7	1	60.00	25.82	1.00	46.22	254.0	
		2	96.00	20.41				
		3	106.00	19.43				
			%EFF:6.631 ISO1 DPM :904.8000					
32	7- 8	1	54.00	27.22	1.00	47.71	199.0	
		2	82.00	22.09				
		3	104.00	19.61				
			%EFF:14.27 ISO1 DPM :378.4441					

Performed By: *[Signature]* Date: 6-27-01  
 Reviewed By: *[Signature]* Date: 6/28/01

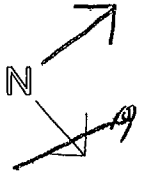
# Compressor Room



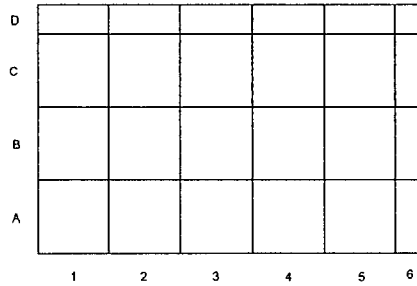
 — Denotes 1 Meter Grid

 - Denotes H-3 SMOKE LOCATION

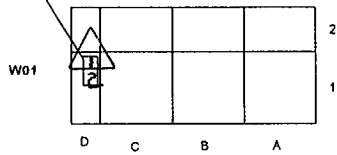
# Compressor Room



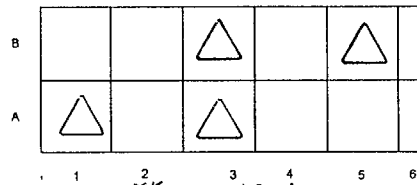
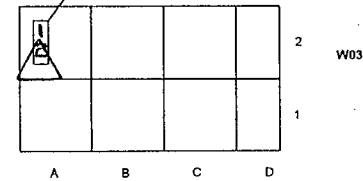
W02



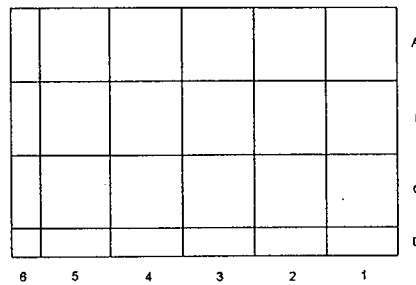
Vent 2 (01V02)



Vent 1 (01V01)



*Handwritten:* 01C01  
L27-01-POT



W04



Denotes 1 Meter Grid

△ - Denotes H-3 smear location

**Section 7**

**Package 15**  
**Isotopic Analysis of Block Walls**

Sample description

BLOCK DUST FROM COMPRESSOR ROOM

(Isotopic Sample Only)

#115

Spectrum Filename: C:\User\00010144.An1

Acquisition information

Start time 19-Jul-2000 09:15:55  
 Live time 596  
 Real time 600  
 Dead time .59%  
 Detector/Geometry IDs 1 & 0

Detector system

MCB 1

Calibration

Filename: WATERCAL.Clb

Created: 12-Jan-2000 09:57:17 & 12-Jan-2000 10:15:51  
 678-78-1

Zero offset -.242 keV; Gain .250 keV/channel  
 Quadratic  $-.536E-07$  keV/channel<sup>2</sup>

Library Files

Main analysis library: GT\_RX.Lib  
 Library Match Width: .500

Analysis parameters

Start channel 200 for an energy of 49.80keV  
 Stop channel 8000 for an energy of 1997.96keV  
 Peak rejection level 30.000%  
 Peak search sensitivity: 3  
 Sample Size: 1000.000  
 Activity scaling factor  $1.0000E+00 / ( 1.0000E+00 * 1.0000E+03)$   
 = 1.0000E-03

Detection limit method:

MDA - EG&G ORTEC method

Additional random error: 1.0000000E+00  
 Additional systematic error: 1.0000000E+00  
 Fraction Limit: .000%

Background width: best method (based on spectrum).

Corrections

Status

Comments

Decay correct to date NO  
 Decay during acquisition NO  
 Decay during collection NO  
 Peaked background correction NO  
 Absorption (Internal) NO

Geometry correction  
Random summing

NO  
NO

071

Energy calibration normalized difference: 1.0000

\*\*\*\*\* UNIDENTIFIED PEAK SUMMARY \*\*\*\*\*

PEAK CHANNEL	CENTROID ENERGY	BACKGROUND COUNTS	NET AREA COUNTS	INTENSITY CTS/SEC	UNCERT 2 SIGMA %	FWHM keV	SUSPECTED NUCLIDE
253.65	63.22	595.	393.	.659	20.23	1.073	PA-234 D*
299.55	74.70	777.	825.	1.384	11.82	1.081	BI-207 D
308.97	77.06	693.	1302.	2.183	7.96	1.082	BI-207 D
335.86	83.79	597.	208.	.348	36.09	1.087	TA-182 D
348.88	87.04	648.	341.	.572	23.69	1.089	PB-214 D
360.62	89.98	563.	208.	.349	35.05	1.091	PB-214 D
371.95	92.81	585.	529.	.887	15.57	1.093	TH-234 D
744.06	185.90	507.	650.	1.090	22.73	1.302	RA-226
953.92	238.38	294.	442.	.742	14.51	1.193	PB-212 D
967.63	241.81	246.	711.	1.192	9.76	1.196	PB-214 D*
1180.60	295.07	211.	1478.	2.479	6.40	1.136	PB-214 M*
1407.16	351.73	134.	2335.	3.915	4.67	1.141	PB-214 M*
2436.70	609.11	77.	1916.	3.212	5.39	1.318	BI-214 *
3072.75	768.07	32.	225.	.377	18.01	1.286	BI-214 M*
4482.46	1120.21	34.	431.	.723	10.36	1.758	BI-214 D*
4954.38	1238.05	0.	205.	.344	13.97	1.044	BI-214 SM*
5346.59	1460.77	25.	236.	.395	18.01	1.455	K-40 SM

s Peak fails shape tests.  
 D Peak area deconvoluted.  
 M Peak is close to a library peak.

\* Uranium decay Series. Naturally occurring. *2. J. J. J.*

\*\*\*\*\* SUMMARY OF LIBRARY PEAK USAGE \*\*\*\*\*

NUCLIDE NAME	CODE	AVERAGE ACTIVITY microCi	ENERGY keV	PEAK ACTIVITY microCi	CODE	MDA VALUE microCi	COMMENTS
MN-54		0.0000E+00	834.81	0.000E+00 %		7.729E-05	
FE-59		0.0000E+00	1099.22	0.000E+00 %		1.288E-04	
			1291.56	0.000E+00 %		1.788E-04	
			192.34	0.000E+00 %		1.652E-03	
			142.65	0.000E+00 %		6.701E-03	
CO-57		0.0000E+00	136.43	0.000E+00 %		5.262E-04	
CO-60		1.6231E-04	1332.51	1.623E-04 ?	(	3.837E-05	
			1173.23	0.000E+00 %		5.250E-05	
K-35		0.0000E+00	513.99	0.000E+00 %		1.159E-04	



Slide	Ave activity	Energy	Activity	Code	Peak MDA	Comments
ZN-65	0.0000E+00	1115.52	0.000E+00 %		2.251E-04	
		8.13	0.000E+00 =		0.000E+00	
CD-109	0.0000E+00	88.04	0.000E+00 %		2.315E-03	
		25.50	0.000E+00 =		0.000E+00	
CS-137	0.0000E+00	661.62	0.000E+00 %		6.621E-05	
		32.19	0.000E+00 =		0.000E+00	
		31.82	0.000E+00 =		0.000E+00	
		36.40	0.000E+00 =		0.000E+00	
EU-152	0.0000E+00	121.78	0.000E+00 %		2.097E-04	
		688.63	0.000E+00 %		8.822E-03	
		367.71	0.000E+00 %		3.176E-03	
		344.30	0.000E+00 &		1.763E-04	
		1408.08	1.259E-03		7.852E-04	
		964.00	0.000E+00 %		6.533E-04	
		1112.07	0.000E+00 !		6.698E-04	
		778.90	0.000E+00 &		7.153E-04	
		1085.80	0.000E+00 %		1.097E-03	
		244.67	0.000E+00 %		8.335E-04	
		867.39	0.000E+00 %		2.230E-03	
		444.00	0.000E+00 %		2.187E-03	
		411.09	0.000E+00 %		2.644E-03	
		1089.82	0.000E+00 %		5.041E-03	
1299.19	0.000E+00 %		3.288E-03			
1212.89	0.000E+00 %		4.978E-03			
EU-154	0.0000E+00	123.10	0.000E+00 %		1.582E-04	
		1274.80	0.000E+00 %		2.637E-04	
		723.30	0.000E+00 %		3.036E-04	
		1004.80	0.000E+00 %		5.849E-04	
		873.20	0.000E+00 %		8.591E-04	
		996.30	0.000E+00 %		5.949E-04	
		248.04	0.000E+00 %		7.475E-04	
		591.70	0.000E+00 &		1.551E-03	
		756.70	0.000E+00 %		2.469E-03	
		1597.30	0.000E+00 %		2.857E-03	
		692.50	0.000E+00 %		4.146E-03	
1397.80	0.000E+00 %		5.463E-03			
EU-155	0.0000E+00	86.45	0.000E+00 %		2.742E-04	
		105.31	0.000E+00 %		2.253E-04	
		60.01	0.000E+00 ?		5.306E-03	

( - This peak used in the nuclide activity average.

\* - Peak is too wide, but only one peak in library.

- ! - Peak is part of a multiplet and this area went negative during deconvolution.
- ? - Peak is too narrow.
- @ - Peak is too wide at FW25M, but ok at FWHM.
- % - Peak fails sensitivity test.
- \$ - Peak identified, but first peak of this nuclide failed one or more qualification tests.
- + - Peak activity higher than counting uncertainty range.
- - Peak activity lower than counting uncertainty range.
- = - Peak outside analysis energy range.
- & - Calculated peak centroid is not close enough to the library energy centroid for positive identification.
- P - Peakbackground subtraction

Nuclide Codes:

- T - Thermal Neutron Activation
- F - Fast Neutron Activation
- I - Fission Product
- N - Naturally Occurring Isotope
- P - Photon Reaction
- C - Charged Particle Reaction
- M - No MDA Calculation

Peak Codes:

- G - Gamma Ray
- X - X-Ray
- P - Positron Decay
- S - Single-Escape
- D - Double-Escape
- K - Key Line
- A - Not in Average

\*\*\*\*\* S U M M A R Y O F N U C L I D E S I N S A M P L E \*\*\*\*\*

NUCLIDE	TIME OF COUNT	UNCERTAINTY	2 SIGMA
	ACTIVITY	COUNTING	TOTAL
	uCi/ml	uCi/ml	uCi/ml
MN-54 <	7.7292E-08	0.000E+00	0.000E+00
FE-59 <	1.2884E-07	0.000E+00	0.000E+00
CO-57 <	5.2615E-07	0.000E+00	0.000E+00
CO-60 #	1.6231E-07	4.735E-08	4.776E-08
Kr-85 <	1.1587E-07	0.000E+00	0.000E+00
ZN-65 <	2.2510E-07	0.000E+00	0.000E+00
109 <	2.3155E-06	0.000E+00	0.000E+00
137 <	6.6210E-08	0.000E+00	0.000E+00
EU-152 <	2.0970E-07	0.000E+00	0.000E+00
EU-154 <	1.5818E-07	0.000E+00	0.000E+00
EU-155 <	2.7417E-07	0.000E+00	0.000E+00

- # All peaks for activity calculation had bad shape.
- \* Activity omitted from total
- & Activity omitted from total and all peaks had bad shape.

----- S U M M A R Y -----

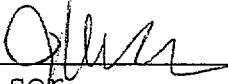
TOTAL ACTIVITY ( 49.8 to 1998.0 keV) 1.6230670E-07 uCi/ml

Analyzed by: \_\_\_\_\_



OPERATOR

Reviewed by: \_\_\_\_\_



Supervisor

Laboratory: IT Lab @ Georgia Tech Research Reactor

**Georgia Institute of Technology  
Research Reactor**

**Final Survey Package 16**

**Areas Outside Process Equipment Room  
Below 2 Meters**

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## **Section 1**

# **Survey Package 16 Worksheet for the Basement General Area Outside the Process Equipment Room Below 2 Meters**

Duratek Inc.

Survey Package Worksheet for Basement General Area Outside the Process Equipment Room.

Georgia Institute of Technology Research Reactor

Package Identification No.: 16	Prepared by: Paul Jones
Location: Basement Areas Outside Process Area Room Below 2 Meters	Date prepared: 06/28/2001
Area Classification: Suspect Affected	

#### Area Description

This area consists of several areas outside the process area room. For the purposes of final survey, the area is divided into the following 5 parts;

- 1) Helium Rupture Disk Chamber (~ 22 square meters of floor area)
- 2) Rabbit Room (~ 12 square meters of floor area)
- 3) Experiment Room (~ 12 square meters of floor area)
- 4) MC Panel Area (~ 80 square meters of floor area)
- 5) Basement Stairwell Area (~ 160 square meters of floor area).

#### Historical Information

This area contained some contaminated equipment (eg. Pneumatic tube system, biomedical door hydraulic system, D2O analysis equipment and misc. coolant system lines). Approx. 10% of the floor required decontamination in this area. Only minor decontamination was required on the walls of this area.

#### General Survey Instructions

Floor and Lower walls (below 2 meters) of the process area room.

- 1) Ensure the area is gridded as shown on the grid map(s).
- 2) Perform a 100% beta scan on the floor and lower walls to identify areas of elevated activity.
- 3) Obtain 1 direct beta measurement for each 1 m<sup>2</sup>.
- 4) Obtain 1 smear for removable beta and alpha contamination for each 1 m<sup>2</sup> of area.
- 5) Obtain 1 exposure rate measurement at 1 meter above the floor at each corresponding direct beta measurement location.
- 6) Obtain a minimum of 30 smears for H-3 analysis.

Use only the Package ID, L2, L7 and L8 codes when labeling smears for counting.

Use all location codes provided below when taking fixed beta readings.

Special Instructions

- 1) Source check meters to Tc-99 for beta measurements.
- 2) Use gas flow proportional detector model numbers 43-68 and 43-106 for surveys on smooth surfaces.
- 3) The direct beta, smears, and the exposure rate measurements should be taken in the center of each grid.
- 4) Exposure rate measurements taken in the rupture disk chamber room should be taken equidistant between the floor and ceiling in the center of each grid.
- 5) Use GM detector model number 44-40 for surveys on rough concrete, e.g. trenches and heavily scabbled surfaces.
- 6) Verify that the MDA is less than 600dpm/100cm<sup>2</sup> for direct beta measurements after obtaining initial background.
- 7) During scanning the detector is to be kept as close to the surface as possible and moved across the surface at a slow speed (scan speed shall not exceed one probe width per sec). The scan should be performed using the audible output and using headphones whenever necessary.

Survey performance (initial and date as each survey is complete)

Location Code					General Description	Beta Scan	Direct Beta	1 meter Gamma	Smear Gross α/β	LS Smear
L1	L2	L6	L7	L8						
Rupture Disk Chamber Room										
A0216	01F01	B0002	See Grid Map(A-G)	See Grid Map(1 - 8)	Floor	DBS 7-9-01	(37) RA 2X 7-5-01	(37) wmb 7-10-01	(37) wmb 7-10-01	(5) wmb 7-10-01
A0216	01W01	B0002	A thru B	1 thru 19	Wall 1	DBS 7-9-01	(38) RA 2X 7-5-01	N/A	(38) wmb 7-10-01	(2) wmb 7-10-01
A0216	01W02	B0002	A thru B	1 thru 6	Wall 2	DBS 7-9-01	(12) RA 2X 7-5-01	N/A	(12) wmb 7-10-01	(2) wmb 7-10-01
A0216	01W03	B0002	A thru B	1 thru 7	Wall 3	DBS 7-9-01	(13) RA 2X 7-5-01	N/A	(13) wmb 7-10-01	(2) wmb 7-10-01
A0216	01W04	B0002	A thru B	1 thru 3	Wall 4	DBS 7-9-01	(6) RA 2X 7-5-01	N/A	(6) wmb 7-10-01	(2) wmb 7-10-01
A0216	01C01	B0002	See Grid Map(A-G)	See Grid Map(1 - 8)	Ceiling	DBS 7-9-01	(37) RA 2X 7-5-01	N/A	(37) wmb 7-10-01	(2) wmb 7-10-01
				A						
			N							



Location Code					General Description	Beta Scan	Direct Beta	1 meter Gamma	Smear Gross α/β	LS Smear
L1	L2	L6	L7	L8						
Rabbit Room										
A0216	02F01	B9999	A thru E (see map)	1 thru 4 (see map)	Rabbit Room Floor	BK 7-10-01	(16) <del>RA BK</del> 7-5-01	(16) WMB 7-10-01	(16) WMB 7-6-01	(2) WMB 7-6-01
A0216	02W01	B0001	A thru B	1 thru 3	Rabbit Room Wall 1	BK 7-10-01	(6) <del>RA BK</del> 7-5-01	N/A	(6) WMB 7-6-01	(1) WMB 7-6-01
A0216	02W02	B9999	A thru B	1 thru 4	Rabbit Room Wall 2	BK 7-10-01	(8) <del>RA BK</del> 7-5-01	N/A	(8) WMB 7-6-01	(2) WMB 7-6-01
A0216	02W03	B9999, B0001	A thru B	1 thru 5	Rabbit Room Wall 3	BK 7-10-01	(10) <del>RA BK</del> 7-5-01	N/A	(10) WMB 7-6-01	(2) WMB 7-6-01
A0216	02W04	B0001, B0004	A thru B	1 thru <del>5</del> 4	Rabbit Room Wall 4	BK 7-10-01	(10) <del>RA BK</del> 7-5-01	N/A	(10) WMB 7-6-01	(2) WMB 7-6-01
					N A					
(A diagonal line is drawn across the remaining empty rows of the table.)										

Survey performance (Initial and date as survey is complete)

Location Code					General Description	Beta Scan	Direct Beta	1 meter Gamma	Smear Gross $\alpha/\beta$	LS Smear
L1	L2	L6	L7	L8						
Experiment Room										
A0216	03F01	B9999	A thru E (see map)	1 thru 6 see map)	Experiment Room Floor	BSK 7-6-01	(23) BSK 7-6-01	(23) WMB 7-15-01	(23) WMB 7-6-01	(2) WMB 7-6-01
A0216	03W01	B0001	A thru B	1 thru 3	Experiment Room Wall 1	BSK 7-6-01	(6) BSK 7-6-01	N/A	(6) WMB 7-6-01	(1) WMB 7-6-01
A0216	03W02	B9999, B0001	A thru B	1 thru 5	Experiment Room Wall 2	BSK 7-6-01	(10) BSK 7-6-01	N/A	(10) WMB 7-5-01	(2) WMB 7-6-01
A0216	03W03	B9999, B0001	A thru B	1 thru 8	Experiment Room Wall 3	BSK 7-6-01	(16) BSK 7-6-01	N/A	(16) WMB 7-6-01	(2) WMB 7-6-01
A0216	03W04	B9999	A thru B	1 thru 4	Experiment Room Wall 4	BSK 7-6-01	(8) BSK 7-6-01	N/A	(8) WMB 7-6-01	(2) WMB 7-6-01

N A

Location Code					General Description	Beta Scan	Direct Beta	1 meter Gamma	Smear Gross α/β	LS Smear
L1	L2	L6	L7	L8						
MC Panel Area										
A0216	04F01	B0002, B0003	A thru O	1 thru 13	Floor of MC Panel Area	BSK 7-6-01	(91) BSK 7-6-01	(91) WMB 7-10-01	(91) WMB 7-6-01	(10) WMB 7-6-01
A0216	04W01	B0001	A thru B	1 thru 22	Wall 1 of MC Panel Area	BSK 7-6-01	(44) BSK 7-6-01	N/A	(44) WMB 7-6-01	(4) WMB 7-6-01
A0216	04W02	B0004	A thru B	1 thru 6	Wall 2 of MC Panel Area	BSK 7-6-01	(12) BSK 7-6-01	N/A	(12) WMB 7-6-01	(2) WMB 7-6-01
A0216	04W03	B9999, B0001	A thru B	1 thru 12	Wall 3 of MC Panel Area	BSK 7-6-01	(24) BSK 7-6-01	N/A	(24) WMB 7-6-01	(3) WMB 7-6-01
A0216	04S01	B9999	ZZZZZ	1 thru 10	Sump	BSK 7-6-01	(10) BSK 7-6-01	N/A	(10) WMB 7-6-01	(2) WMB 7-6-01
A0216	04V01	B9999	ZZZZZ	1 thru 5	Rx Vent Duct	BSK 7-6-01	(5) BSK 7-6-01	N/A	(5) WMB 7-10-01	(2) WMB 7-10-01
A0216	04V02	B9999	ZZZZZ	1 thru 5	Air Conditioning Vent	BSK 7-6-01	(5) BSK 7-6-01	N/A	(5) WMB 7-10-01	(2) WMB 7-10-01
A0216	<del>04F02</del> 04502	B0002	ZZZZZ	1-5	Cement Blocks	BSK 7-6-01	(5) BSK 7-6-01	N/A	(5) WMB 7-9-01	(1) WMB 7-9-01
A0216	04EQ1	B9999	ZZZZZ	1-15	MC Panel	BSK 7-9-01	(15) BSK 7-9-01	N/A	(15) WMB 07-07-01	(2) WMB 7-9-01
						A				
						N				

Location Code					General Description	Beta Scan	Direct Beta	1 meter Gamma	Smear Gross α/β	LS Smear
L1	L2	L6	L7	L8						
Stairwell General Area										
A0216	05F01	B0002, B0003	A thru L	1 thru 23	Floor of Stairwell General Area	BSK 7-9-01 RA2 7-10-01	(180) BSK 7-9-01	(180) unmb 7-10-01	(180) RA2 7-10-01	(15) RA2 7-10-01
A0216	05W01	B0001	A thru B	1 thru 41	Wall 1 of Stairwell General Area	BSK 7-4-01	(82) BSK 7-6-01	N/A	(82) RA2 7-10-01	(5) RA2 7-10-01
A0216	05W02	B0004	A thru B	1 thru 22	Wall 2 of Stairwell General Area	BSK 7-4-01	(44) BSK 7-6-01	N/A	(44) RA2 7-10-01	(4) RA2 7-10-01
A0216	05S01	B0001	ZZZZZ	1 thru 5	Structure 1 (Column)	RA2 7-10-01	(5) RA2 7-10-01	N/A	(5) RA2 7-10-01	(2) RA2 7-10-01
A0216	05S02	B0001	ZZZZZ	1 thru 5	Structure 2 (Column)	RA2 7-10-01	(5) RA2 7-10-01	N/A	(5) RA2 7-10-01	(2) RA2 7-10-01
A0216	05S03	B0001	ZZZZZ	1 thru 5	Structure 3 (Column)	RA2 7-10-01	(5) RA2 7-10-01	N/A	(5) RA2 7-10-01	(2) RA2 7-10-01
A0216	05S04	B0001	ZZZZZ	1 thru 5	Structure 4 (Column)	RA2 7-10-01	(5) RA2 7-10-01	N/A	(5) RA2 7-10-01	(2) RA2 7-10-01
A0216	05S05	B9999	ZZZZZ	1 thru 15	Structure 5 (Exterior of HEPA Vent. Unit)	RA2 7-10-01	(15) RA2 7-10-01	N/A	(15) RA2 7-10-01	(2) RA2 7-10-01
			N	A						

Package Review

Date Package Completed

5/21/02

Package Reviewed by and Date

Bob Jones 5/21/02

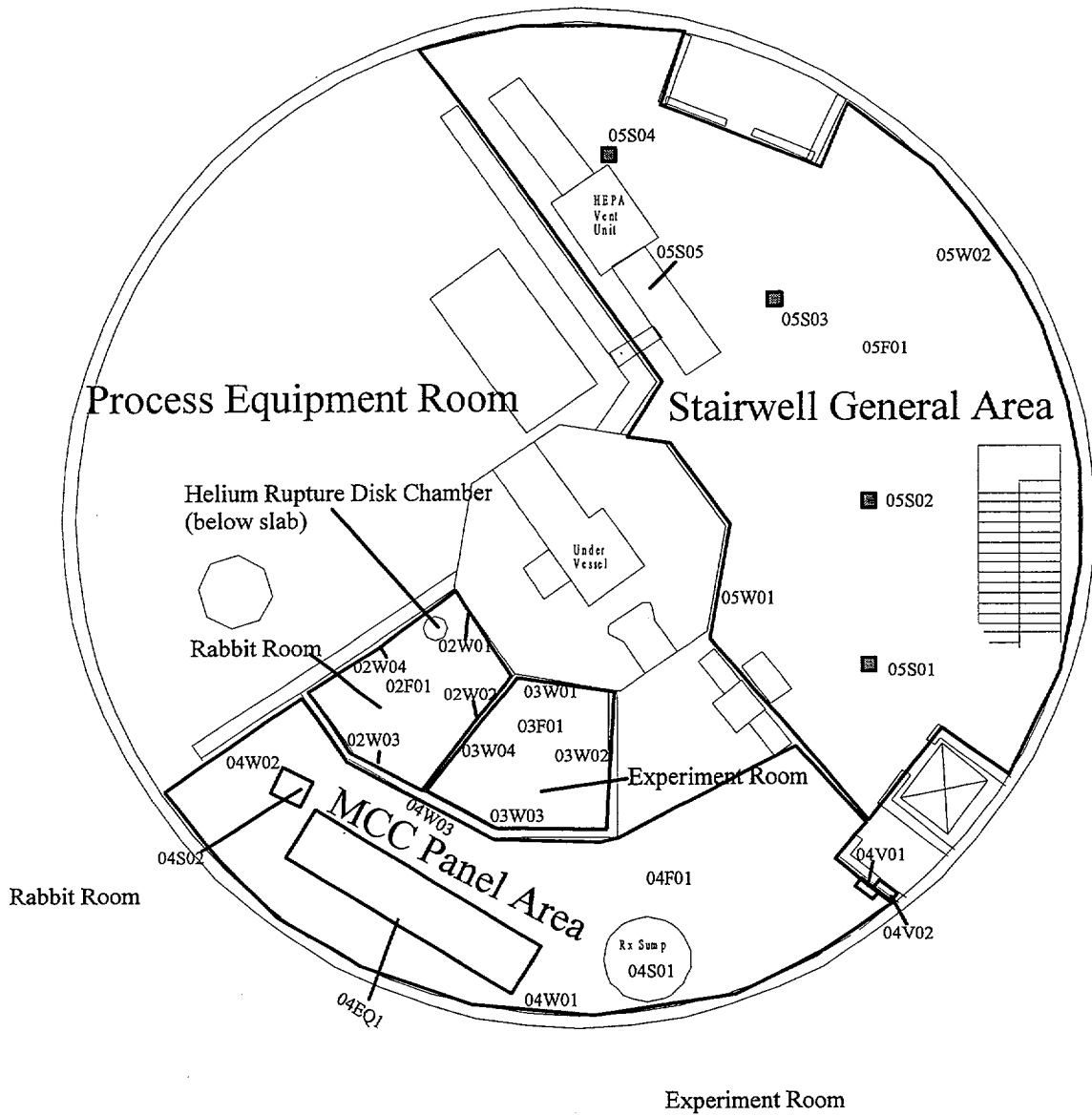
Survey Comments

Elevated exposure rate measurements were identified in the stairwell general area. Investigation of the elevated exposure rate measurements from the stairwell general area (05F01) revealed that all elevated measurements were in close proximity to the air compressor room block walls. This wall contains elevated levels of naturally occurring radioactive materials. See package 15 for additional information on the air compressor room.

**Section 2**

**Package 16  
Drawing**

# Areas Outside Process Room Below 2 Meters



**Section 3**

**Package 16**  
**Exposure Rate Measurements**



014

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Download Print  
 Technician: Name: D. Schumaker Signature: [Signature] Station: 2  
 Serial No. Verification: Model 2350  Detector:  File: 171  
 Problems:  (See Comments)

Survey Technician(s):  
 Print Name: Bill Bishop User ID WMB7302 Signature: [Signature] Date: 7-9-01  
 Print Name: \_\_\_\_\_ User ID \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Survey Unit Description: A0216: R+ Basement Area 01, 02, 03, 04, 05  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)

Instrument Model and Serial No.: Model 2350  Model 2350-1 : 126182  
 Instrument and Detector Calibration Due Dates: Survey Meter: 9/22/01 Detector: 12-06-01  
 Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain): \_\_\_\_\_

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input type="checkbox"/> Beta $\beta$		43-68B				
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input checked="" type="checkbox"/> Gamma $\gamma$	<u>PR091034</u>	44-2	N/A	<u>N/A</u>	<u>171</u>	<u>171</u>

Local Area Background Measurements						MEAN Value in cpm	
$\beta$ Beta	1	2	3	4	5	6	
$\alpha$ Alpha	1	2	3	4	5	6	

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

## GEORGIA INSTITUTE OF TECHNOLOGY

## Gamma Radiation Survey Report, Micro-R/hour - Integrated Measurement

File Number: 171	Survey Description: A0216: RX BASEMENT AREAS 01,02,03,04,05		
Survey Reason: TERMINATION	User ID: WMB7302	Technician name: Bill Bishop	
Instrument Model: M2350-1	S/N: 126182	Calibration Due: 9/22/01	Group: 2
Detector Model: 44-2	Detector S/N: PR091034	Type: High Energy Gamma Scintillator, 1x1 NaI	
Background: 0.0 uR/hr	Gamma Calibration Constant: 1.70095 E10 c/R	PIC ratio: 1.000 (PIC/NaI)	Survey Date: <del>7/08/01</del> 7-9-01

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

## Technician Review:

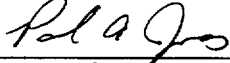
I have reviewed this cover sheet and 8 pages of the report, 1 pages of comments, and 1 graph.

I performed this survey: Bill Bishop,  Date: 7-9-01  
 Print name Signature

and,  
 I performed this survey: \_\_\_\_\_ / \_\_\_\_\_ Date: \_\_\_\_\_  
 Print name Signature

## Corrections and reason (required):

## Comment Resolution:

Survey Reviewed and Approved by: PAUL JONES,  Date: 7/8/01  
 Print name Signature

Survey Date: 7/08/01  
File: 171

Report Date: 7/09/01

Station: 2  
Page: 1

Survey Code	L1 A0216	L2 01F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
A	00003	4	10	937	19.8	*
A	00004	5	10	986	20.9	*
A	00005	6	10	1017	21.5	*
B	00001	8	10	974	20.6	*
B	00002	9	10	1004	21.2	*
B	00003	10	10	949	20.1	*
B	00004	11	10	938	19.9	*
B	00005	12	10	939	19.9	*
B	00006	13	10	980	20.7	*
C	00001	14	10	977	20.7	*
C	00002	15	10	962	20.4	*
C	00003	16	10	1005	21.3	*
C	00004	17	10	970	20.5	*
C	00005	18	10	934	19.8	*
C	00006	19	10	970	20.5	*
C	00007	20	10	903	19.1	*
C	00008	21	10	1047	22.2	*
D	00001	22	10	1012	21.4	*
D	00004	23	10	1001	21.2	*
D	00005	24	10	945	20.0	*
D	00006	25	10	895	18.9	*
D	00007	26	10	943	20.0	*
D	00008	27	10	974	20.6	*
E	00004	28	10	992	21.0	*
E	00005	29	10	953	20.2	*
E	00006	30	10	938	19.9	*
E	00007	31	10	881	18.6	*
E	00008	32	10	950	20.1	*
F	00003	33	10	1007	21.3	*
F	00004	34	10	947	20.0	*
F	00005	35	10	960	20.3	*
F	00006	36	10	972	20.6	*
F	00007	37	10	961	20.3	*
F	00008	38	10	940	19.9	*
G	00003	39	10	974	20.6	*
G	00004	40	10	930	19.7	*
G	00007	41	10	936	19.8	*

Group Average: 5773 cpm      Average uR/hr: 20.4  
Number of measurements: 37

Survey Code	L1 A0216	L2 02F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
A	00003	42	10	751	15.9	*
B	00001	43	10	823	17.4	*
B	00002	44	10	820	17.4	*
B	00003	45	10	737	15.6	*
B	00004	46	10	721	15.3	*
C	00001	47	10	771	16.3	*
C	00002	48	10	777	16.4	*
C	00003	49	10	729	15.4	*
C	00004	50	10	730	15.5	*
D	00001	51	10	726	15.4	*
I	00002	52	10	793	16.8	*
J	00003	53	10	743	15.7	*
D	00004	54	10	708	15.0	*
E	00001	55	10	791	16.7	*

\* Hi flag set at 15.0 micro-R/hr.

Comments

Survey Date: 7/08/01  
File: 171

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Comments

Survey Code	L1 A0216	L2 02F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
E	00002	56	10	771	16.3	*
E	00003	57	10	749	15.9	*
Group Average: 4553 cpm			Average uR/hr: 16.1			
Number of measurements: 16						

Survey Code	L1 A0216	L2 03F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
A	00001	58	10	762	16.1	*
A	00002	59	10	775	16.4	*
A	00003	60	10	810	17.1	*
A	00004	61	10	783	16.6	*
A	00005	62	10	765	16.2	*
A	00006	63	10	744	15.7	*
B	00001	64	10	756	16.0	*
B	00002	65	10	792	16.8	*
B	00003	66	10	801	17.0	*
B	00004	67	10	813	17.2	*
B	00005	68	10	805	17.0	*
B	00006	69	10	750	15.9	*
C	00001	70	10	746	15.8	*
C	00002	71	10	769	16.3	*
C	00003	72	10	763	16.1	*
C	00004	73	10	766	16.2	*
C	00005	74	10	787	16.7	*
C	00006	75	10	769	16.3	*
D	00002	76	10	753	15.9	*
D	00003	77	10	745	15.8	*
D	00004	78	10	785	16.6	*
D	00005	79	10	776	16.4	*
E	00005	80	10	821	17.4	*
Group Average: 4653 cpm			Average uR/hr: 16.4			
Number of measurements: 23						

Survey Code	L1 A0216	L2 04F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
A	00002	81	10	843	17.8	*
A	00003	82	10	930	19.7	*
B	00002	83	10	813	17.2	*
B	00003	84	10	849	18.0	*
B	00004	85	10	833	17.6	*
B	00005	86	10	894	18.9	*
B	00006	87	10	881	18.6	*
C	00001	88	10	812	17.2	*
C	00002	89	10	804	17.0	*
C	00003	90	10	876	18.5	*
C	00004	91	10	902	19.1	*
C	00005	92	10	900	19.0	*
C	00006	93	10	802	17.0	*

\* Hi flag set at 15.0 micro-R/hr.

Survey Date: 7/08/01  
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Survey Code	L1 A0216	L2 04F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
C	00007	94	10	758	16.0	*
C	00008	95	10	840	17.8	*
D	00001	96	10	814	17.2	*
D	00002	97	10	825	17.5	*
D	00003	98	10	806	17.1	*
D	00004	99	10	841	17.8	*
D	00005	100	10	821	17.4	*
D	00006	101	10	745	15.8	*
D	00007	102	10	628	13.3	*
D	00008	103	10	725	15.3	*
D	00009	104	10	749	15.9	*
E	00001	105	10	812	17.2	*
E	00002	106	10	798	16.9	*
E	00003	107	10	799	16.9	*
E	00004	108	10	762	16.1	*
E	00005	109	10	795	16.8	*
E	00006	110	10	721	15.3	*
E	00007	111	10	603	12.8	*
E	00008	112	10	686	14.5	*
E	00009	113	10	719	15.2	*
E	00010	114	10	812	17.2	*
F	00001	115	10	754	16.0	*
F	00002	116	10	773	16.4	*
F	00003	117	10	711	15.0	*
F	00004	118	10	768	16.3	*
F	00005	119	10	712	15.1	*
F	00006	120	10	770	16.3	*
F	00007	121	10	675	14.3	*
F	00008	122	10	607	12.8	*
F	00009	123	10	639	13.5	*
F	00010	124	10	757	16.0	*
F	00011	125	10	822	17.4	*
G	00005	126	10	720	15.2	*
G	00006	127	10	711	15.0	*
G	00007	128	10	731	15.5	*
G	00008	129	10	668	14.1	*
G	00009	130	10	615	13.0	*
G	00010	131	10	768	16.3	*
G	00011	132	10	847	17.9	*
H	00007	133	10	742	15.7	*
H	00008	134	10	788	16.7	*
H	00009	135	10	763	16.1	*
H	00010	136	10	893	18.9	*
H	00011	137	10	905	19.2	*
H	00012	138	10	840	17.8	*
I	00007	139	10	784	16.6	*
I	00008	140	10	807	17.1	*
I	00009	141	10	781	16.5	*
I	00010	142	10	823	17.4	*
I	00011	143	10	884	18.7	*
I	00012	144	10	778	16.5	*
J	00008	145	10	750	15.9	*
J	00009	146	10	830	17.6	*
J	00010	147	10	800	16.9	*
J	00011	148	10	785	16.6	*
J	00012	149	10	870	18.4	*
K	00009	150	10	730	15.5	*
K	00010	151	10	837	17.7	*
K	00011	152	10	786	16.6	*
K	00012	153	10	837	17.7	*
L	00009	154	10	812	17.2	*
L	00010	155	10	776	16.4	*
L	00011	156	10	858	18.2	*
L	00012	157	10	835	17.7	*

Comments

\* Hi flag set at 15.0 micro-R/hr.

Survey Date: 7/08/01  
File: 171

Report Date: 7/09/01

Station: 2  
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Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	A0216	04F01	TAT01	03100	FLDCT	B0002	Det Cal Due: 12/06/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
L	00013	158	10	865	18.3	*
M	00009	159	10	805	17.0	*
M	00010	160	10	802	17.0	*
M	00011	161	10	809	17.1	*
M	00012	162	10	894	18.9	*
M	00013	163	10	859	18.2	*
N	00009	164	10	806	17.1	*
N	00010	165	10	775	16.4	*
N	00011	166	10	888	18.8	*
N	00012	167	10	880	18.6	*
N	00013	168	10	991	21.0	*
O	00009	169	10	770	16.3	*
O	00010	170	10	779	16.5	*
O	00011	171	10	728	15.4	*

Group Average: 4760 cpm      Average uR/hr: 16.8  
Number of measurements: 91

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	A0216	05F01	TAT01	03100	FLDCT	B0002	Det Cal Due: 12/06/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
A	00016	172	10	873	18.5	*
A	00017	173	10	813	17.2	*
A	00018	174	10	677	14.3	*
A	00019	175	10	653	13.8	*
A	00020	176	10	805	17.0	*
A	00021	177	10	819	17.3	*
A	00022	178	10	749	15.9	*
B	00011	179	10	841	17.8	*
B	00012	180	10	846	17.9	*
B	00015	181	10	911	19.3	*
B	00016	182	10	877	18.6	*
B	00017	183	10	764	16.2	*
B	00018	184	10	723	15.3	*
B	00019	185	10	756	16.0	*
B	00020	186	10	776	16.4	*
B	00021	187	10	801	17.0	*
B	00022	188	10	815	17.2	*
C	00001	189	10	764	16.2	*
C	00002	190	10	889	18.8	*
C	00003	191	10	925	19.6	*
C	00004	192	10	955	20.2	*
C	00005	193	10	911	19.3	*
C	00006	194	10	856	18.1	*
C	00007	195	10	911	19.3	*
C	00008	196	10	817	17.3	*
C	00009	197	10	823	17.4	*
C	00010	198	10	800	16.9	*
C	00011	199	10	847	17.9	*
C	00012	200	10	894	18.9	*
C	00013	201	10	911	19.3	*
C	00014	202	10	830	17.6	*
C	00015	203	10	909	19.2	*
C	00016	204	10	800	16.9	*
C	00017	205	10	786	16.6	*
C	00018	206	10	785	16.6	*
C	00019	207	10	782	16.6	*
C	00020	208	10	779	16.5	*

\* Hi flag set at 15.0 micro-R/hr.

