



070-00997

RS 93-012

Westinghouse
Electric Corporation

Commercial Nuclear
Fuel Division

Box 355
Pittsburgh Pennsylvania 15230-0355

February 24, 1993

U. S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Attention: Mr. C. T. Oberg

Subject: Third Submittal of Reports Concerning
Termination of License Number SNM-951
(Docket 70-997)

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 (Docket 70-997) for the site located in Large, Pennsylvania. Enclosed are five reports which document certain information concerning the site in the overall effort to demonstrate that the site meets all applicable regulatory requirements for release for unrestricted use and that therefore the license can be terminated. Additional reports will be sent as they become available. Attached is a table which lists the titles of the reports which have been and are being submitted.

If you have any questions concerning the attached information, please contact me at the above address or by telephone on 412-374-4652.

Very truly yours,

A. J. Nardi, Manager
Regulatory Services

dh

Enclosures

080166

9403210062 930224
PDR ADOCK 07000997
B PDR



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LICENSE TERMINATION REPORT

USNRC LICENSE

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	<u>Date Submitted</u>
REPORT #001 EVALUATION OF RADIATION DOSIMETERS DISTRIBUTED ON THE SITE, NOVEMBER 2, 1992	1/11/93
REPORT #002 REMOVAL OF THE MONITORED DRAIN LINE SYSTEM, NOVEMBER 24, 1992	1/11/93
REPORT #003 EVALUATION OF PORTIONS OF MONITORED DRAIN LINE SYSTEM ABANDONED IN PLACE, NOVEMBER 24, 1992	1/11/93
REPORT #004 DETERMINATION OF RADIOLOGICAL SURVEY ACCEPTANCE CRITERIA FOR LICENSE TERMINATION SURVEYS, DECEMBER 1, 1992	1/11/93
REPORT #005 FINAL RADIOLOGICAL SURVEY OF INCINERATOR BUILDING, DECEMBER 11, 1992	1/11/93
REPORT #006 PRELIMINARY SURVEY OF SELECTED SITE BUILDINGS, DECEMBER 7, 1992	1/11/93
REPORT #007 DETERMINATION OF SITE BACKGROUND VALUES FOR RADIOLOGICAL MEASUREMENTS, DECEMBER 18, 1992	2/12/93
REPORT #008 FINAL RADIOLOGICAL SURVEY OF PIT BEHIND BUILDING 5, JANUARY 6, 1993	2/12/93
REPORT #009 GENERAL INFORMATION RELATIVE TO RADIOLOGICAL SURVEYS OF BUILDINGS, JANUARY 6, 1993	2/12/93
REPORT #010 FINAL RADIOLOGICAL SURVEY OF PIPE CHASES WITHIN BUILDING NUMBER 9, JANUARY 6, 1993	2/12/93

REPORT #011 FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 8, (SURVEY SECTION 28E), JANUARY 26, 1993	2/24/93
REPORT #012 FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 7, (SURVEY SECTION 7), JANUARY 29, 1993	2/24/93
REPORT #013 FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 7, SECOND FLOOR, (SURVEY SECTION 28D), FEBRUARY 4, 1993	2/24/93
REPORT #014 FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 6A, (SURVEY SECTION 6), FEBRUARY 9, 1993	2/24/93
REPORT #015 FINAL RADIOLOGICAL SURVEY OF THE BASEMENT OF BUILDING NO. 4, (SURVEY SECTION 14), FEBRUARY 16, 1993	2/24/93

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY OF BUILDING NUMBER 8

(SURVEY SECTION 28E)

JANUARY 26, 1993

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

Report #011

FINAL RADIOLOGICAL SURVEY OF BUILDING NUMBER 8

(SURVEY SECTION 28E)

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FINAL RADIOLOGICAL SURVEY OF BUILDING NUMBER 8

(Survey Section 28E)

Purpose

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 for the site located in Large, PA. This report is one of a series of reports that presents the necessary information to establish that the site meets all applicable regulatory requirements so that the license can be terminated by the United States Nuclear Regulatory Commission.

Scope

This report documents the results of the final radiological survey of Building Number 8 on the Westinghouse Site in Large, PA. Included in the report is the original survey data sheets, the conversion of the results into units comparable with the acceptance criteria and a statistical analysis of the survey data in order to determine if the radiological acceptance criteria have been met at the desired degree of confidence. Report #009 defines the general information relative to the final radiological surveys of buildings under this program. Refer to that report for the following information:

- 1) Site Description
- 2) Radiological Acceptance Criteria
- 3) Survey Classification System
- 4) Classification of Building Area
- 5) Selection of Survey Instruments and Instrument Characterization
- 6) System for Identification of Survey Point Locations
- 7) Statistical Analysis of Survey Results
- 8) Survey Protocol

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 8 on the site. Figures 2 and 3 present the building floor plan for the first and second floors respectively. Under the survey classification scheme, this entire building had been classified as Class 1 (see Report #009). Appendix A incorporates all of the radiological survey data sheets. Table 1 presents the survey data with all the results converted, as appropriate, to the units necessary for comparison against the radiological acceptance criteria. A statistical analysis is included in Table 1 to determine if the acceptance criteria have been met at the desired degree of confidence.

In addition to the documented survey presented in this report, a random survey using a GM pancake probe (E-520 survey meter) was conducted of hard to reach areas throughout this building. This included such areas as pipe chases, floor drains, areas under steel seismic tables and openings in the wall. No elevated activity was encountered in any area.

Current Status

Building 8 is currently an occupied building performing seismic testing of equipment. These operations are expected to continue. No radioactive material is utilized nor is any such use anticipated.

Conclusions

The statistical analysis of the radiological survey data presented in this report indicates that the current condition of this building meets all the radiological acceptance criteria at the 95% confidence level. Therefore, this building can be released for unrestricted use. There is no potential for the building to become contaminated after the surveys which have been made and documented by this report as there is no further use of radioactive material on the site.

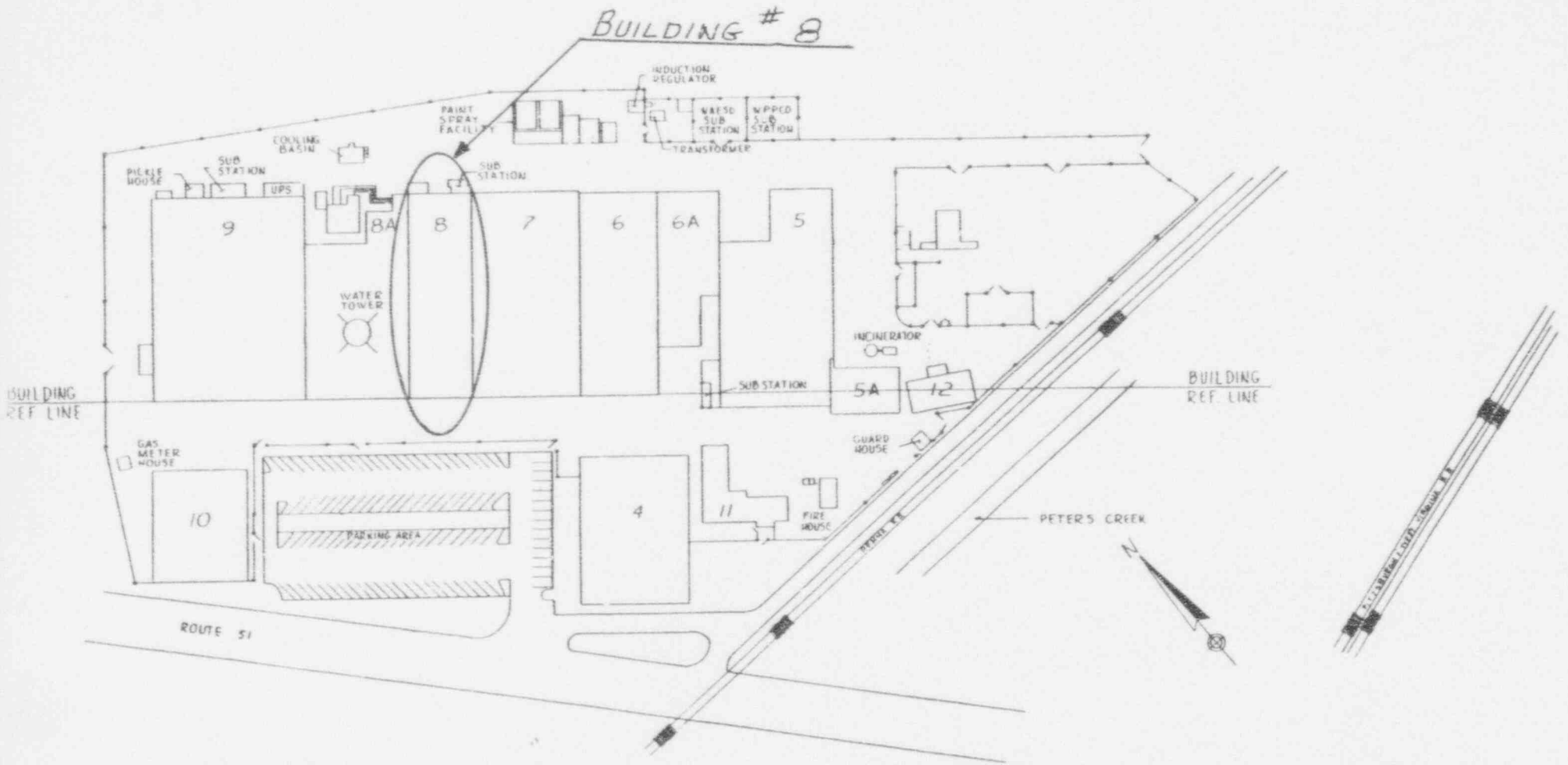


FIGURE 1
SITE PLOT PLAN

REV	DATE	DESCRIPTION OF REVISION	ISSUE NO.	PART NO.	QUANTITY	REVISION	REVISION	REVISION	REVISION
PARTS LIST									
UNLESS OTHERWISE SPECIFIED			DRAWING NO.		WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION				
DIMENSIONS SHOWN FOR ALL DIMENSIONS			DATE OF DRAWING		Pittsburgh, Pennsylvania				
TOLERANCES - DO NOT SCALE			PROJECT NO.		VAESD LARGE PA				
FRACTIONAL DECIMAL ANGLES			DRAWING TITLE		JN030				
HOLE DIA. DIA. ANGLES			SCALE		BY ACB WT CAC				
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HOLE DIA. DIA. ANGLES			SCALE		BY ACB WT CAC				

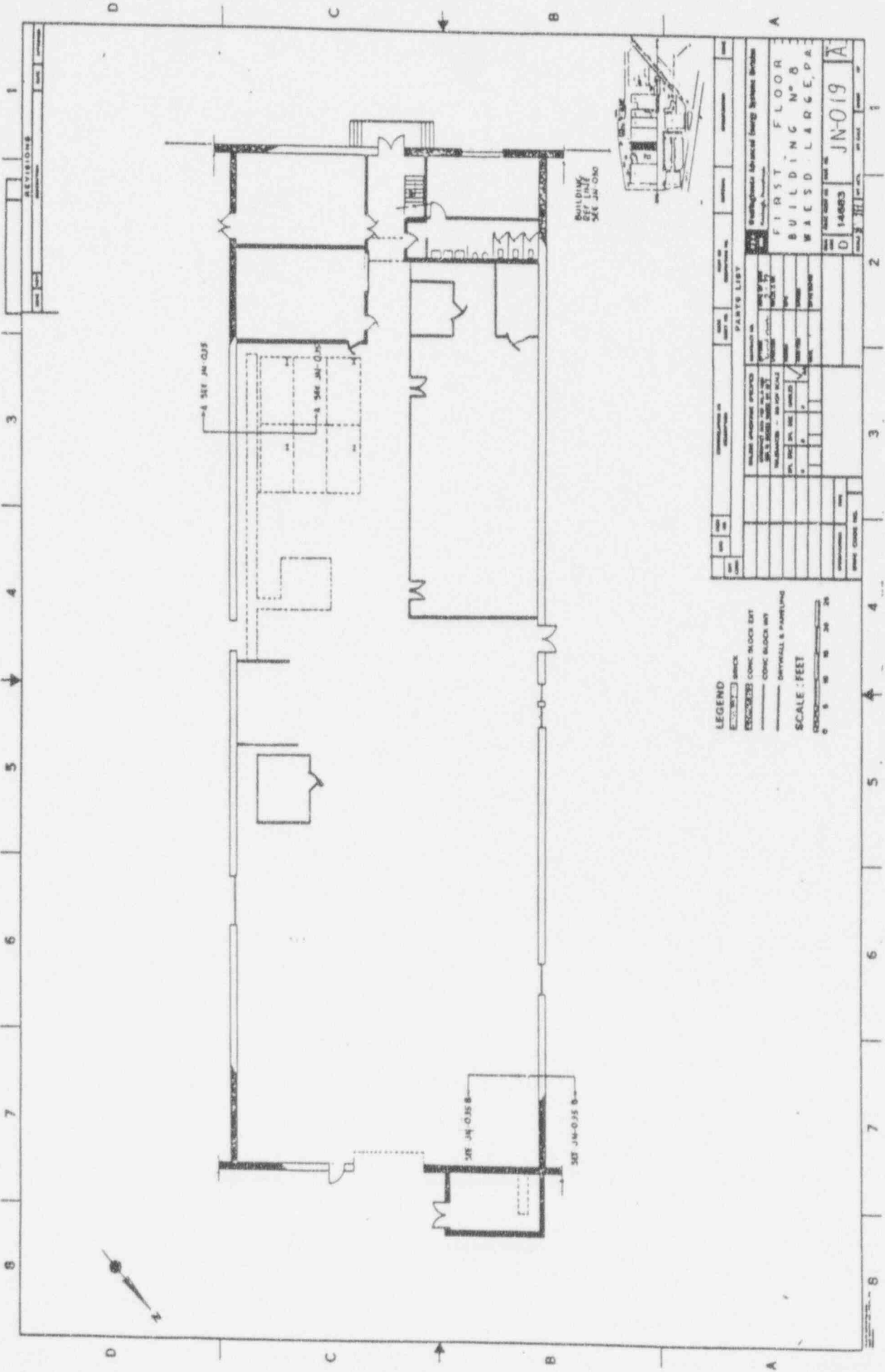


FIGURE 2
BUILDING 8 - FIRST FLOOR

X

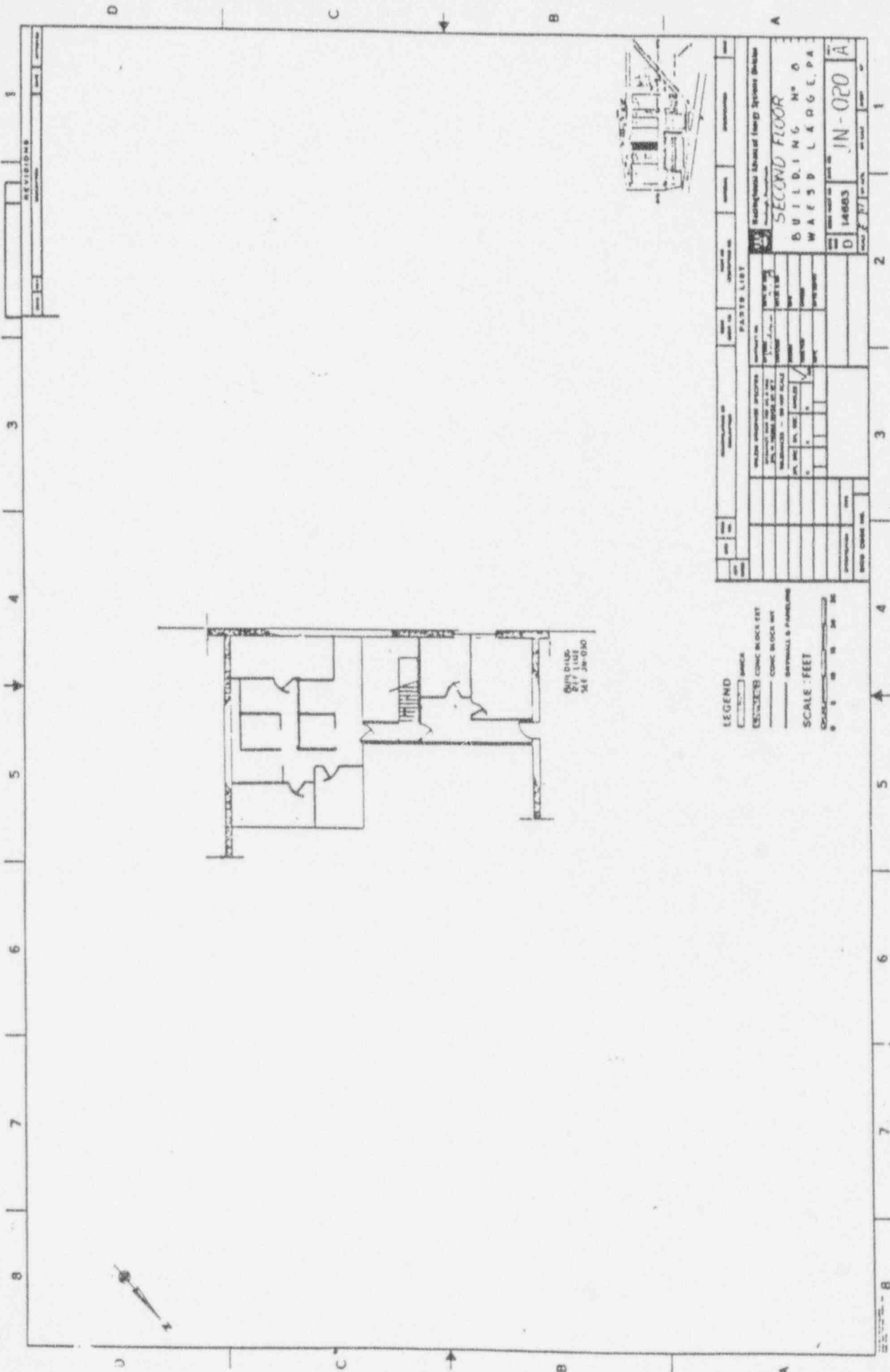


FIGURE 3

BUILDING 8 - SECOND FLOOR

TABLE 1
ANALYSIS OF SURVEY RESULTS AND COMPARISON WITH LIMITS FOR BUILDING #8 (UNIT 28E)

SURFACE DESCRIPTION	GRID	X, Y NEP POINT	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (nR/hr)	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
					MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
Painted concrete floor	N/A	10, -32	10	0.020	16.7	-19.0	-5.6	-203.0	-0.15	-2.82
"	"	10, -34	10	0.010	-129.3	-152.1	2.3	0.0	-0.15	3.10
"	"	10, -36	10	0.010	11.4	-22.8	7.9	-92.0	-0.15	-2.82
"	"	10, -38	11	0.010	57.0	0.0	7.9	-55.5	-0.15	-2.82
"	"	10, -50	11	0.020	-3.8	-95.0	-18.1	-85.2	-0.15	-2.82
"	"	12, -50	11	0.020	-47.9	-76.0	-24.8	-304.1	-0.15	-2.82
"	"	8, -56	12	0.020	-163.5	-190.1	-3.4	-148.3	-0.15	-2.82
"	"	6, -58	15	0.020	-3.8	-19.0	-12.4	-139.1	-0.15	3.28
"	"	12, -28	10	0.010	-15.2	-38.0	-10.2	-3.0	-0.15	3.28
"	"	12, 26	10	0.020	-37.3	-57.0	-6.8	2.3	-0.15	-2.82
"	"	12, -24	10	0.020	52.5	19.0	1.1	19.0	+0.15	-2.82
"	"	12, -22	10	0.010	64.6	38.0	-1.1	-15.2	-0.15	3.28
"	"	12, -20	10	0.020	43.3	22.8	13.5	-50.2	-0.15	-2.82
"	"	12, -18	10	0.010	21.3	-38.0	-1.1	-14.4	-0.15	-2.82
"	"	12, -16	10	0.020	115.6	76.0	13.5	14.4	-0.15	-2.82
Painted concrete floor	N/A	10, -2	11	0.010	-17.5	-38.0	-2.3	0.0	-0.15	-2.82
"	"	10, -4	11	0.010	17.5	-57.0	-2.3	-20.5	-0.15	-2.82
"	"	10, -6	11	0.010	-46.4	-114.1	7.9	-5.3	-0.15	-2.82
"	"	10, -8	11	0.020	1.5	-57.0	-13.5	-68.4	-0.15	-2.82
"	"	10, -10	11	0.010	20.5	-38.0	-7.9	-35.7	-0.15	11.28
"	"	10, -12	11	0.010	60.1	38.0	-4.5	0.0	-0.15	-2.82
"	"	10, -14	11	0.010	103.4	38.0	-10.2	-68.4	-0.15	-2.82
"	"	10, -16	11	0.020	73.0	53.2	-10.2	60.8	-0.15	-2.82
"	"	10, -18	11	0.020	35.0	0.0	-7.9	16.7	-0.15	-2.82
"	"	10, -20	11	0.030	16.7	0.0	-14.7	-12.2	-0.15	-2.82
"	"	10, -22	11	0.020	19.0	-19.0	5.6	129.3	-0.15	3.28
"	"	10, -24	11	0.020	-47.1	-114.1	-13.5	13.7	-0.15	-2.82
"	"	10, -26	11	0.010	-37.3	-53.2	11.3	31.2	-0.15	3.28
"	"	10, -28	11	0.010	3.0	-38.0	-6.8	-9.1	-0.15	3.10
"	"	10, -30	11	0.020	-54.7	-76.0	-1.1	38.8	-0.15	3.10
West wall	8, -3	N/A			166.4	67.2	-9.2	-41.6	7.81	-2.82
East wall	38, -5.4	"			147.2	-284.8	4.6	-3.2	-0.15	-2.82
"	24, -5.4	"			115.2	-188.8	4.6	-22.4	-0.15	3.16
"	17, -5.4	"			249.6	99.2	-9.2	19.2	-0.15	-2.82
"	9, -5.4	"			281.6	115.2	-9.2	102.4	-0.15	9.39
East wall	26, -2	N/A			-387.2	-556.8	0.0	-406.4	-0.15	3.28
"	12, -2	"			-380.8	-652.8	4.6	169.6	-0.15	9.39
West wall	40, -2	"			-400.0	-620.8	0.0	-464.0	-0.15	-2.82
"	50, -2	"			652.8	403.2	0.0	979.2	-0.15	-2.82
Ceiling-Beam	8, -18	"			-614.4	-940.8	4.6	-1113.6	-0.15	-2.82
"	10, -18	"			-374.4	-492.8	4.6	-486.4	-0.15	-2.82
"	12, -18	"			-368.0	-460.8	4.6	-390.4	-0.15	7.25
"	8, -12	"			-342.4	-428.8	0.0	-28.8	-0.15	-2.82
"	10, -12	"			-640.0	-716.8	4.6	-531.2	-0.15	-2.82
"	12, -12	"			-1568.0	-1676.8	0.0	-934.4	-0.15	-2.82
"	8, -6	"			76.8	-76.8	4.6	281.6	-0.15	3.28
"	10, -6	"			454.4	339.2	13.8	224.0	-0.15	-2.82
"	12, -6	"			1043.2	659.2	4.6	134.4	-0.15	9.39

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2.0	*	ESP2:1595-L	31.3%	3.20	379
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	55	*	FLMON:91943	30.3%	3.3	1550

SURVEY DATE: 1/12/93
COUNT DATE: 1/12/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Painted concrete	N/A	10, -32	10	.02	1572	1525	50	1283	-0.149	-2.82	Flomon used for scans and 1 min counts.
floor	"	10, -34	10	.01	1380	1350	57	1550	-0.149	3.10	
"	"	10, -36	10	.01	1565	1520	62	1429	-0.149	-2.82	"
"	"	10, -38	11	.01	1625	1550	62	1477	-0.149	-2.82	"
"	"	10, -50	11	.02	1545	1425	39	1438	-0.149	-2.82	"
"	"	12, -50	11	.02	1487	1450	33	1150	-0.149	-2.82	"
"	"	8, -56	12	.02	1335	1300	52	1355	-0.149	-2.82	"
"	"	6, -58	15	.02	1545	1525	44	1367	-0.149	3.28	"
"	"	12, -28	10	.01	1530	1500	46	1546	-0.149	3.28	"
"	"	12, 26	10	.02	1501	1475	49	1553	-0.149	-2.82	"
"	"	12, -24	10	.02	1619	1575	56	1575	-0.149	-2.82	"
"	"	12, -22	10	.01	1635	1600	54	1530	-0.149	3.28	"
"	"	12, -20	10	.02	1607	1580	67	1484	-0.149	-2.82	"
"	"	12, -18	10	.01	1578	1500	54	1531	-0.149	-2.32	"
"	"	12, -16	10	.02	1702	1650	67	1569	-0.149	-2.82	"

FORM SERIAL #: 28E-001 (Survey Section - Sequential survey #)	LOCATION # 28E-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0151	SURVEYOR SIGNATURE: T.S. <i>T. S. Schaffer</i>
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DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2.0	*	ESP2:1595-L	31.3%	3.20	379
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/12/93
COUNT DATE: 1/12/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Painted concrete	N/A	10, -2	11	.01	1527	1500	53	1550	-0.149	-2.82	Flomon used for scans and 1 min counts.
floor	"	10, -4	11	.01	1573	1475	53	1523	-0.149	-2.82	
"	"	10, -6	11	.01	1489	1400	62	1543	-0.149	-2.82	"
"	"	10, -8	11	.02	1552	1475	43	1460	-0.149	-2.82	"
"	"	10, -10	11	.01	1577	1500	48	1503	-0.149	11.28	"
"	"	10, -12	11	.01	1629	1600	51	1550	-0.149	-2.82	"
"	"	10, -14	11	.01	1686	1600	46	1460	-0.149	-2.82	"
"	"	10, -16	11	.02	1646	1620	46	1630	-0.149	-2.82	"
"	"	10, -18	11	.02	1596	1550	48	1572	-0.149	-2.82	"
"	"	10, -20	11	.03	1572	1550	42	1534	-0.149	-2.82	"
"	"	10, -22	11	.02	1575	1525	60	1720	-0.149	3.28	"
"	"	10, -24	11	.02	1488	1400	43	1568	-0.149	-2.82	"
"	"	10, -26	11	.01	1501	1480	65	1591	-0.149	3.28	"
"	"	10, -28	11	.01	1554	1500	49	1538	-0.149	3.10	"
"	"	10, -30	11	.02	1478	1450	54	1601	-0.149	3.10	"

FORM SERIAL #: 28E-001 (Survey Section - Sequential survey #)	LOCATION # 28E-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0152	SURVEYOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2.0	*	ESP2:1595-L	31.3%	3.20	379
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	55	*	FLMON:91943	30.3%	3.3	1550

SURVEY DATE: 1/12/93
COUNT DATE: 1/12/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/h
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
West wall	8, -3	N/A	N/A	N/A	431	400	0	366	7.807	-2.82	ESP's used for scans
East wall	38, -5.4	"	"	"	425	290	3.0	378	-0.149	-2.82	and 1 min counts.
"	24, -5.4	"	"	"	415	320	3.0	372	-0.149	3.10	"
"	17, -5.4	"	"	"	457	410	0	385	-0.149	-2.82	"
"	9, -5.4	"	"	"	467	415	0	411	-0.149	9.39	"

FORM SERIAL #: 28E-001 (Survey Section - Sequential survey #)	LOCATION # 28E-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0153	SURVEYOR SIGNATURE: M.S./T.S. <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/12/93
 Counting Unit id: 1
 Data file name: C:\LEQL\UNIT1\000101.XLD
 Batch Ended: 1/12/93 15:14
 Crosstalk Correction: Not Applied

28E0101.XLD

TSB 1-12-93

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

28E-1-1

Batch ID: TSB - 8-1-4 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 14:56
2	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/12/93 14:56
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 14:57
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 14:57
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 14:58
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 14:59
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 14:59
8	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/12/93 15:00
9	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/12/93 15:00
10	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 15:01
11	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:01
12	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/12/93 15:02
13	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:02
14	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 15:03
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:03
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:04
17	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 15:04
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 15:05
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:05
20	-0.149	0.79	<MDA	10.65	11.28	5.85	<AL	16.60	1.00	-0.055	5.60	1/12/93 15:06
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:07
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:07
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:08
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:08
25	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 15:09

LB5100W Low Background Counting System – Smear Analysis

Date: 1/12/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\28E0101.XLD
 Batch Ended: 1/12/93 15:14
 Crosstalk Correction: Not Applied

28E0101.XLD
TSB 1-12-93

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

28E-1-1
 Batch ID: TSB ~~8-4-4~~ floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/12/93 15:09
27	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 15:10
28	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/12/93 15:10
29	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/12/93 15:11
30	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/12/93 15:11
31	7.807	8.07	AI AL	27.24	-2.82	4.13	<MDA	35.16	0.34	2.886	-1.40	1/12/93 15:12
32	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:12
33	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/12/93 15:13
34	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 15:13
35	-0.149	1.37	<MDA	27.98	8.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/12/93 15:14

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	774
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/13/93
COUNT DATE: 1/13/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East wall	26, -2	N/A	N/A	N/A	653	600	0	647	-0.149	3.28	Background readings
"	12, -2	"	"	"	655	570	.999	827	-0.149	9.39	varied from 553-995 cpm
West wall	40, -2	"	"	"	649	580	0	629	-0.149	-2.82	beta for ESP #1595L due
"	50, -2	"	"	"	978	900	0	1080	-0.149	-2.82	to atmospheric inver-
Ceiling-Beam	8, -18	"	"	"	582	480	.999	426	-0.149	-2.82	sion which caused ele-
"	10, -18	"	"	"	657	620	.999	622	-0.149	-2.82	alpha/beta levels. An
"	12, -18	"	"	"	659	630	.999	652	-0.149	7.25	air analysis verified
"	8, -12	"	"	"	667	640	0	765	-0.149	-2.82	and results are attach-
"	10, -12	"	"	"	574	550	.999	608	-0.149	-2.82	ed on form #1007.
"	12, -12	"	"	"	284	250	0	482	-0.149	-2.82	
"	8, -6	"	"	"	798	750	.999	862	-0.149	3.28	
"	10, -6	"	"	"	916	880	3.0	844	-0.149	-2.82	
"	12, -6	"	"	"	1100	980	.999	816	-0.149	9.39	

FORM SERIAL #: 28E-002 (Survey Section - Sequential survey #)	LOCATION # 28E-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0154	SURVEYOR SIGNATURE: T.B. <i>T.B. [Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/13/93
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\28E0101U.XLD
 Batch Ended: 1/13/93 11:12
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 28E-1-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/13/93 11:05
2	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/13/93 11:05
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 11:06
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 11:06
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 11:07
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 11:07
7	-0.149	0.79	<MDA	10.65	7.25	5.11	<AL	16.60	1.00	-0.055	3.60	1/13/93 11:08
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 11:09
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 11:10
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 11:10
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/13/93 11:11
12	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/13/93 11:11
13	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/13/93 11:12

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/13/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\28E0101X.XLD
 Batch Ended: 1/13/93 15:46
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 28e-1-1 walls on 2nd floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/13/93 15:44
2	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/13/93 15:45
3	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/13/93 15:45
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/13/93 15:46

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 7
(SURVEY SECTION 7)

JANUARY 29, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #012

FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 7
(SURVEY SECTION 7)

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FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 7
(Survey Section 7)

Purpose

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 for the site located in Large, PA. This report is one of a series of reports that presents the necessary information to establish that the site meets all applicable regulatory requirements so that the license can be terminated by the United States Nuclear Regulatory Commission.

Scope

This report documents the results of the final radiological survey of the first floor of Building Number 7 on the Westinghouse Site in Large, PA. Included in the report is the original survey data sheets, the conversion of the results into units comparable with the acceptance criteria and a statistical analysis of the survey data in order to determine if the radiological acceptance criteria have been met at the desired degree of confidence. Report #009 defines the general information relative to the final radiological surveys of buildings under this program. Refer to that report for the following information:

- 1) Site Description
- 2) Radiological Acceptance Criteria
- 3) Survey Classification System
- 4) Classification of Building Area
- 5) Selection of Survey Instruments and Instrument Characterization
- 6) System for Identification of Survey Point Locations
- 7) Statistical Analysis of Survey Results
- 8) Survey Protocol

Survey information for the second floor of Building 7 (Survey Section 28D) will be documented in a separate report.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 7 on the site. Figure 2 presents the floor plan for the first floor of the building. This floor has been designated as Survey Section 7. (See Report #009). In addition, the floor was subdivided into units and subunits as shown on Figure 2. Each area has been assigned a Survey Classification as defined in

Report #009. Table 1 presents a summary of the assigned classification. Historically, only the front half of the building was known to have involved the use of radioactive material. The back half of the building had not been used as far as was known. It was administratively decided however to designate the back half and certain office areas as Class 3 rather than a lower classification.

Appendices A through F incorporate all of the radiological survey data sheets for each of the six survey units. Tables 2 through 7 present the survey data for each of the survey units with all the results converted, as appropriate, to the units necessary for comparison against the radiological acceptance criteria. A statistical analysis is included at the end of each table to determine if the acceptance criteria have been met at the desired degree of confidence. Table 8 presents a summary of the statistical information.

Floor scans of portions of each area were also conducted. Appendix G contains the radiological data survey sheets for these floor scans. Table 9 presents the results of the floor scan data in units directly comparable with the applicable acceptance criteria.

The statistical analysis presented in Table 7 for the gamma dose rate measurement at 1 meter above the surface indicates that the data does not pass the two statistical tests. These readings were primarily taken in the rest rooms and a review of the data indicates that the dose rate (micro R/hr) is elevated. This is apparently due to proximity of the brick walls in these small areas and possibly due to the ceramic fixtures. Since there is no other indication of contamination, no further action was taken.

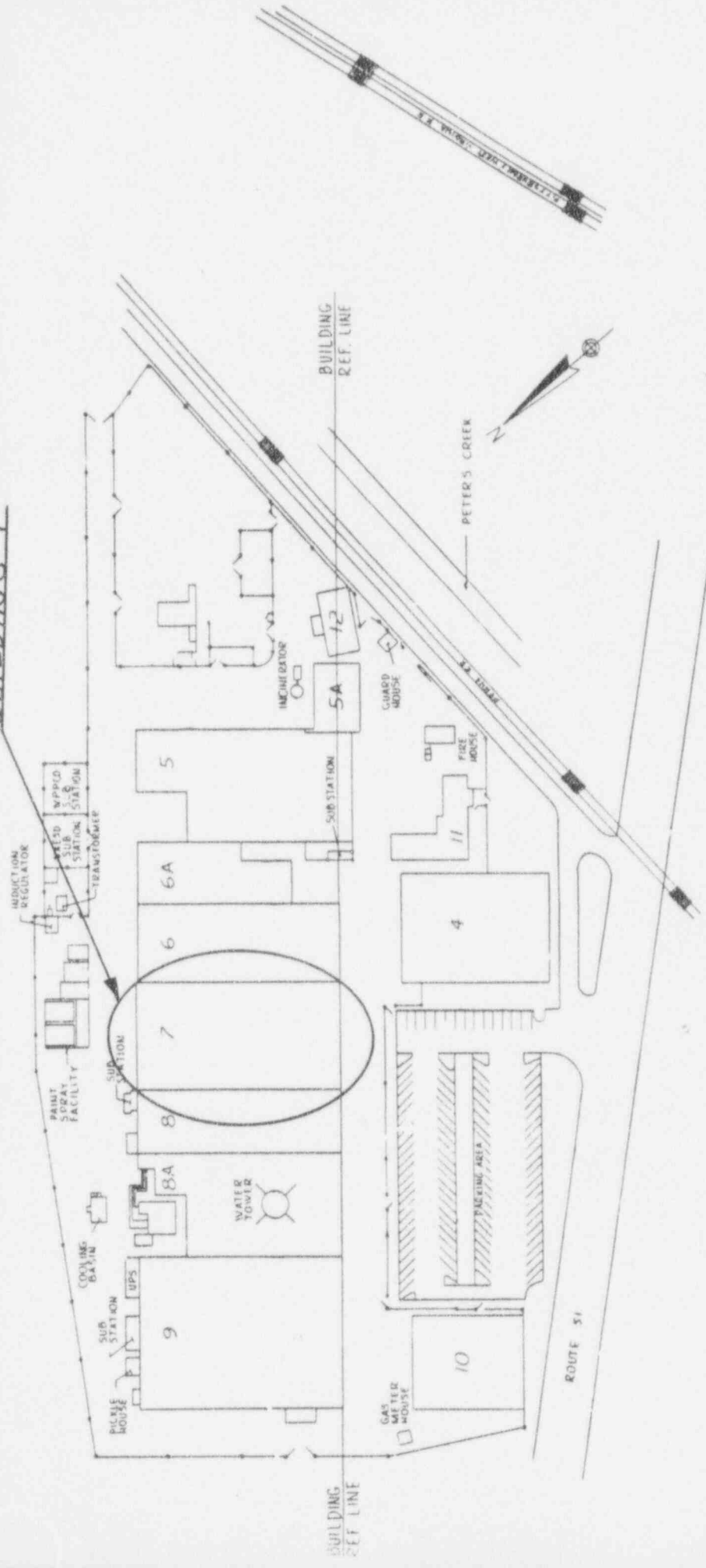
Current Status

Building 7 is an occupied area. It is anticipated that use of this building will continue throughout the project. No radioactive material is utilized except for the calibration and check sources used in the Project Health Physics Office which is located within this building. (See Figure 2).

Conclusions

The statistical analysis of the radiological survey data presented in this report indicates that the current condition of this building meets all the radiological acceptance criteria at the 95% confidence level with the exception noted above for the gamma dose rate at 1 meter in the rest room areas. Therefore, this building can be released for unrestricted use. The only current use of radioactive material is the small quantities associated with the calibration and check sources used in the Project Health Physics Office.