Comments

Survey Date: 7/08/01  
File: 171

Report Date: 7/09/01

Station: 2  
Page: 5

Survey Code	L1 A0216	L2 05F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
C	00021	209	10	752	15.9	*
C	00022	210	10	630	13.3	
D	00001	211	10	855	18.1	*
D	00002	212	10	994	21.0	*
D	00003	213	10	966	20.4	*
D	00004	214	10	965	20.4	*
D	00005	215	10	850	18.0	*
D	00006	216	10	870	18.4	*
D	00007	217	10	876	18.5	*
D	00008	218	10	810	17.1	*
D	00009	219	10	713	15.1	*
D	00010	220	10	708	15.0	
D	00011	221	10	918	19.4	*
D	00012	222	10	918	19.4	*
D	00013	223	10	936	19.8	*
D	00014	224	10	845	17.9	*
D	00015	225	10	863	18.3	*
D	00016	226	10	862	18.2	*
D	00017	227	10	860	18.2	*
D	00018	228	10	815	17.2	*
D	00019	229	10	793	16.8	*
D	00020	230	10	748	15.8	*
D	00021	231	10	757	16.0	*
D	00022	232	10	797	16.9	*
E	00001	233	10	1022	21.6	*
E	00002	234	10	1063	22.5	*
E	00003	235	10	961	20.3	*
E	00004	236	10	1215	25.7	*
E	00005	237	10	1098	23.2	*
E	00006	238	10	960	20.3	*
E	00007	239	10	926	19.6	*
E	00008	240	10	861	18.2	*
E	00009	241	10	867	18.3	*
E	00010	242	10	797	16.9	*
E	00011	243	10	881	18.6	*
E	00012	244	10	942	19.9	*
E	00013	245	10	935	19.8	*
E	00014	246	10	925	19.6	*
E	00015	247	10	859	18.2	*
E	00016	248	10	847	17.9	*
E	00017	249	10	846	17.9	*
E	00018	250	10	775	16.4	*
E	00019	251	10	798	16.9	*
E	00020	252	10	722	15.3	*
E	00021	253	10	660	14.0	
E	00022	254	10	646	13.7	
F	00002	255	10	1291	27.3	*
F	00003	256	10	1494	31.6	*
F	00004	257	10	1504	31.8	*
F	00005	258	10	1303	27.6	*
F	00006	259	10	1174	24.8	*
F	00007	260	10	1121	23.7	*
F	00008	261	10	1084	22.9	*
F	00009	262	10	958	20.3	*
F	00010	263	10	990	21.0	*
F	00011	264	10	989	20.9	*
F	00012	265	10	921	19.5	*
F	00013	266	10	940	19.9	*
F	00014	267	10	910	19.3	*
F	00015	268	10	885	18.7	*
F	00016	269	10	833	17.6	*
F	00017	270	10	789	16.7	*
F	00018	271	10	825	17.5	*
F	00019	272	10	739	15.6	*

Comments

\* Hi flag set at 15.0 micro-R/hr.

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File: 171

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Survey Code	L1 A0216	L2 05F01	L3 TAT01	L4 03100	L5 FLDCT	L6 B0002	Setup Number 2 Det Cal Due: 12/06/01
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Comments

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
F	00020	273	10	662	14.0	
F	00021	274	10	696	14.7	
F	00022	275	10	582	12.3	
F	00023	276	10	573	12.1	
G	00003	277	10	1673	35.4	*
G	00005	278	10	1251	26.5	*
G	00006	279	10	1174	24.8	*
G	00007	280	10	1236	26.2	*
G	00008	281	10	1147	24.3	*
G	00009	282	10	1125	23.8	*
G	00010	283	10	1032	21.8	*
G	00011	284	10	927	19.6	*
G	00012	285	10	949	20.1	*
G	00013	286	10	951	20.1	*
G	00014	287	10	952	20.1	*
G	00015	288	10	849	18.0	*
G	00016	289	10	830	17.6	*
G	00017	290	10	761	16.1	*
G	00018	291	10	741	15.7	*
G	00019	292	10	824	17.4	*
G	00020	293	10	783	16.6	*
G	00021	294	10	718	15.2	*
G	00022	295	10	504	10.7	
H	00007	296	10	1558	33.0	*
H	00008	297	10	1424	30.1	*
H	00009	298	10	1160	24.6	*
H	00010	299	10	1006	21.3	*
H	00011	300	10	948	20.1	*
H	00012	301	10	947	20.0	*
H	00013	302	10	928	19.6	*
H	00014	303	10	871	18.4	*
H	00015	304	10	847	17.9	*
H	00016	305	10	850	18.0	*
H	00017	306	10	788	16.7	*
H	00018	307	10	753	15.9	*
H	00019	308	10	665	14.1	
H	00020	309	10	777	16.4	*
H	00021	310	10	622	13.2	
H	00022	311	10	422	8.9	
I	00008	312	10	1639	34.7	*
I	00009	313	10	1157	24.5	*
I	00010	314	10	1070	22.6	*
I	00011	315	10	1049	22.2	*
I	00012	316	10	975	20.6	*
I	00013	317	10	920	19.5	*
I	00014	318	10	912	19.3	*
I	00015	319	10	935	19.8	*
I	00016	320	10	868	18.4	*
I	00017	321	10	853	18.1	*
I	00018	322	10	692	14.6	
I	00019	323	10	714	15.1	*
I	00020	324	10	745	15.8	*
J	00007	325	10	1332	28.2	*
J	00008	326	10	1246	26.4	*
J	00009	327	10	1069	22.6	*
J	00010	328	10	985	20.8	*
J	00011	329	10	907	19.2	*
J	00012	330	10	948	20.1	*
J	00013	331	10	997	21.1	*
J	00014	332	10	926	19.6	*
J	00015	333	10	936	19.8	*
J	00016	334	10	853	18.1	*
J	00017	335	10	826	17.5	*
J	00018	336	10	848	17.9	*

\* Hi flag set at 15.0 micro-R/hr.



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Comments

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	A0216	05F01	TAT01	03100	FLDCT	B0002	Det Cal Due: 12/06/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
J	00019	337	10	789	16.7	*
K	00007	338	10	1314	27.8	*
K	00008	339	10	1151	24.4	*
K	00009	340	10	1004	21.2	*
K	00010	341	10	1000	21.2	*
K	00011	342	10	936	19.8	*
K	00012	343	10	901	19.1	*
K	00013	344	10	848	17.9	*
K	00014	345	10	896	19.0	*
K	00015	346	10	916	19.4	*
K	00016	347	10	891	18.9	*
K	00017	348	10	840	17.8	*
L	00011	349	10	949	20.1	*
L	00012	350	10	969	20.5	*
L	00013	351	10	899	19.0	*
L	00014	352	10	919	19.5	*

Group Average: 5438 cpm      Average uR/hr: 19.2

Number of measurements: 181

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	ZZZZZ	19453	TAT01	03100	PRB00	ZZZZZ	Det Cal Due: 12/06/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
ZZZZZ	00000	1	60	548305	1934.1	*
ZZZZZ	00000	2	60	14519	51.2	*
ZZZZZ	00000	3	60	5346	18.9	*

Group Average: 189390 cpm      Average uR/hr: 668.1

Number of measurements: 3

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	ZZZZZ	19453	TAT01	03100	PTB00	ZZZZZ	Det Cal Due: 12/06/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
ZZZZZ	00000	354	60	537702	1896.7	*
ZZZZZ	00000	355	60	14776	52.1	*
ZZZZZ	00000	357	60	5414	19.1	*

Group Average: 185964 cpm      Average uR/hr: 656.0

Number of measurements: 3

Survey Code	L1	L2	L3	L4	L5	L6	Setup Number 2
	ZZZZZ	ZZZZZ	TAT01	03100	PRBBK	ZZZZZ	Det Cal Due: 12/06/01

L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
ZZZZZ	00000	0	300	20797	14.7	*

\* Hi flag set at 15.0 micro-R/hr.

Survey Date: 7/08/01  
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Comments

Survey Code	L1 ZZZZZ	L2 ZZZZZ	L3 TAT01	L4 03100	L5 PRBBK	L6 ZZZZZ	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
Group Average:			4159 cpm	Average uR/hr: 14.7		
Number of measurements:			1			

Survey Code	L1 ZZZZZ	L2 ZZZZZ	L3 TAT01	L4 03100	L5 PTBBK	L6 ZZZZZ	Setup Number 2 Det Cal Due: 12/06/01
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L7 Code Grid ID	L8 Code Location Number	Sample Number	Count Time (sec)	Gross Counts	Gross Micro R/hr	H i
ZZZZZ	00000	353	300	19528	13.8	
Group Average:			3906 cpm	Average uR/hr: 13.8		
Number of measurements:			1			

Total Number of Measurements on this Report: 356

NOTE: This report is grouped by:  
 Package (L1) (Package number)  
 Setup number (Detector parameters)  
 Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)  
 Reason (L3-345) (Char survey, source check, final survey, etc.)  
 Surface Cat (L2) (Wall, floor, drain, penetration, etc.)  
 Count Type (L5) (Field count, bkg, pre-, post-, etc.)  
 Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

\* Hi flag set at 15.0 micro-R/hr.

## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

## GEORGIA INSTITUTE OF TECHNOLOGY

7/09/01

Comments Report for File 171

Station: 2

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Comment  
Number

Comment

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- |   |   |
|---|---|
| 1 | Deleted sample numbers from 7 to 7. Because MEASUREMENT<br>TAKEN IN ERROR, GRID DOES NOT EXIST.                           |
| 2 | Deleted sample numbers from 356 to 356. Because DETECTOR<br>WAS BUMPED BY ACCIDENT DURING SOURCE CHECK. INVALID<br>COUNT. |
- 

GTS:0143 :C:\PDOX35\M2350\COMMENTS:R1

GTS DURATEK RADIOLOGICAL ENGINEERING & FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

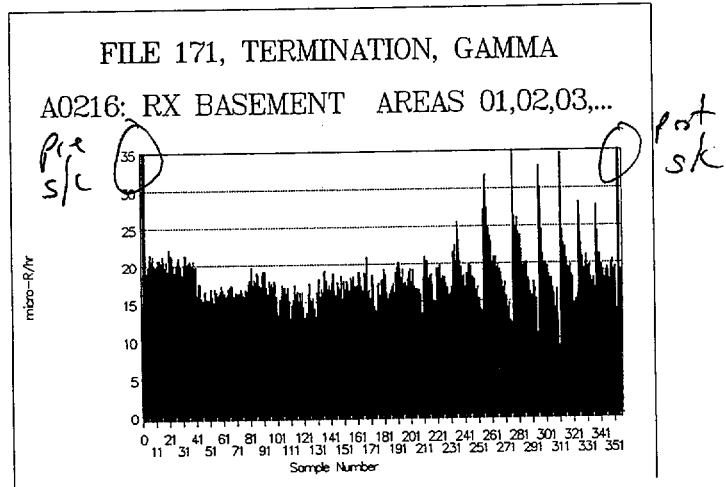
7/09/2001

Graph of File 171

Station: 2

Survey Date: 7/08/2001 Survey Start Time: 20:00:22

Description: A0216: RX BASEMENT AREAS 01,02,03,04,05



**Section 4**

**Package 16**  
**Direct Beta Summary Table (all areas)**

Package A0216 Fixed Beta Survey Report (Suspect Affected Areas Outside Process Room)

Desc.	File	Sample Number	Gross Counts	Count Time (sec)	Material Type	Detector Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	164	5	136	20	B9999	126	03F01	FLDCT	A	00001	0.205	476	-263	0	-263	521
	164	6	174	20	B9999	126	03F01	FLDCT	A	00002	0.205	476	178	0	178	521
	164	7	172	20	B9999	126	03F01	FLDCT	A	00003	0.205	476	155	0	155	521
	164	8	165	20	B9999	126	03F01	FLDCT	A	00004	0.205	476	74	0	74	521
	164	9	185	20	B9999	126	03F01	FLDCT	A	00005	0.205	476	306	0	306	521
	164	10	154	20	B9999	126	03F01	FLDCT	A	00006	0.205	476	-54	0	-54	521
	164	11	158	20	B9999	126	03F01	FLDCT	B	00001	0.205	476	-8	0	-8	521
	164	12	179	20	B9999	126	03F01	FLDCT	B	00002	0.205	476	236	0	236	521
	164	13	191	20	B9999	126	03F01	FLDCT	B	00003	0.205	476	376	0	376	521
	164	14	184	20	B9999	126	03F01	FLDCT	B	00004	0.205	476	294	0	294	521
	164	15	162	20	B9999	126	03F01	FLDCT	B	00005	0.205	476	39	0	39	521
	164	16	157	20	B9999	126	03F01	FLDCT	B	00006	0.205	476	-19	0	-19	521
	164	17	165	20	B9999	126	03F01	FLDCT	C	00001	0.205	476	74	0	74	521
	164	18	165	20	B9999	126	03F01	FLDCT	C	00002	0.205	476	74	0	74	521
	164	19	174	20	B9999	126	03F01	FLDCT	C	00003	0.205	476	178	0	178	521
	164	20	140	20	B9999	126	03F01	FLDCT	C	00004	0.205	476	-217	0	-217	521
	164	21	183	20	B9999	126	03F01	FLDCT	C	00005	0.205	476	283	0	283	521
	164	22	164	20	B9999	126	03F01	FLDCT	C	00006	0.205	476	62	0	62	521
	164	23	175	20	B9999	126	03F01	FLDCT	D	00001	0.205	476	190	0	190	521
	164	24	174	20	B9999	126	03F01	FLDCT	D	00002	0.205	476	178	0	178	521
	164	25	183	20	B9999	126	03F01	FLDCT	D	00003	0.205	476	283	0	283	521
	164	26	146	20	B9999	126	03F01	FLDCT	D	00004	0.205	476	-147	0	-147	521
	164	27	175	20	B9999	126	03F01	FLDCT	D	00005	0.205	476	190	0	190	521
	164	30	213	20	B0001	126	03W01	FLDCT	A	00001	0.205	460	693	346	347	557
	164	31	258	20	B0001	126	03W01	FLDCT	A	00002	0.205	460	1216	346	870	557
	164	32	210	20	B0001	126	03W01	FLDCT	A	00003	0.205	460	658	346	312	557
	164	33	213	20	B0001	126	03W01	FLDCT	B	00001	0.205	460	693	346	347	557
	164	34	236	20	B0001	126	03W01	FLDCT	B	00002	0.205	460	960	346	614	557
	164	35	203	20	B0001	126	03W01	FLDCT	B	00003	0.205	460	577	346	231	557
	164	38	151	20	B9999	126	03W02	FLDCT	A	00001	0.205	427	101	0	101	495
	164	39	152	20	B9999	126	03W02	FLDCT	A	00002	0.205	427	112	0	112	495
	164	40	149	20	B9999	126	03W02	FLDCT	A	00003	0.205	427	77	0	77	495
	164	41	202	20	B0001	126	03W02	FLDCT	A	00004	0.205	427	693	346	347	541
	164	42	187	20	B0001	126	03W02	FLDCT	A	00005	0.205	427	519	346	173	541
	164	43	169	20	B9999	126	03W02	FLDCT	B	00001	0.205	427	310	0	310	495
	164	44	164	20	B9999	126	03W02	FLDCT	B	00002	0.205	427	252	0	252	495
	164	45	142	20	B9999	126	03W02	FLDCT	B	00003	0.205	427	-4	0	-4	495
	164	46	228	20	B0001	126	03W02	FLDCT	B	00004	0.205	427	995	346	649	541
	164	47	167	20	B0001	126	03W02	FLDCT	B	00005	0.205	427	286	346	-60	541
	164	48	165	20	B9999	126	03W03	FLDCT	A	00001	0.205	427	263	0	263	495
	164	49	141	20	B9999	126	03W03	FLDCT	A	00002	0.205	427	-15	0	-15	495
	164	50	135	20	B9999	126	03W03	FLDCT	A	00003	0.205	427	-85	0	-85	495
	164	51	135	20	B9999	126	03W03	FLDCT	A	00004	0.205	427	-85	0	-85	495
	164	52	190	20	B0001	126	03W03	FLDCT	A	00005	0.205	427	554	346	208	541
	164	53	160	20	B9999	126	03W03	FLDCT	A	00006	0.205	427	205	0	205	495
	164	54	139	20	B9999	126	03W03	FLDCT	A	00007	0.205	427	-39	0	-39	495
	164	55	154	20	B9999	126	03W03	FLDCT	A	00008	0.205	427	-248	0	-248	495
	164	56	171	20	B9999	126	03W03	FLDCT	B	00001	0.205	427	136	0	136	495
	164	57	159	20	B9999	126	03W03	FLDCT	B	00002	0.205	427	333	0	333	495
	164	58	142	20	B9999	126	03W03	FLDCT	B	00003	0.205	427	194	0	194	495
	164	59	210	20	B0001	126	03W03	FLDCT	B	00004	0.205	427	-4	0	-4	495
	164	60	143	20	B9999	126	03W03	FLDCT	B	00005	0.205	427	786	346	440	541
	164	61	183	20	B9999	126	03W03	FLDCT	B	00006	0.205	427	8	0	8	495
	164	62	161	20	B9999	126	03W03	FLDCT	B	00007	0.205	427	472	0	472	495
	164	62	161	20	B9999	126	03W03	FLDCT	B	00008	0.205	427	217	0	217	495

Package A0216 Fixed Beta Survey Report (Suspect Affected Areas Outside Process Room)

164	64	145	20	B9999	126	03W04	FLDCT	A	00001	0.205	427	31	0	31	495
164	65	146	20	B9999	126	03W04	FLDCT	A	00002	0.205	427	43	0	43	495
164	66	142	20	B9999	126	03W04	FLDCT	A	00003	0.205	427	-4	0	-4	495
167	5	159	20	B9999	126	03W04	FLDCT	A	00004	0.211	413	241	0	241	473
164	67	136	20	B9999	126	03W04	FLDCT	B	00001	0.205	427	-74	0	-74	495
164	68	159	20	B9999	126	03W04	FLDCT	B	00002	0.205	427	194	0	194	495
164	69	153	20	B9999	126	03W04	FLDCT	B	00003	0.205	427	124	0	124	495
164	70	157	20	B9999	126	03W04	FLDCT	B	00004	0.205	427	170	0	170	495
165	15	217	20	B9999	126	02F01	FLDCT	A	00003	0.217	535	424	0	424	520
165	16	171	20	B9999	126	02F01	FLDCT	B	00001	0.217	535	-80	0	-80	520
165	17	174	20	B9999	126	02F01	FLDCT	B	00002	0.217	535	-48	0	-48	520
165	18	193	20	B9999	126	02F01	FLDCT	B	00003	0.217	535	161	0	161	520
165	19	190	20	B9999	126	02F01	FLDCT	B	00004	0.217	535	128	0	128	520
165	20	178	20	B9999	126	02F01	FLDCT	C	00001	0.217	535	-4	0	-4	520
165	21	205	20	B9999	126	02F01	FLDCT	C	00002	0.217	535	293	0	293	520
165	22	192	20	B9999	126	02F01	FLDCT	C	00003	0.217	535	150	0	150	520
165	23	173	20	B9999	126	02F01	FLDCT	C	00004	0.217	535	-59	0	-59	520
165	24	214	20	B9999	126	02F01	FLDCT	D	00001	0.217	535	391	0	391	520
165	25	185	20	B9999	126	02F01	FLDCT	D	00002	0.217	535	73	0	73	520
165	26	174	20	B9999	126	02F01	FLDCT	D	00003	0.217	535	-48	0	-48	520
165	27	196	20	B9999	126	02F01	FLDCT	D	00004	0.217	535	194	0	194	520
165	28	180	20	B9999	126	02F01	FLDCT	E	00001	0.217	535	18	0	18	520
165	29	203	20	B9999	126	02F01	FLDCT	E	00002	0.217	535	271	0	271	520
165	30	226	20	B9999	126	02F01	FLDCT	E	00003	0.217	535	523	0	523	520
165	33	269	20	B0001	126	02W01	FLDCT	A	00001	0.217	493	1148	346	802	543
165	34	219	20	B0001	126	02W01	FLDCT	A	00002	0.217	493	600	346	254	543
165	35	203	20	B0001	126	02W01	FLDCT	A	00003	0.217	493	424	346	78	543
165	36	258	20	B0001	126	02W01	FLDCT	B	00001	0.217	493	1028	346	682	543
165	37	284	20	B0001	126	02W01	FLDCT	B	00002	0.217	493	1313	346	967	543
165	38	276	20	B0001	126	02W01	FLDCT	B	00003	0.217	493	1225	346	879	543
165	41	153	20	B9999	126	02W02	FLDCT	A	00001	0.217	445	51	0	51	477
165	42	156	20	B9999	126	02W02	FLDCT	A	00002	0.217	445	84	0	84	477
165	43	147	20	B9999	126	02W02	FLDCT	A	00003	0.217	445	-15	0	-15	477
165	44	153	20	B9999	126	02W02	FLDCT	A	00004	0.217	445	51	0	51	477
165	45	149	20	B9999	126	02W02	FLDCT	B	00001	0.217	445	7	0	7	477
165	46	158	20	B9999	126	02W02	FLDCT	B	00002	0.217	445	106	0	106	477
165	47	140	20	B9999	126	02W02	FLDCT	B	00003	0.217	445	-91	0	-91	477
165	48	141	20	B9999	126	02W02	FLDCT	B	00004	0.217	445	-80	0	-80	477
165	49	164	20	B9999	126	02W03	FLDCT	A	00001	0.217	453	143	0	143	481
165	50	175	20	B9999	126	02W03	FLDCT	A	00002	0.217	453	263	0	263	481
165	51	212	20	B0001	126	02W03	FLDCT	A	00003	0.217	453	669	346	323	526
165	52	170	20	B9999	126	02W03	FLDCT	A	00004	0.217	453	208	0	208	481
165	53	151	20	B9999	126	02W03	FLDCT	A	00005	0.217	453	0	0	0	481
165	54	146	20	B9999	126	02W03	FLDCT	B	00001	0.217	453	-55	0	-55	481
165	55	167	20	B9999	126	02W03	FLDCT	B	00002	0.217	453	176	0	176	481
165	56	189	20	B0001	126	02W03	FLDCT	B	00003	0.217	453	417	346	71	526
165	57	148	20	B9999	126	02W03	FLDCT	B	00004	0.217	453	-33	0	-33	481
165	58	146	20	B9999	126	02W03	FLDCT	B	00005	0.217	453	-55	0	-55	481
165	61	242	20	B0004	126	02W04	FLDCT	A	00001	0.217	447	1020	346	674	523
165	62	262	20	B0004	126	02W04	FLDCT	A	00002	0.217	447	1240	346	894	523
165	63	230	20	B0004	126	02W04	FLDCT	A	00003	0.217	447	889	346	543	523
165	64	230	20	B0004	126	02W04	FLDCT	A	00004	0.217	447	889	346	543	523
165	65	218	20	B0004	126	02W04	FLDCT	B	00001	0.217	447	757	346	411	523
165	66	218	20	B0004	126	02W04	FLDCT	B	00002	0.217	447	757	346	411	523
165	67	209	20	B0004	126	02W04	FLDCT	B	00003	0.217	447	658	346	312	523
165	68	269	20	B0004	126	02W04	FLDCT	B	00004	0.217	447	1317	346	971	523
166	5	227	20	B0002	126	01F01	FLDCT	A	00003	0.208	617	244	354	-110	620

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166	6	255	20	B0002	126	01F01	FLDCT	A	00004	0.208	617	565	354	211	620
166	7	238	20	B0002	126	01F01	FLDCT	A	00005	0.208	617	370	354	16	620
166	8	263	20	B0002	126	01F01	FLDCT	B	00001	0.208	617	885	354	531	620
166	9	263	20	B0002	126	01F01	FLDCT	B	00002	0.208	617	656	354	302	620
166	10	258	20	B0002	126	01F01	FLDCT	B	00003	0.208	617	599	354	245	620
166	11	279	20	B0002	126	01F01	FLDCT	B	00004	0.208	617	839	354	485	620
166	12	228	20	B0002	126	01F01	FLDCT	B	00005	0.208	617	256	354	-98	620
166	13	286	20	B0002	126	01F01	FLDCT	C	00006	0.208	617	920	354	566	620
166	14	259	20	B0002	126	01F01	FLDCT	C	00001	0.208	617	611	354	257	620
166	15	241	20	B0002	126	01F01	FLDCT	C	00002	0.208	617	404	354	50	620
166	16	238	20	B0002	126	01F01	FLDCT	C	00003	0.208	617	370	354	16	620
166	17	254	20	B0002	126	01F01	FLDCT	C	00004	0.208	617	553	354	199	620
166	18	249	20	B0002	126	01F01	FLDCT	C	00005	0.208	617	496	354	142	620
166	19	295	20	B0002	126	01F01	FLDCT	C	00006	0.208	617	1023	354	669	620
166	20	294	20	B0002	126	01F01	FLDCT	C	00007	0.208	617	1011	354	657	620
166	21	314	20	B0002	126	01F01	FLDCT	C	00008	0.208	617	1240	354	886	620
166	22	283	20	B0002	126	01F01	FLDCT	D	00001	0.208	617	895	354	531	620
166	23	248	20	B0002	126	01F01	FLDCT	D	00004	0.208	617	485	354	131	620
166	24	244	20	B0002	126	01F01	FLDCT	D	00005	0.208	617	439	354	85	620
166	25	249	20	B0002	126	01F01	FLDCT	D	00006	0.208	617	496	354	142	620
166	26	315	20	B0002	126	01F01	FLDCT	D	00007	0.208	617	1252	354	898	620
166	27	345	20	B0002	126	01F01	FLDCT	D	00008	0.208	617	1595	354	1241	620
166	28	307	20	B0002	126	01F01	FLDCT	E	00004	0.208	617	1160	354	806	620
166	29	257	20	B0002	126	01F01	FLDCT	E	00005	0.208	617	588	354	234	620
166	30	274	20	B0002	126	01F01	FLDCT	E	00006	0.208	617	782	354	428	620
166	31	267	20	B0002	126	01F01	FLDCT	E	00007	0.208	617	702	354	348	620
166	32	259	20	B0002	126	01F01	FLDCT	F	00008	0.208	617	611	354	257	620
166	33	239	20	B0002	126	01F01	FLDCT	F	00003	0.208	617	611	354	257	620
166	34	281	20	B0002	126	01F01	FLDCT	F	00004	0.208	617	862	354	508	620
166	35	218	20	B0002	126	01F01	FLDCT	F	00005	0.208	617	141	354	-213	620
166	36	289	20	B0002	126	01F01	FLDCT	F	00006	0.208	617	954	354	600	620
166	37	269	20	B0002	126	01F01	FLDCT	F	00007	0.208	617	725	354	371	620
166	38	320	20	B0002	126	01F01	FLDCT	F	00008	0.208	617	1309	354	955	620
166	39	284	20	B0002	126	01F01	FLDCT	G	00003	0.208	617	897	354	543	620
166	40	247	20	B0002	126	01F01	FLDCT	G	00004	0.208	617	473	354	119	620
166	41	316	20	B0002	126	01F01	FLDCT	G	00007	0.208	617	1263	354	909	620
166	42	281	20	B0002	126	01W01	FLDCT	A	00001	0.208	617	862	354	508	620
166	43	259	20	B0002	126	01W01	FLDCT	A	00002	0.208	617	611	354	257	620
166	44	261	20	B0002	126	01W01	FLDCT	A	00003	0.208	617	633	354	279	620
166	45	252	20	B0002	126	01W01	FLDCT	A	00004	0.208	617	530	354	176	620
166	46	279	20	B0002	126	01W01	FLDCT	A	00005	0.208	617	839	354	485	620
166	47	260	20	B0002	126	01W01	FLDCT	A	00006	0.208	617	622	354	268	620
166	48	261	20	B0002	126	01W01	FLDCT	A	00007	0.208	617	633	354	279	620
166	49	277	20	B0002	126	01W01	FLDCT	A	00008	0.208	617	817	354	463	620
166	50	236	20	B0002	126	01W01	FLDCT	A	00009	0.208	617	347	354	-7	620
166	51	236	20	B0002	126	01W01	FLDCT	A	00010	0.208	617	347	354	-7	620
166	52	245	20	B0002	126	01W01	FLDCT	A	00011	0.208	617	450	354	96	620
166	53	294	20	B0002	126	01W01	FLDCT	A	00012	0.208	617	1011	354	657	620
166	54	257	20	B0002	126	01W01	FLDCT	A	00013	0.208	617	588	354	234	620
166	55	263	20	B0002	126	01W01	FLDCT	A	00014	0.208	617	656	354	302	620
166	56	295	20	B0002	126	01W01	FLDCT	A	00015	0.208	617	1023	354	669	620
166	57	236	20	B0002	126	01W01	FLDCT	A	00016	0.208	617	347	354	-7	620
166	58	275	20	B0002	126	01W01	FLDCT	A	00017	0.208	617	794	354	440	620
166	59	282	20	B0002	126	01W01	FLDCT	A	00018	0.208	617	674	354	520	620
166	60	304	20	B0002	126	01W01	FLDCT	A	00019	0.208	617	1126	354	772	620
166	61	259	20	B0002	126	01W01	FLDCT	B	00001	0.208	617	611	354	257	620
166	62	249	20	B0002	126	01W01	FLDCT	B	00002	0.208	617	496	354	142	620
166	63	249	20	B0002	126	01W01	FLDCT	B	00003	0.208	617	496	354	142	620
166	64	252	20	B0002	126	01W01	FLDCT	B	00004	0.208	617	530	354	176	620
166	65	305	20	B0002	126	01W01	FLDCT	B	00005	0.208	617	1137	354	783	620
166	66	262	20	B0002	126	01W01	FLDCT	B	00006	0.208	617	645	354	291	620
166	67	246	20	B0002	126	01W01	FLDCT	B	00007	0.208	617	462	354	108	620
166	68	272	20	B0002	126	01W01	FLDCT	B	00008	0.208	617	759	354	405	620



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166	69	273	20	B0002	126	01W01	FLDCT	B	00009	0.208	617	771	354	417	620
166	70	267	20	B0002	126	01W01	FLDCT	B	00010	0.208	617	702	354	348	620
166	71	263	20	B0002	126	01W01	FLDCT	B	00011	0.208	617	656	354	302	620
166	72	271	20	B0002	126	01W01	FLDCT	B	00012	0.208	617	748	354	394	620
166	73	247	20	B0002	126	01W01	FLDCT	B	00013	0.208	617	473	354	119	620
166	74	279	20	B0002	126	01W01	FLDCT	B	00014	0.208	617	839	354	485	620
166	75	258	20	B0002	126	01W01	FLDCT	B	00015	0.208	617	599	354	245	620
166	76	279	20	B0002	126	01W01	FLDCT	B	00016	0.208	617	839	354	485	620
166	77	300	20	B0002	126	01W01	FLDCT	B	00017	0.208	617	1080	354	726	620
166	78	274	20	B0002	126	01W01	FLDCT	B	00018	0.208	617	782	354	428	620
166	79	252	20	B0002	126	01W01	FLDCT	B	00019	0.208	617	530	354	176	620
166	80	256	20	B0002	126	01W02	FLDCT	A	00001	0.208	617	576	354	222	620
166	81	273	20	B0002	126	01W02	FLDCT	A	00002	0.208	617	771	354	417	620
166	82	285	20	B0002	126	01W02	FLDCT	A	00003	0.208	617	908	354	554	620
166	83	329	20	B0002	126	01W02	FLDCT	A	00004	0.208	617	1412	354	1058	620
166	84	327	20	B0002	126	01W02	FLDCT	A	00005	0.208	617	1389	354	1035	620
166	85	305	20	B0002	126	01W02	FLDCT	A	00006	0.208	617	1137	354	783	620
166	86	278	20	B0002	126	01W02	FLDCT	E	00001	0.208	617	828	354	474	620
166	87	298	20	B0002	126	01W02	FLDCT	B	00002	0.208	617	1057	354	703	620
166	88	266	20	B0002	126	01W02	FLDCT	B	00003	0.208	617	691	354	337	620
166	89	333	20	B0002	126	01W02	FLDCT	B	00004	0.208	617	1458	354	1104	620
166	90	261	20	B0002	126	01W02	FLDCT	B	00005	0.208	617	633	354	279	620
166	91	280	20	B0002	126	01W02	FLDCT	B	00006	0.208	617	851	354	497	620
166	92	282	20	B0002	126	01W03	FLDCT	A	00001	0.208	617	874	354	520	620
166	93	259	20	B0002	126	01W03	FLDCT	A	00002	0.208	617	611	354	257	620
166	94	276	20	B0002	126	01W03	FLDCT	A	00003	0.208	617	805	354	451	620
166	95	275	20	B0002	126	01W03	FLDCT	A	00004	0.208	617	794	354	440	620
166	96	263	20	B0002	126	01W03	FLDCT	A	00005	0.208	617	656	354	302	620
166	97	271	20	B0002	126	01W03	FLDCT	A	00006	0.208	617	748	354	394	620
166	98	295	20	B0002	126	01W03	FLDCT	A	00007	0.208	617	1023	354	669	620
166	99	283	20	B0002	126	01W03	FLDCT	B	00002	0.208	617	885	354	531	620
166	100	270	20	B0002	126	01W03	FLDCT	B	00003	0.208	617	736	354	382	620
166	101	275	20	B0002	126	01W03	FLDCT	B	00004	0.208	617	794	354	440	620
166	102	295	20	B0002	126	01W03	FLDCT	B	00005	0.208	617	1023	354	669	620
166	103	305	20	B0002	126	01W03	FLDCT	B	00006	0.208	617	1137	354	783	620
166	104	295	20	B0002	126	01W03	FLDCT	B	00007	0.208	617	1023	354	669	620
166	105	261	20	B0002	126	01W04	FLDCT	A	00001	0.208	617	633	354	279	620
166	106	276	20	B0002	126	01W04	FLDCT	A	00002	0.208	617	805	354	451	620
166	107	253	20	B0002	126	01W04	FLDCT	A	00003	0.208	617	542	354	188	620
166	108	272	20	B0002	126	01W04	FLDCT	B	00001	0.208	617	759	354	405	620
166	109	271	20	B0002	126	01W04	FLDCT	B	00002	0.208	617	748	354	394	620
166	110	259	20	B0002	126	01W04	FLDCT	B	00003	0.208	617	611	354	257	620
166	111	325	20	B0002	126	01C01	FLDCT	A	00003	0.208	617	1366	354	1012	620
166	112	275	20	B0002	126	01C01	FLDCT	A	00004	0.208	617	794	354	440	620
166	113	270	20	B0002	126	01C01	FLDCT	A	00005	0.208	617	736	354	382	620
166	114	285	20	B0002	126	01C01	FLDCT	B	00001	0.208	617	908	354	554	620
166	115	305	20	B0002	126	01C01	FLDCT	B	00002	0.208	617	1137	354	783	620
166	116	284	20	B0002	126	01C01	FLDCT	B	00003	0.208	617	897	354	543	620
166	117	280	20	B0002	126	01C01	FLDCT	B	00004	0.208	617	851	354	497	620
166	118	348	20	B0002	126	01C01	FLDCT	B	00005	0.208	617	1629	354	1275	620
166	119	286	20	B0002	126	01C01	FLDCT	B	00006	0.208	617	920	354	566	620
166	120	284	20	B0002	126	01C01	FLDCT	C	00001	0.208	617	897	354	543	620
166	121	274	20	B0002	126	01C01	FLDCT	C	00002	0.208	617	782	354	428	620
166	122	334	20	B0002	126	01C01	FLDCT	C	00003	0.208	617	1469	354	1115	620
166	123	306	20	B0002	126	01C01	FLDCT	C	00004	0.208	617	1149	354	795	620
166	124	297	20	B0002	126	01C01	FLDCT	C	00005	0.208	617	1045	354	691	620
166	125	249	20	B0002	126	01C01	FLDCT	C	00006	0.208	617	496	354	142	620
166	126	325	20	B0002	126	01C01	FLDCT	C	00007	0.208	617	1366	354	1012	620
166	127	345	20	B0002	126	01C01	FLDCT	C	00008	0.208	617	1595	354	1241	620
166	128	344	20	B0002	126	01C01	FLDCT	D	00001	0.208	617	1583	354	1229	620

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166	129	299	20	B0002	126	01C01	FLDCT	D	00004	0.208	617	1068	354	714	620
166	130	253	20	B0002	126	01C01	FLDCT	D	00005	0.208	617	542	354	188	620
166	131	257	20	B0002	126	01C01	FLDCT	D	00006	0.208	617	588	354	234	620
166	132	285	20	B0002	126	01C01	FLDCT	D	00007	0.208	617	908	354	554	620
166	133	264	20	B0002	126	01C01	FLDCT	D	00008	0.208	617	668	354	314	620
166	134	287	20	B0002	126	01C01	FLDCT	E	00004	0.208	617	931	354	577	620
166	135	301	20	B0002	126	01C01	FLDCT	E	00005	0.208	617	1091	354	737	620
166	136	268	20	B0002	126	01C01	FLDCT	E	00006	0.208	617	714	354	360	620
166	137	253	20	B0002	126	01C01	FLDCT	E	00007	0.208	617	542	354	188	620
166	138	287	20	B0002	126	01C01	FLDCT	E	00008	0.208	617	931	354	577	620
166	139	289	20	B0002	126	01C01	FLDCT	F	00003	0.208	617	954	354	600	620
166	140	277	20	B0002	126	01C01	FLDCT	F	00004	0.208	617	817	354	463	620
166	141	300	20	B0002	126	01C01	FLDCT	F	00005	0.208	617	1080	354	726	620
166	142	297	20	B0002	126	01C01	FLDCT	F	00006	0.208	617	1045	354	691	620
166	143	278	20	B0002	126	01C01	FLDCT	F	00007	0.208	617	828	354	474	620
166	144	315	20	B0002	126	01C01	FLDCT	F	00008	0.208	617	1252	354	898	620
166	145	314	20	B0002	126	01C01	FLDCT	G	00004	0.208	617	1240	354	886	620
166	146	313	20	B0002	126	01C01	FLDCT	G	00007	0.208	617	1229	354	875	620
166	147	288	20	B0002	126	01C01	FLDCT	G	00003	0.208	617	942	354	588	620
167	8	237	20	B0003	126	04F01	FLDCT	A	00002	0.211	498	801	399	402	566
167	9	289	20	B0003	126	04F01	FLDCT	A	00003	0.211	498	1388	399	989	566
167	10	236	20	B0003	126	04F01	FLDCT	B	00002	0.211	498	790	399	391	566
167	11	237	20	B0003	126	04F01	FLDCT	B	00003	0.211	498	801	399	402	566
167	12	234	20	B0003	126	04F01	FLDCT	B	00004	0.211	498	767	399	368	566
167	13	231	20	B0003	126	04F01	FLDCT	B	00005	0.211	498	733	399	334	566
167	14	232	20	B0003	126	04F01	FLDCT	B	00006	0.211	498	745	399	346	566
167	15	245	20	B0003	126	04F01	FLDCT	C	00001	0.211	498	891	399	492	566
167	16	223	20	B0003	126	04F01	FLDCT	C	00002	0.211	498	643	399	244	566
167	17	252	20	B0003	126	04F01	FLDCT	C	00003	0.211	498	970	399	571	566
167	18	229	20	B0003	126	04F01	FLDCT	C	00004	0.211	498	711	399	312	566
167	19	226	20	B0003	126	04F01	FLDCT	C	00005	0.211	498	677	399	278	566
167	20	268	20	B0003	126	04F01	FLDCT	C	00006	0.211	498	1151	399	752	566
167	21	252	20	B0003	126	04F01	FLDCT	C	00007	0.211	498	970	399	571	566
167	22	234	20	B0003	126	04F01	FLDCT	C	00008	0.211	498	767	399	368	566
167	23	233	20	B0003	126	04F01	FLDCT	D	00001	0.211	498	756	399	357	566
167	24	233	20	B0003	126	04F01	FLDCT	D	00002	0.211	498	756	399	357	566
167	25	224	20	B0003	126	04F01	FLDCT	D	00003	0.211	498	654	399	357	566
167	26	255	20	B0003	126	04F01	FLDCT	D	00004	0.211	498	1004	399	605	566
167	27	224	20	B0003	126	04F01	FLDCT	D	00005	0.211	498	654	399	255	566
167	28	194	20	B0003	126	04F01	FLDCT	D	00006	0.211	498	316	399	-83	566
167	29	240	20	B0003	126	04F01	FLDCT	D	00007	0.211	498	835	399	436	566
167	30	205	20	B0003	126	04F01	FLDCT	D	00008	0.211	498	440	399	41	566
167	31	227	20	B0003	126	04F01	FLDCT	D	00009	0.211	498	688	399	289	566
167	32	234	20	B0003	126	04F01	FLDCT	E	00001	0.211	498	767	399	368	566
167	33	261	20	B0003	126	04F01	FLDCT	E	00002	0.211	498	1072	399	673	566
167	34	246	20	B0003	126	04F01	FLDCT	E	00003	0.211	498	903	399	504	566
167	35	231	20	B0003	126	04F01	FLDCT	E	00004	0.211	498	733	399	334	566
167	36	200	20	B0003	126	04F01	FLDCT	E	00005	0.211	498	384	399	-15	566
167	37	238	20	B0003	126	04F01	FLDCT	E	00006	0.211	498	812	399	413	566
167	38	189	20	B0003	126	04F01	FLDCT	E	00007	0.211	498	260	399	-139	566
167	39	270	20	B0003	126	04F01	FLDCT	E	00008	0.211	498	1174	399	775	566
167	40	225	20	B0003	126	04F01	FLDCT	E	00009	0.211	498	666	399	267	566
167	41	255	20	B0003	126	04F01	FLDCT	E	00010	0.211	498	1004	399	605	566
167	42	232	20	B0003	126	04F01	FLDCT	F	00001	0.211	498	745	399	346	566
167	43	226	20	B0003	126	04F01	FLDCT	F	00002	0.211	498	677	399	278	566
167	44	211	20	B0003	126	04F01	FLDCT	F	00003	0.211	498	508	399	109	566
167	45	225	20	B0003	126	04F01	FLDCT	F	00004	0.211	498	666	399	267	566
167	46	229	20	B0003	126	04F01	FLDCT	F	00005	0.211	498	711	399	312	566
167	47	258	20	B0003	126	04F01	FLDCT	F	00006	0.211	498	1038	399	639	566
167	48	216	20	B0003	126	04F01	FLDCT	F	00007	0.211	498	564	399	165	566
167	49	253	20	B0003	126	04F01	FLDCT	F	00008	0.211	498	982	399	583	566
167	50	188	20	B0003	126	04F01	FLDCT	F	00009	0.211	498	248	399	-151	566
167	51	289	20	B0003	126	04F01	FLDCT	F	00010	0.211	498	1388	399	989	566