BUILDING 7



NO.	DATE	DESCRIPTION	BY	CHKD.	APP'D.	SCALE	DATE
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FIGURE 1
SITE PLOT PLAN

V A E S D L A R G E . P A
D 14683 JN030

TABLE 1

SURVEY CLASSIFICATION FOR THE FIRST FLOOR OF BUILDING 7

SURVEY SECTION	UNIT	SUBUNIT	CLASSIFICATION
7	1	1	4
7	1	2	4
7	2	1	4
7	3	1	4
7	4	1	3
7	4	2	3
7	4	3	3
7	4	4	3
7	4	5	3
7	4	6	3
7	4	7	3
7	4	8	3
7	5	1	3
7	5	2	3
7	5	3	3
7	6	1	3
7	6	2	3

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #7 (SECTION 7, UNIT 1)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMMA SURVEY #1 METER (μR/hr)	BETA/GAMMA SURVEY ON CONTACT (μR/hr)	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
						MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
Tile on Concrete	N/A	2, -2	7-1-1	10	0.010	148.3	133.1	5.6	133.8	-0.15	-2.82
"	"	4, -2	7-1-1	10	0.010	-3.0	-38.0	1.1	-49.4	-0.15	3.28
"	"	6, -2	7-1-1	10	0.020	54.0	-57.0	-4.5	132.2	-0.15	-2.82
"	"	8, -2	7-1-1	10	0.020	-54.0	-95.0	-21.5	-50.2	-0.15	-2.82
"	"	10, -2	7-1-1	11	0.010	-44.9	-64.6	-15.8	-6.8	-0.15	-2.82
"	"	12, -2	7-1-1	10	0.010	-33.5	-57.0	-6.8	-20.5	-0.15	-2.82
"	"	14, -2	7-1-1	10	0.010	-119.4	-133.1	2.3	-59.3	-0.15	-2.82
"	"	16, -2	7-1-1	10	0.020	-28.9	-57.0	13.5	-79.1	-0.15	9.03
"	"	18, -2	7-1-1	9	0.010	-6.1	-38.0	-16.9	-104.9	-0.15	-2.82
"	"	20, -2	7-1-1	10	0.020	-32.7	-57.0	-18.1	-70.7	-0.15	-2.82
"	"	22, -2	7-1-1	10	0.010	-73.8	-95.0	-16.9	-84.4	-0.15	-2.82
"	"	24, -2	7-1-1	10	0.010	-58.5	-95.0	14.7	-83.6	-0.15	9.03
"	"	26, -2	7-1-1	10	0.010	-107.2	-125.5	-14.7	-129.3	-0.15	-2.82
"	"	28, -2	7-1-1	9	0.010	-106.5	-171.1	1.1	-162.0	-0.15	9.03
"	"	30, -2	7-1-1	10	0.010	-125.5	-133.1	-16.9	-171.8	-0.15	-2.82
Tiled floor concrete	N/A	28, -4	7-1-1	10	0.010	-109.5	-133.1	-7.9	-158.9	-0.15	3.28
"	"	26, -4	7-1-1	9	0.020	-121.7	-152.1	-26.0	-140.7	-0.15	-2.82
"	"	24, -4	7-1-1	10	0.020	-0.8	-19.0	0.0	-25.9	-0.15	-2.82
North wall (Brick & Block)	N/A	4, -1.7	7-1-1			121.6	38.4	4.6	0.0	-0.15	-2.82
"	"	12, -1.7	7-1-1			83.2	6.4	0.0	-22.4	-0.15	3.10
"	"	14, -1.7	7-1-1			172.8	166.4	0.0	-41.6	-0.15	-2.82
"	"	16, -4.5	7-1-1			550.4	38.4	0.0	-48.0	-0.15	-2.82
"	"	18, -4.5	7-1-1			550.4	32.0	-4.6	44.8	-0.15	-2.82
"	"	22, -4.5	7-1-1			176.0	38.4	4.6	60.8	-0.15	-2.82
"	"	28, -4.5	7-1-1			259.2	102.4	9.2	108.8	-0.15	9.03
"	"	30, -4.5	7-1-1			448.0	-57.6	9.2	38.4	-0.15	3.28
South wall (A)	"	2, -4.5	7-1-1			550.4	194.4	4.6	48.0	-0.15	9.03
"	"	4, -4.5	7-1-1			550.4	-144.0	4.6	-38.4	-0.15	3.10
South wall (B)	"	4, -4.5	7-1-1			550.4	38.4	0.0	80.0	-0.15	-2.82
"	"	6, -4.5	7-1-1			150.4	-57.6	0.0	60.8	-0.15	-2.82
Floor, Tile	N/A	2, -2	7-1-2	12	0.010	60.1	-24.3	0.0	-76.0	-0.15	-2.82
"	"	2, -4	7-1-2	12	0.010	16.7	-24.3	-15.8	25.1	-0.15	-2.82
"	"	4, -2	7-1-2	13	0.010	6.1	-24.3	0.0	-79.8	-0.15	9.03
"	"	4, -4	7-1-2	14	0.010	44.1	13.7	15.8	-29.7	-0.15	-2.82
North Wall	"	2, -1.4	7-1-2			405.3	739.4	-55.3	157.7	-0.15	-2.82
"	"	6, -1.4	7-1-2			271.6	137.2	-50.8	172.3	-0.15	-2.82
East Wall	"	4, -1.4	7-1-2			487.6	239.4	-54.2	230.7	-0.15	3.28
South Wall	"	2, -1.4	7-1-2			622.0	254.0	-54.2	324.1	-0.15	-2.82
"	"	4, -1.4	7-1-2			575.2	312.4	-49.7	327.0	-0.15	-2.82
West Wall	"	2, -1.4	7-1-2			531.4	370.8	-54.2	146.0	-0.15	-2.82
Ceiling	10, -4	N/A	7-1-1			12.8	-92.8	4.6	-166.4	-0.15	3.10
"	12, -4	"	7-1-1			-147.2	-252.8	4.6	-195.2	-0.15	-2.82
"	14, -4	"	7-1-1			-124.8	-188.8	4.6	-217.6	-0.15	-2.82
"	8, -4	"	7-1-1			-99.2	-220.8	4.6	-224.0	-0.15	9.39
"	6, -4	"	7-1-1			-32.0	-124.8	0.0	-169.2	-0.15	-2.82
South wall (1)	N/A	2, -2.8	7-1-1			83.2	-12.8	23.0	-22.4	-0.15	-2.82
"	"	4, -2.8	7-1-1			137.6	19.2	18.4	-35.2	-0.15	-2.82
South wall (2)	"	0, -3.4	7-1-1			163.2	19.2	4.6	64.0	-0.15	-2.82
"	"	2, -3.4	7-1-1			83.2	-44.8	4.6	64.0	-0.15	-2.82
"	"	4, -3.4	7-1-1			179.2	83.2	9.2	44.8	-0.15	3.28
"	"	6, -3.4	7-1-1			19.2	-12.8	4.6	28.8	-0.15	3.28
West wall	"	27, -3.4	7-1-1			499.2	259.2	13.8	224.0	-0.15	-2.82
"	"	28, -3.4	7-1-1			275.2	243.2	0.0	128.0	-0.15	3.10
"	"	30, -3.4	7-1-1			272.0	147.2	0.0	121.6	-0.15	3.10
North wall	"	3, -5	7-1-1			67.2	19.2	0.0	0.0	-0.15	3.10
North wall	N/A	2, 0	7-1-1			630.4	54.4	0.0	0.0	-0.15	3.10
"	"	4, 0	7-1-1			921.6	118.4	4.6	83.2	-0.15	-2.82
"	"	6, 0	7-1-1			214.4	-25.6	-4.6	6.4	-0.15	-2.82
"	"	10, 0	7-1-1			268.8	150.4	-4.6	-38.4	-0.15	-2.82
"	"	2, 0	7-1-1			566.4	-294.4	-4.6	-137.6	-0.15	-2.82

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 47 (SECTION 7, UNIT 1)

SURFACE DESCRIPTION	GRID	I, Y REF POINT	LOCATION CODE	GAMMA SURVEY		BETA/GAMMA SURVEY		SCPN RESULTS		TOTAL FIRED ACTIVITY		REMOVABLE ACTIVITY	
				41 METER (microR/hr)	ON CONTACT (mR/hr)	MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)		
*	*	14, 0	7-1-1			54.4	-48.0	0.0	54.4	-0.15	-2.82		
*	*	16, -2.8	7-1-1			211.2	54.4	0.0	-3.2	-0.15	-2.82		
*	*	18, -2.8	7-1-1			70.4	38.4	-4.6	160.0	-0.15	-2.82		
*	*	20, -2.8	7-1-1			176.0	54.4	-4.6	70.4	-0.15	-2.82		
*	*	22, -2.8	7-1-1			-105.6	134.4	0.0	32.0	-0.15	3.28		
*	*	24, -2.8	7-1-1			204.8	86.4	-4.6	22.4	-0.15	3.10		
*	*	26, -2.8	7-1-1			54.4	-25.6	-9.2	102.4	-0.15	-2.82		
*	*	28, -2.8	7-1-1			214.4	102.4	-9.2	25.6	8.05	-2.82		
*	*	30, -2.8	7-1-1			310.4	214.4	-4.6	108.8	-0.15	-2.82		
East wall	*	2, -2.6	7-1-1			374.4	214.4	-4.6	189.6	-0.15	-2.82		

STATISTICAL ANALYSIS

NUMBER OF SAMPLES	22	22	70	70	70	70	70	70
MINIMUM	5.00	0.010	-147.2	-252.8	-55.3	-224.0	-0.15	-2.82
MAXIMUM	14.00	0.020	921.6	370.8	23.0	327.0	8.05	5.39
AVERAGE	10.41	0.013	170.2	25.2	-5.2	9.5	-0.03	-0.34
STANDARD DEVIATION	1.23	0.004	242.4	135.5	17.2	118.5	1.67	3.97
LIMIT	15	0.200	15,000	5,000	5,000	5,000	1,000	1,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	1.721	1.721	1.671	1.671	1.671	1.671	1.671	1.671
DATA TEST PARAMETER	10.86	0.01	218.64	52.26	-1.81	33.16	0.30	0.45
NUMBER OF SAMPLES FACTOR	3.73	42.05	61.17	36.72	290.59	42.11	598.82	252.00
DOES DATA SATISFY LIMIT CRITERIA?	YES	YES	YES	YES	YES	YES	YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES	YES	YES	YES	YES	YES	YES	YES

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #7 (SECTION 7, UNIT 2)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMMA SURVEY @ 1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (mR/hr)	SCAN RESULTS		TOTAL FIRED ACTIVITY		REMOVABLE ACTIVITY	
						MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
Ceiling Beam	14, -14	N/A	7-2-1			-6.4	-92.8	13.8	-92.2	-0.15	-2.82
"	12, -14	"	7-2-1			32.0	-92.8	0.0	-182.4	-0.15	3.10
"	10, -14	"	7-2-1			-92.8	-124.8	4.6	-150.4	-0.15	-2.82
"	8, -14	"	7-2-1			-38.4	-124.8	13.8	-105.6	-0.15	-2.82
"	6, -14	"	7-2-1			-9.6	-92.8	13.8	-92.8	-0.15	3.10
"	6, -14	"	7-2-1			-32.0	-124.8	4.6	-9.6	-0.15	-2.82
"	2, -14	"	7-2-1			76.8	-124.8	4.6	-54.4	-0.15	-2.82
"	2, -12	"	7-2-1			86.4	-60.8	4.6	-48.0	-0.15	-2.82
"	4, -12	"	7-2-1			-12.8	-92.8	9.2	-163.2	-0.15	3.28
"	6, -12	"	7-2-1			-44.8	-156.8	9.2	-121.6	-0.15	-2.82
"	8, -12	"	7-2-1			-28.8	-188.8	4.6	-208.0	-0.15	-2.82
"	10, -12	"	7-2-1			0.0	-124.8	0.0	-124.8	-0.15	9.39
"	12, -12	"	7-2-1			-115.2	-188.8	4.6	-150.4	-0.15	-2.82
"	14, -12	"	7-2-1			-44.8	-188.8	9.2	-233.6	-0.15	-2.82
"	14, -10	"	7-2-1			-86.4	-156.8	4.6	-217.6	-0.15	-2.82
Ceiling	12, -10	N/A	7-2-1			-28.8	-124.8	9.2	-204.8	-0.15	-2.82
"	10, -10	"	7-2-1			38.4	-156.8	13.8	-172.8	-0.15	-2.82
"	8, -10	"	7-2-1			-22.4	-124.8	0.0	-160.0	-0.15	-2.82
"	6, -10	"	7-2-1			9.6	-92.8	4.6	-144.0	-0.15	-2.82
"	4, -10	"	7-2-1			-28.8	-124.8	4.6	-156.8	7.81	-2.82
"	2, -10	"	7-2-1			-60.8	-124.8	4.6	-86.4	-0.15	-2.82
"	2, -8	"	7-2-1			99.2	-92.8	4.6	-92.8	8.05	-2.82
"	4, -8	"	7-2-1			-134.4	-220.8	4.6	-96.0	-0.15	-2.82
"	6, -8	"	7-2-1			-150.4	-252.8	9.2	-183.2	-0.15	-2.82
"	8, -8	"	7-2-1			9.6	-156.8	4.6	-121.6	-0.15	-2.82
"	10, -8	"	7-2-1			-137.6	-188.8	4.6	-148.8	-0.15	-2.82
"	12, -8	"	7-2-1			-134.4	-252.8	-56.5	-140.8	-0.15	-2.82
"	14, -8	"	7-2-1			-134.4	-188.8	-56.5	-211.2	-0.15	3.22
"	14, -6	"	7-2-1			-25.6	-124.8	-53.1	-176.0	-0.15	-2.82
"	12, -6	"	7-2-1			-6.4	-124.8	-55.3	-134.4	-0.15	-2.82
Floor-Painted Concrete	N/A	16, -4	7-2-1	10	0.010	89.0	-19.0	0.0	83.1	-0.15	-2.82
"	"	16, -6	7-2-1	11	0.010	140.7	114.1	-12.4	109.5	-0.15	3.28
"	"	16, -8	7-2-1	9	0.010	262.3	152.1	-3.4	292.7	-0.15	-2.82
"	"	16, -10	7-2-1	10	0.010	186.3	114.1	-11.3	174.1	-0.15	-2.82
"	"	16, -12	7-2-1	10	0.010	201.5	133.1	-5.6	207.6	-0.15	-2.82
"	"	16, -14	7-2-1	10	0.020	142.9	133.1	-7.9	221.3	-0.15	3.10
"	"	14, -12	7-2-1	10	0.010	168.8	-1037.9	-10.2	88.4	-0.15	-2.82
"	"	12, -12	7-2-1	10	0.010	88.2	57.0	-10.2	106.5	-0.15	-2.82
"	"	12, -14	7-2-1	8	0.010	11.4	-19.0	-2.3	-152.0	-0.15	-2.82
"	"	12, -10	7-2-1	10	0.010	100.4	38.0	-2.3	102.6	-0.15	-2.82
"	"	14, -10	7-2-1	10	0.020	104.9	87.4	-1.1	52.5	-0.15	3.28
"	"	12, -8	7-2-1	10	0.010	17.5	-19.0	-6.8	117.9	-0.15	-2.82
"	"	12, -6	7-2-1	10	0.010	116.3	95.0	-7.9	80.6	-0.15	-2.82
"	"	12, -6	7-2-1	10	0.010	186.3	76.0	0.0	111.8	-0.15	-2.82
"	"	10, -4	7-2-1	11	0.010	190.9	171.1	-5.6	174.9	-0.15	-2.82
Floor, painted Concrete	N/A	8, -4	7-2-1	10	0.010	208.3	171.1	0.0	234.5	-0.15	3.10
"	"	6, -4	7-2-1	9	0.020	236.5	201.5	2.3	205.3	-0.15	3.10
"	"	4, -4	7-2-1	10	0.020	245.6	190.1	-4.5	188.6	-0.15	3.28
"	"	2, -4	7-2-1	10	0.030	178.7	57.0	6.8	176.4	-0.15	3.10
"	"	10, -6	7-2-1	9	0.030	168.8	95.0	-11.3	133.1	-0.15	-2.82
"	"	10, -12	7-2-1	10	0.020	215.9	171.1	-10.2	158.9	-0.15	3.28
"	"	8, -12	7-2-1	9	0.010	122.4	87.4	1.1	144.5	-0.15	-2.82
"	"	8, -14	7-2-1	9	0.030	-39.5	-95.0	-6.8	-120.9	-0.15	-2.82
"	"	6, -14	7-2-1	11	0.020	175.6	133.1	-3.4	158.9	-0.15	-2.82
"	"	4, -14	7-2-1	11	0.030	215.2	171.1	-15.8	193.9	-0.15	-2.82

TABLE 4

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #7 (SECTION 7, UNIT 3)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMMA	BETA/GAMMA	SCAN	RESULTS	TOTAL FIRED ACTIVITY		REMOVABLE ACTIVITY	
				SURVEY #1 METER (microR/hr)	SURVEY ON CONTACT (mR/hr)	MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
Concrete floor	N/A	14, -16	7-3-1	10	0.010	-60.1	-68.4	-9.0	-11.4	-0.15	-2.82
"	"	14, -18	7-3-1	10	0.020	-114.8	-144.5	4.5	-52.5	-0.15	-2.82
"	"	14, -20	7-3-1	10	0.010	-157.4	-182.5	-2.3	-92.0	-0.15	3.28
"	"	14, -22	7-3-1	11	0.010	-71.5	-87.4	0.0	-38.8	-0.15	-2.82
"	"	14, -24	7-3-1	11	0.020	-97.3	-114.1	-5.6	-60.8	-0.15	-2.82
"	"	14, -26	7-3-1	10	0.020	-146.0	-163.5	-13.5	-36.5	-0.15	5.24
"	"	14, -28	7-3-1	11	0.040	-123.2	-163.5	-5.6	-127.0	-0.15	3.10
"	"	12, -28	7-3-1	9	0.020	-139.9	-174.9	-12.4	-138.4	-0.15	-2.82
"	"	12, -26	7-3-1	9	0.010	-121.7	-144.5	3.4	-146.0	-0.15	-2.82
"	"	12, -24	7-3-1	10	0.020	-148.3	-163.5	0.0	-146.0	-0.15	-2.82
"	"	12, -22	7-3-1	10	0.010	-124.7	-163.5	3.4	-104.2	-0.15	3.28
"	"	12, -20	7-3-1	10	0.010	-48.4	-83.6	-12.4	-90.5	-0.15	3.10
"	"	12, -18	7-3-1	9	0.010	-50.9	-87.4	-23.7	-35.0	-0.15	-2.82
"	"	12, -16	7-3-1	9	0.010	-71.5	-106.5	-7.9	-95.8	-0.15	9.03
"	"	10, -16	7-3-1	9	0.010	-25.1	-106.5	-18.1	-138.4	-0.15	-2.82
Concrete floor	N/A	10, -18	7-3-1	9	0.020	-49.4	-68.4	9.0	-95.0	-0.15	3.28
"	"	10, -20	7-3-1	10	0.010	14.4	-68.4	-19.2	-164.2	-0.15	-2.82
"	"	10, -22	7-3-1	10	0.010	-43.3	-53.2	-6.8	-92.0	-0.15	-2.82
"	"	10, -24	7-3-1	9	0.010	-116.3	-144.5	-9.0	-56.3	-0.15	-2.82
"	"	10, -26	7-3-1	9	0.020	-180.2	-220.5	-13.5	-144.5	-0.15	-2.82
"	"	10, -28	7-3-1	9	0.010	-198.9	-220.5	5.6	-244.8	-0.15	-2.82
"	"	4, -16	7-3-1	10	0.010	-60.8	-174.9	-5.6	-142.2	-0.15	-2.82
"	"	4, -18	7-3-1	8	0.010	-51.7	-121.7	4.5	-94.3	-0.15	-2.82
"	"	4, -20	7-3-1	10	0.010	-86.7	-106.5	-20.3	-85.9	-0.15	-2.82
"	"	2, -20	7-3-1	10	0.020	-86.9	-106.5	-7.9	-101.1	-0.15	9.03
"	"	2, -22	7-3-1	10	0.020	13.7	-68.4	-11.3	-120.1	-0.15	-2.82
"	"	2, -24	7-3-1	10	0.020	-104.9	-125.5	7.9	-99.6	-0.15	-2.82
"	"	2, -26	7-3-1	11	0.020	16.7	-68.4	-19.2	-96.6	-0.15	3.28
"	"	4, -26	7-3-1	9	0.010	-67.7	-106.5	-2.3	-129.3	-0.15	-2.82
"	"	6, -16	7-3-1	9	0.010	-121.7	-144.5	-15.8	-146.8	-0.15	-2.82
Ceiling Beam	14, -28	N/A	7-3-1			-102.4	-214.4	13.8	-345.6	-0.15	-2.82
"	12, -28	"	7-3-1			28.8	-182.4	4.6	-272.0	-0.15	9.03
"	10, -28	"	7-3-1			-166.4	-374.4	0.0	-268.8	-0.15	3.10
"	6, -28	"	7-3-1			-252.8	-342.4	13.8	-316.8	-0.15	-2.82
"	4, -28	"	7-3-1			-278.4	-342.4	-4.6	-259.2	-0.15	-2.82
"	14, -26	"	7-3-1			-208.0	-374.4	4.6	-326.4	-0.15	-2.82
"	12, -26	"	7-3-1			-192.0	-291.2	-4.6	-297.6	-0.15	-2.82
"	10, -26	"	7-3-1			-332.8	-438.4	0.0	-313.6	-0.15	3.10
"	8, -26	"	7-3-1			-275.2	-342.4	0.0	-345.6	-0.15	-2.82
"	4, -26	"	7-3-1			-268.8	-374.4	9.2	-262.4	-0.15	3.10
"	14, -24	"	7-3-1			-144.0	-246.4	0.0	-307.2	-0.15	3.10
"	12, -24	"	7-3-1			-262.4	-374.4	0.0	-336.0	-0.15	3.28
"	10, -24	"	7-3-1			-256.0	-342.4	-4.6	-326.4	-0.15	-2.82
"	6, -24	"	7-3-1			-252.8	-374.4	-4.6	-294.4	-0.15	-2.82
"	4, -24	"	7-3-1			-124.8	-246.4	0.0	-224.0	-0.15	-2.82
Ceiling Beam	2, -24	N/A	7-3-1			-131.2	-214.4	0.0	-220.8	-0.15	3.10
"	14, -22	"	7-3-1			-265.6	-406.4	4.6	-415.2	-0.15	-2.82
"	12, -22	"	7-3-1			-364.8	-438.4	0.0	-451.2	-0.15	-2.82
"	10, -22	"	7-3-1			-249.6	-374.4	0.0	-297.6	-0.15	3.28
"	6, -22	"	7-3-1			-278.4	-374.4	4.6	-435.2	-0.15	-2.82
"	4, -22	"	7-3-1			-358.4	-438.4	4.6	-358.4	-0.15	3.28
"	2, -22	"	7-3-1			-204.8	-342.4	4.6	-246.4	-0.15	-2.82
"	14, -20	"	7-3-1			-326.4	-406.4	4.6	-441.6	-0.15	-2.82
"	12, -20	"	7-3-1			-249.6	-374.4	9.2	-400.0	-0.15	-2.82
"	10, -20	"	7-3-1			-374.4	-438.4	4.6	-336.0	-0.15	-2.82
"	8, -20	"	7-3-1			-326.4	-374.4	4.6	-377.6	-0.15	-2.82
"	4, -20	"	7-3-1			-208.0	-310.4	0.0	-297.6	-0.15	3.10
"	2, -20	"	7-3-1			-144.0	-310.4	9.2	-307.2	-0.15	9.03
"	14, -18	"	7-3-1			-204.8	-374.4	0.0	-355.2	-0.15	-2.82
"	12, -18	"	7-3-1			-275.2	-374.4	9.2	-288.0	-0.15	3.28

TABLE 5
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 47 (SECTION 7, UNIT 4)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION	GAMMA SURVEY @ 1 METER (μCi/hr)	BETA/GAMMA SURVEY (CN CONTACT) (NR/hr)	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
						MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
Floor	N/A	2, -2	7-4-4	10	0.015	5.3	-44.1	-11.3	0.0	-0.15	-2.82
"	"	4, -2	7-4-4	9	0.016	42.3	-6.1	19.2	40.3	-0.15	-2.82
"	"	6, -2	7-4-4	11	0.020	50.2	31.9	15.8	19.0	-0.15	-2.82
"	"	8, -2	7-4-4	10	0.010	39.5	12.9	-11.3	30.4	-0.15	3.28
"	"	10, -2	7-4-4	10	0.010	7.6	-25.1	-12.4	22.6	-0.15	9.39
"	"	6, 0	7-4-4	10	0.012	85.2	50.9	0.0	28.1	-0.15	-2.82
"	"	6, 2	7-4-4	11	0.018	47.1	31.9	-6.8	73.0	-0.15	-2.82
South Wall	"	6, -5	7-4-4			220.8	12.6	4.6	6.4	-0.15	3.10
"	"	8, -5	7-4-4			156.8	-67.2	4.6	35.2	-0.15	9.39
"	"	10, -5	7-4-4			83.2	12.6	0.0	57.6	-0.15	3.10
West Wall	"	2, -5	7-4-4			134.4	-59.2	-4.6	51.2	-0.15	3.26
"	"	4, -5	7-4-4			220.8	-51.2	0.0	44.8	-0.15	-2.82
"	"	6, -5	7-4-4			268.8	12.6	0.0	-14.0	-0.15	-2.82
"	"	8, -5	7-4-4			172.8	12.6	0.0	-22.4	-0.15	-2.82
Floor	N/A	2, -4	7-4-7	14	0.015	172.6	108.0	0.0	122.4	-0.15	-2.82
"	"	2, -4	7-4-7	15	0.015	96.6	70.0	7.9	55.5	-0.15	9.39
"	"	2, -6	7-4-7	13	0.012	102.6	70.0	4.5	89.0	-0.15	-2.82
Floor	N/A	2, -4	7-4-1	13	0.009	333.0	239.5	-18.1	359.7	-0.15	3.10
East wall	N/A	8, -3.5	7-4-1			140.8	339.2	9.2	329.6	-0.15	3.28
"	"	10, -3.5	7-4-1			457.6	371.2	4.6	368.0	-0.15	-2.82
"	"	6, -3.5	7-4-1			425.6	275.2	0.0	364.8	-0.15	3.10
Floor	N/A	2, -2	7-4-2	9	0.022	12.9	-3.8	-24.8	-40.3	-0.15	-2.82
"	"	4, -2	7-4-2	9	0.020	17.5	-7.6	-2.3	-66.9	-0.15	-2.82
"	"	6, -2	7-4-2	9	0.015	-73.0	-83.6	-7.9	-54.0	-0.15	-2.82
"	"	6, -10	7-4-2	9	0.021	163.2	32.0	9.2	131.2	-0.15	3.10
Floor	N/A	8, -16	7-4-3	9	0.015	221.3	165.8	-3.4	205.3	8.05	-2.82
"	"	6, -16	7-4-3	8	0.010	253.2	219.0	-3.4	254.0	8.05	3.28
"	"	8, -18	7-4-3	10	0.014	249.4	181.0	-5.0	177.2	-0.15	3.28
"	"	8, -20	7-4-3	10	0.005	135.3	97.3	-3.4	209.9	-0.15	3.28
"	"	8, -22	7-4-3	9	0.011	112.5	44.1	5.6	111.8	0.15	-2.82
"	"	8, -24	7-4-3	9	0.010	95.8	28.9	4.5	44.1	-0.15	9.39
"	"	8, -26	7-4-3	10	0.017	101.9	47.9	-5.6	89.0	-0.15	3.26
"	"	8, -28	7-4-3	9	0.018	70.7	59.3	5.6	38.8	-0.15	2.82
"	"	6, -28	7-4-3	9	0.012	82.1	28.9	-2.3	0.0	-0.15	-2.82
Lights	N/A	1, 1	7-4-4			192.0	112.0	4.6	243.2	-0.15	3.10
"	"	1, 2	7-4-4			128.0	80.0	13.8	192.0	-0.15	-2.82
"	"	1, 3	7-4-4			224.0	160.0	18.4	304.0	-0.15	-2.82
"	"	2, 1	7-4-4			214.4	192.0	4.6	166.4	-0.15	3.10
"	"	2, 2	7-4-4			243.2	192.0	4.6	160.0	-0.15	-2.82
"	"	2, 3	7-4-4			227.2	192.0	9.2	249.6	-0.15	-2.82
"	"	2, 4	7-4-4			304.0	256.0	0.0	230.4	-0.15	-2.82
"	"	0, -3	7-4-4			214.4	96.0	9.2	3.2	-0.15	-2.82
"	"	0, -1	7-4-4			153.6	64.0	0.0	-76.8	-0.15	3.28
"	"	0, -5	7-4-4			105.6	64.0	0.0	-41.6	-0.15	-2.82
"	"	0, -7	7-4-4			163.2	96.0	0.0	35.2	-0.15	-2.82
"	"	0, -9	7-4-4			86.4	48.0	27.6	9.6	0.15	-2.82
"	"	0, -11	7-4-4			64.0	64.0	4.6	-28.8	0.15	-2.82
"	"	0, -13	7-4-4			156.8	112.0	4.6	-67.2	-0.15	-2.82
East Wall	N/A	-22, -1	7-4-7			281.6	192.0	0.0	243.2	-0.15	-2.82
"	"	-20, -1	7-4-7			480.0	224.0	4.6	163.2	-0.15	-2.82
Ventilation over head	"	-2, -2	7-4-7			464.0	192.0	0.0	574.0	-0.15	-2.82
"	"	-2, -3	7-4-7			285.6	160.0	0.0	246.4	-0.15	-2.82
"	"	-2, -4	7-4-7			214.4	112.0	4.6	112.0	-0.15	-2.82
Upper Surfaces	"	-2, -6	7-4-7			195.2	180.0	4.6	227.2	-0.15	-2.82
"	"	-2, -7	7-4-7			259.2	192.0	4.6	268.8	-0.15	-2.82
"	"	-2, -8	7-4-7			272.0	240.0	0.0	186.4	-0.15	3.28
"	"	-2, -9	7-4-7			291.2	192.0	9.2	179.2	-0.15	-2.82
Ventilation Beam	N/A	2, 0	7-4-8			156.8	80.0	-9.2	201.6	-0.15	-2.82
"	"	0, -2	7-4-8			182.4	144.0	13.8	74.8	-0.15	-2.82

TABLE 5
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #7 (SECTION 7, UNIT 4)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION	GAMMA SURVEY #1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (pR/hr)	SCAN RESULTS		TOTAL FIELD ACTIVITY		REMOVABLE ACTIVITY	
						MAXIMUM	AVERAGE	ALPHA	BETA	ALPHA	BETA
						BETA	BETA	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
East Wall		-23, -1	7-4-8			368.0	320.0	4.6	409.6	-0.15	9.03

STATISTICAL
ANALYSIS

NUMBER OF SAMPLES	24	24	60	60	60	60	60	60	60
MINIMUM	6.00	0.005	-73.0	-99.2	-24.8	-78.8	-0.15	-2.82	
MAXIMUM	15.00	0.022	480.0	371.2	27.6	576.0	8.05	9.39	
AVERAGE	10.21	0.014	176.9	101.7	1.9	123.5	0.12	0.20	
STANDARD DEVIATION	1.76	0.004	117.1	105.0	8.6	137.2	1.37	3.89	
LIMIT	15	0.200	15,000	5,000	5,000	5,000	1,000	1,000	
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	2.015	2.015	1.671	1.671	1.671	1.671	1.671	1.671	1.671
DATA TEST PARAMETER	10.93	0.02	202.17	124.38	3.80	153.08	0.42	0.64	
"NUMBER OF SAMPLES" FACTOR	2.73	44.17	126.59	48.46	579.35	35.54	729.84	257.39	
DOES DATA SATISFY LIMIT CRITERIA?	YES	YES	YES	YES	YES	YES	YES	YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES	YES	YES	YES	YES	YES	YES	YES	YES

TABLE 6
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 7 (SECTION 7, UNIT 5)

SURFACE DESCRIPTION	GRID	I, Y REF POINT	LOCATION	GAMMA SURVEY @1 METER microR/hr	BETA/GAMMA SURVEY ON CONTACT (mR/hr)	SCAN RESULTS		TOTAL FIELD ACTIVITY		REMOVABLE ACTIVITY	
						MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
		N/A	7-5-1			28.8	-64.0	8.6	-32.0	-0.15	-2.82
			7-5-1			44.8	-32.0	4.6	-38.4	-0.15	-2.82
			7-5-1			89.6	32.0	0.0	-22.4	-0.15	-2.82
			7-5-1			137.6	-32.0	-4.6	0.0	-0.15	9.39
			7-5-1			140.8	0.0	-4.6	-64.0	-0.15	-2.82
			7-5-1			12.8	-64.0	0.0	-96.0	-0.15	3.28
			7-5-1			80.0	-32.0	-4.6	-6.4	-0.15	-2.82
			7-5-1			48.0	-80.0	-4.6	-22.4	-0.15	3.28
			7-5-1			96.0	16.0	13.8	-3.2	-0.15	9.39
			7-5-1			102.4	0.0	-4.6	-6.4	-0.15	9.39
			7-5-1			89.6	32.0	0.0	-28.8	0.15	3.10
			7-5-1			44.8	-32.0	0.0	-22.4	-0.15	-2.82
			7-5-1			88.4	0.0	0.0	41.6	-0.15	-2.82
			7-5-1			112.0	0.0	0.0	54.4	-0.15	3.28
			7-5-1			41.6	-32.0	4.6	-3.2	-0.15	9.39
			7-5-1			89.6	-16.0	0.0	51.2	-0.15	9.39
			7-5-1			60.8	-32.0	0.0	-3.2	-0.15	3.10
			7-5-1			121.6	-32.0	0.0	38.4	-0.15	-2.82
			7-5-1			112.0	0.0	-4.6	60.8	-0.15	-2.82
			7-5-1			160.0	32.0	-4.6	67.2	-0.15	3.22
			7-5-1			54.4	0.0	0.0	28.8	-0.15	3.10
			7-5-1			112.0	-32.0	-4.6	54.4	8.05	3.28
			7-5-1			73.6	0.0	-4.6	-9.6	-0.15	-2.82
			7-5-1			35.2	-64.0	9.2	-48.0	-0.15	-2.82
			7-5-1			99.2	32.0	0.0	0.0	-0.15	3.10
			7-5-1			128.0	64.0	4.6	105.6	7.81	3.10
			7-5-1			140.8	16.0	13.8	83.2	-0.15	3.28
			7-5-1			86.4	-32.0	0.0	41.6	-0.15	-2.82
			7-5-1			38.4	-64.0	0.0	-48.0	-0.15	-2.82
			7-5-1			76.8	-32.0	0.0	-22.4	-0.15	3.28
			7-5-1	9	0.010	-206.8	-233.4	-11.3	-64.6	8.05	3.28
			7-5-1	9	0.010	-213.7	-233.4	-4.5	-146.0	-0.15	-2.82
			7-5-1	9	0.010	-166.5	-214.4	-6.8	-218.2	-0.15	-2.82
			7-5-1	9	0.020	-168.0	-214.4	-5.6	-307.9	-0.15	3.10
			7-5-1	9	0.010	-74.5	-158.4	3.4	-187.8	-0.15	3.28
			7-5-1	9	0.020	-0.8	-170.4	-10.2	-65.4	-0.15	-2.82
			7-5-1	9	0.010	18.2	-39.5	-9.0	-5.3	-0.15	-1.92
			7-5-1	9	0.010	-122.6	-146.0	-5.6	3.0	-0.15	-2.82
			7-5-1	9	0.010	-25.1	-43.3	-7.9	-16.0	-0.15	3.28
			7-5-1	9	0.010	-36.5	-100.4	4.5	41.8	-0.15	-2.82
			7-5-1	9	0.010	-12.2	-77.6	-14.7	-40.3	-0.15	3.28
			7-5-1	10	0.010	2.3	-24.3	-15.8	3.0	-0.15	-2.82
			7-5-1	9	0.010	-22.8	-39.5	2.3	-28.1	-0.15	-2.82
			7-5-1	9	0.020	6.1	-5.3	5.6	76.0	-0.15	-2.82
			7-5-1	10	0.010	38.0	13.7	-5.6	28.9	-0.15	-2.82
			7-5-1	9	0.010	-8.4	-22.8	-6.8	-21.3	-0.15	-2.82
			7-5-1	9	0.010	-215.9	-228.1	-12.4	10.6	-0.15	-2.82
			7-5-1	9	0.010	-117.9	-152.1	-6.8	-320.1	-0.15	-2.82
			7-5-1	10	0.010	-281.3	-304.1	-1.1	-318.6	-0.15	-2.82
			7-5-1	10	0.020	-30.4	-95.0	-6.8	-139.1	-0.15	-2.82
			7-5-1	10	0.020	-120.1	-190.1	-13.5	-230.4	-0.15	-2.82
			7-5-1	10	0.010	-190.9	-226.1	4.5	-281.6	-0.15	-2.82
			7-5-1	11	0.020	-132.3	-144.5	2.3	-123.2	-0.15	9.39
			7-5-1	12	0.010	-111.8	-167.3	-9.0	-62.4	-0.15	9.39
			7-5-2	8	0.010	-37.3	-73.8	-7.9	-25.1	-0.15	3.10

TABLE 7

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #7 (SECTION 7, UNIT 6)