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167	53	239	20	B0002	126	04F01	FLDCT	F	00011	0.211	513	767	354	413	567	
167	54	202	20	B0003	126	04F01	FLDCT	G	00005	0.211	498	406	399	7	566	
167	55	257	20	B0003	126	04F01	FLDCT	G	00006	0.211	498	1027	399	628	566	
167	56	237	20	B0003	126	04F01	FLDCT	G	00007	0.211	498	801	399	402	566	
167	57	245	20	B0003	126	04F01	FLDCT	G	00008	0.211	498	891	399	492	566	
167	58	231	20	B0003	126	04F01	FLDCT	G	00009	0.211	498	733	399	334	566	
167	59	246	20	B0002	126	04F01	FLDCT	G	00010	0.211	513	846	354	492	567	
167	60	241	20	B0002	126	04F01	FLDCT	G	00011	0.211	513	790	354	436	567	
167	61	201	20	B0003	126	04F01	FLDCT	H	00007	0.211	498	395	399	425	566	
167	62	239	20	B0003	126	04F01	FLDCT	H	00008	0.211	498	824	399	447	566	
167	63	241	20	B0003	126	04F01	FLDCT	H	00009	0.211	498	846	399	476	567	
167	64	280	20	B0002	126	04F01	FLDCT	H	00010	0.211	513	1230	354	346	567	
167	65	233	20	B0002	126	04F01	FLDCT	H	00011	0.211	513	700	354	402	567	
167	66	238	20	B0002	126	04F01	FLDCT	H	00012	0.211	513	756	354	402	566	
167	67	206	20	B0003	126	04F01	FLDCT	I	00007	0.211	498	451	399	52	566	
167	68	214	20	B0003	126	04F01	FLDCT	I	00008	0.211	498	542	399	143	566	
167	69	211	20	B0003	126	04F01	FLDCT	I	00009	0.211	498	508	399	109	566	
167	70	236	20	B0002	126	04F01	FLDCT	I	00010	0.211	513	733	354	379	567	
167	71	290	20	B0003	126	04F01	FLDCT	I	00011	0.211	498	1399	399	1000	566	
167	72	258	20	B0003	126	04F01	FLDCT	I	00012	0.211	498	1038	399	639	566	
167	73	246	20	B0003	126	04F01	FLDCT	J	00008	0.211	498	903	399	504	566	
167	74	269	20	B0003	126	04F01	FLDCT	J	00009	0.211	498	1162	399	763	566	
167	75	253	20	B0003	126	04F01	FLDCT	J	00010	0.211	498	982	399	583	566	
167	76	238	20	B0003	126	04F01	FLDCT	J	00011	0.211	498	700	399	301	566	
167	77	232	20	B0002	126	04F01	FLDCT	J	00012	0.211	513	688	354	334	567	
167	78	269	20	B0003	126	04F01	FLDCT	K	00009	0.211	498	1162	399	763	566	
167	79	233	20	B0003	126	04F01	FLDCT	K	00010	0.211	498	756	399	357	566	
167	80	265	20	B0003	126	04F01	FLDCT	K	00011	0.211	498	1117	399	718	566	
167	81	283	20	B0002	126	04F01	FLDCT	K	00012	0.211	513	1264	354	910	567	
167	82	235	20	B0003	126	04F01	FLDCT	L	00009	0.211	498	779	399	380	566	
167	83	237	20	B0003	126	04F01	FLDCT	L	00010	0.211	498	801	399	402	566	
167	84	232	20	B0003	126	04F01	FLDCT	L	00011	0.211	498	745	399	346	566	
167	85	254	20	B0002	126	04F01	FLDCT	L	00012	0.211	513	937	354	583	567	
167	86	250	20	B0002	126	04F01	FLDCT	L	00013	0.211	513	891	354	537	567	
167	87	215	20	B0003	126	04F01	FLDCT	M	00009	0.211	498	553	399	154	566	
167	88	222	20	B0003	126	04F01	FLDCT	M	00010	0.211	498	632	399	233	566	
167	89	248	20	B0003	126	04F01	FLDCT	M	00011	0.211	498	925	399	526	566	
167	90	239	20	B0003	126	04F01	FLDCT	M	00012	0.211	498	824	399	425	566	
167	91	222	20	B0003	126	04F01	FLDCT	M	00013	0.211	498	632	399	233	566	
167	92	211	20	B0003	126	04F01	FLDCT	N	00009	0.211	498	508	399	109	566	
167	93	219	20	B0003	126	04F01	FLDCT	N	00010	0.211	498	598	399	199	566	
167	94	250	20	B0003	126	04F01	FLDCT	N	00011	0.211	498	948	399	549	566	
167	95	253	20	B0003	126	04F01	FLDCT	N	00012	0.211	498	982	399	583	566	
167	96	275	20	B0003	126	04F01	FLDCT	N	00013	0.211	498	1230	399	831	566	
167	97	219	20	B0003	126	04F01	FLDCT	O	00009	0.211	498	598	399	199	566	
167	98	222	20	B0003	126	04F01	FLDCT	O	00010	0.211	498	632	399	233	566	
167	99	227	20	B0003	126	04F01	FLDCT	O	00011	0.211	498	688	399	289	566	
167	103	199	20	B0001	126	04W01	FLDCT	A	00001	0.211	426	643	346	297	526	
167	104	209	20	B0001	126	04W01	FLDCT	A	00002	0.211	426	756	346	410	526	
167	105	203	20	B0001	126	04W01	FLDCT	A	00003	0.211	426	688	346	342	526	
167	106	223	20	B0001	126	04W01	FLDCT	A	00004	0.211	426	914	346	568	526	
167	107	229	20	B0001	126	04W01	FLDCT	A	00005	0.211	426	982	346	636	526	
167	108	207	20	B0001	126	04W01	FLDCT	A	00006	0.211	426	733	346	387	526	
167	109	198	20	B0001	126	04W01	FLDCT	A	00007	0.211	426	632	346	286	526	
167	110	174	20	B0001	126	04W01	FLDCT	A	00008	0.211	426	361	346	15	526	
167	111	242	20	B0001	126	04W01	FLDCT	A	00009	0.211	426	1128	346	782	526	
167	112	195	20	B0001	126	04W01	FLDCT	A	00010	0.211	426	598	346	252	526	
167	113	208	20	B0001	126	04W01	FLDCT	A	00011	0.211	426	745	346	399	526	
167	114	189	20	B0001	126	04W01	FLDCT	A	00012	0.211	426	530	346	184	526	
167	115	191	20	B0001	126	04W01	FLDCT	A	00013	0.211	426	553	346	207	526	
167	116	183	20	B0001	126	04W01	FLDCT	A	00014	0.211	426	463	346	117	526	
167	117	214	20	B0001	126	04W01	FLDCT	A	00015	0.211	426	812	346	466	526	
167	118	200	20	B0001	126	04W01	FLDCT	A	00016	0.211	426	654	346	308	526	

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167	119	187	20	B0001	126	04W01	FIDCT	A	00017	0.211	426	508	346	162	526
167	120	166	20	B0001	126	04W01	FIDCT	A	00018	0.211	426	271	346	-75	526
167	121	214	20	B0001	126	04W01	FIDCT	A	00019	0.211	426	812	346	466	526
167	122	209	20	B0001	126	04W01	FIDCT	A	00020	0.211	426	756	346	410	526
167	123	215	20	B0001	126	04W01	FIDCT	A	00021	0.211	426	824	346	478	526
167	124	235	20	B0001	126	04W01	FIDCT	A	00022	0.211	426	1049	346	703	526
167	125	182	20	B0001	126	04W01	FIDCT	B	00001	0.211	426	451	346	105	526
167	126	168	20	B0001	126	04W01	FIDCT	B	00002	0.211	426	229	346	-53	526
167	127	189	20	B0001	126	04W01	FIDCT	B	00003	0.211	426	530	346	184	526
167	128	253	20	B0001	126	04W01	FIDCT	B	00004	0.211	426	1253	346	907	526
167	129	201	20	B0001	126	04W01	FIDCT	B	00005	0.211	426	666	346	320	526
167	130	198	20	B0001	126	04W01	FIDCT	B	00006	0.211	426	622	346	286	526
167	131	182	20	B0001	126	04W01	FIDCT	B	00007	0.211	426	451	346	105	526
167	132	219	20	B0001	126	04W01	FIDCT	B	00008	0.211	426	869	346	523	526
167	133	192	20	B0001	126	04W01	FIDCT	B	00009	0.211	426	564	346	218	526
167	134	214	20	B0001	126	04W01	FIDCT	B	00010	0.211	426	812	346	466	526
167	135	228	20	B0001	126	04W01	FIDCT	B	00011	0.211	426	970	346	624	526
167	136	184	20	B0001	126	04W01	FIDCT	B	00012	0.211	426	474	346	128	526
167	137	200	20	B0001	126	04W01	FIDCT	B	00013	0.211	426	654	346	308	526
167	138	189	20	B0001	126	04W01	FIDCT	B	00014	0.211	426	530	346	184	526
167	139	183	20	B0001	126	04W01	FIDCT	B	00015	0.211	426	463	346	117	526
167	140	181	20	B0001	126	04W01	FIDCT	B	00016	0.211	426	440	346	94	526
167	141	202	20	B0001	126	04W01	FIDCT	B	00017	0.211	426	677	346	331	526
167	142	224	20	B0001	126	04W01	FIDCT	B	00018	0.211	426	925	346	579	526
167	143	230	20	B0001	126	04W01	FIDCT	B	00019	0.211	426	293	346	647	526
167	144	182	20	B0001	126	04W01	FIDCT	B	00020	0.211	426	451	346	105	526
167	145	241	20	B0001	126	04W01	FIDCT	B	00021	0.211	426	1117	346	771	526
167	146	183	20	B0001	126	04W01	FIDCT	B	00022	0.211	426	463	346	117	526
167	148	189	20	B0004	126	04W02	FIDCT	A	00001	0.211	384	688	346	342	506
167	149	150	20	B0004	126	04W02	FIDCT	A	00002	0.211	384	248	346	-98	506
167	150	187	20	B0004	126	04W02	FIDCT	A	00003	0.211	384	666	346	320	506
167	151	187	20	B0004	126	04W02	FIDCT	A	00004	0.211	384	566	346	320	506
167	152	171	20	B0004	126	04W02	FIDCT	A	00005	0.211	384	485	346	139	506
167	153	165	20	B0004	126	04W02	FIDCT	A	00006	0.211	384	418	346	72	506
167	154	167	20	B0004	126	04W02	FIDCT	B	00001	0.211	384	440	346	94	506
167	155	183	20	B0004	126	04W02	FIDCT	B	00002	0.211	384	621	346	275	506
167	156	198	20	B0004	126	04W02	FIDCT	B	00003	0.211	384	790	346	444	506
167	157	202	20	B0004	126	04W02	FIDCT	B	00004	0.211	384	835	346	489	506
167	158	183	20	B0004	126	04W02	FIDCT	B	00005	0.211	384	621	346	275	506
167	159	184	20	B0004	126	04W02	FIDCT	B	00006	0.211	384	632	346	286	506
167	162	118	20	B9999	126	04W03	FIDCT	A	00001	0.211	356	-8	0	-8	442
167	163	125	20	B9999	126	04W03	FIDCT	A	00002	0.211	356	71	0	71	442
167	164	120	20	B9999	126	04W03	FIDCT	A	00003	0.211	356	15	0	15	442
167	165	113	20	B9999	126	04W03	FIDCT	A	00004	0.211	356	-64	0	-64	442
167	166	105	20	B9999	126	04W03	FIDCT	A	00005	0.211	356	-154	0	-154	442
167	167	125	20	B9999	126	04W03	FIDCT	A	00006	0.211	356	71	0	71	442
167	168	129	20	B9999	126	04W03	FIDCT	A	00007	0.211	356	117	0	117	442
167	169	116	20	B9999	126	04W03	FIDCT	A	00008	0.211	356	-30	0	-30	442
167	170	126	20	B9999	126	04W03	FIDCT	A	00009	0.211	356	83	0	83	442
167	171	144	20	B9999	126	04W03	FIDCT	A	00010	0.211	356	286	0	286	442
167	172	125	20	B9999	126	04W03	FIDCT	A	00011	0.211	356	71	0	71	442
167	173	180	20	B9999	126	04W03	FIDCT	A	00012	0.211	356	692	346	346	492
167	174	115	20	B9999	126	04W03	FIDCT	B	00001	0.211	356	-41	0	-41	442
167	175	122	20	B9999	126	04W03	FIDCT	B	00002	0.211	356	38	0	38	442
167	176	146	20	B9999	126	04W03	FIDCT	B	00003	0.211	356	308	0	308	442
167	177	132	20	B9999	126	04W03	FIDCT	B	00004	0.211	356	150	0	150	442
167	178	140	20	B9999	126	04W03	FIDCT	B	00005	0.211	356	241	0	241	442
167	179	122	20	B9999	126	04W03	FIDCT	B	00006	0.211	356	38	0	38	442
167	180	127	20	B9999	126	04W03	FIDCT	B	00007	0.211	356	94	0	94	442
167	181	110	20	B9999	126	04W03	FIDCT	B	00008	0.211	356	-98	0	-98	442
167	182	132	20	B9999	126	04W03	FIDCT	B	00009	0.211	356	150	0	150	442
167	183	121	20	B9999	126	04W03	FIDCT	B	00010	0.211	356	26	0	26	442

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167	184	131	20	B9999	126	04W03	FLDCT	B	00011	0.211	356	139	0	139	442
167	185	175	20	B0001	126	04W03	FLDCT	B	00012	0.211	356	636	346	290	492
167	189	99	20	B9999	126	04S01	FLDCT	ZZZZZ	00001	0.211	248	184	0	184	374
167	190	108	20	B9999	126	04S01	FLDCT	ZZZZZ	00002	0.211	248	286	0	286	374
167	191	93	20	B9999	126	04S01	FLDCT	ZZZZZ	00003	0.211	248	117	0	117	374
167	192	94	20	B9999	126	04S01	FLDCT	ZZZZZ	00004	0.211	248	128	0	128	374
167	193	122	20	B9999	126	04S01	FLDCT	ZZZZZ	00005	0.211	248	444	0	444	374
167	194	118	20	B9999	126	04S01	FLDCT	ZZZZZ	00006	0.211	248	399	0	399	374
167	195	227	20	B9999	126	04S01	FLDCT	ZZZZZ	00007	0.211	248	1629	0	1629	374
167	196	95	20	B9999	126	04S01	FLDCT	ZZZZZ	00008	0.211	248	139	0	139	374
167	197	78	20	B9999	126	04S01	FLDCT	ZZZZZ	00009	0.211	248	-53	0	-53	374
167	198	132	20	B9999	126	04S01	FLDCT	ZZZZZ	00010	0.211	248	557	0	557	374
168	5	181	20	B9999	126	04V01	FLDCT	ZZZZZ	00001	0.218	430	411	0	411	467
168	6	221	20	B9999	126	04V01	FLDCT	ZZZZZ	00002	0.218	430	848	0	848	467
168	7	203	20	B9999	126	04V01	FLDCT	ZZZZZ	00003	0.218	430	652	0	652	467
168	8	218	20	B9999	126	04V01	FLDCT	ZZZZZ	00004	0.218	430	815	0	815	467
168	9	178	20	B9999	126	04V01	FLDCT	ZZZZZ	00005	0.218	430	379	0	379	467
168	12	204	20	B9999	126	04V02	FLDCT	ZZZZZ	00001	0.218	488	451	0	451	495
168	13	171	20	B9999	126	04V02	FLDCT	ZZZZZ	00002	0.218	488	91	0	91	495
168	14	185	20	B9999	126	04V02	FLDCT	ZZZZZ	00003	0.218	488	244	0	244	495
168	15	173	20	B9999	126	04V02	FLDCT	ZZZZZ	00004	0.218	488	113	0	113	495
168	16	191	20	B9999	126	04V02	FLDCT	ZZZZZ	00005	0.218	488	309	0	309	495
168	19	225	20	B0002	126	04S02	FLDCT	ZZZZZ	00001	0.218	430	892	354	538	514
168	20	249	20	B0002	126	04S02	FLDCT	ZZZZZ	00002	0.218	430	1154	354	800	514
168	21	193	20	B0002	126	04S02	FLDCT	ZZZZZ	00003	0.218	430	542	354	188	514
168	22	249	20	B0002	126	04S02	FLDCT	ZZZZZ	00004	0.218	430	1194	354	800	514
168	23	274	20	B0002	126	04S02	FLDCT	ZZZZZ	00005	0.218	430	1427	354	1073	514
168	26	256	20	B0001	126	05W01	FLDCT	A	00001	0.218	657	404	346	58	608
168	27	288	20	B0001	126	05W01	FLDCT	A	00002	0.218	657	754	346	408	608
168	28	314	20	B0001	126	05W01	FLDCT	A	00003	0.218	657	1038	346	692	608
168	29	307	20	B0001	126	05W01	FLDCT	A	00004	0.218	657	961	346	615	608
168	41	1283	60	B0004	126	05W01	FLDCT	A	00005	0.218	864	1525	346	1179	399
168	42	1410	60	B0004	126	05W01	FLDCT	A	00006	0.218	864	1908	346	1642	399
168	43	1369	60	B0004	126	05W01	FLDCT	A	00007	0.218	864	1839	346	1493	399
168	44	1354	60	B0004	126	05W01	FLDCT	A	00008	0.218	864	1784	346	1438	399
168	46	1273	60	B0004	126	05W01	FLDCT	A	00009	0.218	864	1220	346	874	399
168	47	1324	60	B0004	126	05W01	FLDCT	A	00010	0.218	864	1489	346	1143	399
168	48	1427	60	B0004	126	05W01	FLDCT	A	00011	0.218	864	1675	346	1329	399
168	49	1252	60	B0004	126	05W01	FLDCT	A	00012	0.218	864	1704	346	1704	399
168	50	1283	60	B0004	126	05W01	FLDCT	A	00013	0.218	864	2050	346	1067	399
168	51	268	20	B0001	126	05W01	FLDCT	A	00014	0.218	657	1525	346	1179	608
168	52	225	20	B0001	126	05W01	FLDCT	A	00015	0.218	657	595	346	189	608
168	53	238	20	B0001	126	05W01	FLDCT	A	00016	0.218	657	66	346	-280	608
168	54	241	20	B0001	126	05W01	FLDCT	A	00017	0.218	657	208	346	-138	608
168	55	240	20	B0001	126	05W01	FLDCT	A	00018	0.218	657	240	346	-106	608
168	56	240	20	B0001	126	05W01	FLDCT	A	00019	0.218	657	229	346	-117	608
168	57	232	20	B0001	126	05W01	FLDCT	A	00020	0.218	657	229	346	-117	608
168	58	230	20	B0001	126	05W01	FLDCT	A	00021	0.218	657	142	346	-204	608
168	59	237	20	B0001	126	05W01	FLDCT	A	00022	0.218	657	120	346	-226	608
168	60	225	20	B0001	126	05W01	FLDCT	A	00023	0.218	657	197	346	-149	608
168	61	238	20	B0001	126	05W01	FLDCT	A	00024	0.218	657	66	346	-280	608
168	62	242	20	B0001	126	05W01	FLDCT	A	00025	0.218	657	208	346	-138	608
168	63	232	20	B0001	126	05W01	FLDCT	A	00026	0.218	657	251	346	-95	608
168	64	267	20	B0001	126	05W01	FLDCT	A	00027	0.218	657	142	346	-204	608
168	65	208	20	B0001	126	05W01	FLDCT	A	00028	0.218	657	524	346	178	608
168	66	209	20	B0004	126	05W01	FLDCT	A	00029	0.218	864	657	346	-466	608
168	67	219	20	B0004	126	05W01	FLDCT	A	00030	0.218	864	-120	346	-1209	683
168	68	190	20	B0001	126	05W01	FLDCT	A	00031	0.218	864	-754	346	-1100	663
168	68	190	20	B0001	126	05W01	FLDCT	A	00032	0.218	657	-426	346	-772	608

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168	69	129	20	B0001	126	05W01	FLDCT	A	00033	0.218	657	-983	346	-1329	608
168	70	115	20	B0001	126	05W01	FLDCT	A	00034	0.218	657	-1136	346	-1482	608
168	71	102	20	B0001	126	05W01	FLDCT	A	00035	0.218	657	-1278	346	-1624	608
168	72	213	20	B0004	126	05W01	FLDCT	A	00036	0.218	864	-819	346	-1165	683
168	73	231	20	B0004	126	05W01	FLDCT	A	00037	0.218	864	-623	346	-969	683
168	74	200	20	B0001	126	05W01	FLDCT	A	00038	0.218	657	-208	346	-554	608
168	76	152	20	B9999	126	05W01	FLDCT	A	00039	0.218	411	164	0	164	457
168	77	247	20	B0001	126	05W01	FLDCT	A	00040	0.218	657	306	346	-40	608
168	78	211	20	B0001	126	05W01	FLDCT	A	00041	0.218	657	-87	346	-433	608
168	79	263	20	B0001	126	05W01	FLDCT	B	00001	0.218	619	619	346	273	593
168	80	299	20	B0001	126	05W01	FLDCT	B	00002	0.218	619	1012	346	666	593
168	81	241	20	B0001	126	05W01	FLDCT	B	00003	0.218	619	379	346	33	593
168	82	309	20	B0001	126	05W01	FLDCT	B	00004	0.218	619	1121	346	775	593
168	83	1415	60	B0004	126	05W01	FLDCT	B	00005	0.218	859	2024	346	1678	398
168	93	1323	60	B0004	126	05W01	FLDCT	B	00006	0.218	859	1689	346	1343	398
168	94	1416	60	B0004	126	05W01	FLDCT	B	00007	0.218	859	2028	346	1682	398
168	95	1218	60	B0004	126	05W01	FLDCT	B	00008	0.218	859	1307	346	961	398
168	96	1343	60	B0004	126	05W01	FLDCT	B	00009	0.218	859	1762	346	1416	398
168	97	1261	60	B0004	126	05W01	FLDCT	B	00010	0.218	859	1464	346	1118	398
168	98	1516	60	B0004	126	05W01	FLDCT	B	00011	0.218	859	2392	346	2046	398
168	99	1390	60	B0004	126	05W01	FLDCT	B	00012	0.218	859	1933	346	1587	398
168	100	1397	60	B0004	126	05W01	FLDCT	B	00013	0.218	859	1959	346	1613	398
168	101	1282	60	B0004	126	05W01	FLDCT	B	00014	0.218	859	1540	346	1194	398
168	102	290	20	B0001	126	05W01	FLDCT	B	00015	0.218	619	914	346	568	593
168	103	255	20	B0001	126	05W01	FLDCT	B	00016	0.218	619	532	346	186	593
168	104	264	20	B0001	126	05W01	FLDCT	B	00017	0.218	619	630	346	284	593
168	105	287	20	B0001	126	05W01	FLDCT	B	00018	0.218	619	881	346	535	593
168	106	230	20	B0001	126	05W01	FLDCT	B	00019	0.218	619	258	346	-88	593
168	107	229	20	B0001	126	05W01	FLDCT	B	00020	0.218	619	248	346	-98	593
168	108	240	20	B0001	126	05W01	FLDCT	B	00021	0.218	619	368	346	22	593
168	109	254	20	B0001	126	05W01	FLDCT	B	00022	0.218	619	521	346	175	593
168	110	261	20	B0001	126	05W01	FLDCT	B	00023	0.218	619	597	346	251	593
168	111	263	20	B0001	126	05W01	FLDCT	B	00024	0.218	619	619	346	273	593
168	112	298	20	B0001	126	05W01	FLDCT	B	00025	0.218	619	1001	346	655	593
168	113	232	20	B0001	126	05W01	FLDCT	B	00026	0.218	619	280	346	-66	593
168	114	212	20	B0001	126	05W01	FLDCT	B	00027	0.218	619	62	346	-284	593
168	115	237	20	B0001	126	05W01	FLDCT	B	00028	0.218	619	335	346	-11	593
168	116	236	20	B0001	126	05W01	FLDCT	B	00029	0.218	619	324	346	-22	593
168	117	240	20	B0004	126	05W01	FLDCT	B	00030	0.218	859	-506	346	-852	681
168	118	245	20	B0004	126	05W01	FLDCT	B	00031	0.218	859	-451	346	-797	681
168	119	192	20	B0001	126	05W01	FLDCT	B	00032	0.218	619	-157	346	-503	593
168	120	114	20	B0001	126	05W01	FLDCT	B	00033	0.218	619	-1008	346	-1354	593
168	121	127	20	B0001	126	05W01	FLDCT	B	00034	0.218	619	-866	346	-1212	593
168	122	108	20	B0004	126	05W01	FLDCT	B	00035	0.218	859	-1074	346	-1420	593
168	123	224	20	B0004	126	05W01	FLDCT	B	00036	0.218	859	-681	346	-1027	681
168	124	234	20	B0004	126	05W01	FLDCT	B	00037	0.218	859	-572	346	-918	681
168	125	175	20	B0001	126	05W01	FLDCT	B	00038	0.218	619	-342	346	-688	593
168	126	137	20	B9999	126	05W01	FLDCT	B	00039	0.218	421	-36	0	-36	462
168	127	168	20	B0001	126	05W01	FLDCT	B	00040	0.218	619	-419	346	-765	593
168	128	220	20	B0001	126	05W01	FLDCT	B	00041	0.218	619	149	346	-197	593
168	129														
168	130	188	20	B0001	126	05W02	FLDCT	A	00001	0.218	619	-200	346	-546	593
168	131	213	20	B0001	126	05W02	FLDCT	A	00002	0.218	619	73	346	-273	593
168	132	199	20	B0001	126	05W02	FLDCT	A	00003	0.218	619	-80	346	-426	593
168	133	270	20	B0001	126	05W02	FLDCT	A	00004	0.218	619	695	346	349	593
168	134	243	20	B0001	126	05W02	FLDCT	A	00005	0.218	619	400	346	54	593
168	135	235	20	B0001	126	05W02	FLDCT	A	00006	0.218	619	313	346	-33	593
168	136	250	20	B0001	126	05W02	FLDCT	A	00007	0.218	619	477	346	131	593
168	137	224	20	B0001	126	05W02	FLDCT	A	00008	0.218	619	193	346	-153	593
168	138	245	20	B0001	126	05W02	FLDCT	A	00009	0.218	619	422	346	76	593
168	139	239	20	B0001	126	05W02	FLDCT	A	00010	0.218	619	357	346	11	593
168	140	217	20	B0004	126	05W02	FLDCT	A	00011	0.218	619	116	346	-230	593
168	141	200	20	B0004	126	05W02	FLDCT	A	00012	0.218	619	-69	346	-415	593
168	142	238	20	B0004	126	05W02	FLDCT	A	00013	0.218	619	346	346	0	593

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168	143	215	20	B0004	126	05W02	FLDCT	A	00014	0.218	619	95	346	-251	593
168	144	202	20	B0004	126	05W02	FLDCT	A	00015	0.219	619	-47	346	-393	593
168	145	227	20	B0004	126	05W02	FLDCT	A	00016	0.218	619	226	346	-120	593
168	146	220	20	B0004	126	05W02	FLDCT	A	00017	0.218	619	143	346	-197	593
168	147	207	20	B0004	126	05W02	FLDCT	A	00018	0.218	619	7	346	-339	593
168	148	240	20	B0004	126	05W02	FLDCT	A	00019	0.218	619	368	346	22	593
168	149	242	20	B0004	126	05W02	FLDCT	A	00020	0.218	619	390	346	44	593
168	150	247	20	B0004	126	05W02	FLDCT	A	00021	0.218	619	444	346	98	593
168	151	254	20	B0004	126	05W02	FLDCT	A	00022	0.218	619	521	346	175	593
168	152	216	20	B0001	126	05W02	FLDCT	B	00001	0.218	619	106	346	-240	593
168	153	223	20	B0001	126	05W02	FLDCT	B	00002	0.218	619	182	346	-164	593
168	154	107	20	B0001	126	05W02	FLDCT	B	00003	0.218	619	-1085	346	-1431	593
168	155	202	20	B0001	126	05W02	FLDCT	B	00004	0.218	619	-47	346	-393	593
168	156	224	20	B0001	126	05W02	FLDCT	B	00005	0.218	619	193	346	-153	593
168	157	248	20	B0001	126	05W02	FLDCT	B	00006	0.218	619	455	346	109	593
168	158	261	20	B0001	126	05W02	FLDCT	B	00007	0.218	619	597	346	251	593
168	159	269	20	B0001	126	05W02	FLDCT	B	00008	0.218	619	684	346	338	593
168	160	256	20	B0001	126	05W02	FLDCT	B	00009	0.218	619	542	346	196	593
168	161	251	20	B0001	126	05W02	FLDCT	B	00010	0.218	619	488	346	142	593
168	162	239	20	B0004	126	05W02	FLDCT	B	00011	0.218	619	357	346	11	593
168	163	232	20	B0004	126	05W02	FLDCT	B	00012	0.218	619	280	346	-66	593
168	164	245	20	B0004	126	05W02	FLDCT	B	00013	0.218	619	422	346	76	593
168	165	201	20	B0004	126	05W02	FLDCT	B	00014	0.218	619	-58	346	-404	593
168	166	223	20	B0004	126	05W02	FLDCT	B	00015	0.218	619	182	346	-164	593
168	167	220	20	B0004	126	05W02	FLDCT	B	00016	0.218	619	149	346	-197	593
168	168	234	20	B0004	126	05W02	FLDCT	B	00017	0.218	619	302	346	-44	593
168	169	245	20	B0004	126	05W02	FLDCT	B	00018	0.218	619	422	346	76	593
168	170	245	20	B0004	126	05W02	FLDCT	B	00019	0.218	619	422	346	76	593
168	171	216	20	B0004	126	05W02	FLDCT	B	00020	0.218	619	106	346	-240	593
168	172	238	20	B0004	126	05W02	FLDCT	B	00021	0.218	619	346	346	0	593
168	173	228	20	B0004	126	05W02	FLDCT	B	00022	0.218	619	237	346	-109	593
169	5	161	20	B0001	126	05S01	FLDCT	ZZZZZ	00001	0.206	467	62	346	-284	558
169	6	172	20	B0001	126	05S01	FLDCT	ZZZZZ	00001	0.206	467	189	346	-157	558
169	7	247	20	B0001	126	05S01	FLDCT	ZZZZZ	00002	0.206	467	1056	346	710	558
169	8	164	20	B0001	126	05S01	FLDCT	ZZZZZ	00003	0.206	467	96	346	-250	558
169	9	241	20	B0001	126	05S01	FLDCT	ZZZZZ	00004	0.206	467	986	346	640	558
169	10	232	20	B0001	126	05S01	FLDCT	ZZZZZ	00005	0.206	467	882	346	536	558
169	11	212	20	B0001	126	05S02	FLDCT	ZZZZZ	00001	0.206	467	651	346	305	558
169	12	197	20	B0001	126	05S02	FLDCT	ZZZZZ	00002	0.206	467	362	346	16	558
169	13	202	20	B0001	126	05S02	FLDCT	ZZZZZ	00003	0.206	467	536	346	190	558
169	14	222	20	B0001	126	05S02	FLDCT	ZZZZZ	00004	0.206	467	767	346	421	558
169	15	179	20	B0001	126	05S02	FLDCT	ZZZZZ	00005	0.206	467	270	346	-76	558
169	16	230	20	B0001	126	05S03	FLDCT	ZZZZZ	00001	0.206	467	859	346	513	558
169	17	229	20	B0001	126	05S03	FLDCT	ZZZZZ	00002	0.206	467	848	346	502	558
169	18	203	20	B0001	126	05S03	FLDCT	ZZZZZ	00003	0.206	467	547	346	201	558
169	19	201	20	B0001	126	05S03	FLDCT	ZZZZZ	00004	0.206	467	524	346	178	558
169	20	229	20	B0001	126	05S03	FLDCT	ZZZZZ	00005	0.206	467	848	346	502	558
169	21	259	20	B0001	126	05S04	FLDCT	ZZZZZ	00001	0.206	467	1194	346	848	558
169	22	229	20	B0001	126	05S04	FLDCT	ZZZZZ	00002	0.206	467	848	346	502	558
169	23	241	20	B0001	126	05S04	FLDCT	ZZZZZ	00003	0.206	467	986	346	640	558
169	24	232	20	B0001	126	05S04	FLDCT	ZZZZZ	00004	0.206	467	882	346	536	558
169	25	170	20	B0001	126	05S04	FLDCT	ZZZZZ	00005	0.206	467	166	346	-180	558
169	28	195	20	B9999	126	05S05	FLDCT	ZZZZZ	00001	0.206	476	420	0	420	518
169	29	170	20	B9999	126	05S05	FLDCT	ZZZZZ	00002	0.206	476	131	0	131	518
169	30	151	20	B9999	126	05S05	FLDCT	ZZZZZ	00003	0.206	476	-89	0	-89	518
169	31	170	20	B9999	126	05S05	FLDCT	ZZZZZ	00004	0.206	476	131	0	131	518
169	32	165	20	B9999	126	05S05	FLDCT	ZZZZZ	00005	0.206	476	73	0	73	518
169	33	159	20	B9999	126	05S05	FLDCT	ZZZZZ	00006	0.206	476	4	0	4	518
169	34	166	20	B9999	126	05S05	FLDCT	ZZZZZ	00007	0.206	476	85	0	85	518

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169	35	167	20	B9999	126	05S05	FLDCT	ZZZZZ	00008	0.206	476	96	0	96	518
169	36	182	20	B9999	126	05S05	FLDCT	ZZZZZ	00009	0.206	476	270	0	270	518
169	37	182	20	B9999	126	05S05	FLDCT	ZZZZZ	00010	0.206	476	270	0	270	518
169	38	200	20	B9999	126	05S05	FLDCT	ZZZZZ	00011	0.206	476	478	0	478	518
169	39	150	20	B9999	126	05S05	FLDCT	ZZZZZ	00012	0.206	476	-100	0	-100	518
169	40	184	20	B9999	126	05S05	FLDCT	ZZZZZ	00013	0.206	476	293	0	293	518
169	41	137	20	B9999	126	05S05	FLDCT	ZZZZZ	00014	0.206	476	-250	0	-250	518
169	42	149	20	B9999	126	05S05	FLDCT	ZZZZZ	00015	0.206	476	-112	0	-112	518
170	5	144	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00001	0.212	352	299	0	299	437
170	6	115	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00002	0.212	352	-26	0	-26	437
170	7	105	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00003	0.212	352	-139	0	-139	437
170	8	123	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00004	0.212	352	64	0	64	437
170	9	124	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00005	0.212	352	75	0	75	437
170	10	131	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00006	0.212	352	153	0	153	437
170	11	126	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00007	0.212	352	97	0	97	437
170	12	124	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00008	0.212	352	75	0	75	437
170	13	149	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00009	0.212	352	356	0	356	437
170	14	134	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00010	0.212	352	187	0	187	437
170	15	113	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00011	0.212	352	-49	0	-49	437
170	16	139	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00012	0.212	352	243	0	243	437
170	17	131	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00013	0.212	352	153	0	153	437
170	18	158	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00014	0.212	352	457	0	457	437
170	19	143	20	B9999	126	04EQ1	FLDCT	ZZZZZ	00015	0.212	352	288	0	288	437
170	45	249	20	B0003	126	05F01	FLDCT	A	00016	0.212	550	737	399	338	586
170	46	272	20	B0003	126	05F01	FLDCT	A	00017	0.212	550	996	399	597	586
170	47	259	20	B0003	126	05F01	FLDCT	A	00018	0.212	550	850	399	451	586
170	48	263	20	B0003	126	05F01	FLDCT	A	00019	0.212	550	895	399	496	586
170	49	251	20	B0003	126	05F01	FLDCT	A	00020	0.212	550	760	399	361	586
170	50	202	20	B0003	126	05F01	FLDCT	A	00021	0.212	550	210	399	-189	586
170	51	252	20	B0003	126	05F01	FLDCT	A	00022	0.212	550	771	399	372	586
170	52	319	20	B0003	126	05F01	FLDCT	B	00011	0.212	550	1524	399	1125	586
170	53	271	20	B0003	126	05F01	FLDCT	B	00012	0.212	550	985	399	586	586
170	54	248	20	B0003	126	05F01	FLDCT	B	00015	0.212	550	726	399	327	586
170	55	214	20	B0003	126	05F01	FLDCT	B	00016	0.212	550	344	399	-55	586
170	56	215	20	B0003	126	05F01	FLDCT	B	00017	0.212	550	356	399	-43	586
170	57	254	20	B0003	126	05F01	FLDCT	B	00018	0.212	550	794	399	395	586
170	58	233	20	B0003	126	05F01	FLDCT	B	00019	0.212	550	558	399	159	586
170	59	253	20	B0003	126	05F01	FLDCT	B	00020	0.212	550	782	399	383	586
170	60	229	20	B0003	126	05F01	FLDCT	B	00021	0.212	550	513	399	114	586
170	61	243	20	B0003	126	05F01	FLDCT	B	00022	0.212	550	670	399	271	586
170	23	251	20	B0003	126	05F01	FLDCT	C	00001	0.212	550	760	399	361	586
170	24	235	20	B0003	126	05F01	FLDCT	C	00002	0.212	550	580	399	181	586
170	25	213	20	B0003	126	05F01	FLDCT	C	00003	0.212	550	333	399	-66	586
170	26	278	20	B0003	126	05F01	FLDCT	C	00004	0.212	550	1063	399	664	586
170	27	246	20	B0003	126	05F01	FLDCT	C	00005	0.212	550	704	399	305	586
170	28	292	20	B0003	126	05F01	FLDCT	C	00006	0.212	550	1220	399	821	586
170	29	269	20	B0003	126	05F01	FLDCT	C	00007	0.212	550	962	399	563	586
170	30	275	20	B0003	126	05F01	FLDCT	C	00008	0.212	550	1029	399	630	586
170	31	261	20	B0003	126	05F01	FLDCT	C	00009	0.212	550	872	399	473	586
170	32	244	20	B0003	126	05F01	FLDCT	C	00010	0.212	550	681	399	282	586
170	33	224	20	B0003	126	05F01	FLDCT	C	00011	0.212	550	457	399	58	586
170	34	224	20	B0003	126	05F01	FLDCT	C	00012	0.212	550	457	399	58	586
170	35	244	20	B0003	126	05F01	FLDCT	C	00013	0.212	550	681	399	282	586
170	36	253	20	B0003	126	05F01	FLDCT	C	00014	0.212	550	782	399	383	586
170	37	265	20	B0003	126	05F01	FLDCT	C	00015	0.212	550	917	399	518	586
170	38	231	20	B0002	126	05F01	FLDCT	C	00016	0.212	591	382	354	28	598
170	39	182	20	B0003	126	05F01	FLDCT	C	00017	0.212	550	-15	399	-414	586
170	40	242	20	B0003	126	05F01	FLDCT	C	00018	0.212	550	659	399	260	586
170	41	206	20	B0003	126	05F01	FLDCT	C	00019	0.212	550	255	399	-144	586
170	42	214	20	B0003	126	05F01	FLDCT	C	00020	0.212	550	344	399	-55	586
170	43	220	20	B0003	126	05F01	FLDCT	C	00021	0.212	550	412	399	13	586
170	44	249	20	B0003	126	05F01	FLDCT	C	00022	0.212	550	737	399	338	586



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170	62	306	20	B0003	126	05F01	FLDCT	D	00001	0.212	550	1378	399	979	586
170	63	230	20	B0003	126	05F01	FLDCT	D	00002	0.212	550	524	399	125	586
170	64	275	20	B0003	126	05F01	FLDCT	D	00003	0.212	550	1029	399	630	586
170	65	245	20	B0003	126	05F01	FLDCT	D	00004	0.212	550	693	399	294	586
170	66	276	20	B0003	126	05F01	FLDCT	D	00005	0.212	550	1041	399	642	586
170	67	266	20	B0003	126	05F01	FLDCT	D	00006	0.212	550	928	399	529	586
170	68	299	20	B0003	126	05F01	FLDCT	D	00007	0.212	550	1299	399	900	586
170	69	253	20	B0003	126	05F01	FLDCT	D	00008	0.212	550	782	399	383	586
170	70	257	20	B0003	126	05F01	FLDCT	D	00009	0.212	550	827	399	428	586
170	71	271	20	B0003	126	05F01	FLDCT	D	00010	0.212	550	985	399	586	586
170	72	217	20	B0003	126	05F01	FLDCT	D	00011	0.212	550	378	399	-21	586
170	73	244	20	B0003	126	05F01	FLDCT	D	00012	0.212	550	681	399	282	586
170	74	258	20	B0003	126	05F01	FLDCT	D	00013	0.212	550	839	399	440	586
170	75	278	20	B0003	126	05F01	FLDCT	D	00014	0.212	550	1063	399	664	586
170	76	243	20	B0003	126	05F01	FLDCT	D	00015	0.212	550	670	399	271	586
170	77	225	20	B0003	126	05F01	FLDCT	D	00016	0.212	550	468	399	69	586
170	78	235	20	B0003	126	05F01	FLDCT	D	00017	0.212	550	580	399	181	586
170	79	200	20	B0003	126	05F01	FLDCT	D	00018	0.212	550	187	399	-212	586
170	80	217	20	B0003	126	05F01	FLDCT	D	00019	0.212	550	378	399	-21	586
170	81	216	20	B0003	126	05F01	FLDCT	D	00020	0.212	550	367	399	-32	586
170	82	228	20	B0003	126	05F01	FLDCT	D	00021	0.212	550	502	399	103	586
170	83	221	20	B0003	126	05F01	FLDCT	D	00022	0.212	550	423	399	24	586
170	84	284	20	B0003	126	05F01	FLDCT	E	00001	0.212	550	1131	399	732	586
170	85	208	20	B0003	126	05F01	FLDCT	E	00002	0.212	550	277	399	-122	586
170	86	251	20	B0003	126	05F01	FLDCT	E	00003	0.212	550	760	399	361	586
170	87	257	20	B0003	126	05F01	FLDCT	E	00004	0.212	550	827	399	428	586
170	88	272	20	B0003	126	05F01	FLDCT	E	00005	0.212	550	996	399	597	586
170	89	250	20	B0003	126	05F01	FLDCT	E	00006	0.212	550	749	399	350	586
170	90	274	20	B0003	126	05F01	FLDCT	E	00007	0.212	550	1018	399	619	586
170	91	255	20	B0003	126	05F01	FLDCT	E	00008	0.212	550	805	399	406	586
170	92	273	20	B0003	126	05F01	FLDCT	E	00009	0.212	550	1007	399	608	586
170	93	231	20	B0003	126	05F01	FLDCT	E	00010	0.212	550	535	399	136	586
170	94	264	20	B0003	126	05F01	FLDCT	E	00011	0.212	550	906	399	507	586
170	95	243	20	B0003	126	05F01	FLDCT	E	00012	0.212	550	670	399	271	586
170	96	229	20	B0003	126	05F01	FLDCT	E	00013	0.212	550	513	399	114	586
170	97	250	20	B0003	126	05F01	FLDCT	E	00014	0.212	550	749	399	350	586
170	98	259	20	B0003	126	05F01	FLDCT	E	00015	0.212	550	850	399	451	586
170	99	240	20	B0003	126	05F01	FLDCT	E	00016	0.212	550	636	399	237	586
170	100	227	20	B0003	126	05F01	FLDCT	E	00017	0.212	550	490	399	91	586
170	101	278	20	B0003	126	05F01	FLDCT	E	00018	0.212	550	1063	399	664	586
170	102	213	20	B0003	126	05F01	FLDCT	E	00019	0.212	550	333	399	-66	586
170	103	212	20	B0003	126	05F01	FLDCT	E	00020	0.212	550	322	399	-77	586
170	104	211	20	B0003	126	05F01	FLDCT	E	00021	0.212	550	311	399	-88	586
170	105	207	20	B0003	126	05F01	FLDCT	F	00002	0.212	550	266	399	-133	586
170	106	237	20	B0003	126	05F01	FLDCT	F	00003	0.212	550	603	399	204	586
170	107	291	20	B0003	126	05F01	FLDCT	F	00004	0.212	550	1209	399	810	586
170	108	274	20	B0003	126	05F01	FLDCT	F	00005	0.212	550	1018	399	619	586
170	109	320	20	B0002	126	05F01	FLDCT	F	00006	0.212	550	1381	354	1027	598
170	110	276	20	B0003	126	05F01	FLDCT	F	00007	0.212	550	1041	399	642	586
170	111	279	20	B0003	126	05F01	FLDCT	F	00008	0.212	550	1074	399	675	586
170	112	259	20	B0003	126	05F01	FLDCT	F	00009	0.212	550	850	399	451	586
170	113	256	20	B0003	126	05F01	FLDCT	F	00010	0.212	550	816	399	417	586
170	114	255	20	B0003	126	05F01	FLDCT	F	00011	0.212	550	805	399	406	586
170	115	225	20	B0003	126	05F01	FLDCT	F	00012	0.212	550	468	399	69	586
170	116	238	20	B0003	126	05F01	FLDCT	F	00013	0.212	550	614	399	215	586
170	117	224	20	B0003	126	05F01	FLDCT	F	00014	0.212	550	457	399	58	586
170	118	267	20	B0003	126	05F01	FLDCT	F	00015	0.212	550	940	399	541	586
170	119	244	20	B0003	126	05F01	FLDCT	F	00016	0.212	550	681	399	282	586
170	120	259	20	B0003	126	05F01	FLDCT	F	00017	0.212	550	850	399	451	586
170	121	209	20	B0003	126	05F01	FLDCT	F	00018	0.212	550	288	399	-111	586
170	122	234	20	B0003	126	05F01	FLDCT	F	00019	0.212	550	569	399	170	586
170	123	217	20	B0003	126	05F01	FLDCT	F	00020	0.212	550	378	399	-21	586
170	124	234	20	B0003	126	05F01	FLDCT	F	00021	0.212	550	569	399	170	586
170	125	226	20	B0003	126	05F01	FLDCT	F	00022	0.212	550	479	399	80	586

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170	126	218	20	B0003	126	05F01	FLDCT	F	00022	0.212	550	389	399	-10	586
170	127	205	20	B0003	126	05F01	FLDCT	F	00023	0.212	550	243	399	-156	586
170	128	299	20	B0003	126	05F01	FLDCT	G	00003	0.212	550	1299	399	900	586
170	129	283	20	B0003	126	05F01	FLDCT	G	00005	0.212	550	1119	399	720	586
170	130	266	20	B0003	126	05F01	FLDCT	G	00006	0.212	550	928	399	529	586
170	131	234	20	B0003	126	05F01	FLDCT	G	00007	0.212	550	569	399	170	586
170	132	248	20	B0003	126	05F01	FLDCT	G	00008	0.212	550	726	399	327	586
170	133	275	20	B0003	126	05F01	FLDCT	G	00009	0.212	550	1029	399	630	586
170	134	238	20	B0003	126	05F01	FLDCT	G	00010	0.212	550	614	399	215	586
170	135	236	20	B0003	126	05F01	FLDCT	G	00011	0.212	550	591	399	192	586
170	136	217	20	B0003	126	05F01	FLDCT	G	00012	0.212	550	378	399	-21	586
170	137	242	20	B0003	126	05F01	FLDCT	G	00013	0.212	550	659	399	260	586
170	138	230	20	B0003	126	05F01	FLDCT	G	00014	0.212	550	524	399	125	586
170	139	235	20	B0003	126	05F01	FLDCT	G	00015	0.212	550	580	399	181	586
170	140	204	20	B0003	126	05F01	FLDCT	G	00016	0.212	550	232	399	-167	586
170	141	230	20	B0003	126	05F01	FLDCT	G	00017	0.212	550	524	399	125	586
170	142	241	20	B0003	126	05F01	FLDCT	G	00018	0.212	550	648	399	271	586
170	143	243	20	B0003	126	05F01	FLDCT	G	00019	0.212	550	670	399	271	586
170	144	249	20	B0003	126	05F01	FLDCT	G	00020	0.212	550	737	399	338	586
170	145	230	20	B0003	126	05F01	FLDCT	G	00021	0.212	550	524	399	125	586
170	146	257	20	B0003	126	05F01	FLDCT	G	00022	0.212	550	827	399	428	586
170	147	271	20	B0003	126	05F01	FLDCT	H	00007	0.212	550	985	399	586	586
170	148	313	20	B0003	126	05F01	FLDCT	H	00008	0.212	550	1456	399	1057	586
170	149	294	20	B0003	126	05F01	FLDCT	H	00009	0.212	550	1243	399	844	586
170	150	286	20	B0003	126	05F01	FLDCT	H	00010	0.212	550	1153	399	754	586
170	151	282	20	B0003	126	05F01	FLDCT	H	00011	0.212	550	1108	399	709	586
170	152	266	20	B0003	126	05F01	FLDCT	H	00012	0.212	550	928	399	529	586
170	153	250	20	B0003	126	05F01	FLDCT	H	00013	0.212	550	749	399	350	586
170	154	239	20	B0003	126	05F01	FLDCT	H	00014	0.212	550	625	399	226	586
170	155	233	20	B0003	126	05F01	FLDCT	H	00015	0.212	550	558	399	159	586
170	156	234	20	B0003	126	05F01	FLDCT	H	00016	0.212	550	569	399	170	586
170	157	234	20	B0003	126	05F01	FLDCT	H	00017	0.212	550	569	399	170	586
170	158	264	20	B0003	126	05F01	FLDCT	H	00018	0.212	550	906	399	507	586
170	159	223	20	B0003	126	05F01	FLDCT	H	00019	0.212	550	445	399	46	586
170	160	233	20	B0003	126	05F01	FLDCT	H	00020	0.212	550	558	399	159	586
170	161	238	20	B0003	126	05F01	FLDCT	H	00021	0.212	550	614	399	215	586
170	162	262	20	B0003	126	05F01	FLDCT	H	00022	0.212	550	883	399	484	586
170	163	336	20	B0003	126	05F01	FLDCT	I	00008	0.212	550	1715	399	1316	586
170	164	298	20	B0003	126	05F01	FLDCT	I	00009	0.212	550	1288	399	889	586
170	165	254	20	B0003	126	05F01	FLDCT	I	00010	0.212	550	794	399	395	586
170	166	252	20	B0003	126	05F01	FLDCT	I	00011	0.212	550	771	399	372	586
170	167	247	20	B0003	126	05F01	FLDCT	I	00012	0.212	550	715	399	316	586
170	168	237	20	B0003	126	05F01	FLDCT	I	00013	0.212	550	603	399	204	586
170	169	235	20	B0003	126	05F01	FLDCT	I	00014	0.212	550	580	399	181	586
170	170	217	20	B0003	126	05F01	FLDCT	I	00015	0.212	550	378	399	-21	586
170	171	236	20	B0003	126	05F01	FLDCT	I	00016	0.212	550	591	399	192	586
170	172	252	20	B0003	126	05F01	FLDCT	I	00017	0.212	550	771	399	372	586
170	173	253	20	B0003	126	05F01	FLDCT	I	00018	0.212	550	782	399	383	586
170	174	262	20	B0003	126	05F01	FLDCT	I	00019	0.212	550	883	399	484	586
170	175	298	20	B0003	126	05F01	FLDCT	I	00020	0.212	550	1288	399	889	586
170	176	298	20	B0003	126	05F01	FLDCT	J	00007	0.212	550	1288	399	889	586
170	177	258	20	B0003	126	05F01	FLDCT	J	00008	0.212	550	839	399	440	586
170	178	283	20	B0003	126	05F01	FLDCT	J	00009	0.212	550	1119	399	720	586
170	179	267	20	B0003	126	05F01	FLDCT	J	00010	0.212	550	940	399	541	586
170	180	266	20	B0003	126	05F01	FLDCT	J	00011	0.212	550	928	399	529	586
170	181	269	20	B0003	126	05F01	FLDCT	J	00012	0.212	550	962	399	563	586
170	182	237	20	B0003	126	05F01	FLDCT	J	00013	0.212	550	603	399	204	586
170	183	269	20	B0003	126	05F01	FLDCT	J	00014	0.212	550	962	399	563	586
170	184	251	20	B0003	126	05F01	FLDCT	J	00015	0.212	550	760	399	361	586
170	185	255	20	B0003	126	05F01	FLDCT	J	00016	0.212	550	805	399	406	586
170	186	245	20	B0003	126	05F01	FLDCT	J	00017	0.212	550	693	399	294	586
170	187	257	20	B0003	126	05F01	FLDCT	J	00018	0.212	550	827	399	428	586
170	188	258	20	B0003	126	05F01	FLDCT	J	00019	0.212	550	839	399	440	586
170	189	271	20	B0003	126	05F01	FLDCT	K	00007	0.212	550	985	399	586	586

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170	190	294	20	B0003	126	05F01	FLDCT	K	00008	0.212	550	1243	399	844	586
170	191	283	20	B0003	126	05F01	FLDCT	K	00009	0.212	550	1119	399	720	586
170	192	258	20	B0003	126	05F01	FLDCT	K	00010	0.212	550	839	399	440	586
170	193	250	20	B0003	126	05F01	FLDCT	K	00011	0.212	550	749	399	350	586
170	194	272	20	B0003	126	05F01	FLDCT	K	00012	0.212	550	996	399	597	586
170	195	277	20	B0003	126	05F01	FLDCT	K	00013	0.212	550	1052	399	653	586
170	196	263	20	B0003	126	05F01	FLDCT	K	00014	0.212	550	895	399	496	586
170	197	279	20	B0003	126	05F01	FLDCT	K	00015	0.212	550	1074	399	675	586
170	198	245	20	B0003	126	05F01	FLDCT	K	00016	0.212	550	693	399	294	586
170	199	256	20	B0003	126	05F01	FLDCT	K	00017	0.212	550	816	399	417	586
170	200	232	20	B0003	126	05F01	FLDCT	L	00011	0.212	550	547	399	148	586
170	201	261	20	B0003	126	05F01	FLDCT	L	00012	0.212	550	872	399	473	586
170	202	253	20	B0003	126	05F01	FLDCT	L	00013	0.212	550	782	399	383	586
170	203	265	20	B0003	126	05F01	FLDCT	L	00014	0.212	550	917	399	518	586
													# Measurements	808	
													Average	294	dpm/100cm <sup>2</sup>
													Maximum	2046	dpm/100cm <sup>2</sup>
													STD DEV	414	dpm/100cm <sup>2</sup>
													95% CL on Mean	323	dpm/100cm <sup>2</sup>

**Section 5**

**Package 16**  
**Removable Beta Summary Table (all areas)**







Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
02W03	6	90	100	02W03	FLDCT	A	00001	0.3425	2	6	0	6	17
	4	90	100	02W03	FLDCT	A	00002	0.3425	2	3	0	3	17
	3	90	100	02W03	FLDCT	A	00003	0.3425	2	1	0	1	17
	8	90	100	02W03	FLDCT	A	00004	0.3425	2	10	0	10	17
	2	90	100	02W03	FLDCT	A	00005	0.3425	2	-1	0	-1	17
	1	90	100	02W03	FLDCT	B	00001	0.3425	2	-3	0	-4	17
	2	90	100	02W03	FLDCT	B	00002	0.3425	2	-1	0	-1	17
	1	90	100	02W03	FLDCT	B	00003	0.3425	2	-3	0	-3	17
	0	90	100	02W03	FLDCT	B	00004	0.3425	2	-5	0	-5	17
	3	90	100	02W03	FLDCT	B	00005	0.3425	2	1	0	0	17
02W04	0	90	100	02W04	FLDCT	A	00001	0.3425	2	-5	0	-5	17
	5	90	100	02W04	FLDCT	A	00002	0.3425	2	4	0	4	17
	0	90	100	02W04	FLDCT	A	00003	0.3425	2	-5	0	-5	17
	3	90	100	02W04	FLDCT	A	00004	0.3425	2	1	0	0	17
	2	90	100	02W04	FLDCT	B	00001	0.3425	2	-1	0	-1	17
	2	90	100	02W04	FLDCT	B	00002	0.3425	2	-1	0	-2	17
	1	90	100	02W04	FLDCT	B	00003	0.3425	2	-3	0	-3	17
	0	90	100	02W04	FLDCT	B	00004	0.3425	2	-5	0	-5	17
01F01	12	90	100	01F01	FLDCT	A	00003	0.3425	2	18	0	18	17
	3	90	100	01F01	FLDCT	A	00004	0.3425	2	1	0	1	17
	0	90	100	01F01	FLDCT	A	00005	0.3425	2	-5	0	-5	17
	3	90	100	01F01	FLDCT	B	00001	0.3425	2	1	0	1	17
	0	90	100	01F01	FLDCT	B	00002	0.3425	2	-5	0	-5	17
	0	90	100	01F01	FLDCT	B	00003	0.3425	2	-5	0	-5	17
	3	90	100	01F01	FLDCT	B	00004	0.3425	2	1	0	1	17
	2	90	100	01F01	FLDCT	B	00005	0.3425	2	-1	0	-1	17
	10	90	100	01F01	FLDCT	B	00006	0.3425	2	14	0	14	17
	2	90	100	01F01	FLDCT	C	00001	0.3425	2	-1	0	-1	17
	7	90	100	01F01	FLDCT	C	00002	0.3425	2	8	0	8	17
	2	90	100	01F01	FLDCT	C	00003	0.3425	2	-1	0	-1	17

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Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	0	90	100	01F01	FLDCT	C	00004	0.3425	2	-5	0	-5	17
	4	90	100	01F01	FLDCT	C	00005	0.3425	2	3	0	3	17
	1	90	100	01F01	FLDCT	C	00006	0.3425	2	-3	0	-3	17
	2	90	100	01F01	FLDCT	C	00007	0.3425	2	-1	0	-2	17
	2	90	100	01F01	FLDCT	C	00008	0.3425	2	-1	0	-1	17
	3	90	100	01F01	FLDCT	D	00001	0.3425	2	1	0	1	17
	4	90	100	01F01	FLDCT	D	00004	0.3425	2	3	0	3	17
	6	90	100	01F01	FLDCT	D	00005	0.3425	2	6	0	6	17
	6	90	100	01F01	FLDCT	D	00006	0.3425	2	6	0	6	17
	1	90	100	01F01	FLDCT	D	00007	0.3425	2	-3	0	-4	17
	2	90	100	01F01	FLDCT	D	00008	0.3425	2	-1	0	-1	17
	2	90	100	01F01	FLDCT	E	00004	0.3425	2	-1	0	-2	17
	2	90	100	01F01	FLDCT	E	00005	0.3425	2	-1	0	-1	17
	4	90	100	01F01	FLDCT	E	00006	0.3425	2	3	0	3	17
	4	90	100	01F01	FLDCT	E	00007	0.3425	2	3	0	3	17
	4	90	100	01F01	FLDCT	E	00008	0.3425	2	3	0	2	17
	4	90	100	01F01	FLDCT	F	00003	0.3425	2	-5	0	-6	17
	0	90	100	01F01	FLDCT	F	00004	0.3425	2	8	0	8	17
	7	90	100	01F01	FLDCT	F	00005	0.3425	2	4	0	4	17
	5	90	100	01F01	FLDCT	F	00006	0.3425	2	10	0	10	17
	8	90	100	01F01	FLDCT	F	00007	0.3425	2	4	0	4	17
	5	90	100	01F01	FLDCT	F	00008	0.3425	2	-3	0	-4	17
	1	90	100	01F01	FLDCT	F	00008	0.3425	2	-3	0	-4	17
	9	90	100	01F01	FLDCT	G	00003	0.3425	2	12	0	12	17
	1	90	100	01F01	FLDCT	G	00004	0.3425	2	-3	0	-3	17
	9	90	100	01F01	FLDCT	G	00007	0.3425	2	12	0	12	17
01W01	2	90	100	01W01	FLDCT	A	00001	0.3425	2	-1	0	-2	17
	1	90	100	01W01	FLDCT	A	00002	0.3425	2	-3	0	-4	17
	1	90	100	01W01	FLDCT	A	00003	0.3425	2	-3	0	-3	17
	0	90	100	01W01	FLDCT	A	00004	0.3425	2	-5	0	-5	17
	1	90	100	01W01	FLDCT	A	00005	0.3425	2	-3	0	-4	17
	4	90	100	01W01	FLDCT	A	00006	0.3425	2	3	0	3	17
	0	90	100	01W01	FLDCT	A	00007	0.3425	2	-5	0	-5	17
	4	90	100	01W01	FLDCT	A	00008	0.3425	2	3	0	3	17
	2	90	100	01W01	FLDCT	A	00009	0.3425	2	-1	0	-1	17
	3	90	100	01W01	FLDCT	A	00010	0.3425	2	1	0	1	17
	1	90	100	01W01	FLDCT	A	00011	0.3425	2	-3	0	-4	17
	5	90	100	01W01	FLDCT	A	00012	0.3425	2	4	0	4	17
	4	90	100	01W01	FLDCT	A	00013	0.3425	2	3	0	2	17
	5	90	100	01W01	FLDCT	A	00014	0.3425	2	4	0	4	17
	3	90	100	01W01	FLDCT	A	00015	0.3425	2	1	0	0	17
	1	90	100	01W01	FLDCT	A	00016	0.3425	2	-3	0	-3	17
	2	90	100	01W01	FLDCT	A	00017	0.3425	2	-1	0	-3	17
	1	90	100	01W01	FLDCT	A	00018	0.3425	2	-3	0	-4	17
	4	90	100	01W01	FLDCT	A	00019	0.3425	2	3	0	3	17
	4	90	100	01W01	FLDCT	B	00001	0.3425	2	3	0	3	17
	2	90	100	01W01	FLDCT	B	00002	0.3425	2	-1	0	-1	17
	0	90	100	01W01	FLDCT	B	00003	0.3425	2	-5	0	-5	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	4	90	100	01W01	FLDCT	B	00004	0.3425	2	3	0	3	17
	2	90	100	01W01	FLDCT	B	00005	0.3425	2	-1	0	-1	17
	0	90	100	01W01	FLDCT	B	00006	0.3425	2	-5	0	-5	17
	6	90	100	01W01	FLDCT	B	00007	0.3425	2	6	0	6	17
	4	90	100	01W01	FLDCT	B	00008	0.3425	2	3	0	3	17
	2	90	100	01W01	FLDCT	B	00009	0.3425	2	-1	0	-2	17
	2	90	100	01W01	FLDCT	B	00010	0.3425	2	-3	0	-4	17
	1	90	100	01W01	FLDCT	B	00011	0.3425	2	-5	0	-5	17
	0	90	100	01W01	FLDCT	B	00012	0.3425	2	-1	0	-1	17
	2	90	100	01W01	FLDCT	B	00013	0.3425	2	1	0	1	17
	3	90	100	01W01	FLDCT	B	00014	0.3425	2	3	0	3	17
	4	90	100	01W01	FLDCT	B	00015	0.3425	2	-1	0	-1	17
	2	90	100	01W01	FLDCT	B	00016	0.3425	2	-1	0	-2	17
	2	90	100	01W01	FLDCT	B	00017	0.3425	2	-1	0	-1	17
	2	90	100	01W01	FLDCT	B	00018	0.3425	2	4	0	4	17
	5	90	100	01W01	FLDCT	B	00019	0.3425	2	1	0	1	17
	3	90	100	01W01	FLDCT	B							
01W02	9	90	100	01W02	FLDCT	A	00001	0.3425	2	12	0	11	17
	10	90	100	01W02	FLDCT	A	00002	0.3425	2	14	0	14	17
	0	90	100	01W02	FLDCT	A	00003	0.3425	2	-6	0	-6	17
	0	90	100	01W02	FLDCT	A	00004	0.3425	2	-2	0	-2	17
	2	90	100	01W02	FLDCT	A	00005	0.3425	2	-2	0	-2	17
	2	90	100	01W02	FLDCT	A	00006	0.3425	2	4	0	4	17
	5	90	100	01W02	FLDCT	A	00007	0.3425	2	-4	0	-4	17
	1	90	100	01W02	FLDCT	B	00001	0.3425	2	4	0	4	17
	5	90	100	01W02	FLDCT	B	00002	0.3425	2	4	0	4	17
	4	90	100	01W02	FLDCT	B	00003	0.3425	2	2	0	2	17
	3	90	100	01W02	FLDCT	B	00004	0.3425	2	0	0	0	17
	3	90	100	01W02	FLDCT	B	00005	0.3425	2	0	0	0	17
	3	90	100	01W02	FLDCT	B	00006	0.3425	2	-6	0	-6	17
	0	90	100	01W02	FLDCT	B							
01W03	1	90	100	01W03	FLDCT	A	00001	0.3425	2	-4	0	-4	17
	7	90	100	01W03	FLDCT	A	00002	0.3425	2	8	0	8	17
	1	90	100	01W03	FLDCT	A	00003	0.3425	2	-4	0	-4	17
	0	90	100	01W03	FLDCT	A	00004	0.3425	2	-6	0	-6	17
	5	90	100	01W03	FLDCT	A	00005	0.3425	2	4	0	4	17
	3	90	100	01W03	FLDCT	A	00006	0.3425	2	0	0	0	17
	3	90	100	01W03	FLDCT	A	00007	0.3425	2	0	0	0	17
	3	90	100	01W03	FLDCT	B	00002	0.3425	2	0	0	0	17
	0	90	100	01W03	FLDCT	B	00003	0.3425	2	-6	0	-7	17
	6	90	100	01W03	FLDCT	B	00004	0.3425	2	6	0	6	17
	3	90	100	01W03	FLDCT	B	00005	0.3425	2	0	0	-1	17
	2	90	100	01W03	FLDCT	B	00006	0.3425	2	-2	0	-3	17
	2	90	100	01W03	FLDCT	B	00007	0.3425	2	-2	0	-2	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
01W04	3	90	100	01W04	FLDCT	A	00001	0.3425	2	0	0	0	17
	1	90	100	01W04	FLDCT	A	00002	0.3425	2	-4	0	-4	17
	2	90	100	01W04	FLDCT	A	00003	0.3425	2	-2	0	-2	17
	11	90	100	01W04	FLDCT	B	00001	0.3425	2	16	0	16	17
	3	90	100	01W04	FLDCT	B	00002	0.3425	2	0	0	-1	17
	5	90	100	01W04	FLDCT	B	00003	0.3425	2	4	0	3	17
01C01	0	90	100	01C01	FLDCT	A	00003	0.3425	2	-6	0	-6	17
	0	90	100	01C01	FLDCT	A	00004	0.3425	2	-6	0	-6	17
	5	90	100	01C01	FLDCT	A	00005	0.3425	2	4	0	4	17
	3	90	100	01C01	FLDCT	B	00001	0.3425	2	0	0	0	17
	0	90	100	01C01	FLDCT	B	00002	0.3425	2	-6	0	-6	17
	0	90	100	01C01	FLDCT	B	00003	0.3425	2	-6	0	-6	17
	1	90	100	01C01	FLDCT	B	00004	0.3425	2	-4	0	-4	17
	0	90	100	01C01	FLDCT	B	00005	0.3425	2	-6	0	-6	17
	0	90	100	01C01	FLDCT	B	00006	0.3425	2	-6	0	-6	17
	3	90	100	01C01	FLDCT	C	00001	0.3425	2	0	0	-1	17
	0	90	100	01C01	FLDCT	C	00002	0.3425	2	-6	0	-6	17
	4	90	100	01C01	FLDCT	C	00003	0.3425	2	2	0	2	17
	0	90	100	01C01	FLDCT	C	00004	0.3425	2	-6	0	-6	17
	2	90	100	01C01	FLDCT	C	00005	0.3425	2	-2	0	-2	17
	0	90	100	01C01	FLDCT	C	00006	0.3425	2	-6	0	-6	17
	5	90	100	01C01	FLDCT	C	00007	0.3425	2	4	0	4	17
	1	90	100	01C01	FLDCT	C	00008	0.3425	2	-4	0	-4	17
	2	90	100	01C01	FLDCT	D	00001	0.3425	2	-2	0	-2	17
	2	90	100	01C01	FLDCT	D	00004	0.3425	2	-2	0	-3	17
	6	90	100	01C01	FLDCT	D	00005	0.3425	2	6	0	5	17
	1	90	100	01C01	FLDCT	D	00006	0.3425	2	-4	0	-4	17
	2	90	100	01C01	FLDCT	D	00007	0.3425	2	-2	0	-3	17
	2	90	100	01C01	FLDCT	D	00008	0.3425	2	-2	0	-3	17
	2	90	100	01C01	FLDCT	E	00004	0.3425	2	-2	0	-2	17
	2	90	100	01C01	FLDCT	E	00005	0.3425	2	-4	0	-4	17
	1	90	100	01C01	FLDCT	E	00006	0.3425	2	4	0	4	17
	5	90	100	01C01	FLDCT	E	00007	0.3425	2	4	0	4	17
	0	90	100	01C01	FLDCT	E	00007	0.3425	2	-6	0	-6	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	3	90	100	01C01	FLDCT	E	00008	0.3425	2	0	0	0	17
	1	90	100	01C01	FLDCT	F	00003	0.3425	2	-4	0	-4	17
	3	90	100	01C01	FLDCT	F	00004	0.3425	2	0	0	0	17
	4	90	100	01C01	FLDCT	F	00005	0.3425	2	2	0	2	17
	3	90	100	01C01	FLDCT	F	00006	0.3425	2	0	0	0	17
	1	90	100	01C01	FLDCT	F	00007	0.3425	2	-4	0	-4	17
	2	90	100	01C01	FLDCT	F	00008	0.3425	2	-2	0	-3	17
	3	90	100	01C01	FLDCT	G	00004	0.3425	2	0	0	0	17
	0	90	100	01C01	FLDCT	G	00007	0.3425	2	-6	0	-6	17
	4	90	100	01C01	FLDCT	G	00003	0.3425	2	2	0	2	17
04F01	4	90	100	04F01	FLDCT	A	00002	0.3425	2	2	0	2	17
	5	90	100	04F01	FLDCT	A	00003	0.3425	2	4	0	4	17
	3	90	100	04F01	FLDCT	B	00002	0.3425	2	0	0	-1	17
	4	90	100	04F01	FLDCT	B	00003	0.3425	2	2	0	1	17
	5	90	100	04F01	FLDCT	B	00004	0.3425	2	4	0	3	17
	0	90	100	04F01	FLDCT	B	00005	0.3425	2	-6	0	-6	17
	1	90	100	04F01	FLDCT	B	00006	0.3425	2	-4	0	-4	17
	3	90	100	04F01	FLDCT	C	00001	0.3425	2	0	0	0	17
	3	90	100	04F01	FLDCT	C	00002	0.3425	2	0	0	0	17
	2	90	100	04F01	FLDCT	C	00003	0.3425	2	-2	0	-2	17
	2	90	100	04F01	FLDCT	C	00004	0.3425	2	-6	0	-6	17
	0	90	100	04F01	FLDCT	C	00004	0.3425	2	-6	0	-6	17
	3	90	100	04F01	FLDCT	C	00005	0.3425	2	0	0	0	17
	3	90	100	04F01	FLDCT	C	00006	0.3425	2	0	0	0	17
	3	90	100	04F01	FLDCT	C	00007	0.3425	2	0	0	0	17
	5	90	100	04F01	FLDCT	C	00008	0.3425	2	4	0	4	17
	4	90	100	04F01	FLDCT	D	00001	0.3425	2	2	0	2	17
	4	90	100	04F01	FLDCT	D	00002	0.3425	2	2	0	1	17
	0	90	100	04F01	FLDCT	D	00003	0.3425	2	-6	0	-6	17
	0	90	100	04F01	FLDCT	D	00004	0.3425	2	-6	0	-6	17
	1	90	100	04F01	FLDCT	D	00005	0.3425	2	-4	0	-4	17
	6	90	100	04F01	FLDCT	D	00006	0.3425	2	6	0	6	17
	3	90	100	04F01	FLDCT	D	00007	0.3425	2	0	0	0	17
	4	90	100	04F01	FLDCT	D	00008	0.3425	2	2	0	2	17
	7	90	100	04F01	FLDCT	D	00009	0.3425	2	8	0	8	17
	2	90	100	04F01	FLDCT	E	00001	0.3425	2	-2	0	-2	17
	8	90	100	04F01	FLDCT	E	00002	0.3425	2	10	0	10	17
	2	90	100	04F01	FLDCT	E	00003	0.3425	2	-2	0	-2	17
	5	90	100	04F01	FLDCT	E	00004	0.3425	2	4	0	4	17
	3	90	100	04F01	FLDCT	E	00005	0.3425	2	0	0	0	17
	2	90	100	04F01	FLDCT	E	00006	0.3425	2	-2	0	-2	17
	1	90	100	04F01	FLDCT	E	00007	0.3425	2	-4	0	-4	17
	7	90	100	04F01	FLDCT	E	00008	0.3425	2	8	0	8	17
	2	90	100	04F01	FLDCT	E	00009	0.3425	2	-2	0	-2	17
	6	90	100	04F01	FLDCT	E	00010	0.3425	2	6	0	6	17
	3	90	100	04F01	FLDCT	F	00001	0.3425	2	0	0	0	17
	6	90	100	04F01	FLDCT	F	00002	0.3425	2	6	0	6	17
	1	90	100	04F01	FLDCT	F	00003	0.3425	2	-4	0	-4	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	4	90	100	04F01	FLDCT	F	00004	0.3425	2	2	0	2	17
	1	90	100	04F01	FLDCT	F	00005	0.3425	2	-4	0	-4	17
	1	90	100	04F01	FLDCT	F	00006	0.3425	2	-4	0	-4	17
	0	90	100	04F01	FLDCT	F	00007	0.3425	2	-6	0	-6	17
	0	90	100	04F01	FLDCT	F	00008	0.3425	2	-6	0	-6	17
	5	90	100	04F01	FLDCT	F	00009	0.3425	2	4	0	4	17
	4	90	100	04F01	FLDCT	F	00010	0.3425	2	2	0	2	17
	3	90	100	04F01	FLDCT	F	00011	0.3425	2	0	0	0	17
	1	90	100	04F01	FLDCT	G	00005	0.3425	2	-4	0	-4	17
	6	90	100	04F01	FLDCT	G	00006	0.3425	2	6	0	6	17
	3	90	100	04F01	FLDCT	G	00007	0.3425	2	0	0	0	17
	0	90	100	04F01	FLDCT	G	00008	0.3425	2	-6	0	-6	17
	5	90	100	04F01	FLDCT	G	00009	0.3425	2	4	0	4	17
	8	90	100	04F01	FLDCT	G	00010	0.3425	2	10	0	10	17
	5	90	100	04F01	FLDCT	G	00011	0.3425	2	4	0	4	17
	2	90	100	04F01	FLDCT	H	00007	0.3425	2	-2	0	-2	17
	3	90	100	04F01	FLDCT	H	00008	0.3425	2	0	0	0	17
	4	90	100	04F01	FLDCT	H	00009	0.3425	2	2	0	2	17
	3	90	100	04F01	FLDCT	H	00010	0.3425	2	0	0	0	17
	5	90	100	04F01	FLDCT	H	00011	0.3425	2	4	0	4	17
	1	90	100	04F01	FLDCT	H	00012	0.3425	2	-4	0	-4	17
	3	90	100	04F01	FLDCT	I	00007	0.3425	2	0	0	0	17
	4	90	100	04F01	FLDCT	I	00008	0.3425	2	2	0	2	17
	0	90	100	04F01	FLDCT	I	00009	0.3425	2	-6	0	-6	17
	8	90	100	04F01	FLDCT	I	00010	0.3425	2	10	0	10	17
	12	90	100	04F01	FLDCT	I	00011	0.3425	2	18	0	17	17
	1	90	100	04F01	FLDCT	I	00012	0.3425	2	-4	0	-4	17
	5	90	100	04F01	FLDCT	J	00008	0.3425	2	4	0	4	17
	3	90	100	04F01	FLDCT	J	00009	0.3425	2	0	0	0	17
	3	90	100	04F01	FLDCT	J	00010	0.3425	2	0	0	0	17
	4	90	100	04F01	FLDCT	J	00011	0.3425	2	2	0	1	17
	10	90	100	04F01	FLDCT	J	00012	0.3425	2	14	0	14	17
	4	90	100	04F01	FLDCT	K	00009	0.3425	2	2	0	2	17
	1	90	100	04F01	FLDCT	K	00010	0.3425	2	-4	0	-4	17
	0	90	100	04F01	FLDCT	K	00011	0.3425	2	-6	0	-6	17
	1	90	100	04F01	FLDCT	K	00012	0.3425	2	-4	0	-4	17
	2	90	100	04F01	FLDCT	L	00009	0.3425	2	-2	0	-2	17
	7	90	100	04F01	FLDCT	L	00010	0.3425	2	8	0	8	17
	6	90	100	04F01	FLDCT	L	00011	0.3425	2	6	0	6	17
	3	90	100	04F01	FLDCT	L	00012	0.3425	2	0	0	0	17
	1	90	100	04F01	FLDCT	L	00013	0.3425	2	-4	0	-4	17
	5	90	100	04F01	FLDCT	M	00009	0.3425	2	4	0	3	17
	3	90	100	04F01	FLDCT	M	00010	0.3425	2	0	0	0	17
	1	90	100	04F01	FLDCT	M	00011	0.3425	2	-4	0	-4	17
	4	90	100	04F01	FLDCT	M	00012	0.3425	2	2	0	2	17
	1	90	100	04F01	FLDCT	M	00013	0.3425	2	-4	0	-4	17
	0	90	100	04F01	FLDCT	N	00009	0.3425	2	-6	0	-6	17
	1	90	100	04F01	FLDCT	N	00010	0.3425	2	-4	0	-4	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	10	90	100	04F01	FLDCT	N	00011	0.3425	2	14	0	14	17
	3	90	100	04F01	FLDCT	N	00012	0.3425	2	0	0	-1	17
	4	90	100	04F01	FLDCT	N	00013	0.3425	2	2	0	2	17
	3	90	100	04F01	FLDCT	O	00009	0.3425	2	0	0	-1	17
	2	90	100	04F01	FLDCT	O	00010	0.3425	2	-2	0	-2	17
	2	90	100	04F01	FLDCT	O	00011	0.3425	2	-2	0	-2	17
04W01	7	90	100	04W01	FLDCT	A	00001	0.3425	2	9	0	9	16
	4	90	100	04W01	FLDCT	A	00002	0.3425	2	3	0	3	16
	4	90	100	04W01	FLDCT	A	00003	0.3425	2	3	0	3	16
	2	90	100	04W01	FLDCT	A	00004	0.3425	2	-1	0	-1	16
	3	90	100	04W01	FLDCT	A	00005	0.3425	2	1	0	1	16
	6	90	100	04W01	FLDCT	A	00006	0.3425	2	7	0	7	16
	6	90	100	04W01	FLDCT	A	00007	0.3425	2	7	0	7	16
	2	90	100	04W01	FLDCT	A	00008	0.3425	2	-1	0	-1	16
	3	90	100	04W01	FLDCT	A	00009	0.3425	2	1	0	1	16
	6	90	100	04W01	FLDCT	A	00010	0.3425	2	7	0	7	16
	4	90	100	04W01	FLDCT	A	00011	0.3425	2	3	0	2	16
	0	90	100	04W01	FLDCT	A	00012	0.3425	2	-5	0	-5	16
	4	90	100	04W01	FLDCT	A	00013	0.3425	2	3	0	3	16
	2	90	100	04W01	FLDCT	A	00014	0.3425	2	-1	0	-1	16
	6	90	100	04W01	FLDCT	A	00015	0.3425	2	7	0	7	16
	7	90	100	04W01	FLDCT	A	00016	0.3425	2	9	0	9	16
	9	90	100	04W01	FLDCT	A	00017	0.3425	2	13	0	13	16
	5	90	100	04W01	FLDCT	A	00018	0.3425	2	5	0	5	16
	4	90	100	04W01	FLDCT	A	00019	0.3425	2	3	0	3	16
	9	90	100	04W01	FLDCT	A	00020	0.3425	2	13	0	13	16
	3	90	100	04W01	FLDCT	A	00021	0.3425	2	1	0	1	16
	5	90	100	04W01	FLDCT	A	00022	0.3425	2	5	0	5	16
	5	90	100	04W01	FLDCT	B	00001	0.3425	2	5	0	4	16
	1	90	100	04W01	FLDCT	B	00002	0.3425	2	-3	0	-3	16
	7	90	100	04W01	FLDCT	B	00003	0.3425	2	9	0	9	16
	3	90	100	04W01	FLDCT	B	00004	0.3425	2	1	0	1	16
	3	90	100	04W01	FLDCT	B	00005	0.3425	2	1	0	1	16
	15	90	100	04W01	FLDCT	B	00006	0.3425	2	24	0	24	16
	5	90	100	04W01	FLDCT	B	00007	0.3425	2	5	0	5	16
	0	90	100	04W01	FLDCT	B	00008	0.3425	2	-5	0	-5	16
	5	90	100	04W01	FLDCT	B	00009	0.3425	2	5	0	5	16
	8	90	100	04W01	FLDCT	B	00010	0.3425	2	11	0	11	16
	9	90	100	04W01	FLDCT	B	00011	0.3425	2	13	0	12	16
	2	90	100	04W01	FLDCT	B	00012	0.3425	2	-1	0	-1	16
	3	90	100	04W01	FLDCT	B	00013	0.3425	2	1	0	1	16
	6	90	100	04W01	FLDCT	B	00014	0.3425	2	7	0	7	16
	7	90	100	04W01	FLDCT	B	00015	0.3425	2	9	0	8	16
	8	90	100	04W01	FLDCT	B	00016	0.3425	2	11	0	11	16
	10	90	100	04W01	FLDCT	B	00017	0.3425	2	15	0	15	16
	9	90	100	04W01	FLDCT	B	00018	0.3425	2	13	0	13	16
	7	90	100	04W01	FLDCT	B	00019	0.3425	2	9	0	9	16