SURFACE DESCRIPTION	GRID	I, Y REF POINT	LOCATION	GAMMA SURVEY		BETA/GAMMA SURVEY		SCAN RESULTS		TOTAL FIRED ACTIVITY		REMOVABLE ACTIVITY	
				#1 METER (microR/hr)	ON CONTACT (RR/hr)	MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA		
				(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	
East Wall	2, -4.5	N/A	7-6-4	217.6		92.8		0.0	118.4	-0.15	9.03		
"	4, -4.5	"	7-6-4	192.0		60.8		4.6	224.0	-0.15	3.28		
"	6, -4.5	"	7-6-4	176.0		3.2		4.6	83.2	-0.15	-2.82		
"	8, -4.5	"	7-6-4	252.8		124.8		0.0	176.0	-0.15	-2.82		
"	14, -4.5	"	7-6-4	73.6		-67.2		0.0	124.8	-0.15	3.28		
"	16, -1	"	7-6-4	316.8		156.8		9.2	144.0	-0.15	3.28		
"	22, -1	"	7-6-4	345.6		124.8		4.6	198.4	-0.15	-2.82		
"	24, -1	"	7-6-4	160.0		60.8		4.6	115.2	-0.15	-2.82		
West Wall	4, -1	"	7-6-4	230.4		60.8		0.0	-41.6	-0.15	-2.82		
"	6, -1	"	7-6-4	272.0		92.8		0.0	166.4	-0.15	3.28		
"	8, -1	"	7-6-4	192.0		-3.2		0.0	54.4	-0.15	-2.82		
"	10, -1	"	7-6-4	304.0		156.8		0.0	80.0	-0.15	-2.82		
"	12, -4.5	"	7-6-4	124.8		28.8		4.6	92.8	-0.15	3.28		
"	14, -4.5	"	7-6-4	262.4		156.8		0.0	108.8	-0.15	-2.82		
"	20, -4.5	"	7-6-4	444.8		316.8		4.6	86.4	-0.15	-2.82		
W. Wall/Hallway	24, -4.5	N/A	7-6-4	278.4		60.8		4.6	86.4	-0.15	3.28		
E. Wall/Ladies Rm.	2, -4	"	7-6-4	583.2		380.8		13.8	444.8	-0.15	-2.82		
E. Wall/	2, -4	"	7-6-4	745.6		524.8		13.8	608.0	-0.15	-2.82		
S. Wall/	2, -4	"	7-6-4	310.4		156.8		0.0	246.4	-0.15	3.28		
N. Wall/Mens Room	2, -6	"	7-6-4	316.8		188.8		13.8	166.4	-0.15	-2.82		
E. Wall/	2, -6	"	7-6-4	428.8		252.8		4.6	300.8	-0.15	3.10		
S. Wall/	4, -4	"	7-6-4	496.0		284.8		4.6	268.8	-0.15	-2.82		
W. Wall/	2, -6	"	7-6-4	236.8		140.8		9.2	195.2	-0.15	-2.82		
N. Wall/Hallway	2, -2	"	7-6-4	115.2		28.8		0.0	80.0	-0.15	-2.82		
N. Wall/	6, -2	"	7-6-4	220.8		60.8		0.0	108.8	-0.15	3.10		
S. Wall/	4, -2	"	7-6-4	112.0		12.8		4.6	73.6	-0.15	-2.82		
Fl. Tile/Mens Room	-2, -4	"	7-6-4	14	0.015	-27.4	-135.3	0.0	-60.8	-0.15	-2.82		
on concrete/	0, -4	"	7-6-4	14	0.122	31.9	-2.3	-12.4	13.7	-0.15	-2.82		
"	2, -4	"	7-6-4	15	0.018	39.5	-2.3	-1.1	-2.3	-0.15	-2.82		
"	2, -2	"	7-6-4	16	0.014	-4.6	-135.3	0.0	-133.1	-0.15	-2.82		
Floor Tile	N/A	2, -8	7-6-1	12	0.014	205.3	38.0	14.7	-16.7	-0.15	-2.82		
Concrete	"	2, -4	7-6-1	12	0.015	311.0	266.1	-6.8	279.1	-0.15	-2.82		
E. Wall, Shpng&Rec.	"	6, -1	7-6-1			278.4	176.0	9.2	150.4	-0.15	-2.82		
E. Wall/	"	10, -1	7-6-1			374.4	208.0	0.0	185.6	-0.15	3.28		
S. Wall/	"	2, -1	7-6-1			345.6	224.0	0.0	185.6	-0.15	-2.82		
W. Wall/	"	2, -1	7-6-1			265.6	160.0	0.0	211.2	-0.15	-2.82		
W. Wall/	"	6, -1	7-6-1			259.2	112.0	9.2	38.4	-0.15	3.28		
East Wall	N/A	2, -3.5	7-6-4			-64.0	-150.4	-4.6	-73.6	-0.15	3.28		
Upper Surfaces	"	4, -3.5	7-6-4			-86.4	-134.4	4.6	-54.4	-0.15	-2.82		
"	"	6, -3.5	7-6-4			-54.4	-118.4	9.2	-76.8	-0.15	-2.82		
"	"	8, -3.5	7-6-4			44.8	-54.4	0.0	-67.2	-0.15	-2.82		
"	"	10, -3.5	7-6-4			323.2	9.6	9.2	9.6	-0.15	-2.82		
"	"	12, -3.5	7-6-4			6.4	-134.4	16.4	-48.0	-0.15	-2.82		
"	"	14, -3.5	7-6-4			73.6	-38.4	13.8	-64.0	-0.15	3.10		
"	"	20, -1	7-6-4			153.6	-54.4	0.0	-44.8	-0.15	3.28		
"	"	22, -1	7-6-4			-38.4	-134.4	18.4	-35.2	-0.15	9.39		
"	"	24, -1	7-6-4			208.0	-38.4	4.6	-38.4	-0.15	-2.82		
West Wall	"	16, -1	7-6-4			224.0	-22.4	23.0	0.0	-0.15	-2.82		
"	"	18, -3.5	7-6-4			-83.2	-118.4	13.8	-102.4	-0.15	-2.82		
"	"	20, -3.5	7-6-4			28.8	-86.4	9.2	-25.6	-0.15	-2.82		
"	"	22, -3.5	7-6-4			112.0	-70.4	13.8	-80.0	-0.15	-2.82		
"	"	24, -3.5	7-6-4			64.0	-54.4	23.0	-80.0	-0.15	3.10		
Upper Surfaces	N/A	2, -4	7-6-1			48.0	-16.0	4.6	16.0	-0.15	-2.82		
"	"	4, -4	7-6-1			41.6	-16.0	0.0	35.2	-0.15	3.28		
"	"	6, -6	7-6-1			339.2	144.0	4.6	16.0	-0.15	3.28		
"	"	4, -8	7-6-1			339.2	208.0	9.2	-3.2	-0.15	-2.82		
"	"	2, -8	7-6-1			92.8	16.0	0.0	48.0	-0.15	-2.82		
"	"	4, -8	7-6-1			304.0	176.0	9.0	80.0	-0.15	3.10		
"	"	2, -10	7-6-1			166.4	96.0	-4.6	73.6	-0.15	-2.82		

TABLE 7

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #7 (SECTION 7, UNIT 6)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
				SURVEY	SURVEY	MAXIMUM	AVERAGE	ALPHA	BETA	ALPHA	BETA
				01 METER	ON CONTACT	BETA	BETA	ALPHA	BETA	ALPHA	BETA
				(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
		4, -10	7-6-1			185.6	128.0	4.6	112.0	-0.15	3.10
West Wall		2, -1	7-6-1			310.4	240.0	4.6	211.2	-0.15	-2.82
		4, -1	7-6-1			259.2	208.0	0.0	320.0	-0.15	-2.82
		6, -1	7-6-1			403.2	304.0	0.0	249.6	-0.15	-2.82
East Wall		6, -1	7-6-1			352.0	240.0	9.2	172.8	-0.15	-2.82
		8, -1	7-6-1			326.4	208.0	0.0	204.8	-0.15	-2.82
		10, -1	7-6-1			515.2	272.0	-4.6	185.6	-0.15	-2.82
South Wall		2, -1	7-6-1			252.8	96.0	-4.6	140.8	-0.15	-2.82

STATISTICAL ANALYSIS

NUMBER OF SAMPLES	6	6	67	67	67	67	67	67	67
MINIMUM	12.00	0.014	-86.4	-150.4	-12.4	133.1	-0.15	-2.82	
MAXIMUM	16.00	0.122	745.6	524.8	23.0	808.0	-0.15	9.39	
AVERAGE	13.83	0.033	213.7	81.6	4.3	92.9	-0.15	-0.75	
STANDARD DEVIATION	1.46	0.040	163.3	141.8	6.9	135.1	1.37	3.22	
LIMIT	15	0.200	15,000	5,000	5,000	5,000	5,000	1,000	1,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	2.015	2.015	1.671	1.671	1.671	1.671	1.671	1.671	1.671
DATA TEST PARAMETER	15.04	0.07	247.01	110.52	5.73	120.47	6.13	-0.09	
"NUMBER OF SAMPLES" FACTOR	0.80	4.19	90.54	34.69	718.86	36.33	730.04	310.58	
DOES DATA SATISFY LIMIT CRITERIA?	NO	YES	YES	YES	YES	YES	YES	YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	NO	YES	YES	YES	YES	YES	YES	YES	YES

TABLE 8
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 7 - BUILDING 7, FIRST FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** SURVEY TYPE = GAMMA DOSERATE AT 1 METER FROM SURFACE						
07 -1	22	9.000	14.000	10.410	1.230	MicroR/hour
07 -2	30	8.000	11.000	10.000	0.730	MicroR/hour
07 -3	30	8.000	11.000	9.700	0.740	MicroR/hour
07 -4	24	8.000	15.000	10.210	1.760	MicroR/hour
07 -5	29	8.000	12.000	9.240	0.860	MicroR/hour
07 -6	6	12.000	16.000	13.830	1.460	MicroR/hour
** Subtotal **	141					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
07 -1	22	0.010	0.020	0.013	0.004	MilliRem/hour
07 -2	30	0.010	0.030	0.015	0.007	MilliRem/hour
07 -3	30	0.010	0.040	0.015	0.007	MilliRem/hour
07 -4	24	0.005	0.022	0.014	0.004	MilliRem/hour
07 -5	29	0.010	0.020	0.012	0.004	MilliRem/hour
07 -6	6	0.014	0.122	0.033	0.040	MilliRem/hour
** Subtotal **	141					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
07 -1	70	-142.700	921.600	170.200	242.400	DPM/100 cm ²
07 -2	60	-150.400	262.300	55.000	113.800	DPM/100 cm ²
07 -3	70	-374.400	67.200	-141.100	109.600	DPM/100 cm ²
07 -4	60	-73.000	480.000	176.900	117.100	DPM/100 cm ²
07 -5	61	-281.300	316.800	13.500	115.700	DPM/100 cm ²
07 -6	67	-86.400	745.600	213.700	163.300	DPM/100 cm ²
** Subtotal **	388					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
07 -1	70	-252.800	370.800	25.200	135.500	DPM/100 cm ²
07 -2	60	-1037.900	201.500	-42.600	185.800	DPM/100 cm ²
07 -3	70	-438.400	-16.000	-221.100	123.700	DPM/100 cm ²
07 -4	60	-99.200	371.200	101.700	105.000	DPM/100 cm ²
07 -5	61	-304.100	198.400	-57.100	91.900	DPM/100 cm ²
07 -6	67	-150.400	524.800	81.600	141.800	DPM/100 cm ²
** Subtotal **	388					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
07 -1	70	-55.300	23.000	-5.300	17.200	DPM/100 cm ²
07 -2	60	-56.500	13.800	-3.300	15.600	DPM/100 cm ²
07 -3	70	-23.700	13.800	-1.700	8.500	DPM/100 cm ²
07 -4	60	-24.800	27.600	1.900	8.600	DPM/100 cm ²
07 -5	61	-15.800	13.800	-1.700	6.400	DPM/100 cm ²

TABLE 8
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 7 - BUILDING 7, FIRST FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
07 -6	67	-12.400	23.000	4.300	6.900	DPM/100 cm ²
** Subtotal **	388					
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
07 -1	70	-224.000	327.000	9.500	118.500	DPM/100 cm ²
07 -2	60	-233.600	292.700	-6.500	153.200	DPM/100 cm ²
07 -3	70	-451.200	-11.400	-201.300	119.300	DPM/100 cm ²
07 -4	60	-76.800	576.000	123.500	137.200	DPM/100 cm ²
07 -5	61	-320.100	243.200	-31.200	107.200	DPM/100 cm ²
07 -6	67	-133.100	608.000	92.900	135.100	DPM/100 cm ²
** Subtotal **	388					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
07 -1	70	-0.150	8.050	-0.030	1.670	DPM/100 cm ²
07 -2	60	-0.150	8.050	0.260	1.670	DPM/100 cm ²
07 -3	70	-0.015	7.810	-0.040	1.670	DPM/100 cm ²
07 -4	60	-0.150	8.050	0.120	1.370	DPM/100 cm ²
07 -5	61	-0.150	8.050	0.250	1.370	DPM/100 cm ²
07 -6	67	-0.150	-0.150	-0.150	1.370	DPM/100 cm ²
** Subtotal **	388					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
07 -1	70	-2.820	9.390	-0.340	3.970	DPM/100 cm ²
07 -2	60	-2.820	9.390	-1.120	3.120	DPM/100 cm ²
07 -3	70	-2.820	9.390	-0.130	3.770	DPM/100 cm ²
07 -4	60	-2.820	9.390	-0.200	3.890	DPM/100 cm ²
07 -5	61	-2.820	9.390	0.360	4.210	DPM/100 cm ²
07 -6	67	-2.820	9.390	-0.750	3.220	DPM/100 cm ²
** Subtotal **	388					
*** Total ***	2610					

TABLE 9
RESULTS OF BETA FLOOR SCANS

LOCATION CODE	SURFACE DESCRIPTION	EST. % SCANNED	SURVEY RESULTS		ACCEPTANCE CRITERIA		UNITS
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE	
7-1-1	FLOOR, TILE	60%	157	38	15,000	5,000	DPM/100 cm ²
7-1-2	FLOOR, TILE	50%	109	76	15,000	5,000	DPM/100 cm ²
7-2-2	FLOOR, CONCRETE	50%	235	152	15,000	5,000	DPM/100 cm ²
7-3-1	FLOOR, CONCRETE	70%	196	152	15,000	5,000	DPM/100 cm ²
7-4-1	PAINTED CONCRETE	45%	79	-51	15,000	5,000	DPM/100 cm ²
7-4-2	TILED FLOOR	20%	41	-1	15,000	5,000	DPM/100 cm ²
7-4-3	PAINTED CONCRETE	40%	5	-40	15,000	5,000	DPM/100 cm ²
7-4-4	TILED FLOOR	50%	147	70	15,000	5,000	DPM/100 cm ²
7-4-7	TILED FLOOR	100%	123	69	15,000	5,000	DPM/100 cm ²
7-5-1	CONCRETE	40%	33	-64	15,000	5,000	DPM/100 cm ²
7-5-2	CONCRETE	50%	-196	-254	15,000	5,000	DPM/100 cm ²
7-5-3	CONCRETE	40%	-5	-102	15,000	5,000	DPM/100 cm ²
7-6-1	TILE, CARPET, CONCRETE	40%	17	-121	15,000	5,000	DPM/100 cm ²
7-6-2	CARPET	40%	116	36	15,000	5,000	DPM/100 cm ²
7-6-3	CARPET	60%	61	17	15,000	5,000	DPM/100 cm ²
7-6-4	TILE	80%	273	162	15,000	5,000	DPM/100 cm ²

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 1

(*) IF USED	ALPHA SURVEY EQUIPMENT				(*) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
	ESP2: 1517-L	21.7%	4.60			ESP2: 1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0	
#	FLMON: 91943	20.4%	4.9	55	#	FLMON: 91943	30.3%	3.3	1525

SURVEY DATE: 1/13/93
COUNT DATE: 1/14/93

(*) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
#	PM7: 234	10 uR/hr
	E520: 5242	ur/hr
	E520: 5245	ur/hr
B	ESP2: 1522	.01 ur/hr

(*) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*) IF USED	INST: S/N			
	EFF	C.F.	BKG	
#	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-9: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA # 1 M. uR/hr	BETA/GAMMA CONT. ur/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Tile on Concrete	N/A	2 -2	10	.01	1720	1700	60	1701	-0.149	-2.82	Fluon used for scans
"	"	4 -2	10	.01	1521	1475	56	1460	-0.149	3.28	# 1 min counts.
"	"	6 -2	10	.02	1596	1450	51	1699	-0.149	-2.82	"
"	"	8 -2	10	.02	1454	1400	36	1459	-0.149	-2.82	"
"	"	10 -2	11	.01	1466	1440	41	1516	-0.149	-2.82	"
"	"	12 -2	10	.01	1481	1450	49	1498	-0.149	-2.82	"
"	"	14 -2	10	.01	1368	1350	57	1447	-0.149	-2.82	"
"	"	16 -2	10	.02	1487	1450	67	1421	-0.149	9.03	"
"	"	18 -2	9	.01	1517	1475	40	1387	-0.149	-2.82	"
"	"	20 -2	10	.02	1482	1450	39	1432	-0.149	-2.82	"
"	"	22 -2	10	.01	1428	1400	40	1414	-0.149	-2.82	"
"	"	24 -2	10	.01	1448	1400	68	1415	-0.149	9.03	"
"	"	26 -2	10	.01	1384	1360	42	1355	-0.149	-2.82	"
"	"	28 -2	9	.01	1385	1300	56	1312	-0.149	9.03	"
"	"	30 -2	10	.01	1360	1350	40	1299	-0.149	-2.82	"

FORM SERIAL #: 7-006 (Survey Section - Sequential survey #)	LOCATION #: 7-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0165	SUPERVISOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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# IF USED	ALPHA SURVEY EQUIPMENT			BETA SURVEY EQUIPMENT			BKG CPM
	INST: S/N	EFF	C.F.	INST: S/N	EFF	C.F.	
	ESP2: 1517	21.1%	4.74	ESP2: 1595	34.2%	2.92	
	ESP2: 1517-L	21.7%	4.60	ESP2: 1595-L	31.3%	3.20	
	ESP2:			ESP2:			
	ESP2:			ESP2:			
	ESP2:			ES20: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23	ES20: 5245			
	PAC4C: 4478	18.5%	5.4	PAC4C: 4478	33.5	3.0	
	FLMN: 91943	20.4%	4.9	FLMN: 91943	30.3%	3.3	1525

SURVEY DATE: 1/13/93
COUNT DATE: 1/14/93

# IF USED	CAMMA OR BETA/CAMMA EQUIP			BKG
	INST: S/N	EFF	C.F.	
	R/S: L-2088			uR/hr
	PAM7: 234	10		uR/hr
	ES20: 5242			ar/hr
	ES20: 5245			ar/hr
	ESP2: 1522		.01	ar/hr

# IF USED	COUNTING EQUIPMENT (ALPHA)			BKG
	INST: S/N	EFF	C.F.	
	TENN: 13295	36.9%	2.7	.055
	SAC#: 1128	40.5%	2.47	
	SAC#: 263	34.3%	2.91	
# IF USED	COUNTING EQUIPMENT (BETA)			BKG
	INST: S/N	EFF	C.F.	
	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-Y: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X Y REF POINT	CAMMA # INST. uR/hr	BETA/CAMMA CONT. ar/hr	SCAN CONTACT CROSS CPM			CONTACT CROSS 1 MIN. CT.			SMEAR LEVELS IN DPM/100cm ²	COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA		
Tiled floor	N/A	28 -4	10	.01	1381	1350	48	1316	-0.149	3.28	Fluoresc for scans	
concrete	"	26 -4	9	.02	1365	1325	32	1340	-0.149	-2.82	1 min counts	
"	"	24 -4	10	.02	1524	1500	55	1491	-0.149	-2.82	"	

FORM SERIAL #: 7-006 (Survey Section - Sequential survey #)	LOCATION # 7-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0166	SURVEY SIGNATURE: [Signature]
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(*) IF USED	ALPHA SURVEY EQUIPMENT				(*) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG EPM		INST: S/N	EFF	C.F.	BKG EPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
*	ESP2: 1517-L	21.7%	4.60	.999	*	ESP2: 1595-L	31.3%	3.20	188
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0	
	FLMON: 91943	20.4%	4.9			FLMON: 91943	30.3%	3.3	

SURVEY DATE: 1/18/93
COUNT DATE: 1/14/93

(*) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	ur/hr
	E520: 5245	ur/hr
	ESP2: 1522	ur/hr

(*) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BK
*	TENN: 13295	36.9%	2.7	.05
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*) IF USED	INST: S/N			
	EFF	C.F.	BK	
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X Y REF POINT	GAMMA # 1 M, uR/hr	BETA/GAMMA CONT. ur/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SWEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North wall	N/A	4, -1.7	N/A	N/A	226	200	2.0	188	-0.149	-2.82	ESP's used for scans
(Brick & Block)	"	12, -1.7	"	"	214	190	.999	181	-0.149	3.10	1 min counts.
"	"	14, -1.7	"	"	242	240	.999	175	-0.149	-2.82	"
"	"	16, -4.5	"	"	360	200	.999	173	-0.149	-2.82	"
"	"	18, -4.5	"	"	360	198	0	202	-0.149	-2.82	"
"	"	22, -4.5	"	"	243	200	2.0	207	-0.149	-2.82	"
"	"	28, -4.5	"	"	269	220	3.0	222	-0.149	9.03	"
"	"	30, -4.5	"	"	328	170	3.0	200	-0.149	3.28	"
South wall (A)	"	2, -4.5	"	"	360	250	2.0	203	-0.149	9.03	"
"	"	4, -4.5	"	"	360	143	2.0	176	-0.149	3.10	"
South wall (B)	"	4, -4.5	"	"	360	200	.999	213	-0.149	-2.82	"
"	"	6, -4.5	"	"	235	170	.999	207	-0.149	-2.82	"