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	5	90	100	04W01	FLDCT	B	00020	0.3425	2	5	0	5	16
	1	90	100	04W01	FLDCT	B	00021	0.3425	2	-3	0	-3	16
	1	90	100	04W01	FLDCT	B	00022	0.3425	2	-3	0	-3	16
04W02	2	90	100	04W02	FLDCT	A	00001	0.3425	2	-1	0	-1	16
	10	90	100	04W02	FLDCT	A	00002	0.3425	2	15	0	15	16
	0	90	100	04W02	FLDCT	A	00003	0.3425	2	-5	0	-5	16
	4	90	100	04W02	FLDCT	A	00004	0.3425	2	3	0	2	16
	4	90	100	04W02	FLDCT	A	00005	0.3425	2	3	0	3	16
	10	90	100	04W02	FLDCT	A	00006	0.3425	2	15	0	14	16
	9	90	100	04W02	FLDCT	B	00001	0.3425	2	13	0	12	16
	0	90	100	04W02	FLDCT	B	00002	0.3425	2	-5	0	-5	16
	4	90	100	04W02	FLDCT	B	00003	0.3425	2	3	0	3	16
	3	90	100	04W02	FLDCT	B	00004	0.3425	2	1	0	1	16
	3	90	100	04W02	FLDCT	B	00005	0.3425	2	1	0	0	16
	1	90	100	04W02	FLDCT	B	00006	0.3425	2	-3	0	-3	16
04W03	7	90	100	04W03	FLDCT	A	00001	0.3425	2	9	0	9	16
	3	90	100	04W03	FLDCT	A	00002	0.3425	2	1	0	1	16
	3	90	100	04W03	FLDCT	A	00003	0.3425	2	1	0	0	16
	10	90	100	04W03	FLDCT	A	00004	0.3425	2	15	0	15	16
	6	90	100	04W03	FLDCT	A	00005	0.3425	2	7	0	7	16
	1	90	100	04W03	FLDCT	A	00006	0.3425	2	-3	0	-3	16
	1	90	100	04W03	FLDCT	A	00007	0.3425	2	-3	0	-3	16
	5	90	100	04W03	FLDCT	A	00008	0.3425	2	5	0	5	16
	5	90	100	04W03	FLDCT	A	00009	0.3425	2	5	0	5	16
	2	90	100	04W03	FLDCT	A	00010	0.3425	2	-1	0	-1	16
	3	90	100	04W03	FLDCT	A	00011	0.3425	2	1	0	1	16
	2	90	100	04W03	FLDCT	A	00012	0.3425	2	-1	0	-1	16
	2	90	100	04W03	FLDCT	B	00001	0.3425	2	-1	0	-1	16
	2	90	100	04W03	FLDCT	B	00002	0.3425	2	-1	0	-2	16
	0	90	100	04W03	FLDCT	B	00003	0.3425	2	-5	0	-5	16
	5	90	100	04W03	FLDCT	B	00004	0.3425	2	5	0	5	16
	2	90	100	04W03	FLDCT	B	00005	0.3425	2	-1	0	-2	16
	9	90	100	04W03	FLDCT	B	00006	0.3425	2	13	0	13	16
	0	90	100	04W03	FLDCT	B	00007	0.3425	2	-5	0	-5	16
	0	90	100	04W03	FLDCT	B	00008	0.3425	2	-5	0	-5	16
	5	90	100	04W03	FLDCT	B	00009	0.3425	2	5	0	5	16
	2	90	100	04W03	FLDCT	B	00010	0.3425	2	-1	0	-1	16
	5	90	100	04W03	FLDCT	B	00011	0.3425	2	5	0	5	16
	2	90	100	04W03	FLDCT	B	00012	0.3425	2	-1	0	-1	16





Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	3	90	100	04S02	FLDCT	ZZZZZ	00003	0.3425	2	1	0	1	16
	2	90	100	04S02	FLDCT	ZZZZZ	00004	0.3425	2	-1	0	-1	16
	3	90	100	04S02	FLDCT	ZZZZZ	00005	0.3425	2	1	0	0	16
05W01	2	90	100	05W01	FLDCT	A	00001	0.3425	2	-2	0	-2	17
	4	90	100	05W01	FLDCT	A	00002	0.3425	2	2	0	2	17
	1	90	100	05W01	FLDCT	A	00003	0.3425	2	-4	0	-4	17
	2	90	100	05W01	FLDCT	A	00004	0.3425	2	-2	0	-2	17
	1	90	100	05W01	FLDCT	A	00005	0.3425	2	-4	0	-4	17
	3	90	100	05W01	FLDCT	A	00006	0.3425	2	0	0	0	17
	0	90	100	05W01	FLDCT	A	00007	0.3425	2	-6	0	-6	17
	2	90	100	05W01	FLDCT	A	00008	0.3425	2	-2	0	-2	17
	6	90	100	05W01	FLDCT	A	00009	0.3425	2	6	0	6	17
	4	90	100	05W01	FLDCT	A	00010	0.3425	2	2	0	2	17
	1	90	100	05W01	FLDCT	A	00011	0.3425	2	-4	0	-4	17
	3	90	100	05W01	FLDCT	A	00012	0.3425	2	0	0	-1	17
	0	90	100	05W01	FLDCT	A	00013	0.3425	2	-6	0	-6	17
	0	90	100	05W01	FLDCT	A	00014	0.3425	2	-6	0	-6	17
	2	90	100	05W01	FLDCT	A	00015	0.3425	2	-2	0	-3	17
	3	90	100	05W01	FLDCT	A	00016	0.3425	2	0	0	0	17
	4	90	100	05W01	FLDCT	A	00017	0.3425	2	2	0	1	17
	3	90	100	05W01	FLDCT	A	00018	0.3425	2	0	0	0	17
	0	90	100	05W01	FLDCT	A	00019	0.3425	2	-6	0	-6	17
	2	90	100	05W01	FLDCT	A	00020	0.3425	2	-2	0	-2	17
	3	90	100	05W01	FLDCT	A	00021	0.3425	2	0	0	0	17
	1	90	100	05W01	FLDCT	A	00022	0.3425	2	-4	0	-4	17
	11	90	100	05W01	FLDCT	A	00023	0.3425	2	16	0	16	17
	4	90	100	05W01	FLDCT	A	00024	0.3425	2	2	0	2	17
	5	90	100	05W01	FLDCT	A	00025	0.3425	2	4	0	4	17
	5	90	100	05W01	FLDCT	A	00026	0.3425	2	4	0	4	17
	7	90	100	05W01	FLDCT	A	00027	0.3425	2	8	0	8	17
	3	90	100	05W01	FLDCT	A	00028	0.3425	2	0	0	0	17
	8	90	100	05W01	FLDCT	A	00029	0.3425	2	10	0	10	17
	1	90	100	05W01	FLDCT	A	00030	0.3425	2	-4	0	-4	17
	4	90	100	05W01	FLDCT	A	00031	0.3425	2	2	0	2	17
	4	90	100	05W01	FLDCT	A	00032	0.3425	2	2	0	2	17
	8	90	100	05W01	FLDCT	A	00033	0.3425	2	10	0	10	17
	7	90	100	05W01	FLDCT	A	00034	0.3425	2	8	0	8	17
	6	90	100	05W01	FLDCT	A	00035	0.3425	2	6	0	6	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	3	90	100	05W01	FLDCT	A	00036	0.3425	2	0	0	0	17
	5	90	100	05W01	FLDCT	A	00037	0.3425	2	4	0	4	17
	4	90	100	05W01	FLDCT	A	00038	0.3425	2	2	0	2	17
	9	90	100	05W01	FLDCT	A	00039	0.3425	2	12	0	11	17
	4	90	100	05W01	FLDCT	A	00040	0.3425	2	2	0	1	17
	4	90	100	05W01	FLDCT	A	00041	0.3425	2	2	0	2	17
	6	90	100	05W01	FLDCT	B	00001	0.3425	2	6	0	6	17
	1	90	100	05W01	FLDCT	B	00002	0.3425	2	-4	0	-4	17
	1	90	100	05W01	FLDCT	B	00003	0.3425	2	-4	0	-4	17
	3	90	100	05W01	FLDCT	B	00004	0.3425	2	0	0	0	17
	1	90	100	05W01	FLDCT	B	00005	0.3425	2	-4	0	-4	17
	0	90	100	05W01	FLDCT	B	00006	0.3425	2	-6	0	-6	17
	3	90	100	05W01	FLDCT	B	00007	0.3425	2	0	0	0	17
	2	90	100	05W01	FLDCT	B	00008	0.3425	2	-2	0	-2	17
	3	90	100	05W01	FLDCT	B	00009	0.3425	2	0	0	0	17
	1	90	100	05W01	FLDCT	B	00010	0.3425	2	-4	0	-4	17
	1	90	100	05W01	FLDCT	B	00011	0.3425	2	-4	0	-4	17
	1	90	100	05W01	FLDCT	B	00012	0.3425	2	-4	0	-4	17
	0	90	100	05W01	FLDCT	B	00013	0.3425	2	-6	0	-6	17
	2	90	100	05W01	FLDCT	B	00014	0.3425	2	-2	0	-3	17
	0	90	100	05W01	FLDCT	B	00015	0.3425	2	-6	0	-6	17
	4	90	100	05W01	FLDCT	B	00016	0.3425	2	2	0	2	17
	1	90	100	05W01	FLDCT	B	00017	0.3425	2	-4	0	-4	17
	1	90	100	05W01	FLDCT	B	00018	0.3425	2	-4	0	-4	17
	3	90	100	05W01	FLDCT	B	00019	0.3425	2	0	0	0	17
	5	90	100	05W01	FLDCT	B	00020	0.3425	2	4	0	3	17
	3	90	100	05W01	FLDCT	B	00021	0.3425	2	0	0	0	17
	12	90	100	05W01	FLDCT	B	00022	0.3425	2	18	0	18	17
	8	90	100	05W01	FLDCT	B	00023	0.3425	2	10	0	10	17
	1	90	100	05W01	FLDCT	B	00024	0.3425	2	-4	0	-4	17
	0	90	100	05W01	FLDCT	B	00025	0.3425	2	-6	0	-6	17
	2	90	100	05W01	FLDCT	B	00026	0.3425	2	-2	0	-2	17
	2	90	100	05W01	FLDCT	B	00027	0.3425	2	-2	0	-2	17
	6	90	100	05W01	FLDCT	B	00028	0.3425	2	6	0	6	17
	0	90	100	05W01	FLDCT	B	00029	0.3425	2	-6	0	-6	17
	5	90	100	05W01	FLDCT	B	00030	0.3425	2	4	0	4	17
	5	90	100	05W01	FLDCT	B	00031	0.3425	2	4	0	4	17
	0	90	100	05W01	FLDCT	B	00032	0.3425	2	-6	0	-6	17
	8	90	100	05W01	FLDCT	B	00033	0.3425	2	10	0	10	17
	3	90	100	05W01	FLDCT	B	00034	0.3425	2	0	0	0	17
	9	90	100	05W01	FLDCT	B	00035	0.3425	2	12	0	12	17
	6	90	100	05W01	FLDCT	B	00036	0.3425	2	6	0	6	17
	2	90	100	05W01	FLDCT	B	00037	0.3425	2	-2	0	-2	17
	2	90	100	05W01	FLDCT	B	00038	0.3425	2	-2	0	-2	17
	2	90	100	05W01	FLDCT	B	00039	0.3425	2	-2	0	-2	17
	1	90	100	05W01	FLDCT	B	00040	0.3425	2	-4	0	-4	17
	2	90	100	05W01	FLDCT	B	00041	0.3425	2	-2	0	-2	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
05W02	2	90	100	05W02	FLDCT	A	00001	0.3425	2	-2	0	-3	17
	5	90	100	05W02	FLDCT	A	00002	0.3425	2	4	0	4	17
	1	90	100	05W02	FLDCT	A	00003	0.3425	2	-4	0	-4	17
	1	90	100	05W02	FLDCT	A	00004	0.3425	2	-4	0	-4	17
	7	90	100	05W02	FLDCT	A	00005	0.3425	2	8	0	8	17
	1	90	100	05W02	FLDCT	A	00006	0.3425	2	-4	0	-4	17
	1	90	100	05W02	FLDCT	A	00007	0.3425	2	-4	0	-4	17
	1	90	100	05W02	FLDCT	A	00008	0.3425	2	-4	0	-4	17
	1	90	100	05W02	FLDCT	A	00009	0.3425	2	-4	0	-4	17
	4	90	100	05W02	FLDCT	A	00010	0.3425	2	2	0	1	17
	1	90	100	05W02	FLDCT	A	00011	0.3425	2	-4	0	-4	17
	4	90	100	05W02	FLDCT	A	00012	0.3425	2	2	0	2	17
	4	90	100	05W02	FLDCT	A	00013	0.3425	2	2	0	2	17
	7	90	100	05W02	FLDCT	A	00014	0.3425	2	8	0	8	17
	2	90	100	05W02	FLDCT	A	00015	0.3425	2	-2	0	-2	17
	0	90	100	05W02	FLDCT	A	00016	0.3425	2	-6	0	-6	17
	0	90	100	05W02	FLDCT	A	00017	0.3425	2	-6	0	-6	17
	1	90	100	05W02	FLDCT	A	00018	0.3425	2	-4	0	-4	17
	1	90	100	05W02	FLDCT	A	00019	0.3425	2	-4	0	-4	17
	1	90	100	05W02	FLDCT	A	00020	0.3425	2	-4	0	-4	17
	2	90	100	05W02	FLDCT	A	00021	0.3425	2	-2	0	-3	17
	0	90	100	05W02	FLDCT	A	00022	0.3425	2	-6	0	-6	17
	3	90	100	05W02	FLDCT	B	00001	0.3425	2	0	0	0	17
	4	90	100	05W02	FLDCT	B	00002	0.3425	2	2	0	2	17
	3	90	100	05W02	FLDCT	B	00003	0.3425	2	0	0	0	17
	5	90	100	05W02	FLDCT	B	00004	0.3425	2	4	0	4	17
	6	90	100	05W02	FLDCT	B	00005	0.3425	2	6	0	6	17
	2	90	100	05W02	FLDCT	B	00006	0.3425	2	-2	0	-2	17
	3	90	100	05W02	FLDCT	B	00007	0.3425	2	0	0	0	17
	2	90	100	05W02	FLDCT	B	00008	0.3425	2	-2	0	-2	17
	5	90	100	05W02	FLDCT	B	00009	0.3425	2	4	0	4	17
	1	90	100	05W02	FLDCT	B	00010	0.3425	2	-4	0	-4	17
	0	90	100	05W02	FLDCT	B	00011	0.3425	2	-6	0	-6	17
	3	90	100	05W02	FLDCT	B	00012	0.3425	2	0	0	0	17
	0	90	100	05W02	FLDCT	B	00013	0.3425	2	-6	0	-6	17
	5	90	100	05W02	FLDCT	B	00014	0.3425	2	4	0	4	17
	0	90	100	05W02	FLDCT	B	00015	0.3425	2	-6	0	-6	17
	5	90	100	05W02	FLDCT	B	00016	0.3425	2	4	0	4	17
	2	90	100	05W02	FLDCT	B	00017	0.3425	2	-2	0	-2	17
	1	90	100	05W02	FLDCT	B	00018	0.3425	2	-4	0	-4	17
	5	90	100	05W02	FLDCT	B	00019	0.3425	2	4	0	4	17
	1	90	100	05W02	FLDCT	B	00020	0.3425	2	-4	0	-4	17
	0	90	100	05W02	FLDCT	B	00021	0.3425	2	-6	0	-6	17
	5	90	100	05W02	FLDCT	B	00022	0.3425	2	4	0	4	17
05S01	2	90	100	05S01	FLDCT	ZZZZZ	00001	0.3425	2	-1	0	-1	16
	2	90	100	05S01	FLDCT	ZZZZZ	00001	0.3425	2	-1	0	-1	16
	2	90	100	05S01	FLDCT	ZZZZZ	00002	0.3425	2	-1	0	-1	16

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	3	90	100	05S01	FLDCT	ZZZZZ	00003	0.3425	2	1	0	0	16
	1	90	100	05S01	FLDCT	ZZZZZ	00004	0.3425	2	-3	0	-3	16
	3	90	100	05S01	FLDCT	ZZZZZ	00005	0.3425	2	1	0	0	16
05S02	4	90	100	05S02	FLDCT	ZZZZZ	00001	0.3425	2	3	0	3	16
	4	90	100	05S02	FLDCT	ZZZZZ	00002	0.3425	2	3	0	3	16
	0	90	100	05S02	FLDCT	ZZZZZ	00003	0.3425	2	-5	0	-5	16
	5	90	100	05S02	FLDCT	ZZZZZ	00004	0.3425	2	5	0	5	16
	1	90	100	05S02	FLDCT	ZZZZZ	00005	0.3425	2	-3	0	-4	16
05S03	1	90	100	05S03	FLDCT	ZZZZZ	00001	0.3425	2	-3	0	-4	16
	1	90	100	05S03	FLDCT	ZZZZZ	00002	0.3425	2	-3	0	-3	16
	5	90	100	05S03	FLDCT	ZZZZZ	00003	0.3425	2	5	0	5	16
	2	90	100	05S03	FLDCT	ZZZZZ	00004	0.3425	2	-1	0	-1	16
	5	90	100	05S03	FLDCT	ZZZZZ	00005	0.3425	2	5	0	4	16
05S04	1	90	100	05S04	FLDCT	ZZZZZ	00001	0.3425	2	-3	0	-3	16
	1	90	100	05S04	FLDCT	ZZZZZ	00002	0.3425	2	-3	0	-3	16
	0	90	100	05S04	FLDCT	ZZZZZ	00003	0.3425	2	-5	0	-5	16
	3	90	100	05S04	FLDCT	ZZZZZ	00004	0.3425	2	1	0	1	16
	5	90	100	05S04	FLDCT	ZZZZZ	00005	0.3425	2	5	0	5	16

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
05S05	2	90	100	05S05	FLDCT	ZZZZZ	00001	0.3425	2	-1	0	-1	16
	3	90	100	05S05	FLDCT	ZZZZZ	00002	0.3425	2	1	0	1	16
	6	90	100	05S05	FLDCT	ZZZZZ	00003	0.3425	2	7	0	7	16
	4	90	100	05S05	FLDCT	ZZZZZ	00004	0.3425	2	3	0	3	16
	9	90	100	05S05	FLDCT	ZZZZZ	00005	0.3425	2	13	0	13	16
	6	90	100	05S05	FLDCT	ZZZZZ	00006	0.3425	2	7	0	6	16
	4	90	100	05S05	FLDCT	ZZZZZ	00007	0.3425	2	3	0	3	16
	2	90	100	05S05	FLDCT	ZZZZZ	00008	0.3425	2	-1	0	-2	16
	8	90	100	05S05	FLDCT	ZZZZZ	00009	0.3425	2	11	0	10	16
	3	90	100	05S05	FLDCT	ZZZZZ	00010	0.3425	2	1	0	0	16
	6	90	100	05S05	FLDCT	ZZZZZ	00011	0.3425	2	7	0	7	16
	4	90	100	05S05	FLDCT	ZZZZZ	00012	0.3425	2	3	0	3	16
	11	90	100	05S05	FLDCT	ZZZZZ	00013	0.3425	2	16	0	16	16
	5	90	100	05S05	FLDCT	ZZZZZ	00014	0.3425	2	5	0	5	16
	5	90	100	05S05	FLDCT	ZZZZZ	00015	0.3425	2	5	0	5	16
04EQ1	3	90	100	04EQ1	FLDCT	ZZZZZ	00001	0.3425	2	1	0	1	16
	2	90	100	04EQ1	FLDCT	ZZZZZ	00002	0.3425	2	-1	0	-1	16
	1	90	100	04EQ1	FLDCT	ZZZZZ	00003	0.3425	2	-3	0	-3	16
	2	90	100	04EQ1	FLDCT	ZZZZZ	00004	0.3425	2	-1	0	-1	16
	4	90	100	04EQ1	FLDCT	ZZZZZ	00005	0.3425	2	3	0	3	16
	1	90	100	04EQ1	FLDCT	ZZZZZ	00006	0.3425	2	-3	0	-3	16
	5	90	100	04EQ1	FLDCT	ZZZZZ	00007	0.3425	2	5	0	5	16
	2	90	100	04EQ1	FLDCT	ZZZZZ	00008	0.3425	2	-1	0	-1	16
	1	90	100	04EQ1	FLDCT	ZZZZZ	00009	0.3425	2	-3	0	-3	16
	1	90	100	04EQ1	FLDCT	ZZZZZ	00010	0.3425	2	-3	0	-3	16
	0	90	100	04EQ1	FLDCT	ZZZZZ	00011	0.3425	2	-5	0	-5	16
	4	90	100	04EQ1	FLDCT	ZZZZZ	00012	0.3425	2	3	0	3	16
	3	90	100	04EQ1	FLDCT	ZZZZZ	00013	0.3425	2	1	0	1	16
	6	90	100	04EQ1	FLDCT	ZZZZZ	00014	0.3425	2	7	0	7	16
	4	90	100	04EQ1	FLDCT	ZZZZZ	00015	0.3425	2	3	0	3	16
05F01	6	90	100	05F01	FLDCT	A	00016	0.3425	2	7	0	7	16
	0	90	100	05F01	FLDCT	A	00017	0.3425	2	-5	0	-5	16
	8	90	100	05F01	FLDCT	A	00018	0.3425	2	11	0	11	16
	6	90	100	05F01	FLDCT	A	00019	0.3425	2	7	0	7	16
	7	90	100	05F01	FLDCT	A	00020	0.3425	2	9	0	8	16
	4	90	100	05F01	FLDCT	A	00021	0.3425	2	3	0	2	16
	0	90	100	05F01	FLDCT	A	00022	0.3425	2	-5	0	-5	16
	17	90	100	05F01	FLDCT	B	00011	0.3425	2	28	0	28	16
	7	90	100	05F01	FLDCT	B	00012	0.3425	2	9	0	9	16
	2	90	100	05F01	FLDCT	B	00015	0.3425	2	-1	0	-1	16
	10	90	100	05F01	FLDCT	B	00016	0.3425	2	15	0	14	16
	19	90	100	05F01	FLDCT	B	00017	0.3425	2	32	0	31	16
	8	90	100	05F01	FLDCT	B	00018	0.3425	2	11	0	11	16

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	7	90	100	05F01	FLDCT	B	00019	0.3425	2	9	0	8	16
	2	90	100	05F01	FLDCT	B	00020	0.3425	2	-1	0	-1	16
	5	120	100	05F01	FLDCT	B	00021	0.3425	2	2	0	2	14
	1	90	100	05F01	FLDCT	B	00022	0.3004	0	1	0	1	11
	8	90	100	05F01	FLDCT	C	00001	0.3425	2	11	0	11	16
	6	90	100	05F01	FLDCT	C	00002	0.3425	2	7	0	7	16
	6	90	100	05F01	FLDCT	C	00003	0.3425	2	7	0	7	16
	17	90	100	05F01	FLDCT	C	00004	0.3425	2	28	0	28	16
	11	90	100	05F01	FLDCT	C	00005	0.3425	2	16	0	16	16
	8	90	100	05F01	FLDCT	C	00006	0.3425	2	11	0	11	16
	37	90	100	05F01	FLDCT	C	00007	0.3425	2	67	0	67	16
	8	90	100	05F01	FLDCT	C	00008	0.3425	2	11	0	11	16
	5	90	100	05F01	FLDCT	C	00009	0.3425	2	5	0	5	16
	2	90	100	05F01	FLDCT	C	00010	0.3425	2	-1	0	-2	16
	2	90	100	05F01	FLDCT	C	00011	0.3425	2	-1	0	-1	16
	8	90	100	05F01	FLDCT	C	00012	0.3425	2	11	0	11	16
	5	90	100	05F01	FLDCT	C	00013	0.3425	2	5	0	5	16
	7	90	100	05F01	FLDCT	C	00014	0.3425	2	9	0	8	16
	6	90	100	05F01	FLDCT	C	00015	0.3425	2	7	0	7	16
	9	90	100	05F01	FLDCT	C	00016	0.3425	2	13	0	11	16
	5	90	100	05F01	FLDCT	C	00017	0.3425	2	5	0	5	16
	8	90	100	05F01	FLDCT	C	00018	0.3425	2	11	0	11	16
	7	90	100	05F01	FLDCT	C	00019	0.3425	2	9	0	9	16
	6	90	100	05F01	FLDCT	C	00020	0.3425	2	7	0	7	16
	1	90	100	05F01	FLDCT	C	00021	0.3425	2	-3	0	-3	16
	3	90	100	05F01	FLDCT	C	00022	0.3425	2	1	0	1	16
	3	90	100	05F01	FLDCT	D	00001	0.3425	2	1	0	1	16
	6	90	100	05F01	FLDCT	D	00002	0.3425	2	7	0	7	16
	3	90	100	05F01	FLDCT	D	00003	0.3425	2	1	0	0	16
	2	90	100	05F01	FLDCT	D	00004	0.3425	2	-1	0	-1	16
	9	90	100	05F01	FLDCT	D	00005	0.3425	2	13	0	13	16
	10	90	100	05F01	FLDCT	D	00006	0.3425	2	15	0	15	16
	6	90	100	05F01	FLDCT	D	00007	0.3425	2	7	0	7	16
	19	90	100	05F01	FLDCT	D	00008	0.3425	2	32	0	31	16
	15	90	100	05F01	FLDCT	D	00009	0.3425	2	24	0	24	16
	5	90	100	05F01	FLDCT	D	00010	0.3425	2	5	0	5	16
	5	90	100	05F01	FLDCT	D	00011	0.3425	2	5	0	5	16
	3	90	100	05F01	FLDCT	D	00012	0.3425	2	1	0	0	16
	9	90	100	05F01	FLDCT	D	00013	0.3425	2	13	0	13	16
	4	90	100	05F01	FLDCT	D	00014	0.3425	2	3	0	3	16
	2	90	100	05F01	FLDCT	D	00015	0.3425	2	-1	0	-1	16
	5	90	100	05F01	FLDCT	D	00016	0.3425	2	5	0	5	16
	7	90	100	05F01	FLDCT	D	00017	0.3425	2	9	0	9	16
	7	90	100	05F01	FLDCT	D	00018	0.3425	2	9	0	9	16
	3	90	100	05F01	FLDCT	D	00019	0.3425	2	1	0	1	16
	4	90	100	05F01	FLDCT	D	00020	0.3425	2	3	0	3	16
	7	90	100	05F01	FLDCT	D	00021	0.3425	2	9	0	9	16
	3	90	100	05F01	FLDCT	D	00022	0.3425	2	1	0	0	16

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Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	5	90	100	05F01	FLDCT	E	00001	0.3425	2	5	0	5	16
	5	90	100	05F01	FLDCT	E	00002	0.3425	2	5	0	5	16
	2	90	100	05F01	FLDCT	E	00003	0.3425	2	-1	0	-1	16
	4	90	100	05F01	FLDCT	E	00004	0.3425	2	3	0	3	16
	8	90	100	05F01	FLDCT	E	00005	0.3425	2	11	0	11	16
	9	90	100	05F01	FLDCT	E	00006	0.3425	2	13	0	11	16
	5	90	100	05F01	FLDCT	E	00007	0.3425	2	5	0	5	16
	4	90	100	05F01	FLDCT	E	00008	0.3425	2	3	0	3	16
	8	90	100	05F01	FLDCT	E	00009	0.3425	2	11	0	11	16
	4	90	100	05F01	FLDCT	E	00010	0.3425	2	3	0	3	16
	32	90	100	05F01	FLDCT	E	00011	0.3425	2	57	0	57	16
	3	90	100	05F01	FLDCT	E	00012	0.3425	2	1	0	0	16
	4	90	100	05F01	FLDCT	E	00013	0.3425	2	3	0	3	16
	2	90	100	05F01	FLDCT	E	00014	0.3425	2	-1	0	-1	16
	7	90	100	05F01	FLDCT	E	00015	0.3425	2	9	0	9	16
	5	90	100	05F01	FLDCT	E	00016	0.3425	2	5	0	4	16
	2	90	100	05F01	FLDCT	E	00017	0.3425	2	-1	0	-1	16
	8	90	100	05F01	FLDCT	E	00018	0.3425	2	11	0	9	16
	12	90	100	05F01	FLDCT	E	00019	0.3425	2	18	0	18	16
	4	90	100	05F01	FLDCT	E	00020	0.3425	2	3	0	3	16
	2	90	100	05F01	FLDCT	E	00021	0.3425	2	-1	0	-1	16
	4	90	100	05F01	FLDCT	E	00022	0.3425	2	3	0	3	16
	16	90	100	05F01	FLDCT	F	00002	0.3425	2	25	0	25	17
	7	90	100	05F01	FLDCT	F	00003	0.3425	2	8	0	8	17
	9	90	100	05F01	FLDCT	F	00004	0.3425	2	12	0	12	17
	7	90	100	05F01	FLDCT	F	00005	0.3425	2	8	0	8	17
	3	90	100	05F01	FLDCT	F	00006	0.3425	2	0	0	0	17
	2	90	100	05F01	FLDCT	F	00007	0.3425	2	-2	0	-2	17
	4	90	100	05F01	FLDCT	F	00008	0.3425	2	2	0	2	17
	0	90	100	05F01	FLDCT	F	00009	0.3425	2	-6	0	-6	17
	0	90	100	05F01	FLDCT	F	00010	0.3425	2	-6	0	-6	17
	0	90	100	05F01	FLDCT	F	00011	0.3425	2	-6	0	-6	17
	6	90	100	05F01	FLDCT	F	00012	0.3425	2	6	0	6	17
	2	90	100	05F01	FLDCT	F	00013	0.3425	2	-2	0	-2	17
	3	90	100	05F01	FLDCT	F	00014	0.3425	2	0	0	-1	17
	2	90	100	05F01	FLDCT	F	00015	0.3425	2	-2	0	-2	17
	3	90	100	05F01	FLDCT	F	00016	0.3425	2	0	0	0	17
	1	90	100	05F01	FLDCT	F	00017	0.3425	2	-4	0	-4	17
	4	90	100	05F01	FLDCT	F	00018	0.3425	2	2	0	1	17
	5	90	100	05F01	FLDCT	F	00019	0.3425	2	4	0	4	17
	2	90	100	05F01	FLDCT	F	00020	0.3425	2	-2	0	-2	17
	3	90	100	05F01	FLDCT	F	00021	0.3425	2	0	0	0	17
	6	90	100	05F01	FLDCT	F	00022	0.3425	2	6	0	6	17
	17	90	100	05F01	FLDCT	F	00023	0.3425	2	27	0	27	17
	9	90	100	05F01	FLDCT	G	00003	0.3425	2	12	0	12	17
	13	90	100	05F01	FLDCT	G	00005	0.3425	2	19	0	19	17
	4	90	100	05F01	FLDCT	G	00006	0.3425	2	2	0	2	17
	4	90	100	05F01	FLDCT	G	00007	0.3425	2	2	0	2	17

Package 16 Removable Beta Contamination Package A0216 (Suspect Affected Areas Outside Process Room)

Desc.	Gross Counts	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Count Type	Row	Location	Efficiency (dpm/cpm)	Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Natural Background (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
	0	90	100	05F01	FLDCT	G	00008	0.3425	2	-6	0	-6	17
	12	90	100	05F01	FLDCT	G	00009	0.3425	2	18	0	18	17
	11	90	100	05F01	FLDCT	G	00010	0.3425	2	16	0	16	17
	10	90	100	05F01	FLDCT	G	00011	0.3425	2	14	0	14	17
	1	90	100	05F01	FLDCT	G	00012	0.3425	2	-4	0	-4	17
	2	90	100	05F01	FLDCT	G	00013	0.3425	2	-2	0	-2	17
	7	90	100	05F01	FLDCT	G	00014	0.3425	2	8	0	8	17
	5	90	100	05F01	FLDCT	G	00015	0.3425	2	4	0	4	17
	11	90	100	05F01	FLDCT	G	00016	0.3425	2	16	0	16	17
	7	90	100	05F01	FLDCT	G	00017	0.3425	2	8	0	8	17
	6	90	100	05F01	FLDCT	G	00018	0.3425	2	6	0	6	17
	3	90	100	05F01	FLDCT	G	00019	0.3425	2	0	0	0	17
	0	90	100	05F01	FLDCT	G	00020	0.3425	2	-6	0	-6	17
	2	90	100	05F01	FLDCT	G	00021	0.3425	2	-2	0	-2	17
	5	90	100	05F01	FLDCT	G	00022	0.3425	2	4	0	4	17
	4	90	100	05F01	FLDCT	H	00007	0.3425	2	2	0	1	17
	11	90	100	05F01	FLDCT	H	00008	0.3425	2	16	0	15	17
	2	90	100	05F01	FLDCT	H	00009	0.3425	2	-2	0	-2	17
	3	90	100	05F01	FLDCT	H	00010	0.3425	2	0	0	0	17
	4	90	100	05F01	FLDCT	H	00011	0.3425	2	2	0	2	17
	1	90	100	05F01	FLDCT	H	00012	0.3425	2	-4	0	-4	17
	2	90	100	05F01	FLDCT	H	00013	0.3425	2	-2	0	-2	17
	5	90	100	05F01	FLDCT	H	00014	0.3425	2	4	0	3	17
	4	90	100	05F01	FLDCT	H	00015	0.3425	2	2	0	2	17
	5	90	100	05F01	FLDCT	H	00016	0.3425	2	4	0	3	17
	8	90	100	05F01	FLDCT	H	00017	0.3425	2	10	0	10	17
	9	90	100	05F01	FLDCT	H	00018	0.3425	2	12	0	12	17
	8	90	100	05F01	FLDCT	H	00019	0.3425	2	10	0	9	17
	4	90	100	05F01	FLDCT	H	00020	0.3425	2	2	0	2	17
	4	90	100	05F01	FLDCT	H	00021	0.3425	2	2	0	2	17
	11	90	100	05F01	FLDCT	H	00022	0.3425	2	16	0	16	17
	5	90	100	05F01	FLDCT	I	00008	0.3425	2	4	0	4	17
	1	90	100	05F01	FLDCT	I	00009	0.3425	2	-4	0	-4	17
	5	90	100	05F01	FLDCT	I	00010	0.3425	2	4	0	4	17
	1	90	100	05F01	FLDCT	I	00011	0.3425	2	-4	0	-4	17
	4	90	100	05F01	FLDCT	I	00012	0.3425	2	2	0	2	17
	9	90	100	05F01	FLDCT	I	00013	0.3425	2	12	0	12	17
	4	90	100	05F01	FLDCT	I	00014	0.3425	2	2	0	2	17
	4	90	100	05F01	FLDCT	I	00015	0.3425	2	2	0	2	17
	27	90	100	05F01	FLDCT	I	00016	0.3425	2	47	0	47	17
	14	90	100	05F01	FLDCT	I	00017	0.3425	2	21	0	21	17
	8	90	100	05F01	FLDCT	I	00018	0.3425	2	10	0	10	17
	4	90	100	05F01	FLDCT	I	00019	0.3425	2	2	0	2	17
	6	90	100	05F01	FLDCT	I	00020	0.3425	2	6	0	6	17
	22	90	100	05F01	FLDCT	J	00007	0.3425	2	37	0	37	17
	7	90	100	05F01	FLDCT	J	00008	0.3425	2	8	0	8	17
	4	90	100	05F01	FLDCT	J	00009	0.3425	2	2	0	2	17
	1	90	100	05F01	FLDCT	J	00010	0.3425	2	-4	0	-4	17





## **Section 6**

### **Package 16 H-3 Removable Beta Contamination Summary Table (including lab reports)**



H-3 Removable Beta Contamination Summary Data Table PKG 16.xls

Carrier No.	CPM	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Row	Location	Beta Efficiency	Beta Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
5	30	60	100	04F01	E	00006	0.210	0.00	143	143	13
6	23	60	100	04F01	F	00007	0.152	0.00	152	152	18
7	24	60	100	04F01	H	00011	0.141	0.00	170	170	19
8	33	60	100	04F01	I	00009	0.175	0.00	188	188	15
9	33	60	100	04F01	L	00012	0.048	0.00	685	685	56
10	25	60	100	04F01	M	00010	0.152	0.00	165	165	18
11	39	60	100	04W01	A	00007	0.190	0.00	205	205	14
12	39	60	100	04W01	A	00015	0.226	0.00	172	172	12
13	39	60	100	04W01	B	00010	0.179	0.00	217	217	15
14	35	60	100	04W01	B	00021	0.224	0.00	156	156	12
15	29	60	100	04W02	A	00006	0.224	0.00	129	129	12
16	40	60	100	04W02	B	00003	0.239	0.00	168	168	11
17	42	60	100	04W03	A	00002	0.217	0.00	194	194	12
18	25	60	100	04W03	A	00009	0.280	0.00	89	89	10
19	28	60	100	04W03	B	00004	0.270	0.00	104	104	10
20	33	60	100	04S01	ZZZZZ	00003	0.095	0.00	349	349	29
21	39	60	100	04S01	ZZZZZ	00007	0.203	0.00	192	192	13
22	38	60	100	04S02	ZZZZZ	00001	0.217	0.00	175	175	12
23	31	60	100	04EQ1	ZZZZZ	00001	0.246	0.00	126	126	11
24	31	60	100	04EQ1	ZZZZZ	00005	0.341	0.00	91	91	8
25	52	60	100	04V01	ZZZZZ	00002	0.030	0.00	1760	1760	92
26	27	60	100	04V01	ZZZZZ	00005	0.020	0.00	1361	1361	137
27	30	60	100	04V02	ZZZZZ	00001	0.082	0.00	367	367	33
28	31	60	100	04V02	ZZZZZ	00004	0.154	0.00	202	202	18
1	20 32	60	100	05F01	B	00020	0.283	0.00	113	113	10
2	16 39	60	100	05F01	C	00016	0.179	0.00	217	217	15
3	02 43	60	100	05F01	D	00002	0.224	0.00	192	192	12
4	07 33	60	100	05F01	D	00007	0.186	0.00	178	178	15
5	21 35	60	100	05F01	D	00021	0.139	0.00	251	251	19
6	10 52	60	100	05F01	E	00010	0.294	0.00	177	177	9
7	1 34	60	100	05F01	F	00004	0.215	0.00	158	158	13
8	1 54	60	100	05F01	F	00013	0.264	0.00	204	204	10
9	09 37	60	100	05F01	G	00008	0.283	0.00	131	131	10
10	18 54	60	100	05F01	G	00018	0.177	0.00	305	305	15
11	22 36	60	100	05F01	G	00022	0.199	0.00	181	181	14
12	12 43	60	100	05F01	I	00014	0.159	0.00	270	270	17
13	14 49	60	100	05F01	J	00010	0.163	0.00	300	300	17

H-3 Removable Beta Contamination Summary Data Table PKG 16.xls

Carrier No.	CPM	Count Time (sec)	Sample Area (cm <sup>2</sup> )	Surface	Row	Location	Beta Efficiency	Beta Background (cpm)	Activity (dpm/100cm <sup>2</sup> )	Net Activity (dpm/100cm <sup>2</sup> )	MDA (dpm/100cm <sup>2</sup> )
14	42	60	100	05F01	J	00017	0.184	0.00	229	229	15
15	30	60	100	05F01	K	00014	0.179	0.00	167	167	15
16	31	60	100	05W01	A	00008	0.300	0.00	103	103	9
17	52	60	100	05W01	A	00024	0.262	0.00	199	199	10
18	31	60	100	05W01	A	00040	0.280	0.00	111	111	10
19	45	60	100	05W01	B	00016	0.326	0.00	138	138	8
20	42	60	100	05W01	B	00032	0.272	0.00	154	154	10
21	53	60	100	05W02	A	00010	0.356	0.00	149	149	8
22	35	60	100	05W02	A	00020	0.323	0.00	108	108	8
23	45	60	100	05W02	B	00005	0.359	0.00	125	125	8
24	28	60	100	05W02	B	00015	0.291	0.00	96	96	9
25	43	60	100	05S01	ZZZZZ	00002	0.338	0.00	127	127	8
26	29	60	100	05S01	ZZZZZ	00004	0.344	0.00	84	84	8
27	45	60	100	05S02	ZZZZZ	00002	0.300	0.00	150	150	9
28	37	60	100	05S02	ZZZZZ	00004	0.320	0.00	116	116	8
29	37	60	100	05S03	ZZZZZ	00002	0.236	0.00	157	157	11
30	28	60	100	05S03	ZZZZZ	00004	0.278	0.00	101	101	10
31	36	60	100	05S04	ZZZZZ	00002	0.305	0.00	118	118	9
32	42	60	100	05S04	ZZZZZ	00004	0.300	0.00	140	140	9
33	46	60	100	05S05	ZZZZZ	00006	0.254	0.00	181	181	11
34	34	60	100	05S05	ZZZZZ	00010	0.236	0.00	144	144	11
									# Measurements	95	
									Average	233	
									Maximum	1760	
									STD DEV	269	
									95% CL on Mean	296	

USER: 1 ID: BMEARS PRESET TIME: 1.00 THU 05 JUL 2001 12:42  
 PLE REPEAT: 1 CYCLE REPEAT: 1 SDR: N RS232: N  
 #1 1 ADD: N QDF: N RCM: N 2 PHASE MONITOR: N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKB SUB: 0.00 BKB 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 0 UL: 670 2SIGMA: 2.00 BKB SUB: 0.00 BKB 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 0 UL: 1000 2SIGMA: 2.00 BKB SUB: 0.00 BKB 2SIG: 0.00 LSR: 0

SINGLE LABEL DPM, SET UP ON SUN 24 JUN 2001 16:19  
 UNKNOWN ID: BMEARS UNKNOWN REPLICATES: 1  
 UNKNOWN NORM FACTOR: B 1.00000 UNKNOWN UNITS: DPM  
 QUENCH MODE: H CALCULATE COEFF: N HALF LIFE(DAYS): N  
 QUENCH COEFF A: 4.328559 B: -0.0051270 C: -0.0000122 D: -0.0000000212  
 STANDARD ID:  
 QUENCH LIMITS LOW: 90.00 HIGH: 390.0

BAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	B- 1	1	46.00	29.49	1.00	1.31	160.0	
		2	76.00	22.94				
		3	111.00	18.98				
								%EFF: 22.40 ISO1 DPM : 205.3527
2	B- 2	1	49.00	28.57	1.00	2.80	168.0	
		2	86.00	21.57				
		3	113.00	18.81				
								%EFF: 20.54 ISO1 DPM : 238.5611
3	B- 3	1	37.00	32.88	1.00	4.28	169.0	
		2	67.00	24.43				
		3	93.00	21.95				
								%EFF: 20.31 ISO1 DPM : 182.1381
4	B- 4	1	43.00	30.50	1.00	5.77	181.0	
		2	84.00	21.82				
		3	113.00	18.81				
								%EFF: 17.73 ISO1 DPM : 242.5455
5	B- 5	1	39.00	32.03	1.00	7.25	317.0	
		2	73.00	23.41				
		3	90.00	22.36				
								%EFF: 2.230 ISO1 DPM : 1748.869
6	B- 6	1	28.00	37.80	1.00	8.73	213.0	
		2	68.00	24.25				
		3	82.00	22.09				
								%EFF: 11.92 ISO1 DPM : 234.9185
7	B- 7	1	33.00	34.82	1.00	10.22	241.0	
		2	75.00	23.09				
		3	94.00	20.63				
								%EFF: 8.066 ISO1 DPM : 409.1418
8	B- 8	1	57.00	26.49	1.00	11.68	174.0	
		2	94.00	20.63				
		3	117.00	18.49				
								%EFF: 19.21 ISO1 DPM : 296.7252
9	B- 9	1	44.00	30.15	1.00	13.17	215.0	
		2	88.00	21.32				
		3	103.00	19.71				
								%EFF: 11.61 ISO1 DPM : 379.0811

Performed By: [Signature] Date: 7/5/01  
 Reviewed By: [Signature] Date: 7/6/01

ERR

SAM	POS	CH	CPM	2519%	TIME	EL TIME	AVG H#	
10	8-10	1	35.00	33.91	1.00	14.66	125.0	
		2	45.00	24.91				
		3	91.00	20.97				
								%EFF:31.68 ISO1 DPM :110.4831
11	8-11	1	42.00	30.96	1.00	16.14	231.0	
		2	38.00	24.25				
		3	99.00	21.20				
								%EFF:9.319 ISO1 DPM :450.7612
12	8-12	1	28.00	37.80	1.00	17.63	237.0	
		2	69.00	24.08				
		3	85.00	21.69				
								%EFF:8.550 ISO1 DPM :327.4702
13	3- 1	1	27.00	38.49	1.00	19.16	227.0	
		2	63.00	25.20				
		3	80.00	22.36				
								%EFF:9.856 ISO1 DPM :273.9407
14	3- 2	1	34.00	34.30	1.00	20.65	136.0	
		2	65.00	24.81				
		3	84.00	21.82				
								%EFF:28.57 ISO1 DPM :119.0113
15	3- 3	1	29.00	37.14	1.00	22.13	140.0	
		2	56.00	26.73				
		3	85.00	21.69				
								%EFF:27.48 ISO1 DPM :105.5284

Performed By: *[Signature]* Date: 7/5/01  
 Reviewed By: *[Signature]* Date: 7/6/01

USER: 1 ID: SMEARS PRESET TIME: 1.00 TUE 03 JUL 2001 14:30  
 PLE REPEAT: 1 CYCLE REPEAT: 1 SCR: N RS232: N  
 RPT 1 ADD: N QCF: N RCM: N 2 PHASE MONITOR: N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 0 UL: 670 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 0 UL: 1000 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0

SINGLE LABEL DPM, SET UP ON SUN 24 JUN 2001 16:19  
 UNKNOWN ID: SMEARS UNKNOWN REPLICATES: 1  
 UNKNOWN NORM FACTOR: 1.00000 UNKNOWN UNITS: DPM  
 QUENCH MODE: H CALCULATE COEFF: N HALF LIFE (DAYS): N  
 QUENCH COEFF A: 4.328559 B: -0.0051270 C: -0.0000122 D: -0.0000000212  
 STANDARD ID:  
 QUENCH LIMITS LOW: 90.00 HIGH: 390.0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	B- 1	1	45.00	29.81	1.00	1.32	180.0	
		2	67.00	24.43				
		3	93.00	20.74				
								%EFF: 17.94 ISO1 DPM : 250.8986
2	B- 2	1	41.00	31.23	1.00	2.81	203.0	
		2	83.00	21.95				
		3	96.00	20.41				
								%EFF: 13.57 ISO1 DPM : 302.1925
3	B- 3	1	53.00	27.47	1.00	4.29	149.0	
		2	80.00	22.36				
		3	105.00	19.52				
								%EFF: 25.12 ISO1 DPM : 210.9885
4	B- 4	1	31.00	35.92	1.00	5.77	121.0	
		2	61.00	25.61				
		3	85.00	21.69				
								%EFF: 32.85 ISO1 DPM : 94.36205
5	B- 5	1	43.00	30.50	1.00	7.26	130.0	
		2	68.00	24.25				
		3	97.00	20.31				
								%EFF: 30.24 ISO1 DPM : 142.1783
6	B- 6	1	38.00	32.44	1.00	8.74	133.0	
		2	67.00	24.43				
		3	105.00	19.52				
								%EFF: 29.40 ISO1 DPM : 129.2529
7	B- 7	1	37.00	32.88	1.00	10.23	120.0	
		2	63.00	25.20				
		3	89.00	21.20				
								%EFF: 33.15 ISO1 DPM : 111.6177
8	B- 8	1	48.00	28.87	1.00	11.71	128.0	
		2	77.00	22.79				
		3	104.00	19.61				
								%EFF: 30.81 ISO1 DPM : 155.7754
9	B- 9	1	44.00	29.49	1.00	13.20	130.0	
		2	75.00	23.09				
		3	94.00	20.41				
								%EFF: 30.24 ISO1 DPM : 152.0977

Performed By: Mila Date: 7/3/01

Reviewed By: PLO Date: 7/16/01



	FDS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
10	B-10	1	35.00	33.81	1.00	14.68	161.0	
		2	69.00	24.08				
		3	92.00	20.20				
								%EFF:22.16 ISO1 DPM :157.9247
11	B-11	1	37.00	32.88	1.00	16.18	140.0	
		2	65.00	24.81				
		3	91.00	20.77				
								%EFF:27.48 ISO1 DPM :134.6397
12	B-12	1	41.00	31.23	1.00	17.67	154.0	
		2	68.00	24.25				
		3	100.00	20.00				
								%EFF:23.86 ISO1 DPM :171.8302
13	3- 1	1	43.00	30.50	1.00	19.21	148.0	
		2	70.00	23.90				
		3	104.00	19.61				
								%EFF:25.38 ISO1 DPM :169.4500
14	3- 2	1	41.00	31.23	1.00	20.69	116.0	
		2	71.00	23.74				
		3	100.00	20.00				
								%EFF:34.35 ISO1 DPM :119.3625
15	3- 3	1	33.00	34.82	1.00	22.18	117.0	
		2	62.00	25.40				
		3	93.00	20.74				
								%EFF:34.05 ISO1 DPM :96.92548
16	3- 4	1	42.00	30.86	1.00	23.67	138.0	
		2	67.00	24.43				
		3	93.00	20.74				
								%EFF:28.02 ISO1 DPM :149.8840
17	3- 5	1	37.00	32.88	1.00	25.15	132.0	
		2	65.00	24.81				
		3	97.00	20.31				
								%EFF:29.68 ISO1 DPM :124.6645
18	3- 6	1	36.00	33.33	1.00	26.63	115.0	
		2	72.00	23.57				
		3	98.00	20.20				
								%EFF:34.65 ISO1 DPM :103.8889

Performed By: *Mile* Date: 7/3/01

Reviewed By: *Solano* Date: 7/16/01

UCR: 1 ID: SMEARS PRESET TIME: 1.00 MON 09 JUL 2001 09:48  
 PLE REPEAT: 1 CYCLE REPEAT: 1 SCR: N RS232: N  
 H#: 1 AGC: N QCF: N RCM: N 2 PHASE MONITOR: N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKB SUB: 0.00 BKB 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 0 UL: 670 2SIGMA: 2.00 BKB SUB: 0.00 BKB 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 0 UL: 1000 2SIGMA: 2.00 BKB SUB: 0.00 BKB 2SIG: 0.00 LSR: 0

SINGLE LABEL DPM, SET UP ON SUN 24 JUN 2001 16:19  
 UNKNOWN ID: SMEARS UNKNOWN REPLICATES: 1  
 UNKNOWN NORM FACTOR: Q 1.00000 UNKNOWN UNITS: DPM  
 QUENCH MODE: H CALCULATE COEFF: N HALF LIFE(DAYS): N  
 QUENCH COEFF A: 4.328559 B: -0.0051270 C: -0.0000122 D: -0.0000000212  
 STANDARD ID:  
 QUENCH LIMITS LOW: 90.00 HIGH: 390.0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	8-	1	35.00	33.81	1.00	1.30	211.0	
		2	59.00	26.04				
		3	82.00	22.09				
								%EFF: 12.24 ISO1 DPM : 286.0218
2	8-	1	30.00	36.51	1.00	2.78	206.0	
		2	54.00	27.22				
		3	71.00	23.74				
								%EFF: 13.06 ISO1 DPM : 229.7563
3	8-	1	28.00	37.80	1.00	4.27	177.0	
		2	60.00	25.82				
		3	83.00	21.95				
								%EFF: 18.57 ISO1 DPM : 150.8173
4	8-	1	34.00	34.30	1.00	5.75	204.0	
		2	70.00	23.90				
		3	80.00	22.36				
								%EFF: 13.40 ISO1 DPM : 253.8076
5	8-	1	30.00	36.51	1.00	7.23	166.0	
		2	64.00	25.00				
		3	86.00	21.57				
								%EFF: 21.00 ISO1 DPM : 142.8858
6	8-	1	23.00	41.70	1.00	8.72	194.0	
		2	58.00	26.26				
		3	78.00	22.65				
								%EFF: 15.18 ISO1 DPM : 151.5165
7	8-	1	24.00	40.82	1.00	10.20	200.0	
		2	49.00	28.57				
		3	68.00	24.25				
								%EFF: 14.09 ISO1 DPM : 170.3169
8	8-	1	33.00	34.82	1.00	11.68	182.0	
		2	59.00	26.04				
		3	72.00	23.57				
								%EFF: 17.52 ISO1 DPM : 188.3218
9	8-	1	33.00	34.82	1.00	13.17	274.0	
		2	60.00	25.82				
		3	75.00	23.09				
								%EFF: 4.815 ISO1 DPM : 685.3615

Performed By: Miles Date: 7/9/01  
 Reviewed By: Plaps Date: 7/10/01

ERR

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	
10	8-10	1	25.00	40.00	1.00	14.65	194.0	
		2	54.00	27.22				
		3	71.00	23.74				
								%EFF:15.18 ISD1 DPM :164.6919
11	8-11	1	39.00	32.03	1.00	16.14	175.0	
		2	74.00	23.25				
		3	100.00	20.00				
								%EFF:18.99 ISD1 DPM :205.3353
12	8-12	1	39.00	32.03	1.00	17.63	159.0	
		2	64.00	25.00				
		3	81.00	22.22				
								%EFF:22.64 ISD1 DPM :172.2608
13	3- 1	1	39.00	32.03	1.00	19.17	180.0	
		2	84.00	21.82				
		3	99.00	20.10				
								%EFF:17.94 ISD1 DPM :217.4454
14	3- 2	1	35.00	33.81	1.00	20.64	160.0	
		2	57.00	26.49				
		3	70.00	23.90				
								%EFF:22.40 ISD1 DPM :156.2466
15	3- 3	1	29.00	37.14	1.00	22.12	160.0	
		2	64.00	25.00				
		3	84.00	21.82				
								%EFF:22.40 ISD1 DPM :129.4615
16	3- 4	1	40.00	31.62	1.00	23.60	154.0	
		2	66.00	24.62				
		3	95.00	20.52				
								%EFF:23.86 ISD1 DPM :167.6393
17	3- 5	1	42.00	30.86	1.00	25.08	163.0	
		2	69.00	24.08				
		3	100.00	20.00				
								%EFF:21.69 ISD1 DPM :193.6266
18	3- 6	1	25.00	40.00	1.00	26.57	138.0	
		2	50.00	28.28				
		3	72.00	23.57				
								%EFF:28.02 ISD1 DPM :89.21666
19	3- 7	1	28.00	37.80	1.00	28.05	142.0	
		2	64.00	25.00				
		3	93.00	20.74				
								%EFF:26.95 ISD1 DPM :103.9127
20	3- 8	1	33.00	34.82	1.00	29.52	230.0	
		2	59.00	26.04				
		3	67.00	24.43				
								%EFF:9.450 ISD1 DPM :349.2002
21	3- 9	1	39.00	32.03	1.00	31.01	169.0	
		2	63.00	25.20				
		3	86.00	21.57				
								%EFF:20.31 ISD1 DPM :191.9834
22	3-10	1	38.00	32.44	1.00	32.50	163.0	
		2	61.00	25.61				
		3	91.00	20.97				
								%EFF:21.69 ISD1 DPM :175.1859

Performed By: [Signature] Date: 7/9/01  
Reviewed By: [Signature] Date: 7/16/01

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
23	3-11	1	31.00	35.92	1.00	33.98	151.0	
		2	64.00	25.00				
		3	81.00	22.22				
								%EFF:24.61 ISO1 DPM :125.9573
24	3-12	1	31.00	35.92	1.00	35.47	117.0	
		2	74.00	23.25				
		3	91.00	20.97				
								%EFF:34.05 ISO1 DPM :91.05121
25	8- 1	1	52.00	27.74	1.00	37.13	302.0	
		2	79.00	22.50				
		3	90.00	21.08				
								%EFF:2.955 ISO1 DPM :1759.570
26	8- 2	1	27.00	38.49	1.00	38.78	323.0	
		2	47.00	29.17				
		3	55.00	26.97				
								%EFF:1.984 ISO1 DPM :1360.614
27	8- 3	1	30.00	36.51	1.00	40.27	240.0	
		2	69.00	24.08				
		3	84.00	21.82				
								%EFF:8.185 ISO1 DPM :366.5305
28	8- 4	1	31.00	35.92	1.00	41.76	193.0	
		2	56.00	26.73				
		3	66.00	24.62				
								%EFF:15.37 ISO1 DPM :201.7341

Performed By: *Miller* Date: 7/9/01  
 Reviewed By: *Polaps* Date: 7/16/01

USER: 1 ID:SMEARS PRESET TIME: 1.00 MON 09 JUL 2001 15:46  
 PLE REPEAT: 1 CYCLE REPEAT: 1 SCR:N RS232:N  
 1 ADC:N QCF:N RCM:N 2 PHASE MONITOR:N  
 CHANNEL 1-LL: 0 UL: 400 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 2-LL: 0 UL: 670 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0  
 CHANNEL 3-LL: 0 UL:1000 2SIGMA: 2.00 BKG SUB: 0.00 BKG 2SIG: 0.00 LSR: 0

SINGLE LABEL DPM, SET UP ON SUN 24 JUN 2001 16:19  
 UNKNOWN ID:SMEARS UNKNOWN REPLICATES: 1  
 UNKNOWN NORM FACTOR:0 1.00000 UNKNOWN UNITS:DPM  
 QUENCH MODE:H CALCULATE COEFF:N HALF LIFE(DAYS):N  
 QUENCH COEFF A: 4.328559 B:-0.0051270 C:-0.0000122 D:-0.0000000212  
 STANDARD ID:  
 QUENCH LIMITS LOW:90.00 HIGH:390.0

SAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
1	8- 1	1	32.00	35.36	1.00	1.32	137.0	
		2	63.00	25.20				
		3	82.00	22.09				
								%EFF:28.29 ISO1 DPM :113.0963
2	8- 2	1	39.00	32.03	1.00	2.80	180.0	
		2	72.00	23.57				
		3	86.00	21.57				
								%EFF:17.94 ISO1 DPM :217.4454
3	8- 3	1	43.00	30.50	1.00	4.29	160.0	
		2	63.00	25.20				
		3	80.00	22.36				
								%EFF:22.40 ISO1 DPM :191.9602
4	8- 4	1	33.00	34.82	1.00	5.78	177.0	
		2	65.00	24.81				
		3	86.00	21.57				
								%EFF:18.57 ISO1 DPM :177.7489
5	8- 5	1	35.00	33.81	1.00	7.27	201.0	
		2	64.00	25.00				
		3	88.00	21.32				
								%EFF:13.92 ISO1 DPM :251.5247
6	8- 6	1	52.00	27.74	1.00	8.77	133.0	
		2	84.00	21.82				
		3	96.00	20.41				
								%EFF:29.40 ISO1 DPM :176.8724
7	8- 7	1	34.00	34.30	1.00	10.24	164.0	
		2	58.00	26.26				
		3	74.00	23.25				
								%EFF:21.46 ISO1 DPM :158.4505
8	8- 8	1	54.00	27.22	1.00	11.73	144.0	
		2	81.00	22.22				
		3	101.00	19.90				
								%EFF:26.42 ISO1 DPM :204.4169
9	8- 9	1	37.00	32.88	1.00	13.22	137.0	
		2	66.00	24.62				
		3	82.00	22.09				
								%EFF:28.29 ISO1 DPM :130.7676

Performed By: *[Signature]* Date: 7/10/01  
 Reviewed By: *[Signature]* Date: 7/16/01

ERR

FORM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	
10	8-10	1	54.00	27.22	1.00	14.71	181.0	
		2	79.00	22.50				
		3	99.00	20.10				
								%EFF:17.73 ISO1 DPM :304.5920
11	8-11	1	36.00	33.33	1.00	16.19	171.0	
		2	70.00	23.90				
		3	77.00	22.79				
								%EFF:19.87 ISO1 DPM :181.1975
12	8-12	1	43.00	30.50	1.00	17.68	190.0	
		2	76.00	22.94				
		3	98.00	20.20				
								%EFF:15.94 ISO1 DPM :269.8239
13	3- 1	1	49.00	28.57	1.00	19.23	188.0	
		2	83.00	21.95				
		3	113.00	18.81				
								%EFF:16.32 ISO1 DPM :300.1764
14	3- 2	1	42.00	30.86	1.00	20.71	178.0	
		2	77.00	22.79				
		3	92.00	20.85				
								%EFF:18.35 ISO1 DPM :228.8345
15	3- 3	1	30.00	36.51	1.00	22.18	180.0	
		2	64.00	25.00				
		3	82.00	22.09				
								%EFF:17.94 ISO1 DPM :167.2657
16	3- 4	1	31.00	35.92	1.00	23.67	131.0	
		2	49.00	28.57				
		3	72.00	23.57				
								%EFF:29.96 ISO1 DPM :103.4679
17	3- 5	1	52.00	27.74	1.00	25.16	145.0	
		2	87.00	21.44				
		3	111.00	18.98				
								%EFF:26.15 ISO1 DPM :198.8211
18	3- 6	1	31.00	35.92	1.00	26.65	138.0	
		2	64.00	25.00				
		3	105.00	19.52				
								%EFF:28.02 ISO1 DPM :110.6287
19	3- 7	1	45.00	29.81	1.00	28.14	122.0	
		2	81.00	22.22				
		3	106.00	19.43				
								%EFF:32.56 ISO1 DPM :138.2200
20	3- 8	1	42.00	30.86	1.00	29.63	141.0	
		2	67.00	24.43				
		3	99.00	20.10				
								%EFF:27.21 ISO1 DPM :154.3418
21	3- 9	1	53.00	27.47	1.00	31.12	112.0	
		2	73.00	23.41				
		3	105.00	19.52				
								%EFF:35.57 ISO1 DPM :149.0006
22	3-10	1	35.00	33.81	1.00	32.62	123.0	
		2	69.00	24.08				
		3	92.00	20.85				
								%EFF:32.26 ISO1 DPM :108.4845

Performed By: [Signature] Date: 7/10/01  
 Reviewed By: [Signature] Date: 7/16/01

PAM	POS	CH	CPM	2SIG%	TIME	EL TIME	AVG H#	ERR
23	3-11	1	45.00	29.81	1.00	34.10	111.0	
		2	77.00	22.79				
		3	111.00	18.98				
								%EFF:35.88 ISO1 DPM :125.4214
24	3-12	1	28.00	37.80	1.00	35.58	134.0	
		2	52.00	27.74				
		3	80.00	22.36				
								%EFF:29.12 ISO1 DPM :96.14989
25	8- 1	1	43.00	30.50	1.00	37.14	118.0	
		2	63.00	25.20				
		3	89.00	21.20				
								%EFF:33.75 ISO1 DPM :127.4212
26	8- 2	1	29.00	37.14	1.00	38.63	116.0	
		2	45.00	29.81				
		3	77.00	22.79				
								%EFF:34.35 ISO1 DPM :84.42710
27	8- 3	1	45.00	29.81	1.00	40.12	131.0	
		2	74.00	23.25				
		3	110.00	19.07				
								%EFF:29.96 ISO1 DPM :150.1953
28	8- 4	1	37.00	32.88	1.00	41.61	124.0	
		2	57.00	26.49				
		3	85.00	21.69				
								%EFF:31.97 ISO1 DPM :115.7327
29	8- 5	1	37.00	32.88	1.00	43.09	155.0	
		2	69.00	24.08				
		3	87.00	21.44				
								%EFF:23.61 ISO1 DPM :156.6902
30	8- 6	1	28.00	37.80	1.00	44.59	139.0	
		2	60.00	25.82				
		3	83.00	21.95				
								%EFF:27.75 ISO1 DPM :100.8986
31	8- 7	1	36.00	33.33	1.00	46.07	129.0	
		2	59.00	26.04				
		3	81.00	22.22				
								%EFF:30.53 ISO1 DPM :117.9240
32	8- 8	1	42.00	30.86	1.00	47.57	131.0	
		2	70.00	23.90				
		3	92.00	20.85				
								%EFF:29.96 ISO1 DPM :140.1823
33	8- 9	1	46.00	29.49	1.00	49.06	148.0	
		2	82.00	22.09				
		3	99.00	20.10				
								%EFF:25.38 ISO1 DPM :181.2721
34	8-10	1	34.00	34.30	1.00	50.55	155.0	
		2	68.00	24.25				
		3	100.00	20.00				
								%EFF:23.61 ISO1 DPM :143.9856

Performed By: *[Signature]* Date: 7/10/01  
Reviewed By: *[Signature]* Date: 7/16/01

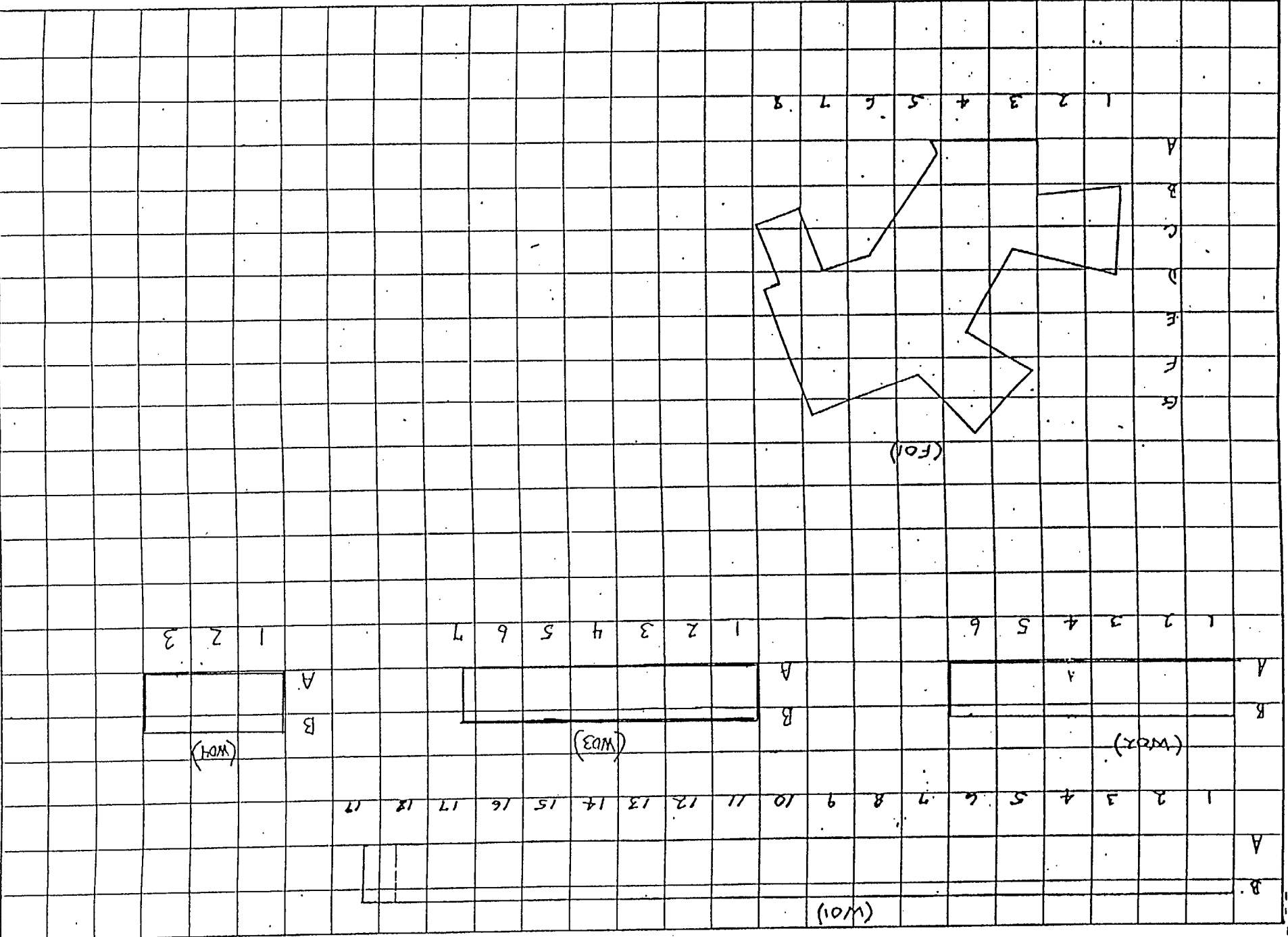
## **Section 7**

### **Package 16 Helium Rupture Disk Chamber Room Direct and Removable Beta Results**



Area 1 - Rx Basement Helium Rupture Disk Chamber

AO216



The "net activity" (dpm/100 cm<sup>2</sup>) presented on the following download report is raw data. It has not been corrected, if required, for the natural radioactivity that may be present in materials of construction. In addition the background used to correct for ambient exposure rates, instrument noise, etc. may need to be adjusted if more than one surface type was included in the download.

See the enclosed spreadsheets for the corrected results.

File #166

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Download Print  
 Technician: Name: D. Schumaker Signature: [Signature] Station: 2  
 File: 166  
 Serial No. Verification: Model 2350:  Detector:  Problems:  (See Comments)

Survey Technician(s):  
 Print Name: RA LEIGH User ID RAL 7103 Signature: [Signature] Date: 7/5/01  
 Print Name: D Schumaker User ID DS 4133 Signature: [Signature] Date: 7/5/01

Survey Unit Description: A0216: Rupture Disk Chamber  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)

Instrument Model and Serial No.: Model 2350  Model 2350-1 : 129433

Instrument and Detector Calibration Due Dates: Survey Meter: 10-24-01 Detector: 12-21-01

Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain):

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input checked="" type="checkbox"/> Beta $\beta$	<u>095080</u>	43-68B	<u>0.208</u>	<u>5243/441</u>	<u>166</u>	<u>166</u>
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input type="checkbox"/> Gamma $\gamma$		44-2	N/A			

Local Area Background Measurements						MEAN Value in cpm	
$\beta$ Beta	<u>16099</u>	<u>26240</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>617</u>
$\alpha$ Alpha	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

GTS DURATEK RADIOLOGICAL ENGINEERING & FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

Direct Beta Survey Report, dpm/100 cm<sup>2</sup>

File Number: 166		Survey Description: A0216: RUPTURE DISK CHAMBER		
Survey Reason: TERMINATION		User ID: RAL7103	Technician name: R.A. Leigh	
Instrument Model: 2350-1	S/N: 129433	Calibration Due: 10/24/01	Group: 2	
Detector Model: 43-68	Detector S/N: 095080	Type: 126 cm <sup>2</sup> Gas Proportional Detector		
Background: 617 cpm	Beta Efficiency: .208	Survey Date: 7/05/01		

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

Technician Review:  
 I have reviewed this cover sheet and 5 pages of the report, 0 pages of comments, and 1 graph.  
 I performed this survey: RA. LEIGH / *RAZL* Date: 7-5-01  
Print name Signature  
 and,  
 I performed this survey: D. SCHUMAKER / *AS* Date: 7/5/01  
Print name Signature

Corrections and Reasons:

Comment Resolution:

Survey Reviewed and Approved by: PAUL JONES / *Plajo* Date: 7/18/01  
Print name Signature

Survey Date: 7/05/01  
File: 166

Report Date: 7/05/01

Page: 1  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	01C01	TAT01	02200		Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B0002	A	00003	111	20	325	1366	
FLDCT	B0002	A	00004	112	20	275	794	
FLDCT	B0002	A	00005	113	20	270	736	
FLDCT	B0002	B	00001	114	20	285	908	
FLDCT	B0002	B	00002	115	20	305	1137	
FLDCT	B0002	B	00003	116	20	284	897	
FLDCT	B0002	B	00004	117	20	280	851	
FLDCT	B0002	B	00005	118	20	348	1629	
FLDCT	B0002	B	00006	119	20	286	920	
FLDCT	B0002	C	00001	120	20	284	897	
FLDCT	B0002	C	00002	121	20	274	782	
FLDCT	B0002	C	00003	122	20	334	1469	
FLDCT	B0002	C	00004	123	20	306	1149	
FLDCT	B0002	C	00005	124	20	297	1045	
FLDCT	B0002	C	00006	125	20	249	496	
FLDCT	B0002	C	00007	126	20	325	1366	
FLDCT	B0002	C	00008	127	20	345	1595	
FLDCT	B0002	D	00001	128	20	344	1583	
FLDCT	B0002	D	00004	129	20	299	1068	
FLDCT	B0002	D	00005	130	20	253	542	
FLDCT	B0002	D	00006	131	20	257	588	
FLDCT	B0002	D	00007	132	20	285	908	
FLDCT	B0002	D	00008	133	20	264	668	
FLDCT	B0002	E	00004	134	20	287	931	
FLDCT	B0002	E	00005	135	20	301	1091	
FLDCT	B0002	E	00006	136	20	268	714	
FLDCT	B0002	E	00007	137	20	253	542	
FLDCT	B0002	E	00008	138	20	287	931	
FLDCT	B0002	F	00003	139	20	289	954	
FLDCT	B0002	F	00004	140	20	277	817	
FLDCT	B0002	F	00005	141	20	300	1080	
FLDCT	B0002	F	00006	142	20	297	1045	
FLDCT	B0002	F	00007	143	20	278	828	
FLDCT	B0002	F	00008	144	20	315	1252	
FLDCT	B0002	G	00004	145	20	314	1240	
FLDCT	B0002	G	00007	146	20	313	1229	
FLDCT	B0002	G	00003	147	20	288	942	

Group Average: 1000

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	01F01	TAT01	02200		Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B0002	ZZZZZ	00000	4	600	6099	-27	
FLDBK	B0002	ZZZZZ	00000	148	600	6244	28	

Group Average: 1

FLDCT	B0002	A	00003	5	20	227	244	
FLDCT	B0002	A	00004	6	20	255	565	
FLDCT	B0002	A	00005	7	20	238	370	
FLDCT	B0002	B	00001	8	20	283	885	
FLDCT	B0002	B	00002	9	20	263	656	
FLDCT	B0002	B	00003	10	20	258	599	
FLDCT	B0002	B	00004	11	20	279	839	
FLDCT	B0002	B	00005	12	20	228	256	
FLDCT	B0002	B	00006	13	20	286	920	
FLDCT	B0002	C	00001	14	20	259	611	

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 7/05/01  
File: 166

Report Date: 7/05/01

Page: 2  
Station: 2

Comments

Survey Code	L1 A0216	L2 01F01	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/21/01
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L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDCT	B0002	C	00002	15	20	241	404	
FLDCT	B0002	C	00003	16	20	238	370	
FLDCT	B0002	C	00004	17	20	254	553	
FLDCT	B0002	C	00005	18	20	249	496	
FLDCT	B0002	C	00006	19	20	295	1023	
FLDCT	B0002	C	00007	20	20	294	1011	
FLDCT	B0002	C	00008	21	20	314	1240	
FLDCT	B0002	D	00001	22	20	283	885	
FLDCT	B0002	D	00004	23	20	248	485	
FLDCT	B0002	D	00005	24	20	244	439	
FLDCT	B0002	D	00006	25	20	249	496	
FLDCT	B0002	D	00007	26	20	315	1252	
FLDCT	B0002	D	00008	27	20	345	1595	
FLDCT	B0002	E	00004	28	20	307	1160	
FLDCT	B0002	E	00005	29	20	257	588	
FLDCT	B0002	E	00006	30	20	274	782	
FLDCT	B0002	E	00007	31	20	267	702	
FLDCT	B0002	E	00008	32	20	259	611	
FLDCT	B0002	F	00003	33	20	259	611	
FLDCT	B0002	F	00004	34	20	281	862	
FLDCT	B0002	F	00005	35	20	218	141	
FLDCT	B0002	F	00006	36	20	289	954	
FLDCT	B0002	F	00007	37	20	269	725	
FLDCT	B0002	F	00008	38	20	320	1309	
FLDCT	B0002	G	00003	39	20	284	897	
FLDCT	B0002	G	00004	40	20	247	473	
FLDCT	B0002	G	00007	41	20	316	1263	

Group Average: 737

Survey Code	L1 A0216	L2 01W01	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/21/01
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L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDCT	B0002	A	00001	42	20	281	862	
FLDCT	B0002	A	00002	43	20	259	611	
FLDCT	B0002	A	00003	44	20	261	633	
FLDCT	B0002	A	00004	45	20	252	530	
FLDCT	B0002	A	00005	46	20	279	839	
FLDCT	B0002	A	00006	47	20	260	622	
FLDCT	B0002	A	00007	48	20	261	633	
FLDCT	B0002	A	00008	49	20	277	817	
FLDCT	B0002	A	00009	50	20	236	347	
FLDCT	B0002	A	00010	51	20	236	347	
FLDCT	B0002	A	00011	52	20	245	450	
FLDCT	B0002	A	00012	53	20	294	1011	
FLDCT	B0002	A	00013	54	20	257	588	
FLDCT	B0002	A	00014	55	20	263	656	
FLDCT	B0002	A	00015	56	20	295	1023	
FLDCT	B0002	A	00016	57	20	236	347	
FLDCT	B0002	A	00017	58	20	275	794	
FLDCT	B0002	A	00018	59	20	282	874	
FLDCT	B0002	A	00019	60	20	304	1126	
FLDCT	B0002	B	00001	61	20	259	611	
FLDCT	B0002	B	00002	62	20	249	496	
FLDCT	B0002	B	00003	63	20	249	496	
FLDCT	B0002	B	00004	64	20	252	530	
FLDCT	B0002	B	00005	65	20	305	1137	
FLDCT	B0002	B	00006	66	20	262	645	

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 7/05/01  
File: 166

Report Date: 7/05/01

Page: 3  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	01W01	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B0002	B	00007	67	20	246	462	
FLDCT	B0002	B	00008	68	20	272	759	
FLDCT	B0002	B	00009	69	20	273	771	
FLDCT	B0002	B	00010	70	20	267	702	
FLDCT	B0002	B	00011	71	20	263	656	
FLDCT	B0002	B	00012	72	20	271	748	
FLDCT	B0002	B	00013	73	20	247	473	
FLDCT	B0002	B	00014	74	20	279	839	
FLDCT	B0002	B	00015	75	20	258	599	
FLDCT	B0002	B	00016	76	20	279	839	
FLDCT	B0002	B	00017	77	20	300	1080	
FLDCT	B0002	B	00018	78	20	274	782	
FLDCT	B0002	B	00019	79	20	252	530	

Group Average: 691

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	01W02	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B0002	A	00001	80	20	256	576	
..DCT	B0002	A	00002	81	20	273	771	
..DCT	B0002	A	00003	82	20	285	908	
FLDCT	B0002	A	00004	83	20	329	1412	
FLDCT	B0002	A	00005	84	20	327	1389	
FLDCT	B0002	A	00006	85	20	305	1137	
FLDCT	B0002	B	00001	86	20	278	828	
FLDCT	B0002	B	00002	87	20	298	1057	
FLDCT	B0002	B	00003	88	20	266	691	
FLDCT	B0002	B	00004	89	20	333	1458	
FLDCT	B0002	B	00005	90	20	261	633	
FLDCT	B0002	B	00006	91	20	280	851	

Group Average: 976

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	01W03	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B0002	A	00001	92	20	282	874	
FLDCT	B0002	A	00002	93	20	259	611	
FLDCT	B0002	A	00003	94	20	276	805	
FLDCT	B0002	A	00004	95	20	275	794	
FLDCT	B0002	A	00005	96	20	263	656	
FLDCT	B0002	A	00006	97	20	271	748	
FLDCT	B0002	A	00007	98	20	295	1023	
FLDCT	B0002	B	00002	99	20	283	885	
FLDCT	B0002	B	00003	100	20	270	736	
FLDCT	B0002	B	00004	101	20	275	794	
FLDCT	B0002	B	00005	102	20	295	1023	
..DCT	B0002	B	00006	103	20	305	1137	
..DCT	B0002	B	00007	104	20	295	1023	

Survey Date: 7/05/01  
File: 166

Report Date: 7/05/01

Page: 4  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	01W03	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
Group Average:							854	

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	01W04	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B0002	A	00001	105	20	261	633	
FLDCT	B0002	A	00002	106	20	276	805	
FLDCT	B0002	A	00003	107	20	253	542	
FLDCT	B0002	B	00001	108	20	272	759	
FLDCT	B0002	B	00002	109	20	271	748	
FLDCT	B0002	B	00003	110	20	259	611	
Group Average:							683	

Survey Code	L1	L2	L3	L4	Setup Number 0
	ZZZZZ	EZ260	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
PRB00	ZZZZZ	ZZZZZ	00000	1	60	5653	19216	*
PRB00	ZZZZZ	ZZZZZ	00000	2	60	5945	20330	*
PRB00	ZZZZZ	ZZZZZ	00000	3	60	5611	19055	*
Group Average:							19533	
PTB00	ZZZZZ	ZZZZZ	00000	150	60	5879	20078	*
PTB00	ZZZZZ	ZZZZZ	00000	151	60	6030	20654	*
PTB00	ZZZZZ	ZZZZZ	00000	152	60	6082	20852	*
Group Average:							20528	

Survey Code	L1	L2	L3	L4	Setup Number 0
	ZZZZZ	ZZZZZ	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
PRBBK	ZZZZZ	ZZZZZ	00000	0	600	3929	-855	
Group Average:							-855	
PTBBK	ZZZZZ	ZZZZZ	00000	149	600	4408	-672	
Group Average:							-672	

\* Hi flag set at 2400 dpm/100 cm2



Survey Date: 7/05/01  
File: 166

Report Date: 7/05/01

Page: 5  
Station: 2

Comments

Total Number of Measurements on this Report: 153

NOTE: This report is grouped by:

Package (L1) (Package number)

Setup number (Detector parameters)

Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)

Reason (L3-345) (Char survey, source check, final survey, etc.)