FORM SERIAL #: 7-006 (Survey Section - Sequential survey #)	LOCATION #: 7-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0167	SURVEYOR SIGNATURE: T.S. <i>T.S. Shaffer</i>
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LB5100W Low Background Counting System - Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070101.XLD
 Batch Ended: 1/14/93 14:15
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-1-1 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:02
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:02
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:03
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:03
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:04
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:04
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:05
8	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:05
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:06
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:06
11	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:07
12	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:07
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:08
14	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:08
15	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:09
16	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:09
17	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:10
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:10
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:11
20	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:11
21	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:12
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:12
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:13
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:13
25	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:14

LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070101.XLD
 Batch Ended: 1/14/93 14:15
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-1-1 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:14
27	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:15
28	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:15

LB5100W Low Background Counting System – Smear Analysis

Date: 1/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070102AD.XLD
 Batch Ended: 1/18/93 8:49
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

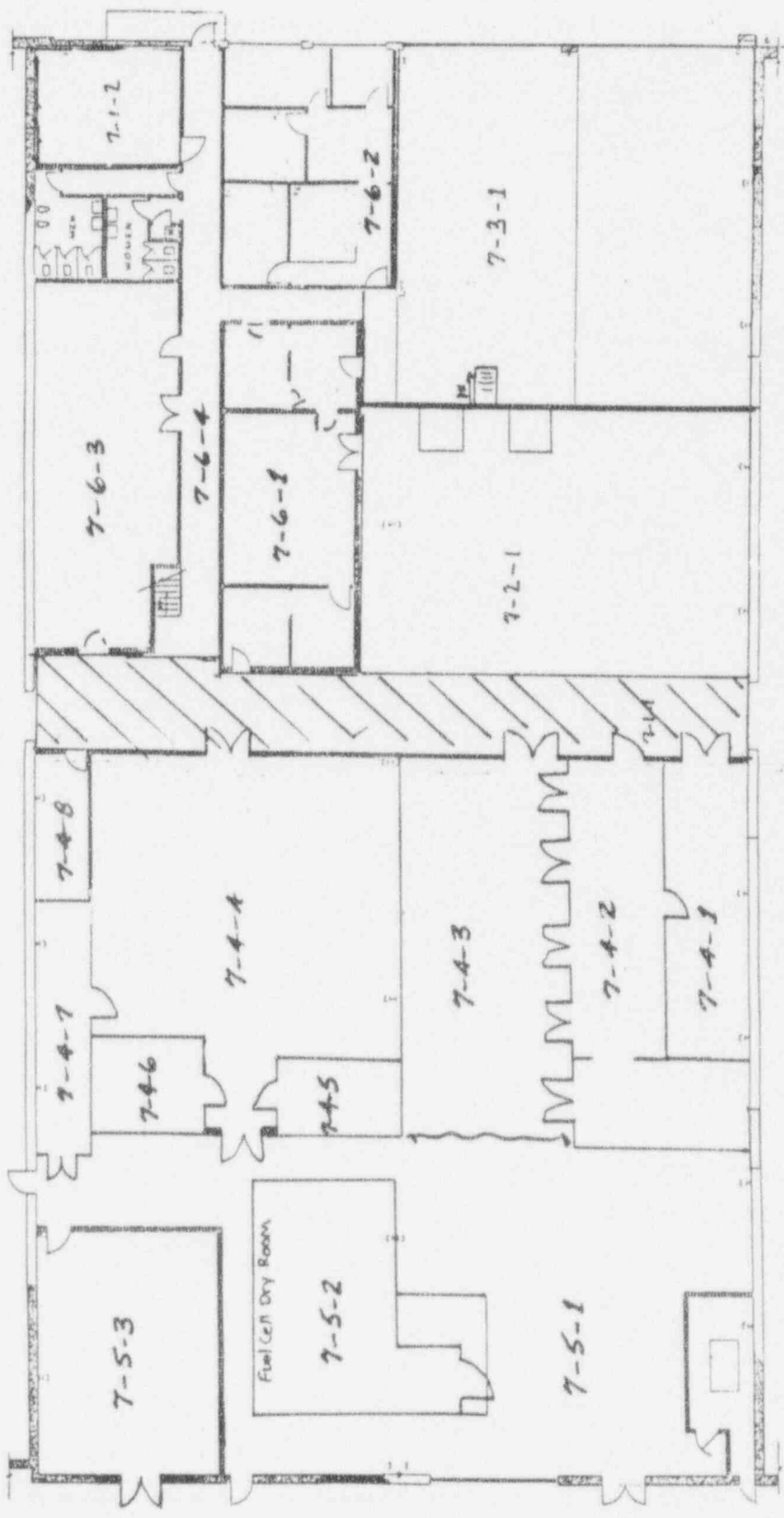
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-1-2 additional points on walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 8:49
2	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 8:49

D C B A

REVISIONS	
NO.	DESCRIPTION



LEGEND
 BRICK
 CONCRETE BLOCK EXT
 CONCRETE BLOCK INT
 DRYWALL & PAINTING
 SCALE: FEET
 0 5 10 15 20 25

DATE	BY	DESCRIPTION

NO.	DESCRIPTION	DATE

PARTS LIST	
NO.	DESCRIPTION

UNLESS OTHERWISE SPECIFIED	CONCRETE	CONCRETE	CONCRETE
FINISHES - DO NOT SCALE			
DO NOT SCALE			

PROJECT: **First Floor**
 DRAWING NO: **JN-014**
 DATE: **14683**
 SCALE: **AS SHOWN**

(#) IF USED	ALPHA SURVEY EQUIPMENT			INST: S/N	BETA SURVEY EQUIPMENT		
	INST: S/N	EFF	C.F.		INST: S/N	EFF	C.F.
	ESP2: 1517	21.1%	4.7%	ESP2: 1595	34.2%	2.92	BKG CPM
	ESP2: 1517-L	21.7%	4.60	ESP2: 1595-L	31.3%	3.20	159
	ESP2:			ESP2:			
	ESP2:			ESP2:			
	ASPT: 1891	19.1%	5.23	ESP20: 5242	20.3%	4.92	
	PAC4C: 4478	18.5%	5.4	ESP20: 5245			
	FLM0N: 91943	20.4%	4.9	PAC4C: 4478	33.5	3.0	
				FLM0N: 91943	30.3%	3.3	

SURVEY DATE:	1/14/93
COUNT DATE:	1/18/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP		R/S: L-2088	uR/hr
	INST: S/N	BKG		
	PRM7: 234			uR/hr
	ESP20: 5242			uR/hr
	ESP20: 5245			uR/hr
	ESP2: 1522			uR/hr

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			INST: S/N	COUNTING EQUIPMENT (BETA)		
	INST: S/N	EFF	C.F.		INST: S/N	EFF	C.F.
	TENN: 13295	36.9%	2.7	SAC4: 263	34.3%	2.94	BKG
	SAC4: 1128	40.5%	2.47				
	TENN: 13295	49.6%	2.01				1.40
	MS-2: 1848	25.0%	4.0				
	BC-4: 208	17.9%	5.57				

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA # 1 M. uR/hr	BETA/GAMMA CONT. uR/hr	SCAN CONTACT GROSS CPM			CONTACT GROSS 1 MIN. CT.			SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	10 - 4	N/A	N/A	N/A	153	130	.999	107	-0.149	3.10	ESP's used for scans		
"	12 - 4	"	"	"	113	80	.999	98	-0.149	-2.82	# 1 min counts.		
"	14 - 4	"	"	"	120	100	.999	91	-0.149	-2.82	"		
"	8 - 4	"	"	"	128	90	.999	89	-0.149	9.39	"		
"	6 - 4	"	"	"	145	120	0	108	-0.149	-2.82	"		

FORM SERIAL #: 7-008 (Survey Section - Sequential survey #)	LOCATION #: 7-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group 1, II, III, IV)	DISK FILE CODE: FDS-0172	SUBMITTER SIGNATURE: <i>[Signature]</i>
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(#1) IF USED	ALPHA SURVEY EQUIPMENT			BETA SURVEY EQUIPMENT			BKG CPM
	INST: S/N	EFF	C.F.	INST: S/N	EFF	C.F.	
#	ESP2: 1517	21.1%	4.74	ESP2: 1595	34.2%	2.92	194
#	ESP2: 1517-L	21.7%	4.60	ESP2: 1595-L	31.3%	3.20	194
	ESP2:			ESP2:			
	ESP2:			ESP2:			
	ESP2:			ESP2:			
	ASP1: 1891	19.1%	5.23	ESP20: 5242	20.3%	4.92	
	PAC46: 4478	18.5%	5.4	ESP20: 5245			
	FLM0N: 91943	20.4%	4.9	PAC46: 4478	33.5	3.0	
				FLM0N: 91943	30.3%	3.3	

SURVEY DATE: 1/18/93
COUNT DATE: 1/18/93

(#1) IF USED	COUNTING EQUIPMENT (ALPHA)			BKG
	INST: S/N	EFF	C.F.	
#	TENN: 13295	36.9%	2.7	055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(#1) IF USED	INST: S/N	EFF	C.F.	BKG
	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

(#1) IF USED	GAMMA OR BETA/GAMMA EQUIP			BKG
	INST: S/N	EFF	C.F.	
	R/S: L-2088	uR/hr		
	PRM7: 234	uR/hr		
	ES20: 5242	uR/hr		
	ES20: 5245	uR/hr		
	ESP2: 1522	uR/hr		

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA R T M. uR/hr	BETA/GAMMA CONT. uR/hr	SCAN CONTACT GROSS EPM		CONTACT GROSS 1 MIN. CT.		SWEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
South wall (1)	N/A	2, -2.8	N/A	N/A	220	190	5.0	187	-0.149	-2.82	ESP's used for scans & 1 min counts.
"	"	4, -2.8	"	"	237	200	4.0	183	-0.149	-2.82	
South wall (2)	"	0, -3.4	"	"	245	200	.999	214	-0.149	-2.82	
"	"	2, -3.4	"	"	220	180	.999	214	-0.149	-2.82	
"	"	4, -3.4	"	"	250	220	2.0	208	-0.149	3.28	
"	"	6, -3.4	"	"	200	190	.999	203	-0.149	3.28	
West wall	"	27, -3.4	"	"	350	275	3.0	264	-0.149	-2.82	
"	"	28, -3.4	"	"	280	270	0	234	-0.149	3.10	
"	"	30, -3.4	"	"	279	240	0	232	-0.149	3.10	
North wall	"	3, -5	"	"	215	200	0	194	-0.149	3.10	

FORM SERIAL #: 7-008 (Survey Section - Sequential survey #)	LOCATION # 7-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0173	SURVEY SIGNATURE: <i>[Signature]</i>
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(#) IF USED	ALPHA SURVEY EQUIPMENT				(#) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
#	ESP2: 1517-L	21.7%	4.60	2	#	ESP2: 1595-L	31.3%	3.20	183
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0	
	FLMON: 91943	20.4%	4.9			FLMON: 91943	30.3%	3.3	

SURVEY DATE: 1/18/93
COUNT DATE: 1/18/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRW7: 234	uR/hr
	E520: 5242	uR/hr
	E520: 5245	uR/hr
	ESP2: 1522	uR/hr

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(#) IF USED	INST: S/N	EFF	C.F.	BKG
	#	TENN: 13295	49.6%	2.01
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X Y REF POINT	GAMMA R 1 M. uR/hr	BETA/GAMMA CONT. uR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North wall	N/A	2 0	N/A	N/A	380	200	2.0	183	-0.149	3.10	ESP's used for scans
"	"	4 0	"	"	471	220	3.0	209	-0.149	-2.82	# 1 min counts
"	"	6 0	"	"	250	175	.999	185	-0.149	-2.82	"
"	"	10 0	"	"	267	230	.999	171	-0.149	-2.82	"
"	"	12 0	"	"	360	275	.999	140	-0.149	-2.82	"
"	"	14 0	"	"	200	168	2.0	200	-0.149	-2.82	"
"	"	16 -2.8	"	"	249	200	2.0	182	-0.149	-2.82	"
"	"	18 -2.8	"	"	205	195	.999	233	-0.149	-2.82	"
"	"	20 -2.8	"	"	238	200	.999	205	-0.149	-2.82	"
"	"	22 -2.8	"	"	150	225	2.0	193	-0.149	3.28	"
"	"	24 -2.8	"	"	247	210	.999	190	-0.149	3.10	"
"	"	26 -2.8	"	"	200	175	0	215	-0.149	-2.82	"
"	"	28 -2.8	"	"	250	215	0	191	8.048	-2.82	"
"	"	30 -2.8	"	"	280	250	.999	217	-0.149	-2.82	"
East wall	"	2 -2.8	"	"	300	250	.999	236	-0.149	-2.82	"

FORM SERIAL #: 7-008 (Survey Section - Sequential survey #)	LOCATION #: 7-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0174	SURVEY SIGNATURE: T.S. <i>T. S. Shaffer</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/18/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\070101UP.XLD
 Batch Ended: 1/18/93 13:02
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-1-1 upper surfaces

Corner	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 12:44
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:45
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:45
4	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/18/93 12:46
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	1/18/93 12:47
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:47
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 12:48
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:48
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:49
10	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/18/93 12:49
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/18/93 12:50
12	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 12:50
13	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 12:51
14	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 12:51
15	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 12:52
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:52
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:53
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 12:53
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:54
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:54
21	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 12:55
22	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 12:55
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 12:56
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 12:56
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:57

SURVEY POINTS NOT NEEDED

LB5100W Low Background Counting System – Smear Analysis

Date: 1/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070101UP.XLD
 Batch Ended: 1/18/93 13:02
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-1-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:57
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:58
28	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 12:58
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:59
30	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/18/93 12:59
31	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 13:00
32	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 13:00
33	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/18/93 13:01
34	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 13:01
35	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 13:02

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
*	ESP2:1517	21.1%	4.74	0	*	ESP2:1595	34.2%	2.92	193
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	50	*	FLMON:91943	30.3%	3.3	1532

SURVEY DATE: 1/14/93
COUNT DATE: 1/14/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor, Tile	N/A	2, -2	12	.01	1611	1500	50	1432	-0.149	-2.82	Floor Monitor used for
"	"	2, -4	12	.01	1554	1500	36	1565	-0.149	-2.82	scans & 1 min. counts
"	"	4, -2	13	.01	1540	1500	50	1427	-0.149	9.03	"
"	"	4, -4	14	.01	1590	1550	64	1493	-0.149	-2.82	"
North Wall	"	2, -1.4	N/A	N/A	332	275	.999	247	-0.149	-2.82	ESP's used for scans
"	"	6, -1.4	"	"	286	240	5	252	-0.149	-2.82	and 1 minute counts
East Wall	"	4, -1.4	"	"	360	275	2	272	-0.149	3.28	"
South Wall	"	2, -1.4	"	"	406	280	2	304	-0.149	-2.82	"
"	"	4, -1.4	"	"	390	300	6	305	-0.149	-2.82	"
West Wall	"	2, -1.4	"	"	375	320	2	243	-0.149	-2.82	"

FORM SERIAL #: 7-007 (Survey Section - Sequential survey #)	LOCATION #7-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0168	SURVEYOR SIGNATURE: TS <i>R. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070102.XLD
 Batch Ended: 1/14/93 14:22
 Crosstalk Correction: Not Applied

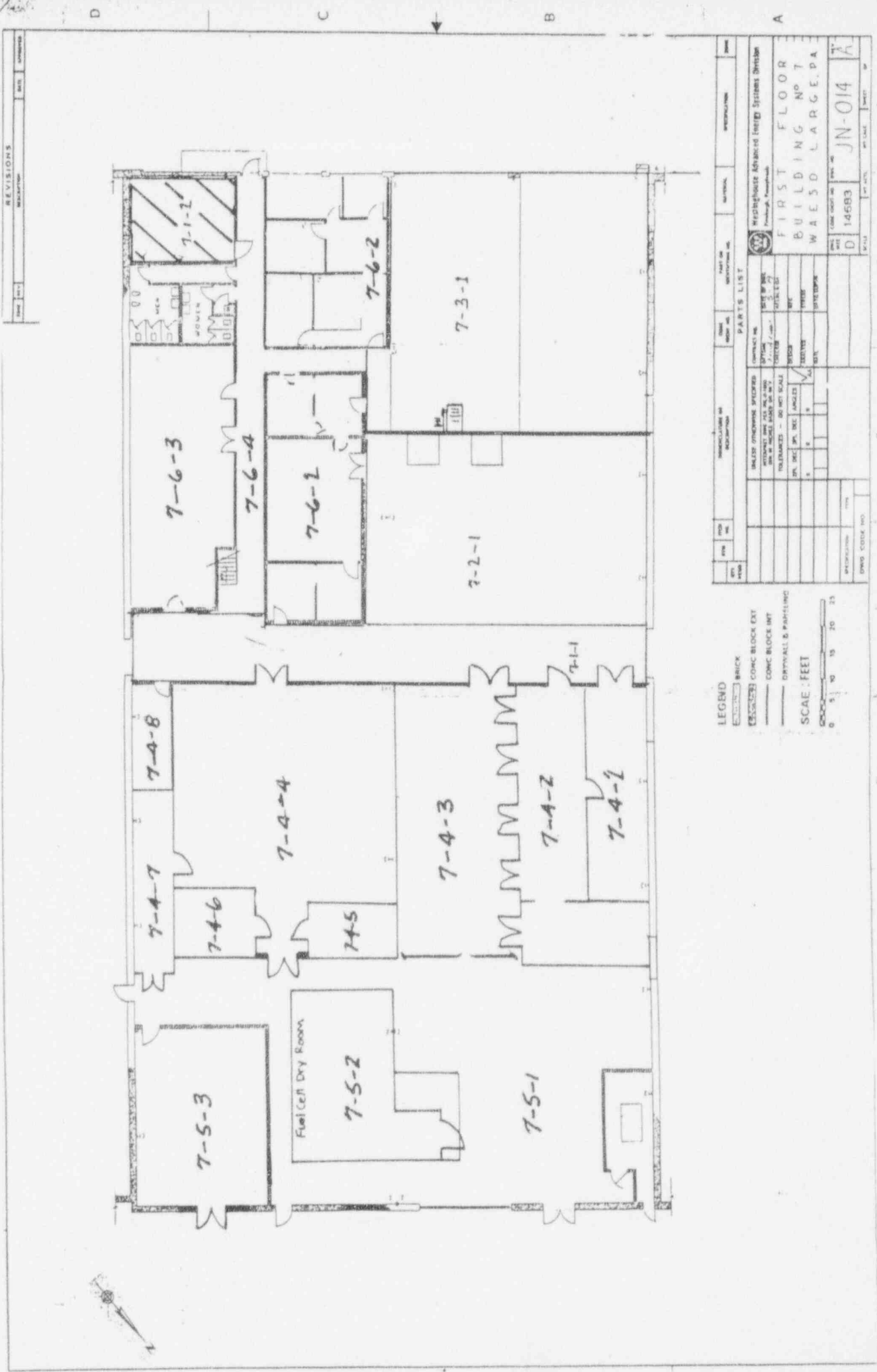
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-1-2 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
29	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:16
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:17
31	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:17
32	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:18
33	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:18
34	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:19
35	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:19
36	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:20
37	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:20
38	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:21
39	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:21
40	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:22
41	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:22