Surface Cat (L2) (Wall, floor, drain, penetration, etc.)

Count Type (L5) (Field count, bkg, pre-, post-, etc.)

Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

GTS:0143 :C:\PDOX35\M2350\TLOGREVU.R2 12-01-97 JPA

L 80 M 03,133

GTS DURATEK RADIOLOGICAL ENGINEERING & FIELD SERVICES  
GEORGIA INSTITUTE OF TECHNOLOGY

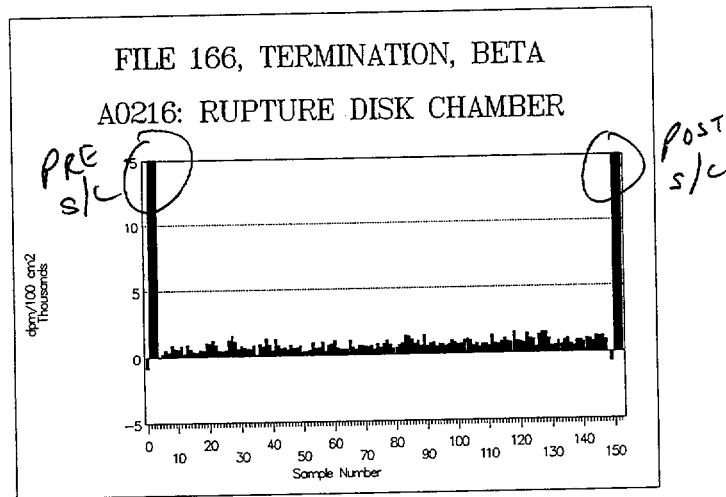
7/05/2001

Graph of File 166

Station: 2

Survey Date: 7/05/2001 Survey Start Time: 08:59:30

Description: A0216: RUPTURE DISK CHAMBER



Flag set for 2400 dpm/100 cm2. Review values greater than this value.  
Review this graph for visual outliers.  
Mark outliers, source checks and backgrounds on the graph on this page.

-----ALPHA-----  
| Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm | Eff: 34.25% Bkg: 1.80 cpm NDA: 20.15 dpm |  
| SN | RPT | ID | COUNTS | NET CPM | DPM | LIMITS | COUNTS | NET CPM | DPM | LIMITS | DATE | TIME |  
001 00 3 0 0.00 0.00 12 6.20 18.10 07-05-2001 12:30:21  
002 00 4 1 0.57 1.91 3 0.00 0.00 07-05-2001 12:32:20  
003 00 5 0 0.00 0.00 0 -1.80 -5.26 07-05-2001 12:34:19

Performed By: *[Signature]* Date: 7/5/01  
Reviewed By: *[Signature]* Date: 7/11/01



FINAL SURVEY  
PIC IPC9025 216712

01F01 C FIN 16

090

ALPHA					BETA							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
			Eff: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm		Eff: 34.25%	Bkg: 1.80 cpm	MDA: 20.15 dpm			
001	00	1	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	12:52:01
002	00	2	0	0.00	0.00		7	2.87	8.37		07-05-2001	12:54:00
003	00	3	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	12:55:59
004	00	4	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	12:57:58
005	00	5	0	0.00	0.00		4	0.87	2.53		07-05-2001	12:59:57
006	00	6	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	13:01:56
007	00	7	1	0.67	1.91		2	-0.67	-1.94		07-05-2001	13:03:55
008	00	8	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	13:05:54

Performed By: *[Signature]* Date: 7/5/01  
Reviewed By: *[Signature]* Date: 7/11/01

ALPHA					BETA					DATE	TIME			
BN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS				
			Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm					Eff: 34.25% Bkg: 1.80 cpm NDA: 20.15 dpm						
001	00	1	0	0.00	0.00		3	0.20	0.58		07-05-2001	13:10:59		
002	00	4	0	0.00	0.00		4	0.87	2.53		07-05-2001	13:12:58		
003	00	5	0	0.00	0.00		6	2.20	6.42		07-05-2001	13:14:57		
004	00	6	1	0.67	1.91		6	2.00	5.84		07-05-2001	13:16:56		
005	00	7	1	0.67	1.91		1	-1.33	-3.89		07-05-2001	13:18:55		
006	00	8	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	13:20:54		

Performed By: *[Signature]* Date: 7/5/01  
Reviewed By: *[Signature]* Date: 7/11/01

SN	RPT	ID	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	4	1.91	0.67	1.91	2	-0.67	-1.94	07-05-2001	13:29:12	
002	00	5	0.00	0.00	0.00	2	-0.47	-1.35	07-05-2001	13:31:12	
003	00	6	0.00	0.00	0.00	4	0.57	2.53	07-05-2001	13:33:11	
004	00	7	0.00	0.00	0.00	4	0.57	2.53	07-05-2001	13:35:10	
005	00	8	1.91	0.67	1.91	4	0.67	1.95	07-05-2001	13:37:09	

-----ALPHA-----  
 Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm | Err: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm  
 -----BETA-----

Performed By: Mike Date: 7/5/01  
 Approved By: Bob Date: 7/11/01

FINAL SURVEY  
PIC IPC9025 216712

01F01 F PIN 16

093

ALPHA						BETA						
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	3	1	0.67	1.91		0	-2.00	-5.84		07-05-2001	13:40:07
002	00	4	0	0.00	0.00		7	2.87	8.37		07-05-2001	13:42:07
003	00	5	2	1.33	3.81		5	1.14	3.31		07-05-2001	13:44:06
004	00	6	0	0.00	0.00		8	3.53	10.32		07-05-2001	13:46:05
005	00	7	0	0.00	0.00		5	1.53	4.48		07-05-2001	13:48:04
006	00	8	1	0.67	1.91		1	-1.33	-3.89		07-05-2001	13:50:03

Performed By: *Mela* Date: 7/5/01  
Reviewed By: *Paolo* Date: 7/11/01



Performed By: [Signature] Date: 7/5/01  
 Reviewed By: [Signature] Date: 7/11/01

FINAL SURVEY PIC IP09025 216712  
 01F01 B PIN 16  
 094  
 -----ALPHA-----  
 Eff: 34.87% Bkg: 0.00 cpm WDA: 5.17 dpm Eft: 34.25% Bkg: 1.50 cpm WDA: 20.15 dpm  
 |-----BETA-----  
 | SN | RPT | ID | COUNTS | NET CPM | DPM | LIMITS | COUNTS | NET CPM | DPM | LIMITS | DATE | TIME |  
 001 00 3 1 0.67 1.91 4.00 11.68 07-05-2001 14:43:05  
 002 00 4 0 0.00 0.00 -1.13 -3.31 07-05-2001 14:45:04  
 003 00 7 0 0.00 0.00 4.20 12.26 07-05-2001 14:47:03

FINAL SURVEY  
 PID IPC9025 216712

01W01 A PIN 16

----- ALPHA -----										----- BETA -----									
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm										Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm									
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME							
001	00	1	1	0.67	1.91		2	-0.67	-1.94		07-05-2001	14:52:14							
002	00	2	1	0.67	1.91		1	-1.33	-3.89		07-05-2001	14:54:13							
003	00	3	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	14:56:12							
004	00	4	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	14:58:11							
005	00	5	1	0.67	1.91		1	-1.33	-3.89		07-05-2001	15:00:10							
006	00	6	0	0.00	0.00		4	0.87	2.53		07-05-2001	15:02:09							
007	00	7	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	15:04:08							
008	00	8	0	0.00	0.00		4	0.87	2.53		07-05-2001	15:06:07							
009	00	9	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	15:08:06							
010	00	10	0	0.00	0.00		3	0.20	0.58		07-05-2001	15:10:05							
011	00	11	1	0.67	1.91		1	-1.33	-3.89		07-05-2001	15:12:04							
012	00	12	1	0.67	1.91		5	1.33	3.90		07-05-2001	15:14:03							
013	00	13	1	0.67	1.91		4	0.67	1.95		07-05-2001	15:16:02							
014	00	14	0	0.00	0.00		5	1.53	4.48		07-05-2001	15:18:01							
015	00	15	1	0.67	1.91		3	0.00	0.00		07-05-2001	15:20:00							
016	00	16	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	15:21:59							
017	00	17	2	1.33	3.81		2	-0.86	-2.52		07-05-2001	15:23:58							
018	00	18	2	1.33	3.81		1	-1.53	-4.47		07-05-2001	15:25:57							
019	00	19	0	0.00	0.00		4	0.87	2.53		07-05-2001	15:27:56							

Performed By: [Signature] Date: 7/3/01

Reviewed By: [Signature] Date: 7/11/01

FINAL SURVEY  
PIC IPC9025 216712  
ALPHA  
Eft: 34.97% Bkg: 0.00 cpm WDA: 5.17 dpm | Eft: 34.25% Bkg: 1.80 cpm WDA: 20.15 dpm  
--- LIMITS ---  
DATE TIME

ID	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS
001 00	0	0.00		4	0.87	2.53	
07-05-2001 15:41:47							

FINAL SURVEY  
PIC IPC9025 216712  
ALPHA  
Eft: 34.97% Bkg: 0.00 cpm WDA: 5.17 dpm | Eft: 34.25% Bkg: 1.80 cpm WDA: 20.15 dpm  
--- LIMITS ---  
DATE TIME

ID	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS
002 00	0	0.00		2	-0.47	-1.36	
07-05-2001 15:44:29							
003 00	0	0.00		0	-1.80	-5.26	
07-05-2001 15:46:29							
004 00	0	0.00		4	0.87	2.53	
07-05-2001 15:48:23							
005 00	0	0.00		2	-0.47	-1.36	
07-05-2001 15:50:27							
006 00	0	0.00		0	-1.80	-5.26	
07-05-2001 15:52:21							
007 00	0	0.00		6	2.20	6.42	
07-05-2001 15:54:21							
008 00	0	0.00		4	0.87	2.53	
07-05-2001 15:56:21							
009 00	1	0.67		2	-0.67	-1.94	
07-05-2001 15:58:21							
010 00	2	1.33		1	-1.53	-4.47	
07-05-2001 16:00:21							
011 00	0	0.00		0	-1.80	-5.26	
07-05-2001 16:02:21							
012 00	0	0.00		2	-0.47	-1.36	
07-05-2001 16:04:21							
013 00	0	0.00		3	0.20	0.58	
07-05-2001 16:06:21							
014 00	0	0.00		2	-0.47	-1.36	
07-05-2001 16:08:21							
015 00	0	0.00		2	-0.67	-1.94	
07-05-2001 16:10:21							
016 00	1	0.67		2	-0.67	-1.94	
07-05-2001 16:12:21							
017 00	0	0.00		2	-0.47	-1.36	
07-05-2001 16:14:21							
018 00	0	0.00		5	1.53	4.48	
07-05-2001 16:16:21							
019 00	0	0.00		3	0.20	0.58	
07-05-2001 16:18:21							

Performed By: *[Signature]* Date: 7/5/01  
 Reviewed By: *[Signature]* Date: 7/11/01

ALPHA							BETA					
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm							Eff: 34.25% Bkg: 2.00 cpm MDA: 20.95 dpm					
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	1	0.67	1.91		9	3.90	11.10		07-06-2001	08:22:53
002	00	2	0	0.00	0.00		10	4.67	13.63		07-06-2001	08:24:52
003	00	3	0	0.00	0.00		0	-2.00	-5.84		07-06-2001	08:26:52
004	00	4	0	0.00	0.00		2	-0.67	-1.95		07-06-2001	08:28:51
005	00	5	0	0.00	0.00		2	-0.67	-1.95		07-06-2001	08:30:50
006	00	6	1	0.67	1.91		5	1.13	3.31		07-06-2001	08:32:50

Performed By: *[Signature]* Date: 7/6/01  
Reviewed By: *[Signature]* Date: 7/11/01

FILE IP99025 216712

		ALPHA				BETA				
1-5M	RPT	ID	Eff: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm	Eff: 34.25%	Bkg: 2.00 cpm	MDA: 20.95 dpm	DATE	TIME
			--- COUNTS ---	NET CPM	DPM	--- COUNTS ---	NET CPM	DPM		
001	00	1	0	0.00	0.00	1	-1.33	-3.89	07-06-2001	08:55:55
002	00	2	0	0.00	0.00	5	1.33	3.89	07-06-2001	08:57:54
003	00	3	0	0.00	0.00	4	0.67	1.95	07-06-2001	08:59:53
004	00	4	0	0.00	0.00	3	0.00	0.00	07-06-2001	09:41:53
005	00	5	0	0.00	0.00	3	0.00	0.00	07-06-2001	09:43:52
006	00	6	0	0.00	0.00	0	-2.00	-5.84	07-06-2001	08:45:51

Performed By: [Signature] Date: 7/6/01

Reviewed By: [Signature] Date: 7/11/01

FINAL SURVEY  
PIC IPC9025 216712

01W03 A FIN 16

099

		ALPHA				BETA						
		Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm				Eff: 34.25% Bkg: 2.00 cpm NDA: 20.95 dpm						
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	1	0.67	1.91		1	-1.53	-4.47		07-06-2001	08:49:59
002	00	2	0	0.00	0.00		7	2.67	7.79		07-06-2001	08:51:59
003	00	3	1	0.67	1.91		1	-1.53	-4.47		07-06-2001	08:53:59
004	00	4	0	0.00	0.00		0	-2.00	-5.84		07-06-2001	08:55:58
005	00	5	0	0.00	0.00		5	1.33	3.89		07-06-2001	08:57:58
006	00	6	0	0.00	0.00		3	0.00	0.00		07-06-2001	08:59:58
007	00	7	0	0.00	0.00		3	0.00	0.00		07-06-2001	09:01:58

Performed By: [Signature] Date: 7/6/01  
Reviewed By: [Signature] Date: 7/16/01

ID	ALPHA				BETA				DATE	TIME
	EFF	CKTS	BKG	MDA	EFF	CKTS	BKG	MDA		
001 00	2	0	0.00	0.00	3	0	0.00	0.00	07-06-2001	09:18:31
002 00	3	2	1.33	3.81	0	0	-2.40	-7.00	07-06-2001	09:20:31
003 00	4	0	0.00	0.00	4	4	2.00	5.84	07-06-2001	09:22:32
004 00	5	2	1.33	3.81	3	3	-0.40	-1.16	07-06-2001	09:24:31
005 00	6	1	0.67	1.91	2	2	-0.87	-2.53	07-06-2001	09:26:32
006 00	7	0	0.00	0.00	2	2	-0.67	-1.95	07-06-2001	09:28:32

Performed By: *[Signature]* Date: 7/6/01  
 Reviewed By: *[Signature]* Date: 7/11/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm					Eff: 34.25% Bkg: 2.00 cpm MDA: 20.95 dpm							
-SN-	-RPT-	-- ID --	- COUNTS -	- NET CPM -	--- DPM ---	- LIMITS -	- COUNTS -	- NET CPM -	--- DPM ---	- LIMITS -	- DATE -	- TIME -
001	00	1	0	0.00	0.00		3	0.00	0.00		07-06-2001	09:31:50
002	00	2	0	0.00	0.00		1	-1.33	-3.89		07-06-2001	09:33:49
003	00	3	0	0.00	0.00		2	-0.67	-1.95		07-06-2001	09:35:49

Performed By: *[Signature]* Date: 7/6/01  
Reviewed By: *[Signature]* Date: 7/11/01



ALPHA						BETA						
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm						Eff: 34.25% Bkg: 2.00 cpm MDA: 20.95 dpm						
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		11	5.33	15.57		07-06-2001	09:38:46
002	00	2	1	0.67	1.91		3	-0.20	-0.58		07-06-2001	09:40:45
003	00	3	1	0.67	1.91		5	1.13	3.31		07-06-2001	09:42:45

Performed By: *[Signature]* Date: 7/6/01  
Reviewed By: *[Signature]* Date: 7/11/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm					Eff: 34.25% Bkg: 2.00 cpm MDA: 20.95 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	3	1	0.67	1.91		0	-2.20	-6.42		07-06-2001	09:48:04
002	00	4	0	0.00	0.00		0	-2.00	-5.84		07-06-2001	09:50:03
003	00	5	0	0.00	0.00		5	1.33	3.89		07-06-2001	09:52:03

Performed By: *[Signature]* Date: 7/6/01  
Reviewed By: *[Signature]* Date: 7/11/01

FINAL SURVEY  
PIC IP09025 216712  
01001 B PIN 16

ALPHA		BETA			
Eff: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm	Eff: 34.25%	Bkg: 2.00 cpm	MDA: 20.95 dpm
---COUNTS---	NET CPM	---DPM---	---COUNTS---	NET CPM	---DPM---
LIMITS	LIMITS	LIMITS	LIMITS	LIMITS	LIMITS
001 00 1	0 0.00	0.00	3	0.00	0.00
FINAL SURVEY					
PIC IP09025 216712					
01001 B PIN 16					

ALPHA		BETA			
Eff: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm	Eff: 34.25%	Bkg: 2.00 cpm	MDA: 20.95 dpm
---COUNTS---	NET CPM	---DPM---	---COUNTS---	NET CPM	---DPM---
LIMITS	LIMITS	LIMITS	LIMITS	LIMITS	LIMITS
002 00 2	0 0.00	0.00	0	-2.00	-5.84
003 00 3	0 0.00	0.00	0	-2.00	-5.84
004 00 4	0 0.00	0.00	1	-1.33	-3.89
005 00 5	0 0.00	0.00	0	-2.00	-5.84
006 00 6	1 0.67	1.91	0	-2.20	-6.42
DATE -- TIME --					
07-06-2001 10:01:25					
07-06-2001 10:03:24					
07-06-2001 10:05:24					
07-06-2001 10:07:24					
07-06-2001 10:09:23					

Performed By: *[Signature]* Date: 7/6/01

Reviewed By: *[Signature]* Date: 7/11/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm					Eff: 34.25% Bkg: 2.00 cpm NDA: 20.95 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	1	0.67	1.91		3	-0.20	-0.58		07-06-2001	10:12:28
002	00	2	0	0.00	0.00		0	-2.00	-5.84		07-06-2001	10:14:27
003	00	3	0	0.00	0.00		4	0.67	1.95		07-06-2001	10:16:28
004	00	4	0	0.00	0.00		0	-2.00	-5.84		07-06-2001	10:18:27
005	00	5	0	0.00	0.00		2	-0.67	-1.95		07-06-2001	10:20:27
006	00	6	0	0.00	0.00		0	-2.00	-5.84		07-06-2001	10:22:27
007	00	7	0	0.00	0.00		5	1.33	3.89		07-06-2001	10:24:27
008	00	8	0	0.00	0.00		1	-1.33	-3.89		07-06-2001	10:26:26

Performed By: *[Signature]* Date: 7/6/01  
Reviewed By: *[Signature]* Date: 7/6/01

SN	RPT	ID	ALPHA				BETA				DATE	TIME
			EFF	BRG	MDA	LIMITS	EFF	BRG	MDA	LIMITS		
001	00	1	0	0.00	0.00	2	-0.67	-1.95	07-08-2001	10:34:44		
002	00	4	1	0.67	1.91	2	-0.87	-2.53	07-08-2001	10:38:45		
003	00	5	1	0.67	1.91	6	1.80	5.26	07-08-2001	10:38:45		
004	00	6	0	0.00	0.00	1	-1.33	-3.89	07-08-2001	10:40:44		
005	00	7	1	0.67	1.91	2	-0.87	-2.53	07-08-2001	10:42:45		
006	00	8	1	0.67	1.91	2	-0.87	-2.53	07-08-2001	10:44:45		

Performed By:  Date: 7/6/01  
 Reviewed By: MSG Date: 7/11/01

		ALPHA				BETA					
Eff:	34.97%	Bkg:	0.00 cpm	MDA:	5.17 dpm	Eff:	34.55%	Bkg:	2.00 cpm	MDA:	20.93 dpm
--	COUNTS	--	NET CPM	--	DPM	--	NET CPM	--	DPM	--	LIMITS
ID											
001 00	4	0	0.00	0.00	0.00	2	-0.47	-1.95	-1.95	07-06-2001	10:48:02
002 00	5	0	0.00	0.00	0.00	1	-1.33	-3.89	-3.89	07-06-2001	10:50:01
003 00	6	0	0.00	0.00	0.00	5	1.33	3.89	3.89	07-06-2001	10:52:01
004 00	7	0	0.00	0.00	0.00	0	-2.00	-5.84	-5.84	07-06-2001	10:54:01
005 00	8	0	0.00	0.00	0.00	3	0.00	0.00	0.00	07-06-2001	10:56:01

Performed By: *J. Miller* Date: 7/6/01

Reviewed By: *R. G. G.* Date: 7/11/01

-----ALPHA-----

Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm Eff: 34.25% Bkg: 2.00 cpm MDA: 20.85 dpm

|-SN-|-RPT-|- ID --|- COUNTS -|- NET CFM -|- DPM ---|- LIMITS -|- COUNTS -|- NET CFM -|- DPM ---|- LIMITS -|- DATE -|- TIME -

ID	COUNTS	NET CFM	DPM	LIMITS	COUNTS	NET CFM	DPM	LIMITS	DATE	TIME
001	00	0.00	0.00	1	-1.33	-3.89	07-06-2001	10:59:17		
002	00	0.00	0.00	3	0.00	0.00	07-06-2001	11:01:16		
003	00	0.00	0.00	4	0.67	1.95	07-06-2001	11:03:16		
004	00	0.00	0.00	3	0.00	0.00	07-06-2001	11:05:16		
005	00	0.00	0.00	1	-1.33	-3.89	07-06-2001	11:07:16		
006	00	0.67	1.91	2	-0.87	-2.53	07-06-2001	11:09:16		

Performed By: [Signature] Date: 7/6/01  
 Reviewed By: [Signature] Date: 7/11/01

		ALPHA				BETA				
SR	RPT	ID	EFF: 34.97%	BKG: 0.00 cpm	MDA: 5.17 dpm	EFF: 34.23%	BKG: 2.00 cpm	MDA: 20.95 dpm	DATE	TIME
			COUNTS	NET CPM	DPM	COUNTS	NET CPM	DPM		
001	00	3	0	0.00	0.00	3	0.00	0.00	07-05-2001	11:15:45
002	00	4	0	0.00	0.00	0	-2.00	-5.84	07-05-2001	11:17:44
003	00	7	0	0.00	0.00	4	0.67	1.95	07-05-2001	11:19:44

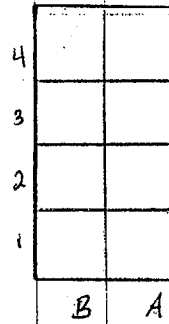
Performed By: *[Signature]* Date: 7/6/01  
 Reviewed By: *[Signature]* Date: 7/11/01



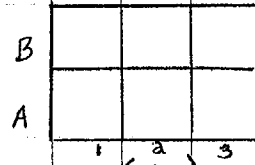
**Section 8**

**Package 16  
Rabbit Room  
Direct and Removable Beta Results**

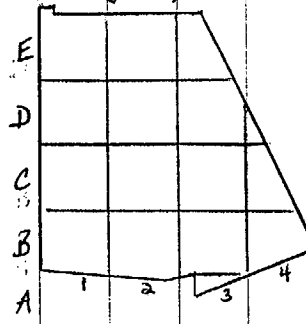
(W04)



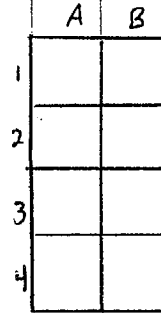
(W01)



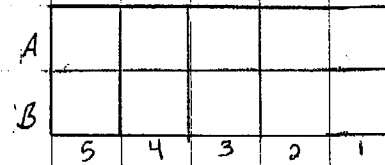
(F01)



(W02)



(W03)



The "net activity" (dpm/100 cm<sup>2</sup>) presented on the following download report is raw data. It has not been corrected, if required, for the natural radioactivity that may be present in materials of construction. In addition the background used to correct for ambient exposure rates, instrument noise, etc. may need to be adjusted if more than one surface type was included in the download.

See the enclosed spreadsheets for the corrected results.

File #165

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Station: 2  
 Technician: Name: D. Schumaku Signature: [Signature] File: 165  
 Serial No. Verification: Model 2350:  Detector:  Problems:  (See Comments)

Survey Technician(s):  
 Print Name: \_\_\_\_\_ User ID \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Print Name: Robert A. Leigh User ID RAL 7103 Signature: [Signature] Date: 7-3-01

Survey Unit Description: A0216, Rabbit Room  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)

Instrument Model and Serial No.: Model 2350  Model 2350-1 : 129433

Instrument and Detector Calibration Due Dates: Survey Meter: 10-24-01 Detector: 12-21-01

Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain): \_\_\_\_\_

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input checked="" type="checkbox"/> Beta $\beta$	<u>095080</u>	43-68B	<u>.217</u>	<u>5466/422</u>	<u>165</u>	<u>165</u>
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input type="checkbox"/> Gamma $\gamma$		44-2	N/A			

Local Area Background Measurements						MEAN Value in cpm !	
	1	2	3	4	5	6	
$\beta$ Beta	<u>15732/4960</u>	<u>24914/4949</u>	<u>34449</u>	<u>44532</u>	<u>54517/446</u>	<u>6</u>	<u>481</u>
$\alpha$ Alpha	<u>1</u>	<u>2 02w01=4934</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

GTS DURATEK RADIOLOGICAL ENGINEERING & FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

Direct Beta Survey Report, dpm/100 cm2

File Number: 165		Survey Description: A0216: RX BUILDING RABBITT ROOM		
Survey Reason: TERMINATION		User ID: RAL7103	Technician name: R.A. Leigh	
Instrument Model: 2350-1	S/N: 129433	Calibration Due: 10/24/01	Group: 2	
Detector Model: 43-68	Detector S/N: 095080	Type: 126 cm2 Gas Proportional Detector		
Background: 500 cpm	Beta Efficiency: .217			Survey Date: 7/03/01

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

Technician Review:  
 I have reviewed this cover sheet and 3 pages of the report, 1 pages of comments, and 1 graph.  
 I performed this survey: R.A. LEIGH / R.A. Leigh Date: 7-5-01  
Print name Signature  
 and,  
 I performed this survey: \_\_\_\_\_ / \_\_\_\_\_ Date: \_\_\_\_\_  
Print name Signature

Corrections and Reasons:

Comment Resolution:

Survey Reviewed and Approved by: PAUL JONES / Paul Jones Date: 7/18/01  
Print name Signature

Survey Date: 7/03/01  
File: 165

Report Date: 7/05/01

Page: 1  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	02F01	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00000	14	600	5732	268	
FLDBK	B9999	ZZZZZ	00000	31	600	4960	-15	

Group Average: 127

FLDCT	B9999	A	00003	15	20	217	552	
FLDCT	B9999	B	00001	16	20	171	48	
FLDCT	B9999	B	00002	17	20	174	80	
FLDCT	B9999	B	00003	18	20	193	289	
FLDCT	B9999	B	00004	19	20	190	256	
FLDCT	B9999	C	00001	20	20	178	124	
FLDCT	B9999	C	00002	21	20	205	421	
FLDCT	B9999	C	00003	22	20	192	278	
FLDCT	B9999	C	00004	23	20	173	69	
FLDCT	B9999	D	00001	24	20	214	519	
FLDCT	B9999	D	00002	25	20	185	201	
FLDCT	B9999	D	00003	26	20	174	80	
FLDCT	B9999	D	00004	27	20	196	322	
FLDCT	B9999	E	00001	28	20	180	146	
FLDCT	B9999	E	00002	29	20	203	399	
FLDCT	B9999	E	00003	30	20	226	651	

Group Average: 277

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	02W01	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B0001	ZZZZZ	00000	32	600	4914	-31	
FLDBK	B0001	ZZZZZ	00000	39	600	4949	-19	

Group Average: -25

FLDCT	B0001	A	00001	33	20	269	1123	
FLDCT	B0001	A	00002	34	20	219	574	
FLDCT	B0001	A	00003	35	20	203	399	
FLDCT	B0001	B	00001	36	20	258	1002	
FLDCT	B0001	B	00002	37	20	284	1287	
FLDCT	B0001	B	00003	38	20	276	1200	

Group Average: 931

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	02W02	TAT01	02200	Det Cal Due: 12/21/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00000	40	600	4449	-202	

Group Average: -202

FLDCT	B9999	A	00001	41	20	153	-150	
FLDCT	B9999	A	00002	42	20	156	-117	
FLDCT	B9999	A	00003	43	20	147	-216	
FLDCT	B9999	A	00004	44	20	153	-150	

Survey Date: 7/03/01  
File: 165

Report Date: 7/05/01

Page: 2  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	02W02	TAT01	02200	Det Cal Due: 12/21/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDCT	B9999	B	00001	45	20	149	-194	
FLDCT	B9999	B	00002	46	20	158	-95	
FLDCT	B9999	B	00003	47	20	140	-293	
FLDCT	B9999	B	00004	48	20	141	-282	
Group Average:							-187	

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	02W03	TAT01	02200	Det Cal Due: 12/21/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B9999	ZZZZZ	00000	59	600	4532	-171	
Group Average:							-171	

FLDCT	B9999	A	00001	49	20	164	-29	
FLDCT	B9999	A	00002	50	20	175	91	
FLDCT	B0001	A	00003	51	20	212	497	
FLDCT	B9999	A	00004	52	20	170	37	
FLDCT	B9999	A	00005	53	20	151	-172	
FLDCT	B9999	B	00001	54	20	146	-227	
FLDCT	B9999	B	00002	55	20	167	4	
FLDCT	B0001	B	00003	56	20	189	245	
FLDCT	B9999	B	00004	57	20	148	-205	
FLDCT	B9999	B	00005	58	20	146	-227	
Group Average:							1	

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	02W04	TAT01	02200	Det Cal Due: 12/21/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0004	ZZZZZ	00000	60	600	4517	-177	
FLDBK	B0004	ZZZZZ	00000	69	600	4416	-214	
Group Average:							-195	

FLDCT	B0004	A	00001	61	20	242	827	
FLDCT	B0004	A	00002	62	20	262	1046	
FLDCT	B0004	A	00003	63	20	230	695	
FLDCT	B0004	A	00004	64	20	230	695	
FLDCT	B0004	B	00001	65	20	218	563	
FLDCT	B0004	B	00002	66	20	218	563	
FLDCT	B0004	B	00003	67	20	209	464	
FLDCT	B0004	B	00004	68	20	269	1123	
Group Average:							747	

Survey Date: 7/03/01  
File: 165

Report Date: 7/05/01

Page: 3  
Station: 2

Comments

Survey Code	L1 ZZZZZ	L2 E2260	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/21/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
PRB00	ZZZZZ	ZZZZZ	00000	1	60	5929	19856	*
PRB00	ZZZZZ	ZZZZZ	00000	2	60	6008	20145	*
PRB00	ZZZZZ	ZZZZZ	00000	3	60	5728	19121	*
Group Average:							19707	
PTB00	ZZZZZ	ZZZZZ	00000	71	60	5674	18923	*
PTB00	ZZZZZ	ZZZZZ	00000	72	60	6100	20481	*
PTB00	ZZZZZ	ZZZZZ	00000	73	60	5692	18989	*
Group Average:							19465	

Survey Code	L1 ZZZZZ	L2 ZZZZZ	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/21/01
-------------	-------------	-------------	-------------	-------------	---

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
PRBBK	ZZZZZ	ZZZZZ	00000	0	600	4223	-284	
Group Average:							-284	
PTBBK	ZZZZZ	ZZZZZ	00000	70	600	4125	-320	
Group Average:							-320	

Total Number of Measurements on this Report: 64

NOTE: This report is grouped by:  
 Package (L1) (Package number)  
 Setup number (Detector parameters)  
 Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)  
 Reason (L3-345) (Char survey, source check, final survey, etc.)  
 Surface Cat (L2) (Wall, floor, drain, penetration, etc.)  
 Count Type (L5) (Field count, bkg, pre-, post-, etc.)  
 Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

\* Hi flag set at 2400 dpm/100 cm2



## GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

## GEORGIA INSTITUTE OF TECHNOLOGY

7/05/01

Comments Report for File 165

Station: 2

---

Comment Number	Comment
-------------------	---------

1	Deleted sample numbers from 4 to 13. Because THESE SAMPLE POINTS WERE TAKEN IN A DIFFERENT AREA WHERE ONLY SCANNING WAS REQUIRED. LOGGED DATA POINTS WERE TAKEN IN ERROR.
---	--

---

GTS:0143 :C:\PDOX35\M2350\COMMENTS:R1

GTS DURATEK RADIOLOGICAL ENGINEERING &amp; FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

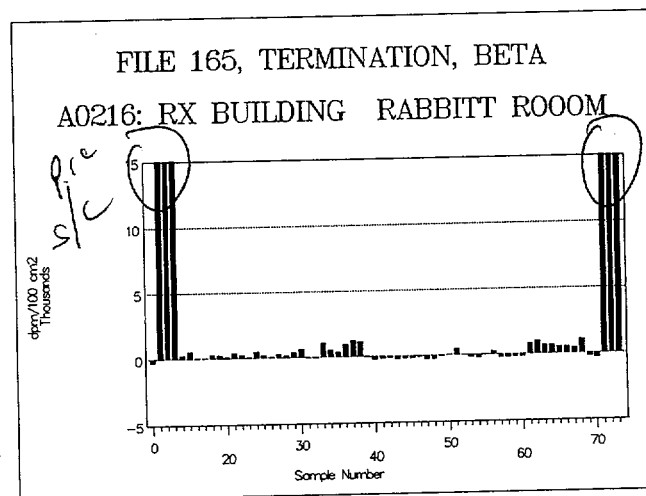
7/05/2001

Graph of File 165

Station: 2

Survey Date: 7/03/2001 Survey Start Time: 11:05:50

Description: A0216: RX BUILDING RABBITT ROOM



Flag set for 2400 dpm/100 cm<sup>2</sup>. Review values greater than this value.  
Review this graph for visual outliers.  
Mark outliers, source checks and backgrounds on the graph on this page.

-----ALPHA-----  
 ; Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm ; Eff: 34.25% Bkg: 2.00 cpm MDA: 20.95 dpm ;  
 ;-----BETA-----  
 ; SN-ID-RPT-ID-COUNTS-NET CPM-DPM-LIMITS-COUNTS-NET CPM-DPM-LIMITS-DATE-TIME  
 001 00 3 1 0.67 1.91 1 -1.53 -4.47 07-03-2001 14:25:54

Performed By: [Signature] Date: 7/2/01  
 Reviewed By: [Signature] Date: 7/11/01

Performed By: [Signature] Date: 7/1/01  
 Reviewed By: [Signature] Date: 7/1/01

ID	SN	RT	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00	-2.00	0	-3.84	07-03-2001	14:29:19		
002	00	2	0	0.00	0.00	-1.33	1	-3.84	07-03-2001	14:31:18		
003	00	3	0	0.00	0.00	0.00	3	0.00	07-03-2001	14:33:17		
004	00	4	0	0.00	0.00	1.33	5	3.84	07-03-2001	14:35:16		

ALPHA -----  
 Effic: 34.47% Bkg: 0.00 cpm MDA: 5.17 dpm  
 Effic: 34.25% Bkg: 2.00 cpm MDA: 20.45 dpm  
 BETA -----

ALPHA					BETA							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		2	-0.67	-1.95		07-03-2001	15:13:59
002	00	2	0	0.00	0.00		5	1.33	3.89		07-03-2001	15:15:58
003	00	3	0	0.00	0.00		0	-2.00	-5.84		07-03-2001	15:17:57
004	00	4	0	0.00	0.00		3	0.00	0.00		07-03-2001	15:19:56

Performed By: [Signature] Date: 7/3/01  
Reviewed By: [Signature] Date: 7/11/01

				ALPHA				BETA					
				Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm				Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm					
-SN-	-RPT-	-- ID --	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME	
001	00	1	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	07:45:15	
002	00	2	0	0.00	0.00		4	0.87	2.53		07-05-2001	07:47:15	
003	00	3	0	0.00	0.00		6	2.20	6.42		07-05-2001	07:49:15	
004	00	4	0	0.00	0.00		9	4.20	12.26		07-05-2001	07:51:15	

Performed By: *Miller* Date: 7/5/01  
Reviewed By: *Polag* Date: 7/11/01



-----ALPHA-----  
 Effic: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm | Effic: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm  
 ---COUNTS--- | ---NET CPM--- | ---DPM--- | ---LIMITS--- | ---LIMITS--- | ---DATE--- | ---TIME---  
 1 0 0.00 0.00 0.00 2 -0.47 -1.36 07-03-2001 08:06:21  
 2 0 0.00 0.00 0.00 7 2.87 8.37 07-03-2001 08:08:21  
 3 0 0.00 0.00 0.00 0 -1.80 -5.26 07-03-2001 08:10:21

Performed By: [Signature] Date: 7/5/01  
 Reviewed By: [Signature] Date: 7/11/01



PID 1P39025 216712

-----ALPHA-----

Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm / Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm

---COUNTS---|-NET CPM-|---DPM---|-LIMITS-|---COUNTS-|-NET CPM-|---DPM---|-LIMITS-|

SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00	2.87	7	8.37	8.37	07-05-2001	08:14:23	
002	00	2	0	0.00	0.00	-1.80	0	-3.26	-3.26	07-05-2001	08:16:23	
003	00	3	0	0.00	0.00	-1.80	0	-3.26	-3.26	07-05-2001	08:18:22	

Performed By: Mr. [Signature] Date: 2/3/01  
 Reviewed By: [Signature] Date: 2/11/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm					Eff: 34.25% Bkg: 1.80 cpm NDA: 20.15 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	08:21:46
002	00	2	0	0.00	0.00		8	3.53	10.32		07-05-2001	08:23:45
003	00	3	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	08:25:45
004	00	4	0	0.00	0.00		11	5.53	16.16		07-05-2001	08:27:45

Performed By: *[Signature]* Date: 7/5/01  
Reviewed By: *[Signature]* Date: 7/11/01

ALPHA					BETA					DATE	TIME	
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS		
001	00	1	0	0.00	0.00		4	0.87	2.53		07-05-2001	08:31:37
002	00	2	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	08:33:36
003	00	3	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	08:35:36
004	00	4	0	0.00	0.00		6	2.20	6.42		07-05-2001	08:37:36

Performed By: [Signature] Date: 7/5/01  
Reviewed By: [Signature] Date: 7/11/01

N/A  
Performed By: \_\_\_\_\_ Date: \_\_\_\_\_  
Reviewed By: \_\_\_\_\_  
[Signature] 7/11/01

ALPHA										BETA			
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm										Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm			
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME	
001	00	1	0	0.00	0.00		6	2.20	6.42		07-05-2001	08:40:46	
002	00	2	0	0.00	0.00		4	0.87	2.53		07-05-2001	08:42:45	
003	00	3	0	0.00	0.00		3	0.20	0.58		07-05-2001	08:44:44	
004	00	4	0	0.00	0.00		8	3.53	10.32		07-05-2001	08:46:43	
005	00	5	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	08:48:42	

Performed By: *M. Liu* Date: 7/5/01  
Reviewed By: *P. G. G.* Date: 7/11/01

ALPHA						BETA						
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm ; Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm												
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	1	0.67	1.91		1	-1.33	-3.89		07-05-2001	08:51:50
002	00	2	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	08:53:49
003	00	3	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	08:55:48
004	00	4	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	08:57:47
005	00	5	1	0.67	1.91		3	0.00	0.00		07-05-2001	08:59:46

Performed By: *Miller* Date: 7/5/01  
Reviewed By: *Pelago* Date: 7/11/01

ALPHA				BETA								
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm				Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm								
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	09:03:23
002	00	2	0	0.00	0.00		5	1.53	4.48		07-05-2001	09:05:24
003	00	3	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	09:07:23
004	00	4	1	0.67	1.91		3	0.00	0.00		07-05-2001	09:09:22

Performed By: *M. L. ...* Date: 7/5/01  
Reviewed By: *P. L. ...* Date: 7/11/01

ALPHA						BETA						
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm						Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm						
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	09:12:42
002	00	2	1	0.67	1.91		2	-0.67	-1.94		07-05-2001	09:14:41
003	00	3	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	09:16:40
004	00	4	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	09:18:39

Performed By: *[Signature]* Date: 7/5/01  
Reviewed By: *[Signature]* Date: 7/11/01

**Section 9**

**Package 16  
Experiment Room  
Direct and Removable Beta Results**





The "net activity" (dpm/100 cm<sup>2</sup>) presented on the following download report is raw data. It has not been corrected, if required, for the natural radioactivity that may be present in materials of construction. In addition the background used to correct for ambient exposure rates, instrument noise, etc. may need to be adjusted if more than one surface type was included in the download.