SURVEY POINT NOT NEEDED



REVISIONS

NO.	DATE	DESCRIPTION

LEGEND

- BRICK
- CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PARTING

SCALE: FEET

PARTS LIST

NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL

Westchester Advanced Energy Systems Division
 Pittsburgh, Pennsylvania

FIRST FLOOR
BUILDING NO 7
WAESD LARGE, PA

DWG CODE NO. JN-014

DATE: 14593

APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 2

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	..60	0	*	ESP2:1595-L	31.3%	3.20	159
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/14/93
COUNT DATE: 1/14/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling Beam	14, -14	N/A	N/A	N/A	157	130	3	128	-0.149	-2.82	
"	12, -14	"	"	"	169	130	0	102	-0.149	3.10	
"	10, -14	"	"	"	130	120	.999	112	-0.149	-2.82	
"	8, -14	"	"	"	147	120	3	126	-0.149	-2.82	
"	6, -14	"	"	"	156	130	3	130	-0.149	3.10	
"	4, -14	"	"	"	149	120	.999	156	-0.149	-2.82	
"	2, -14	"	"	"	183	120	.999	142	-0.149	-2.82	
"	2, -12	"	"	"	186	140	.999	144	-0.149	-2.82	
"	4, -12	"	"	"	155	130	2	108	-0.149	3.28	
"	6, -12	"	"	"	145	110	2	121	-0.149	-2.82	
"	8, -12	"	"	"	150	100	.999	94	-0.149	-2.82	
"	10, -12	"	"	"	159	120	0	120	-0.149	9.39	
"	12, -12	"	"	"	123	100	.999	112	-0.149	-2.82	
"	14, -12	"	"	"	145	100	2	86	-0.149	-2.82	
"	14, -10	"	"	"	132	110	.999	91	-0.149	-2.82	

FORM SERIAL #: 7-003 (Survey Section - Sequential survey #)	LOCATION #7-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0159	SURVEYOR SIGNATURE: <i>[Signature]</i>
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(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	159
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/14/93
COUNT DATE: 1/14/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	12, -10	N/A	N/A	N/A	150	120	2	95	-0.149	-2.82	
"	10, -10	"	"	"	171	110	3	105	-0.149	-2.82	
"	8, -10	"	"	"	152	120	0	109	-0.149	-2.82	
"	6, -10	"	"	"	162	130	.999	114	-0.149	-2.82	
"	4, -10	"	"	"	150	120	.999	110	7.807	-2.82	
"	2, -10	"	"	"	140	120	.999	132	-0.149	-2.82	
"	2, -8	"	"	"	190	130	.999	130	8.048	-2.82	
"	4, -8	"	"	"	117	90	.999	129	-0.149	-2.82	
"	6, -8	"	"	"	112	80	2	108	-0.149	-2.82	
"	8, -8	"	"	"	156	110	.999	121	-0.149	-2.82	
"	10, -8	"	"	"	116	100	.999	115	-0.149	-2.82	
"	12, -8	"	"	"	117	80	0	115	-0.149	-2.82	
"	14, -8	"	"	"	117	100	0	93	-0.149	3.22	
"	14, -6	"	"	"	151	120	3	104	-0.149	-2.82	
"	12, -6	"	"	"	157	120	.999	117	-0.149	-2.82	

FORM SERIAL #: 7-003 (Survey Section - Sequential survey #)	LOCATION # 7-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0160	SURVEYOR SIGNATURE: TB 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070201UP.XLD
 Batch Ended: 1/14/93 16:06
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7 2-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 15:51
2	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 15:51
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 15:52
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 15:52
5	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 15:53
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:53
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:54
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:54
9	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 15:55
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:55
11	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 15:56
12	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/14/93 15:56
13	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:57
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:57
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:58
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 15:58
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:59
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 15:59
19	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 16:00
20	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 16:00
21	7.807	6.07	At AL	27.24	-2.82	4.13	<MDA	35.16	0.34	2.886	-1.40	1/14/93 16:01
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 16:01
23	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/14/93 16:02
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 16:02
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 16:03

LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070201UP.XL.D
 Batch Ended: 1/14/93 16:06
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

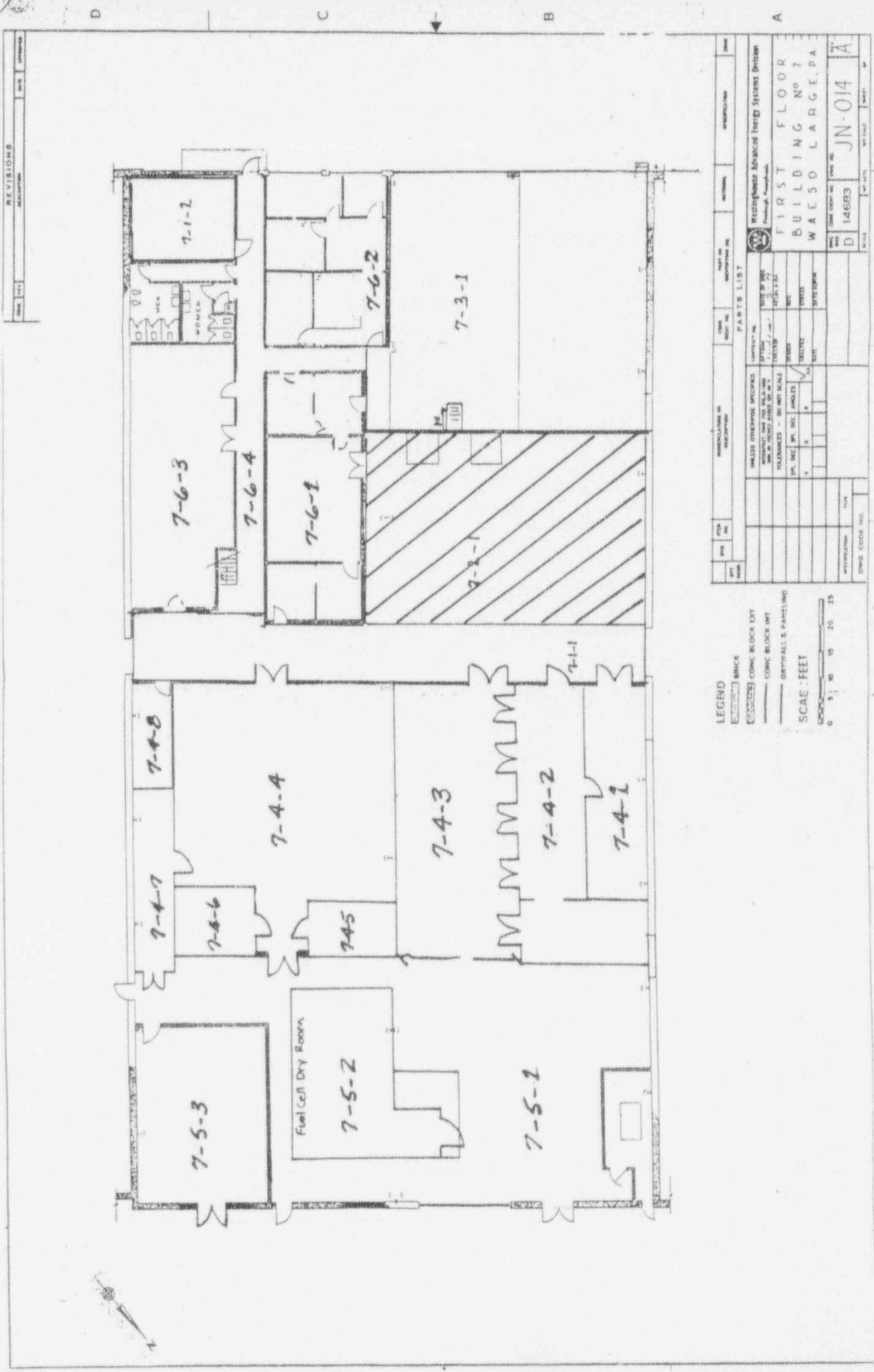
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-2-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 16:04
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 16:04
28	-0.149	0.79	<MDA	10.65	3.22	4.24	<MDA	16.60	1.00	-0.055	1.60	1/14/93 16:05
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 16:06
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 16:06



REVISIONS

NO.	DATE	DESCRIPTION

LEGEND

- BRICK
- CONCRETE
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

PARTS LIST

ITEM NO.	DESCRIPTION	QTY	UNIT	REMARKS

Westinghouse Advanced Energy Systems Division
Pittsburgh, Pennsylvania

FIRST FLOOR
BUILDING No 7
WAESD LARGE, PA

DATE: 11/14/83
DRAWN BY: JN-014
CHECKED BY: D 14603

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/W	EFF	C.F.	BKG CPM		INST: S/W	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	55	*	FLMON:91943	30.3%	3.3	1525

SURVEY DATE: 1/13/92
COUNT DATE: 1/14/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/W	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor-Painted	N/A	16, -4	10	.01	1642	1500	55	1608	-0.149	-2.82	Floor Monitor used
Concrete	"	16, -6	11	.01	1710	1675	44	1669	-0.149	3.28	for scans and one
"	"	16, -8	9	.01	1870	1725	52	1910	-0.149	-2.82	minute counts.
"	"	16, -10	10	.01	1770	1675	45	1754	-0.149	-2.82	
"	"	16, -12	10	.01	1790	1700	50	1798	-0.149	-2.82	
"	"	16, -14	10	.02	1713	1700	48	1816	-0.149	3.10	
"	"	14, -12	10	.01	1747	160	46	1615	-0.149	-2.82	
"	"	12, -12	10	.01	1641	1600	46	1665	-0.149	-2.82	
"	"	12, -14	8	.01	1540	1500	53	1324	-0.149	-2.82	
"	"	12, -10	10	.01	1657	1575	53	1660	-0.149	-2.82	
"	"	14, -10	10	.02	1663	1640	54	1594	-0.149	3.28	
"	"	12, -8	10	.01	1548	1500	49	1680	-0.149	-2.82	
"	"	12, -6	10	.01	1678	1650	48	1631	-0.149	-2.82	
"	"	12, -6	10	.01	1770	1625	55	1672	-0.149	-2.82	
"	"	10, -4	11	.01	1776	1750	50	1755	-0.149	-2.82	

FORM SERIAL #: 7-004 (Survey Section - Sequential survey #)	LOCATION # 7-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0161	SURVEYOR SIGNATURE: TS <i>D. Shaffer</i>
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(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	55	*	FLMON:91943	30.3%	3.3	1525

SURVEY DATE: 1/13/92
COUNT DATE: 1/14/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor, Painted	N/A	8, -4	10	.01	1799	1750	55	1794	-0.149	3.10	
Concrete	"	6, -4	9	.02	1836	1790	57	1795	-0.149	3.10	
"	"	4, -4	10	.02	1848	1775	51	1773	-0.149	3.28	
"	"	2, -4	10	.03	1760	1600	61	1757	-0.149	3.10	
"	"	10, -6	9	.03	1747	1650	45	1700	-0.149	-2.82	
"	"	10, -12	10	.02	1809	1750	46	1734	-0.149	3.28	
"	"	8, -12	9	.01	1686	1640	56	1715	-0.149	-2.82	
"	"	8, -14	9	.03	1473	1400	49	1366	-0.149	-2.82	
"	"	6, -14	11	.02	1756	1700	52	1734	-0.149	-2.82	
"	"	4, -14	11	.03	1808	1750	41	1780	-0.149	-2.82	
"	"	2, -14	11	.02	1730	1675	49	1791	-0.149	9.03	
"	"	2, -12	10	.01	1637	1600	59	1509	-0.149	-2.82	
"	"	2, -10	10	.01	1534	1500	59	1547	8.048	-2.82	
"	"	2, -8	11	.02	1728	1700	51	1827	-0.149	-2.82	
"	"	4, -8	11	.01	1796	1775	47	1736	-0.149	3.10	

FORM SERIAL #: 7-004 (Survey Section - Sequential survey #)	LOCATION # 7-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0162	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070201.XLD
 Batch Ended: 1/14/93 14:40
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Application Revision: 2
 Application Version: Standard

Batch ID: TSB - 7-2-1 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
42	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:23
43	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:23
44	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:24
45	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:24
46	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:25
47	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:25
48	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:26
49	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:26
50	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:27
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:27
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:28
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:28
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:29
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:29
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:30
7	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:30
8	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:31
9	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:31
10	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:32
11	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:32
12	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:33
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:33
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:34
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:34
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:35

LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070201.XLD
 Batch Ended: 1/14/93 14:40
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-2-1 walls and floor

Corner	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
17	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:35
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:36
19	8.048	8.31	At Al	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/14/93 14:37
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:37
21	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:38
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:38
23	-0.149	1.36	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:39
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:39
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:40
26	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:40

SURVEY POINT NOT NEEDED.

APPENDIX C

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 3

(#) IF USED	ALPHA SURVEY EQUIPMENT				(#) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
	ESP2: 1517-L	21.7%	4.60			ESP2: 1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0	
#	FLMON: 91943	20.4%	4.9	56	#	FLMON: 91943	30.3%	3.3	1690

SURVEY DATE: 1/14/93
 COUNT DATE: 1/14/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
#	PAW7: 234	10 uR/hr
	E520: 5242	uR/hr
	E520: 5245	uR/hr
#	ESP2: 1522	.02 uR/hr

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
(#) IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA P 1 W, uR/hr	BETA/GAMMA CONT. uR/hr	SCAN CONTACT CROSS CPM		CONTACT CROSS 1 MIN. CT.		SWEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Concrete floor	N/A	14, -16	10	.01	1611	1600	48	1675	-0.149	-2.82	Flocon used for scans
"	"	14, -18	10	.02	1539	1500	60	1621	-0.149	-2.82	1 min counts.
"	"	14, -20	10	.01	1483	1450	54	1569	-0.149	3.28	"
"	"	14, -22	11	.01	1596	1575	56	1639	-0.149	-2.82	"
"	"	14, -24	11	.02	1562	1540	51	1610	-0.149	-2.82	"
"	"	14, -26	10	.02	1498	1475	44	1642	-0.149	5.24	"
"	"	14, -28	11	.04	1528	1475	51	1523	-0.149	3.10	"
"	"	12, -28	9	.02	1506	1460	45	1508	-0.149	-2.82	"
"	"	12, -26	9	.01	1530	1500	59	1498	-0.149	-2.82	"
"	"	12, -24	10	.02	1495	1475	56	1498	-0.149	-2.82	"
"	"	12, -22	10	.01	1526	1475	59	1553	-0.149	3.28	"
"	"	12, -20	10	.01	1629	1580	45	1571	-0.149	3.10	"
"	"	12, -18	9	.01	1623	1575	35	1644	-0.149	-2.82	"
"	"	12, -16	9	.01	1596	1550	49	1564	-0.149	9.03	"
"	"	10, -16	9	.01	1657	1550	40	1508	-0.149	-2.82	"

FORM SERIAL #: 7-005 (Survey Section - Sequential survey #)	LOCATION #: 7-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0163	SURVEYOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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(#) IF USED	ALPHA SURVEY EQUIPMENT				(#) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
	ESP2: 1517-L	21.7%	4.60			ESP2: 1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4C: 4478	18.5%	5.4			PAC4C: 4478	33.5	3.0	
#	FLMON: 91943	20.4%	4.9	56	#	FLMON: 91943	30.3%	3.3	1640

SURVEY DATE: 1/14/93
 COUNT DATE: 1/14/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
#	PRM7: 234	10 uR/hr
	E520: 5242	ur/hr
	E520: 5245	ur/hr
#	ESP2: 1522	.02 ur/hr

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(#) IF USED	INST: S/N	EFF	C.F.	BKG
	#	TENN: 13295	49.6%	2.01
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X Y REF POINT	GAMMA # 1 W. uR/hr	BETA/GAMMA CONT. ur/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SWEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
					Concrete floor	N/A	10, -18	9	.02	1575	
"	"	10, -20	10	.01	1659	1550	39	1424	-0.149	-2.82	1 min counts
"	"	10, -22	10	.01	1583	1576	50	1519	-0.149	-2.82	"
"	"	10, -24	9	.01	1487	1450	48	1566	-0.149	-2.82	"
"	"	10, -26	9	.02	1403	1350	44	1450	-0.149	-2.82	"
"	"	10, -28	9	.01	1381	1350	61	1318	-0.149	-2.82	"
"	"	4, -16	10	.01	1560	1410	51	1453	-0.149	-2.82	"
"	"	4, -18	8	.01	1572	1480	60	1516	-0.149	-2.82	"
"	"	4, -20	10	.01	1526	1500	38	1527	-0.149	-2.82	"
"	"	2, -20	10	.02	1552	1500	49	1507	-0.149	9.03	"
"	"	2, -22	10	.02	1658	1550	46	1482	-0.149	-2.82	"
"	"	2, -24	10	.02	1502	1475	63	1509	-0.149	-2.82	"
"	"	2, -26	11	.02	1662	1550	39	1513	-0.149	3.28	"
"	"	4, -26	9	.01	1551	1500	54	1470	-0.149	-2.82	"
"	"	6, -16	9	.01	1480	1450	42	1447	-0.149	-2.82	"

FORM SERIAL #: 7-005 (Survey Section - Sequential survey #)	LOCATION #: 7-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0164	SURVEYOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070301.XLD
 Batch Ended: 1/14/93 15:01
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 14F

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-3-1 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:41
28	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:41
29	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:42
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:42
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:43
32	-0.149	0.79	<MDA	10.65	5.24	4.70	<MDA	16.60	1.00	-0.055	2.60	1/14/93 14:44
33	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:44
34	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:45
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:45
36	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:46
37	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:46
38	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:47
39	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:48
40	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:48
41	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:49
42	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:49
43	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:50
44	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:50
45	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:51
46	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:51
47	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:52
48	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:52
49	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:53
50	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:53
1	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 14:54

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070301.XLD
 Batch Ended: 1/14/93 15:01
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-3-1 walls and floor

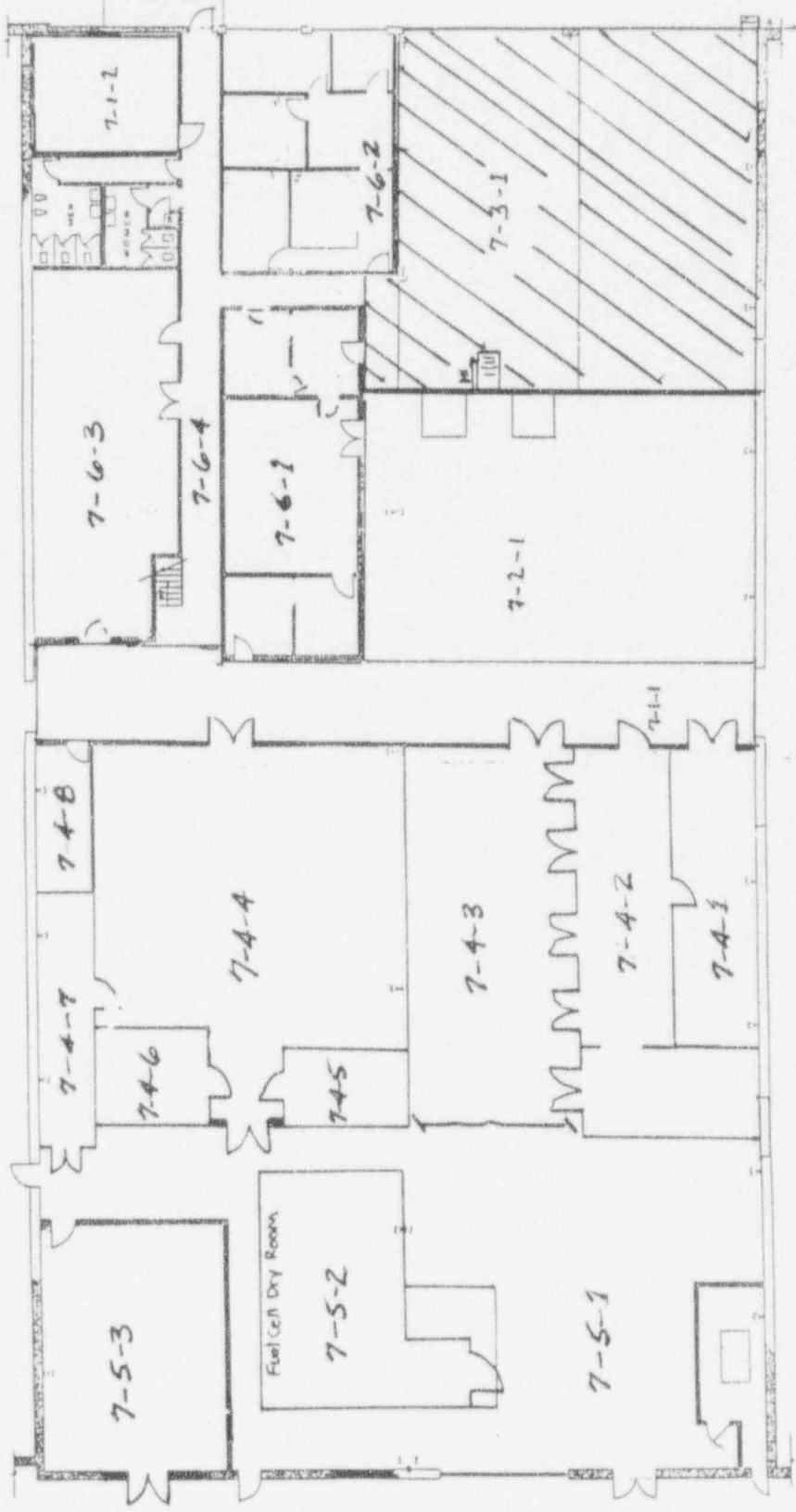
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
2	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 14:54
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:55
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:55
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:56
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:56
7	0.140	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:57
8	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:57
9	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 14:58
10	7.907	8.07	ALAL	27.24	3.10	7.22	<MDA	35.16	0.34	2.886	1.54	1/14/93 14:58
11	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 14:59
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 14:59
13	-0.140	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:00
0	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 15:00
0	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 15:01

Banks →

REVISIONS

NO.	DATE	BY	DESCRIPTION

D C B A



LEGEND
 [Symbol] BRICK
 [Symbol] CONIC BLOCK EXT
 [Symbol] CONIC BLOCK INT
 [Symbol] DRYWALL & PARTING
 SCALE: FEET
 0 5 10 15 20 25

REV. NO.	REV. DATE	REV. BY	REV. DESCRIPTION

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
 FINISHES - TO NOT SCALE
 WALLS 1/2" MIN. THICK
 FLOORS 1/2" MIN. THICK
 CEILING 1/2" MIN. THICK
 PARTITION WALLS 1/2" MIN. THICK
 DOORS 3'0" WIDE
 WINDOWS 3'0" WIDE
 STAIRS 3'0" WIDE
 ELEVATOR 3'0" WIDE

PROJECT NO. 14683
 DRAWING NO. JN-014
 SHEET NO. 1A

Nucleonics Advanced Energy Systems Division
 Pittsburgh, Pennsylvania
 FIRST FLOOR
 BUILDING NO. 7
 WAESD LARGE, PA.