See the enclosed spreadsheets for the corrected results.

File #164

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Download Print Technician: Name: D. Schumko Signature: [Signature] Station: 2  
 Serial No. Verification: Model 2350:  Detector:  Problems:  (See Comments) File: 164

Survey Technician(s):  
 Print Name: Billy S. Kjos User ID: BSK 0490 Signature: [Signature] Date: 7-3-01  
 Print Name: \_\_\_\_\_ User ID: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Survey Unit Description: A0216, Experiment Room  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)

Instrument Model and Serial No.: Model 2350  Model 2350-1 : 129429

Instrument and Detector Calibration Due Dates: Survey Meter: 12-6-01 Detector: 12-6-01

Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain): \_\_\_\_\_

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input checked="" type="checkbox"/> Beta $\beta$	<u>091050</u>	43-68B	<u>.205</u>	<u>5173 / 390</u>	<u>164</u>	<u>164</u>
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input type="checkbox"/> Gamma $\gamma$		44-2	N/A			

Local Area Background Measurements MEAN Value in cpm !

*03F01=476cpm    03W01=460cpm    03W02, 03W03, 03W04=427cpm*

10 Minutes $\beta$ Beta	1	2	3	4	5	6	
	<u>14624/4099</u>	<u>24643/4557</u>	<u>34291/4249</u>	4	5	6	<u>455</u>
$\alpha$ Alpha	1	2	3	4	5	6	

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

GTS DURATEK RADIOLOGICAL ENGINEERING & FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

Direct Beta Survey Report, dpm/100 cm2

File Number: 164		Survey Description: A0216: RX BUILDING EXPERIMENTAL ROOM			
Survey Reason: TERMINATION		User ID: BSK0490		Technician name: B.S. Kjos	
Instrument Model: 2350-1		S/N: 129429	Calibration Due: 12/06/01		Group: 2
Detector Model: 43-68B		Detector S/N: 091050	Type: 126 cm2 Gas Proportional Detector, Beta Window		
Background: 455 cpm		Beta Efficiency: .205		Survey Date: 7/03/01	

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

Technician Review:

I have reviewed this cover sheet and 3 pages of the report, 0 pages of comments, and 1 graph.

I performed this survey: Betty S Kjos / Betty S Kjos Date: 7-5-01  
Print name Signature

and,

I performed this survey: \_\_\_\_\_ / \_\_\_\_\_ Date: \_\_\_\_\_  
Print name Signature

Corrections and Reasons:

Comment Resolution:

Survey Reviewed and Approved by: Paul Jones / Paul Jones Date: 7/11/01  
Print name Signature

Survey Date: 7/03/01  
File: 164

Report Date: 7/05/01

Page: 1  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	03F01	TAT01	02200	Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00000	4	600	4624	29	
FLDBK	B9999	ZZZZZ	00000	28	600	4899	135	

Group Average: 82

FLDCT	B9999	A	00001	5	20	136	-182	
FLDCT	B9999	A	00002	6	20	174	259	
FLDCT	B9999	A	00003	7	20	172	236	
FLDCT	B9999	A	00004	8	20	165	155	
FLDCT	B9999	A	00005	9	20	185	387	
FLDCT	B9999	A	00006	10	20	154	27	
FLDCT	B9999	B	00001	11	20	158	74	
FLDCT	B9999	B	00002	12	20	179	317	
FLDCT	B9999	B	00003	13	20	191	457	
FLDCT	B9999	B	00004	14	20	184	376	
FLDCT	B9999	B	00005	15	20	162	120	
FLDCT	B9999	B	00006	16	20	157	62	
FLDCT	B9999	C	00001	17	20	165	155	
FLDCT	B9999	C	00002	18	20	165	155	
FLDCT	B9999	C	00003	19	20	174	259	
FLDCT	B9999	C	00004	20	20	140	-136	
FLDCT	B9999	C	00005	21	20	183	364	
FLDCT	B9999	C	00006	22	20	164	143	
FLDCT	B9999	D	00002	23	20	175	271	
FLDCT	B9999	D	00003	24	20	174	259	
FLDCT	B9999	D	00004	25	20	183	364	
FLDCT	B9999	D	00005	26	20	146	-66	
FLDCT	B9999	E	00005	27	20	175	271	

Group Average: 188

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	03W01	TAT01	02200	Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B0001	ZZZZZ	00000	29	600	4643	36	
FLDBK	B0001	ZZZZZ	00000	36	600	4557	3	

Group Average: 19

FLDCT	B0001	A	00001	30	20	213	712	
FLDCT	B0001	A	00002	31	20	258	1235	
FLDCT	B0001	A	00003	32	20	210	678	
FLDCT	B0001	B	00001	33	20	213	712	
FLDCT	B0001	B	00002	34	20	236	979	
FLDCT	B0001	B	00003	35	20	203	596	

Group Average: 819

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	03W02	TAT01	02200	Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00000	37	600	4291	-100	

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 7/03/01  
File: 164

Report Date: 7/05/01

Page: 2  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	03W02	TAT01	02200	Det Cal Due: 12/06/01	

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00000	71	600	4249	-117	

Group Average: -108

FLDCT	B9999	A	00001	38	20	151	-8	
FLDCT	B9999	A	00002	39	20	152	4	
FLDCT	B9999	A	00003	40	20	149	-31	
FLDCT	B0001	A	00004	41	20	202	585	
FLDCT	B0001	A	00005	42	20	187	410	
FLDCT	B9999	B	00001	43	20	169	201	
FLDCT	B9999	B	00002	44	20	164	143	
FLDCT	B9999	B	00003	45	20	142	-112	
FLDCT	B0001	B	00004	46	20	228	887	
FLDCT	B0001	B	00005	47	20	167	178	

Group Average: 226

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	03W03	TAT01	02200	Det Cal Due: 12/06/01	

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B9999	A	00001	48	20	165	155	
FLDCT	B9999	A	00002	49	20	141	-124	
FLDCT	B9999	A	00003	50	20	135	-194	
FLDCT	B9999	A	00004	51	20	135	-194	
FLDCT	B0001	A	00005	52	20	190	445	
FLDCT	B9999	A	00006	53	20	160	97	
FLDCT	B9999	A	00007	54	20	139	-147	
FLDCT	B9999	B	00001	55	20	154	27	
FLDCT	B9999	B	00002	56	20	171	225	
FLDCT	B9999	B	00003	57	20	159	85	
FLDCT	B9999	B	00004	58	20	142	-112	
FLDCT	B0001	B	00005	59	20	210	678	
FLDCT	B9999	B	00006	60	20	143	-101	
FLDCT	B9999	B	00007	61	20	183	364	
FLDCT	B9999	B	00008	62	20	161	108	
FLDCT	B9999	A	00008	63	20	121	-356	

Group Average: 60

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	03W04	TAT01	02200	Det Cal Due: 12/06/01	

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B9999	A	00001	64	20	145	-77	
FLDCT	B9999	A	00002	65	20	146	-66	
FLDCT	B9999	A	00003*	66	20	142	-112	
FLDCT	B9999	B	00001	67	20	136	-182	
FLDCT	B9999	B	00002	68	20	159	85	
FLDCT	B9999	B	00003	69	20	153	15	
FLDCT	B9999	B	00004	70	20	157	62	

Group Average: -39

\* See download file # 167 for Grid AA

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 7/03/01  
File: 164

Report Date: 7/05/01

Page: 3  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	ZZZZZ	EZ260	TAT01	02200	Det Cal Due: 12/06/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
PRB00	ZZZZZ	ZZZZZ	00000	1	60	5551	19729	*
PRB00	ZZZZZ	ZZZZZ	00000	2	60	5691	20271	*
PRB00	ZZZZZ	ZZZZZ	00000	3	60	5448	19330	*
Group Average:							19777	
PTB00	ZZZZZ	ZZZZZ	00000	73	60	5436	19284	*
PTB00	ZZZZZ	ZZZZZ	00000	74	60	5942	21243	*
PTB00	ZZZZZ	ZZZZZ	00000	75	60	5657	20139	*
Group Average:							20222	

Survey Code	L1	L2	L3	L4	Setup Number 0
	ZZZZZ	ZZZZZ	TAT01	02200	Det Cal Due: 12/06/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
PRBBK	ZZZZZ	ZZZZZ	00000	0	600	3896	-253	
Group Average:							-253	
PTBBK	ZZZZZ	ZZZZZ	00000	72	600	4198	-136	
Group Average:							-136	

Total Number of Measurements on this Report: 76

NOTE: This report is grouped by:  
 Package (L1) (Package number)  
 Setup number (Detector parameters)  
 Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)  
 Reason (L3-345) (Char survey, source check, final survey, etc.)  
 Surface Cat (L2) (Wall, floor, drain, penetration, etc.)  
 Count Type (L5) (Field count, bkg, pre-, post-, etc.)  
 Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

\* Hi flag set at 2400 dpm/100 cm2

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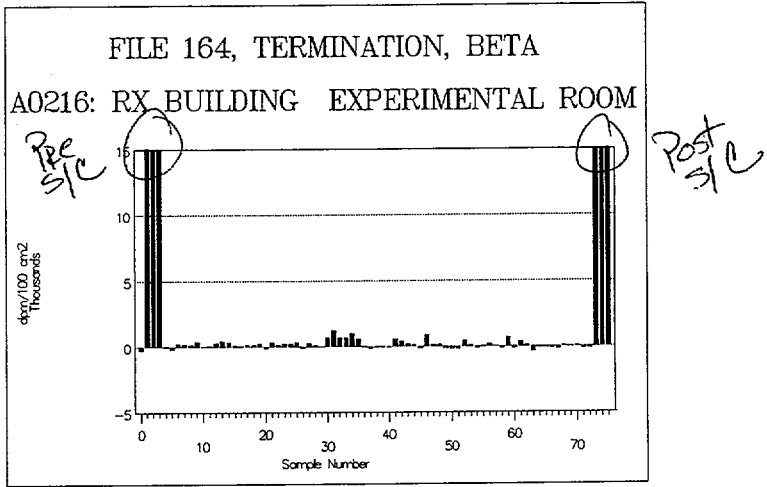
7/05/2001

Graph of File 164

Station: 2

Survey Date: 7/03/2001 Survey Start Time: 11:05:02

Description: A0216: RX BUILDING EXPERIMENTAL ROOM



Flag set for 2400 dpm/100 cm2. Review values greater than this value.

Review this graph for visual outliers.

Mark outliers, source checks and backgrounds on the graph on this page.



The "net activity" (dpm/100 cm<sup>2</sup>) presented on the following download report is raw data. It has not been corrected, if required, for the natural radioactivity that may be present in materials of construction. In addition the background used to correct for ambient exposure rates, instrument noise, etc. may need to be adjusted if more than one surface type was included in the download.

See the enclosed spreadsheets for the corrected results.

File #167

OPERATION OF THE LUDLUM MODEL  
2350 SERIES DATA LOGGERS

ATTACHMENT 6.14  
SURVEY DOWNLOAD DATA SHEET

Download Print  
 Technician: Name: D. Schumaker Signature: [Signature] Station: 2  
 File: 167  
 Serial No. Verification: Model 2350:  Detector:  Problems:  (See Comments)

Survey Technician(s):  
 Print Name: Billy Skjos User ID: BSK0490 Signature: [Signature] Date: 7-5-01  
 Print Name: \_\_\_\_\_ User ID: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Survey Unit Description: A0216 MC Panel Area  
 (Example: Survey Package + description i.e. D16, Building 43, Area 09, Room 100, Floor - Grid Locations A1 through A7)

Instrument Model and Serial No.: Model 2350  Model 2350-1  129429  
 Instrument and Detector Calibration Due Dates: Survey Meter: 12-6-01 Detector: 12-6-01

Type Of Survey:  Term Survey  Characterization  Information Only  
 Other (explain): \_\_\_\_\_

Type of Measurement	Detector Serial Number	Detector Model Number	Detector Efficiency	Source Mean BKG Value	Pre & Post Use Info	
					Pre File No.	Post File No.
<input type="checkbox"/> Beta $\beta$		43-106B				
<input checked="" type="checkbox"/> Beta $\beta$	<u>091050</u>	43-68B	<u>.211</u>	<u>5328 / 410</u>	<u>167</u>	<u>167</u>
<input type="checkbox"/> Alpha $\alpha$		43-68A				
<input type="checkbox"/> Gamma $\gamma$		44-2	N/A			

Local Area Background Measurements

04F01(80003) avg = 498cpm    04F01(80002) avg = 513cpm    04W01 avg = 426cpm

10 Minute $\beta$ Beta	1	2	3	4	5	6	MEAN Value in cpm
	<u>15052/4908</u>	<u>25188/5068</u>	<u>34551/3976</u>	<u>43809/3869</u>	<u>53573/3540</u>	<u>62454/2508</u>	<u>404</u>
$\alpha$ Alpha	1	2	3	<u>04W02</u> 4 avg = 384cpm	<u>04W03</u> 5 avg = 356cpm	<u>04S01</u> 6 avg = 248	

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
COPY  
 \_\_\_\_\_

This copy for A0216 area 03 section.

GTS DURATEK RADIOLOGICAL ENGINEERING & FIELD SERVICES

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Direct Beta Survey Report, dpm/100 cm2

File Number: 167		Survey Description: A0216: RX BUILDING BASEMENT MC PANEL AREA		
Survey Reason: TERMINATION		User ID: BSK0490	Technician name: B.S. Kjos	
Instrument Model: 2350-1	S/N: 129429	Calibration Due: 12/06/01	Group: 2	
Detector Model: 43-68B	Detector S/N: 091050	Type: 126 cm2 Gas Proportional Detector, Beta Window		
Background: 404 cpm	Beta Efficiency: .211			Survey Date: 7/05/01

Pre and Post source checks are included on this download: Yes  No   
 If No is answered, then list the Download Files which include the Pre and Post source checks.  
 Pre File #: \_\_\_\_\_ Post File #: \_\_\_\_\_

Technician Review:

I have reviewed this cover sheet and 6 pages of the report, 0 pages of comments, and 1 graph.

I performed this survey: Betty S. Kjos / Betty S. Kjos Date: 7-5-01  
Print name Signature

and,  
 I performed this survey: \_\_\_\_\_ / \_\_\_\_\_ Date: \_\_\_\_\_  
Print name Signature

Corrections and Reasons:

Comment Resolution:

Survey Reviewed and Approved by: PAUL JONES / BS Kjos Date: 7/10/01  
Print name Signature

Survey Date: 7/05/01  
File: 167

Report Date: 7/05/01

Page: 1  
Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	03W04	TAT01	02200		Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B9999	ZZZZZ	00000	4	600	4215	66	
FLDBK	B9999	ZZZZZ	00000	6	600	4051	4	
Group Average:							35	
FLDCT	B9999	A	00004	5	20	159	275	
Group Average:							275	

avg = 413cpm

This reading for Grid A4 is missing pt. from file # 164.

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	04F01	TAT01	02200		Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDBK	B0003	ZZZZZ	00000	7	600	5052	381	
FLDBK	B0002	ZZZZZ	00000	52	600	5188	432	
FLDBK	B0003	ZZZZZ	00000	100	600	4908	326	
FLDBK	B0002	ZZZZZ	00000	101	600	5068	387	
Group Average:							381	

FLDCT	B0003	A	00002	8	20	237	1155	
LDCT	B0003	A	00003	9	20	289	1742	
LDCT	B0003	B	00002	10	20	236	1143	
FLDCT	B0003	B	00003	11	20	237	1155	
FLDCT	B0003	B	00004	12	20	234	1121	
FLDCT	B0003	B	00005	13	20	231	1087	
FLDCT	B0003	B	00006	14	20	232	1098	
FLDCT	B0003	C	00001	15	20	245	1245	
FLDCT	B0003	C	00002	16	20	223	997	
FLDCT	B0003	C	00003	17	20	252	1324	
FLDCT	B0003	C	00004	18	20	229	1064	
FLDCT	B0003	C	00005	19	20	226	1031	
FLDCT	B0003	C	00006	20	20	268	1505	
FLDCT	B0003	C	00007	21	20	252	1324	
FLDCT	B0003	C	00008	22	20	234	1121	
FLDCT	B0003	D	00001	23	20	233	1110	
FLDCT	B0003	D	00002	24	20	233	1110	
FLDCT	B0003	D	00003	25	20	224	1008	
FLDCT	B0003	D	00004	26	20	255	1358	
FLDCT	B0003	D	00005	27	20	224	1008	
FLDCT	B0003	D	00006	28	20	194	670	
FLDCT	B0003	D	00007	29	20	240	1189	
FLDCT	B0003	D	00008	30	20	205	794	
FLDCT	B0003	D	00009	31	20	227	1042	
FLDCT	B0003	E	00001	32	20	234	1121	
FLDCT	B0003	E	00002	33	20	261	1426	
FLDCT	B0003	E	00003	34	20	246	1256	
FLDCT	B0003	E	00004	35	20	231	1087	
FLDCT	B0003	E	00005	36	20	200	737	
FLDCT	B0003	E	00006	37	20	238	1166	
FLDCT	B0003	E	00007	38	20	189	613	
FLDCT	B0003	E	00008	39	20	270	1527	
FLDCT	B0003	E	00009	40	20	225	1019	
FLDCT	B0003	E	00010	41	20	255	1358	
FLDCT	B0003	F	00001	42	20	232	1098	
LDCT	B0003	F	00002	43	20	226	1031	
LDCT	B0003	F	00003	44	20	211	861	
FLDCT	B0003	F	00004	45	20	225	1019	
FLDCT	B0003	F	00005	46	20	229	1064	

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 7/05/01  
File: 167

Report Date: 7/05/01

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Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	04F01	TAT01	02200	Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B0003	F	00006	47	20	258	1392	
FLDCT	B0003	F	00007	48	20	216	918	
FLDCT	B0003	F	00008	49	20	253	1335	
FLDCT	B0003	F	00009	50	20	188	602	
FLDCT	B0003	F	00010	51	20	289	1742	
FLDCT	B0002	F	00011	53	20	239	1177	
FLDCT	B0003	G	00005	54	20	202	760	
FLDCT	B0003	G	00006	55	20	257	1380	
FLDCT	B0003	G	00007	56	20	237	1155	
FLDCT	B0003	G	00008	57	20	245	1245	
FLDCT	B0003	G	00009	58	20	231	1087	
FLDCT	B0002	G	00010	59	20	246	1256	
FLDCT	B0002	G	00011	60	20	241	1200	
FLDCT	B0003	H	00007	61	20	201	749	
FLDCT	B0003	H	00008	62	20	239	1177	
FLDCT	B0003	H	00009	63	20	241	1200	
FLDCT	B0002	H	00010	64	20	280	1640	
FLDCT	B0002	H	00011	65	20	233	1110	
FLDCT	B0002	H	00012	66	20	238	1166	
FLDCT	B0003	I	00007	67	20	206	805	
FLDCT	B0003	I	00008	68	20	214	895	
FLDCT	B0003	I	00009	69	20	211	861	
FLDCT	B0002	I	00010	70	20	236	1143	
FLDCT	B0003	I	00011	71	20	290	1753	
FLDCT	B0003	I	00012	72	20	258	1392	
FLDCT	B0003	J	00008	73	20	246	1256	
FLDCT	B0003	J	00009	74	20	269	1516	
FLDCT	B0003	J	00010	75	20	253	1335	
FLDCT	B0003	J	00011	76	20	228	1053	
FLDCT	B0002	J	00012	77	20	232	1098	
FLDCT	B0003	K	00009	78	20	269	1516	
FLDCT	B0003	K	00010	79	20	233	1110	
FLDCT	B0003	K	00011	80	20	265	1471	
FLDCT	B0002	K	00012	81	20	283	1674	
FLDCT	B0003	L	00009	82	20	235	1132	
FLDCT	B0003	L	00010	83	20	237	1155	
FLDCT	B0003	L	00011	84	20	232	1098	
FLDCT	B0002	L	00012	85	20	254	1347	
FLDCT	B0002	L	00013	86	20	250	1301	
FLDCT	B0003	M	00009	87	20	215	906	
FLDCT	B0003	M	00010	88	20	222	985	
FLDCT	B0003	M	00011	89	20	248	1279	
FLDCT	B0003	M	00012	90	20	239	1177	
FLDCT	B0003	M	00013	91	20	222	985	
FLDCT	B0003	N	00009	92	20	211	861	
FLDCT	B0003	N	00010	93	20	219	952	
FLDCT	B0003	N	00011	94	20	250	1301	
FLDCT	B0003	N	00012	95	20	253	1335	
FLDCT	B0003	N	00013	96	20	275	1584	
FLDCT	B0003	O	00009	97	20	219	952	
FLDCT	B0003	O	00010	98	20	222	985	
FLDCT	B0003	O	00011	99	20	227	1042	

Group Average: 1157

\* Hi flag set at 2400 dpm/100 cm2

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Comments

Survey Code	L1 A0216	L2 04S01	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
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L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B9999	ZZZZZ	00000	188	600	2454	-597	
FLDBK	B9999	ZZZZZ	00000	199	600	2508	-576	

Group Average: -586

FLDCT	B9999	ZZZZZ	00001	189	20	99	-402	
FLDCT	B9999	ZZZZZ	00002	190	20	108	-301	
FLDCT	B9999	ZZZZZ	00003	191	20	93	-470	
FLDCT	B9999	ZZZZZ	00004	192	20	94	-459	
FLDCT	B9999	ZZZZZ	00005	193	20	122	-143	
FLDCT	B9999	ZZZZZ	00006	194	20	118	-188	
FLDCT	B9999	ZZZZZ	00007	195	20	227	1042	
FLDCT	B9999	ZZZZZ	00008	196	20	95	-448	
FLDCT	B9999	ZZZZZ	00009	197	20	78	-639	
FLDCT	B9999	ZZZZZ	00010	198	20	132	-30	

Group Average: -204

Survey Code	L1 A0216	L2 04W01	L3 TAT01	L4 02200	Setup Number 0 Det Cal Due: 12/06/01
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L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
LDDBK	B0001	ZZZZZ	00000	102	600	4551	192	
FLDBK	B0001	ZZZZZ	00000	187	600	3976	-24	

Group Average: 84

FLDCT	B0001	A	00001	103	20	199	726	
FLDCT	B0001	A	00002	104	20	209	839	
FLDCT	B0001	A	00003	105	20	203	771	
FLDCT	B0001	A	00004	106	20	223	997	
FLDCT	B0001	A	00005	107	20	229	1064	
FLDCT	B0001	A	00006	108	20	207	816	
FLDCT	B0001	A	00007	109	20	198	715	
FLDCT	B0001	A	00008	110	20	174	444	
FLDCT	B0001	A	00009	111	20	242	1211	
FLDCT	B0001	A	00010	112	20	195	681	
FLDCT	B0001	A	00011	113	20	208	828	
FLDCT	B0001	A	00012	114	20	189	613	
FLDCT	B0001	A	00013	115	20	191	636	
FLDCT	B0001	A	00014	116	20	183	545	
FLDCT	B0001	A	00015	117	20	214	895	
FLDCT	B0001	A	00016	118	20	200	737	
FLDCT	B0001	A	00017	119	20	187	591	
FLDCT	B0001	A	00018	120	20	166	354	
FLDCT	B0001	A	00019	121	20	214	895	
FLDCT	B0001	A	00020	122	20	209	839	
FLDCT	B0001	A	00021	123	20	215	906	
FLDCT	B0001	A	00022	124	20	235	1132	
FLDCT	B0001	B	00001	125	20	182	534	
FLDCT	B0001	B	00002	126	20	168	376	
FLDCT	B0001	B	00003	127	20	189	613	
FLDCT	B0001	B	00004	128	20	253	1335	
FLDCT	B0001	B	00005	129	20	201	749	
FLDCT	B0001	B	00006	130	20	198	715	
FLDCT	B0001	B	00007	131	20	182	534	
FLDCT	B0001	B	00008	132	20	219	952	
FLDCT	B0001	B	00009	133	20	192	647	
FLDCT	B0001	B	00010	134	20	214	895	

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 7/05/01  
File: 167

Report Date: 7/05/01

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Station: 2

Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	04W01	TAT01	02200	Det Cal Due: 12/06/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDCT	B0001	B	00011	135	20	228	1053	
FLDCT	B0001	B	00012	136	20	184	557	
FLDCT	B0001	B	00013	137	20	200	737	
FLDCT	B0001	B	00014	138	20	189	613	
FLDCT	B0001	B	00015	139	20	183	545	
FLDCT	B0001	B	00016	140	20	181	523	
FLDCT	B0001	B	00017	141	20	202	760	
FLDCT	B0001	B	00018	142	20	224	1008	
FLDCT	B0001	B	00019	143	20	230	1076	
FLDCT	B0001	B	00020	144	20	182	534	
FLDCT	B0001	B	00021	145	20	241	1200	
FLDCT	B0001	B	00022	146	20	183	545	

Group Average: 767

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	04W02	TAT01	02200	Det Cal Due: 12/06/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B0004	ZZZZZ	00000	147	600	3809	-87	
LDBK	B0004	ZZZZZ	00000	160	600	3869	-64	

Group Average: -76

FLDCT	B0004	A	00001	148	20	189	613	
FLDCT	B0004	A	00002	149	20	150	173	
FLDCT	B0004	A	00003	150	20	187	591	
FLDCT	B0004	A	00004	151	20	187	591	
FLDCT	B0004	A	00005	152	20	171	410	
FLDCT	B0004	A	00006	153	20	165	342	
FLDCT	B0004	B	00001	154	20	167	365	
FLDCT	B0004	B	00002	155	20	183	545	
FLDCT	B0004	B	00003	156	20	198	715	
FLDCT	B0004	B	00004	157	20	202	760	
FLDCT	B0004	B	00005	158	20	183	545	
FLDCT	B0004	B	00006	159	20	184	557	

Group Average: 517

Survey Code	L1	L2	L3	L4	Setup Number 0
	A0216	04W03	TAT01	02200	Det Cal Due: 12/06/01

L5 CntTy	L6 BkgSu	L7 Grid	L8 LocNm	Sample Number	Count Time	Gross Counts	Net dpm/100cm2	H i
FLDBK	B9999	ZZZZZ	00000	161	600	3573	-176	
FLDBK	B9999	ZZZZZ	00000	186	600	3540	-188	

Group Average: -182

FLDCT	B9999	A	00001	162	20	118	-188	
FLDCT	B9999	A	00002	163	20	125	-109	
FLDCT	B9999	A	00003	164	20	120	-166	
FLDCT	B9999	A	00004	165	20	113	-244	
FLDCT	B9999	A	00005	166	20	105	-335	
FLDCT	B9999	A	00006	167	20	125	-109	

\* Hi flag set at 2400 dpm/100 cm2

Survey Date: 7/05/01  
File: 167

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Comments

Survey Code	L1	L2	L3	L4	Setup Number 0
A0216	04W03	TAT01	02200		Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
FLDCT	B9999	A	00007	168	20	129	-64	
FLDCT	B9999	A	00008	169	20	116	-211	
FLDCT	B9999	A	00009	170	20	126	-98	
FLDCT	B9999	A	00010	171	20	144	105	
FLDCT	B9999	A	00011	172	20	125	-109	
FLDCT	B0001	A	00012	173	20	180	512	
FLDCT	B9999	B	00001	174	20	115	-222	
FLDCT	B9999	B	00002	175	20	122	-143	
FLDCT	B9999	B	00003	176	20	146	128	
FLDCT	B9999	B	00004	177	20	132	-30	
FLDCT	B9999	B	00005	178	20	140	60	
FLDCT	B9999	B	00006	179	20	122	-143	
FLDCT	B9999	B	00007	180	20	127	-87	
FLDCT	B9999	B	00008	181	20	110	-278	
FLDCT	B9999	B	00009	182	20	132	-30	
FLDCT	B9999	B	00010	183	20	121	-154	
FLDCT	B9999	B	00011	184	20	131	-41	
FLDCT	B0001	B	00012	185	20	175	455	

Group Average: -63

Survey Code	L1	L2	L3	L4	Setup Number 0
ZZZZZ	EZ260	TAT01	02200		Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
PRB00	ZZZZZ	ZZZZZ	00000	1	60	5672	19815	*
PRB00	ZZZZZ	ZZZZZ	00000	2	60	5912	20718	*
PRB00	ZZZZZ	ZZZZZ	00000	3	60	5630	19657	*

Group Average: 20063

PTB00	ZZZZZ	ZZZZZ	00000	201	60	5313	18465	*
PTB00	ZZZZZ	ZZZZZ	00000	202	60	5886	20620	*
PTB00	ZZZZZ	ZZZZZ	00000	203	60	5654	19747	*

Group Average: 19611

Survey Code	L1	L2	L3	L4	Setup Number 0
ZZZZZ	ZZZZZ	TAT01	02200		Det Cal Due: 12/06/01

L5	L6	L7	L8	Sample	Count	Gross	Net	H
CntTy	BkgSu	Grid	LocNm	Number	Time	Counts	dpm/100cm2	i
PRBBK	ZZZZZ	ZZZZZ	00000	0	600	4102	23	

Group Average: 23

PTBBK	ZZZZZ	ZZZZZ	00000	200	600	3956	-32	
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Group Average: -32

\* Hi flag set at 2400 dpm/100 cm2



Survey Date: 7/05/01  
File: 167

Report Date: 7/05/01

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Station: 2

Comments

Total Number of Measurements on this Report: 204

NOTE: This report is grouped by:  
Package (L1) (Package number)  
Setup number (Detector parameters)  
Det Type (L4) (GM pancake-flat surface, Beta 3.5-12" pipe, gamma at 1 m, etc.)  
Reason (L3-345) (Char survey, source check, final survey, etc.)  
Surface Cat (L2) (Wall, floor, drain, penetration, etc.)  
Count Type (L5) (Field count, bkg, pre-, post-, etc.)  
Bkgd Sub (L6) (Material code, i.e., wood, iron, concr, etc.)

GTS:0143 :C:\PDOX35\M2350\TLOGREVU.R2 12-01-97 JPA

L 80 M 03,133

\* Hi flag set at 2400 dpm/100 cm2

GTS DURATEK RADIOLOGICAL ENGINEERING & FIELD SERVICES

GEORGIA INSTITUTE OF TECHNOLOGY

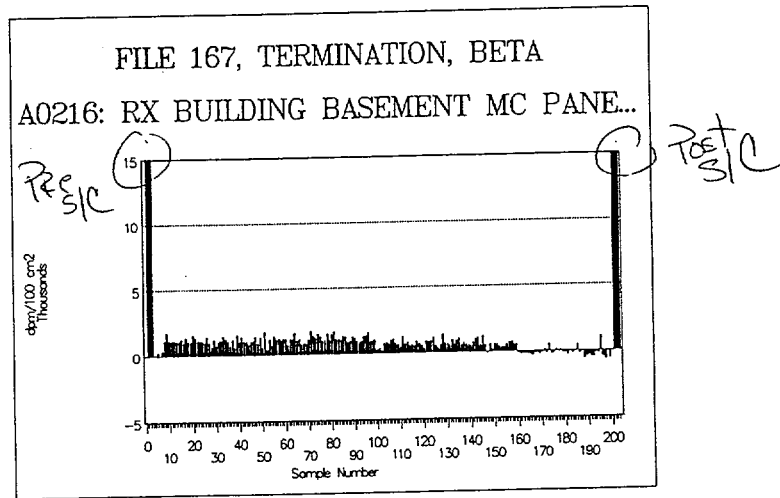
7/05/2001

Graph of File 167

Station: 2

Survey Date: 7/05/2001 Survey Start Time: 07:28:08

Description: A0216: RX BUILDING BASEMENT MC PANEL AREA



Flag set for 2400 dpm/100 cm<sup>2</sup>. Review values greater than this value.  
Review this graph for visual outliers.  
Mark outliers, source checks and backgrounds on the graph on this page.



I-SN	RPT	ID	ALPHA			BETA			DATE	TIME
			Eff: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm	Eff: 34.25%	Bkg: 1.60 cpm	MDA: 20.15 dpm		
			NET CPM	DPH	LIMITS	NET CPM	DPH	LIMITS		
001	00	1	0	0.00	0.00	3	0.20	0.58	07-05-2001	09:35:34
002	00	2	0	0.00	0.00	5	1.53	4.48	07-05-2001	09:37:33
003	00	3	0	0.00	0.00	4	0.87	2.53	07-05-2001	09:39:33
004	00	4	0	0.00	0.00	6	2.20	6.42	07-05-2001	09:41:32
005	00	5	1	0.67	1.91	2	-0.67	-1.94	07-05-2001	09:43:31
006	00	6	0	0.00	0.00	7	2.87	8.37	07-05-2001	09:45:30

Performed By: *[Signature]* Date: 7/5/01  
 Reviewed By: *[Signature]* Date: 7/11/01

FINAL SURVEY  
 PIC IPC9025 216712

03F01 C PIN 16

		ALPHA				BETA						
		Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm				Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm						
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	09:49:24
002	00	2	1	0.67	1.91		7	2.67	7.79		07-05-2001	09:51:23
003	00	3	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	09:53:22
004	00	4	0	0.00	0.00		3	0.20	0.58		07-05-2001	09:55:21
005	00	5	0	0.00	0.00		3	0.20	0.58		07-05-2001	09:57:20
006	00	6	0	0.00	0.00		6	2.20	6.42		07-05-2001	09:59:19

Performed By: *[Signature]* Date: 7/5/01  
 Reviewed By: *[Signature]* Date: 7/11/01

I-SR-I-RPT-I-ID	ALPHA					BETA					
	EFF: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm	EFF: 34.25%	Bkg: 1.50 cpm	MDA: 20.15 dpm	EFF: 34.97%	Bkg: 0.00 cpm	MDA: 5.17 dpm	EFF: 34.25%	Bkg: 1.50 cpm
001 00	0	0.00	0.00	5	1.53	4.48	07-05-2001 10:02:20				
002 00	0	0.00	0.00	4	0.97	2.53	07-05-2001 10:04:19				
003 00	0	0.00	0.00	7	2.87	8.37	07-05-2001 10:06:18				
004 00	0	0.00	0.00	5	1.53	4.48	07-05-2001 10:08:17				

Performed By: *[Signature]* Date: 7/5/01  
 Reviewed By: *[Signature]* Date: 7/11/01

Performed By:                      Date: 7/5/01  
 Reviewed By:                      Date: 7/11/01

001 00 5 0 0.00 0.00 1.53 4.48 07-05-2001 10:13:51  
 ID -- RPT -- ID -- COUNTS -- NET CFM -- DPM -- LIMITS -- COUNTS -- NET CFM -- DPM -- LIMITS -- DATE -- TIME --  
 ALPHA ----- BETA -----  
 E44: 34.97% BKG: 0.00 cpm WDA: 5.17 dpm E14: 34.25% BKG: 1.80 cpm WDA: 20.15 dpm

FINAL SURVEY  
P/E IPC9025 216712

03W01 A PIN 16

157

----- ALPHA -----										----- BETA -----									
Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm										Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm									
BN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME							
001	00	1	0	0.00	0.00		4	0.87	2.53		07-05-2001	10:26:43							
002	00	2	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	10:28:43							
003	00	3	0	0.00	0.00		4	0.87	2.53		07-05-2001	10:30:42							

Performed By: *[Signature]* Date: 7/5/01  
Reviewed By: *[Signature]* Date: 7/11/01



		ALPHA				BETA						
		Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm				Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm						
-SN-	-RPT-	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	1	0.67	1.91		0	-2.00	-5.84		07-05-2001	10:33:39
002	00	2	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	10:35:38
003	00	3	0	0.00	0.00		3	0.20	0.58		07-05-2001	10:37:37

Performed By:  Date: 7/5/01  
Reviewed By:  Date: 7/11/01

03W02 A PIN 16

FINAL SURVEY  
PIC IP69025 216712

ID	ALPHA			BETA			DATE	TIME
	NET CPM	DPH	LIMITS	NET CPM	DPH	LIMITS		
001 00	1	0.67	1.91	1	-3.89	20.15 dpm	07-05-2001	10:40:50
002 00	2	0.00	0.00	4	2.53	5.17 dpm	07-05-2001	10:42:49
003 00	3	0.00	0.00	2	-1.36	Eff: 34.25% Bkg: 1.80 cpm NDA: 20.15 dpm	07-05-2001	10:44:48
004 00	4	0.00	0.00	2	-1.36		07-05-2001	10:45:57
005 00	5	0.00	0.00	2	-1.36		07-05-2001	10:48:46

Performed By: *[Signature]* Date: 7/5/01  
 Reviewed By: *[Signature]* Date: 7/11/01

ALPHA					BETA							
Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm					Eff: 34.25% Bkg: 1.80 cpm NDA: 20.15 dpm							
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	1	0.67	1.91		5	1.33	3.90		07-05-2001	10:51:45
002	00	2	1	0.67	1.91		5	1.33	3.90		07-05-2001	10:53:44
003	00	3	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	10:55:43
004	00	4	0	0.00	0.00		3	0.20	0.58		07-05-2001	10:57:42
005	00	5	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	10:59:41

Performed By: *[Signature]* Date: 7/5/01  
Reviewed By: *[Signature]* Date: 7/11/01

ALPHA				BETA				DATE	TIME			
SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		5	1.53	4.48		07-05-2001	11:02:58
002	00	2	0	0.00	0.00		9	4.20	12.26		07-05-2001	11:04:58
003	00	3	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	11:06:57
004	00	4	0	0.00	0.00		5	1.53	4.48		07-05-2001	11:08:56
005	00	5	0	0.00	0.00		8	3.53	10.32		07-05-2001	11:10:55
006	00	6	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	11:12:54
007	00	7	0	0.00	0.00		3	0.20	0.58		07-05-2001	11:14:53
008	00	8	1	0.67	1.91		2	-0.67	-1.94		07-05-2001	11:16:52

Performed By: Melan Date: 7/5/01  
Reviewed By: P. O. G. Date: 7/11/01

SN	RPT	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00	-1.13	1	-3.31	0.00	0.00	07-05-2001	11:20:03
002	00	2	0	0.00	0.00	-1.13	1	-3.31	0.00	0.00	07-05-2001	11:22:02
003	00	3	0	0.00	0.00	0.20	3	0.58	0.00	0.00	07-05-2001	11:24:01
004	00	4	0	0.00	0.00	-1.13	1	-3.31	0.00	0.00	07-05-2001	11:26:00
005	00	5	0	0.00	0.00	-0.47	2	-1.36	0.00	0.00	07-05-2001	11:27:59
006	00	6	0	0.00	0.00	-1.13	1	-3.31	0.00	0.00	07-05-2001	11:29:58
007	00	7	0	0.00	0.00	-0.47	2	-1.36	0.00	0.00	07-05-2001	11:31:57
008	00	8	0	0.00	0.00	-1.13	1	-3.31	0.00	0.00	07-05-2001	11:33:56

-----ALPHA-----  
 Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm | Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm  
 -----BETA-----

Performed By: *[Signature]* Date: 7/5/01  
 Reviewed By: *[Signature]* Date: 7/11/01

				ALPHA				BETA					
				Eff: 34.97% Bkg: 0.00 cpm MDA: 5.17 dpm				Eff: 34.25% Bkg: 1.80 cpm MDA: 20.15 dpm					
-SN-	-RPT-	-- ID --		COUNTS	NET CPM	--- DPM ---	LIMITS	COUNTS	NET CPM	--- DPM ---	LIMITS	DATE	TIME
001	00	1		0	0.00	0.00		2	-0.47	-1.35		07-05-2001	12:06:06
002	00	2		0	0.00	0.00		3	0.20	0.58		07-05-2001	12:08:05
003	00	3		0	0.00	0.00		8	3.53	10.32		07-05-2001	12:10:04
004	00	4		0	0.00	0.00		1	-1.13	-3.31		07-05-2001	12:12:03

Performed By: *Mlu* Date: 7/5/01  
Reviewed By: *P. Lopez* Date: 7/11/01

ALPHA						BETA						
Eff: 34.97% Bkg: 0.00 cpm NDA: 5.17 dpm						Eff: 34.25% Bkg: 1.80 cpm NDA: 20.15 dpm						
-SN-	RPT-	ID	COUNTS	NET CPM	DPM	LIMITS	COUNTS	NET CPM	DPM	LIMITS	DATE	TIME
001	00	1	0	0.00	0.00		0	-1.80	-5.26		07-05-2001	12:14:59
002	00	2	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	12:16:58
003	00	3	0	0.00	0.00		2	-0.47	-1.36		07-05-2001	12:18:57
004	00	4	0	0.00	0.00		1	-1.13	-3.31		07-05-2001	12:20:56

Performed By: *[Signature]* Date: 7/5/02  
Reviewed By: *[Signature]* Date: 7/11/02