(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	237
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/13/93
COUNT DATE: 1/13/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
		TENN: 13295	49.6%	2.01
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling Beam	14, -28	N/A	N/A	N/A	205	170	4	129	-0.149	-2.82	
"	12, -28	"	"	"	246	180	2	152	-0.149	9.03	
"	10, -28	"	"	"	185	120	.999	153	-0.149	3.10	
"	6, -28	"	"	"	158	130	4	138	-0.149	-2.82	
"	4, -28	"	"	"	150	130	0	156	-0.149	-2.82	
"	14, -26	"	"	"	172	120	2	135	-0.149	-2.82	
"	12, -26	"	"	"	177	146	0	144	-0.149	-2.82	
"	10, -28	"	"	"	133	100	.999	139	-0.149	3.10	
"	8, -26	"	"	"	151	130	.999	129	-0.149	-2.82	
"	4, -26	"	"	"	153	120	3	155	-0.149	3.10	
"	14, -26	"	"	"	192	160	.999	141	-0.149	3.10	
"	12, -24	"	"	"	155	120	.999	132	-0.149	3.28	
"	10, -24	"	"	"	157	130	0	135	-0.149	-2.82	
"	6, -24	"	"	"	158	120	0	145	-0.149	-2.82	
"	4, -24	"	"	"	198	160	.999	167	-0.149	-2.82	

FORM SERIAL #:7-002 (Survey Section - Sequential survey #)	LOCATION #7-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: 4 (Group I, II, III, IV)	DISK FILE CODE: FDS-0156	SURVEYOR SIGNATURE: TB 
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(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/M	EFF	C.F.	BKG CPM		INST: S/M	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0		ESP2:1595-L	31.3%	3.20	237
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE:	1/13/93
COUNT DATE:	1/14/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/M	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling Beam	2, -24	N/A	N/A	N/A	196	170	0	168	-0.149	3.10	
"	14, -22	"	"	"	154	110	.999	106	-0.149	-2.82	
"	12, -22	"	"	"	123	100	0	96	-0.149	-2.82	
"	10, -22	"	"	"	159	120	0	144	-0.149	3.28	
"	6, -22	"	"	"	150	120	.999	101	-0.149	-2.82	
"	4, -22	"	"	"	125	100	.999	125	-0.149	3.28	
"	2, -22	"	"	"	173	130	.999	160	-0.149	-2.82	
"	14, -20	"	"	"	135	110	.999	99	-0.149	-2.82	
"	12, -20	"	"	"	159	120	2	112	-0.149	-2.82	
"	10, -20	"	"	"	120	100	.999	132	-0.149	-2.82	
"	6, -20	"	"	"	135	120	.999	119	7.807	-2.82	
"	4, -20	"	"	"	172	140	0	144	-0.149	3.10	
"	2, -20	"	"	"	192	140	2	141	-0.149	9.03	
"	14, -18	"	"	"	173	120	0	126	-0.149	-2.82	
"	12, -18	"	"	"	151	120	2	147	-0.149	3.28	

FORM SERIAL #: 7-002 (Survey Section - Sequential survey #)	LOCATION # 7-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0157	SURVEYOR SIGNATURE: <i>[Signature]</i>
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(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2	*	ESP2:1595-L	31.3%	3.20	165
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 189i	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/14/93
COUNT DATE: 1/14/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling Beam	10, -18	N/A	N/A	N/A	137	100	2	118	-0.149	3.28	
"	-18	"	"	"	146	110	0	150	-0.149	-2.82	
"	4, -18	"	"	"	142	120	4	137	-0.149	-2.82	
"	2, -18	"	"	"	162	140	4	117	-0.149	3.28	
"	14, -16	"	"	"	176	130	2	109	-0.149	3.10	
"	12, -16	"	"	"	147	100	0	103	-0.149	-2.82	
"	10, -16	"	"	"	166	120	2	134	-0.149	-2.82	
"	6, -16	"	"	"	135	110	2	119	-0.149	-2.82	
"	4, -16	"	"	"	182	160	4	126	-0.149	9.39	
"	2, -16	"	"	"	186	150	0	151	-0.149	3.28	

FORM SERIAL #: 7-002 (Survey Section - Sequential survey #)	LOCATION # 7-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0158	SURVEYOR SIGNATURE: TB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit ID: 1
 Data file name: C:\LBXL\UNIT1\070301UP.XLD
 Batch Ended: 1/14/93 11:00
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-3-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:40
2	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 10:41
3	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 10:41
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:42
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:42
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:43
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:43
8	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 10:44
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:44
10	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 10:45
11	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 10:45
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 10:46
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 10:46
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:47
15	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:47
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:48
17	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 10:48
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:49
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:50
20	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 10:50
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:51
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 10:51
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:52
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:52
25	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:53

LB5100W Low Background Counting System – Smear Analysis

Date: 1/14/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070301UP.XLD
 Batch Ended: 1/14/93 11:00
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-3-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TDD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	7.807	8.07	At AL	27.24	-2.82	4.13	<MDA	35.16	0.34	2.886	-1.40	1/14/93 10:53
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:54
28	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 10:54
29	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/14/93 10:55
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:55
31	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 10:56
32	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:56
33	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:57
34	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 10:57
35	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/14/93 10:58
36	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/14/93 10:58
37	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:59
38	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/14/93 10:59
39	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/14/93 11:00
40	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/14/93 11:00

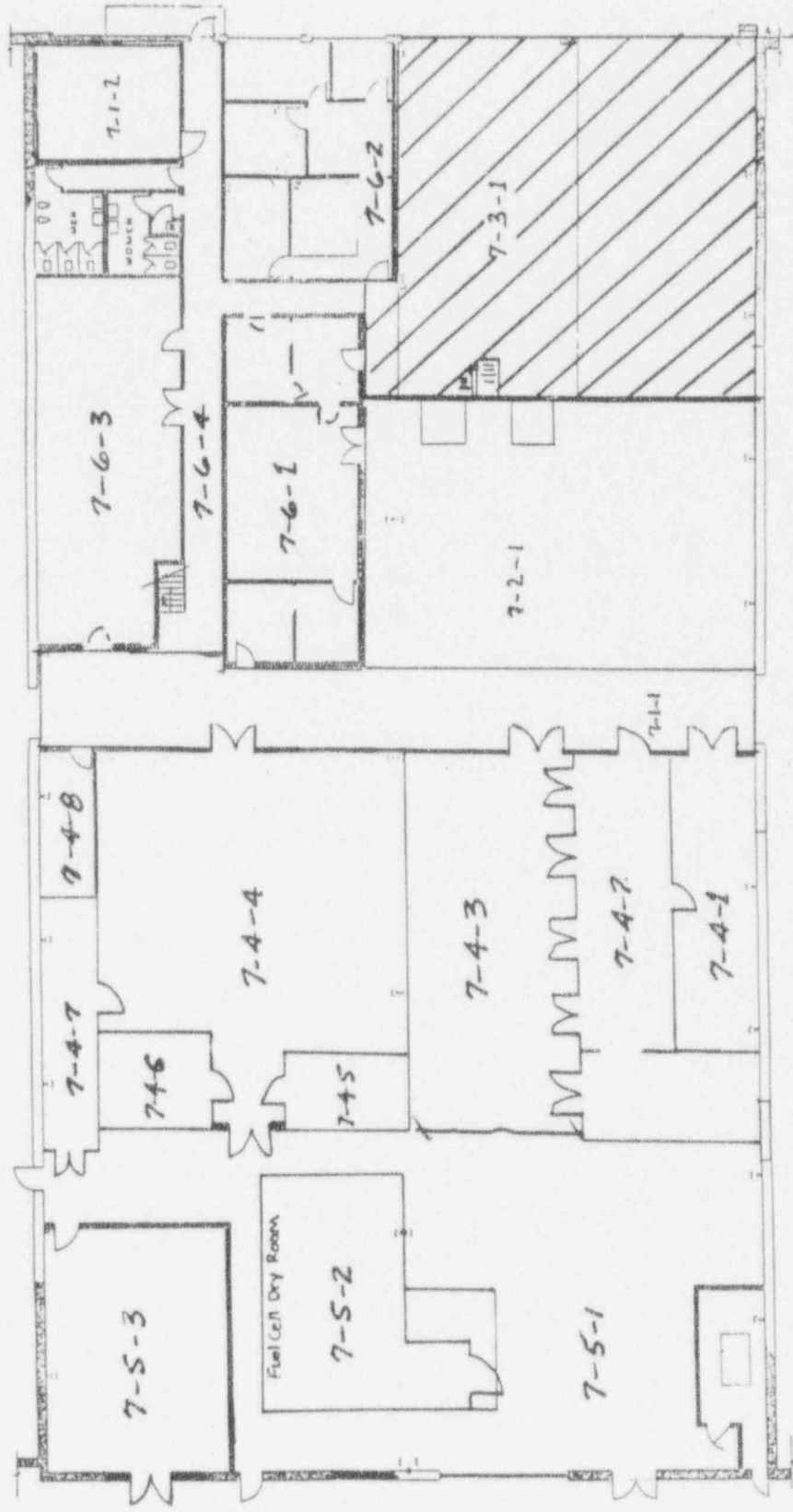
REVISIONS

D

C

B

A



REV	NO	DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION	BY	CHKD

PARTS LIST		PART NO		QUANTITY		DESCRIPTION	

WALLS FINISHED SPECIES		CONCRETE		ROOFING		FLOORING		PAINTING	

WATER		SEWER		GAS		ELECTRICAL		TELEPHONE	

LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

W. J. HUGHES ARCHITECTS INCORPORATED
 1000 MARKET STREET
 PHILADELPHIA, PENNSYLVANIA

FIRST FLOOR
 BUILDING No 7
 WAESD LARGE, PA.

DATE: JN-014
 DRAWN BY: D 14683
 CHECKED BY: JN-014

APPENDIX D

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 4

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	171
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	50	*	FLMON:91943	30.3%	3.3	1258

SURVEY DATE: 1/20/93
 COUNT DATE: 1/20/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.015 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	N/A	2, -2	10	.015	1265	1200	40	1258	-0.149	-2.82	Floor monitor used for
"	"	4, -2	9	.016	1315	1250	67	1311	-0.149	-2.82	scans & one minute
"	"	6, -2	11	.02	1324	1300	64	1283	-0.149	-2.82	counts
"	"	8, -2	10	.01	1310	1275	40	1298	-0.149	3.28	"
"	"	10, -2	10	.01	1268	1225	39	1288	-0.149	9.39	"
"	"	6, 0	10	.012	1370	1325	50	1295	-0.149	-2.82	"
"	"	6, 2	11	.018	1320	1300	44	1354	-0.149	-2.82	"
South Wall	"	6, -.5	N/A	N/A	240	175	2	173	-0.149	3.10	"
"	"	8, -.5	"	"	220	150	0	182	-0.149	9.39	ESP's used for scans
"	"	10, -.5	"	"	197	175	.999	189	-0.149	3.10	& one minute counts
West Wall	"	2, -.5	"	"	213	140	0	187	-0.149	3.28	"
"	"	4, -.5	"	"	240	155	.999	185	-0.149	-2.82	"
"	"	6, -.5	"	"	255	175	.999	166	-0.149	-2.82	"
"	"	8, -.5	"	"	225	175	.999	164	-0.149	-2.82	"

FORM SERIAL #: 7-014 (Survey Section - Sequential survey #)	LOCATION # 7-4-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0181	SURVEYOR SIGNATURE: TS <i>T. S. Shuff</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/20/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070404.XLD
 Batch Ended: 1/20/93 13:01
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-4 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 12:55
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 12:55
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 12:56
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 12:56
5	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 12:57
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 12:57
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 12:58
8	-0.149	1.25	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 12:58
9	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 12:59
10	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 12:59
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 13:00
12	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 13:00
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 13:01
14	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 13:01

LB5100W Low Background Counting System – Smear Analysis

Date: 1/20/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070407.XLD
 Batch Ended: 1/20/93 13:03
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Counting level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-7 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 13:02
16	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 13:02
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 13:03

LB5100W Low Background Counting System – Smear Analysis

Date: 1/21/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070401.XLD
 Batch Ended: 1/21/93 7:30
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

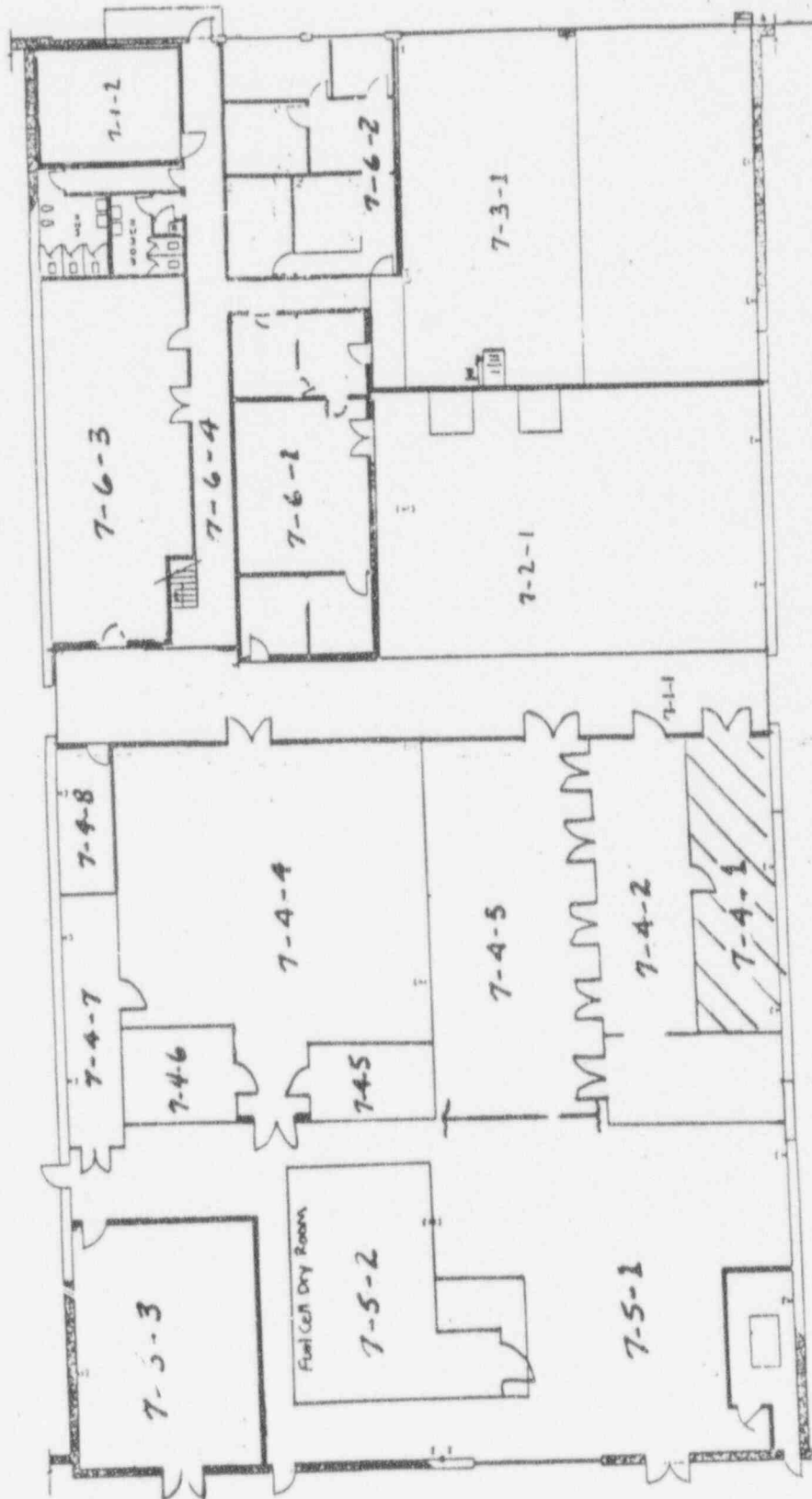
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-1 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOB
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/21/93 7:30

REVISIONS	
NO.	DESCRIPTION



REV.	DATE	DESCRIPTION	BY	CHKD.

PARTS LIST			
NO.	DESCRIPTION	QTY.	UNIT

BUILDING INFORMATION	
PROJECT NO.	
DATE	
SCALE	
DRAWN	
CHECKED	
DATE	
NO.	

PROJECT INFORMATION	
Rochester Advanced Energy Systems Division	
FIRST FLOOR	
BUILDING NO. 7	
WAESD LARG.E, PA.	
PROJECT NO.	JN-014 A
DATE	
NO.	

LEGEND

- BRICK
- CONCRETE BLOCK EXT.
- CONCRETE BLOCK INT.
- DRYWALL & PARTITIONING

SCALE: FEET
0 5 10 15 20 25

1 2 3 4 5 6 7 8 9 10 11 12

LB5100W Low Background Counting System – Smear Analysis

Date: 1/21/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070401UP.XLD
 Batch Ended: 1/21/93 7:34
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

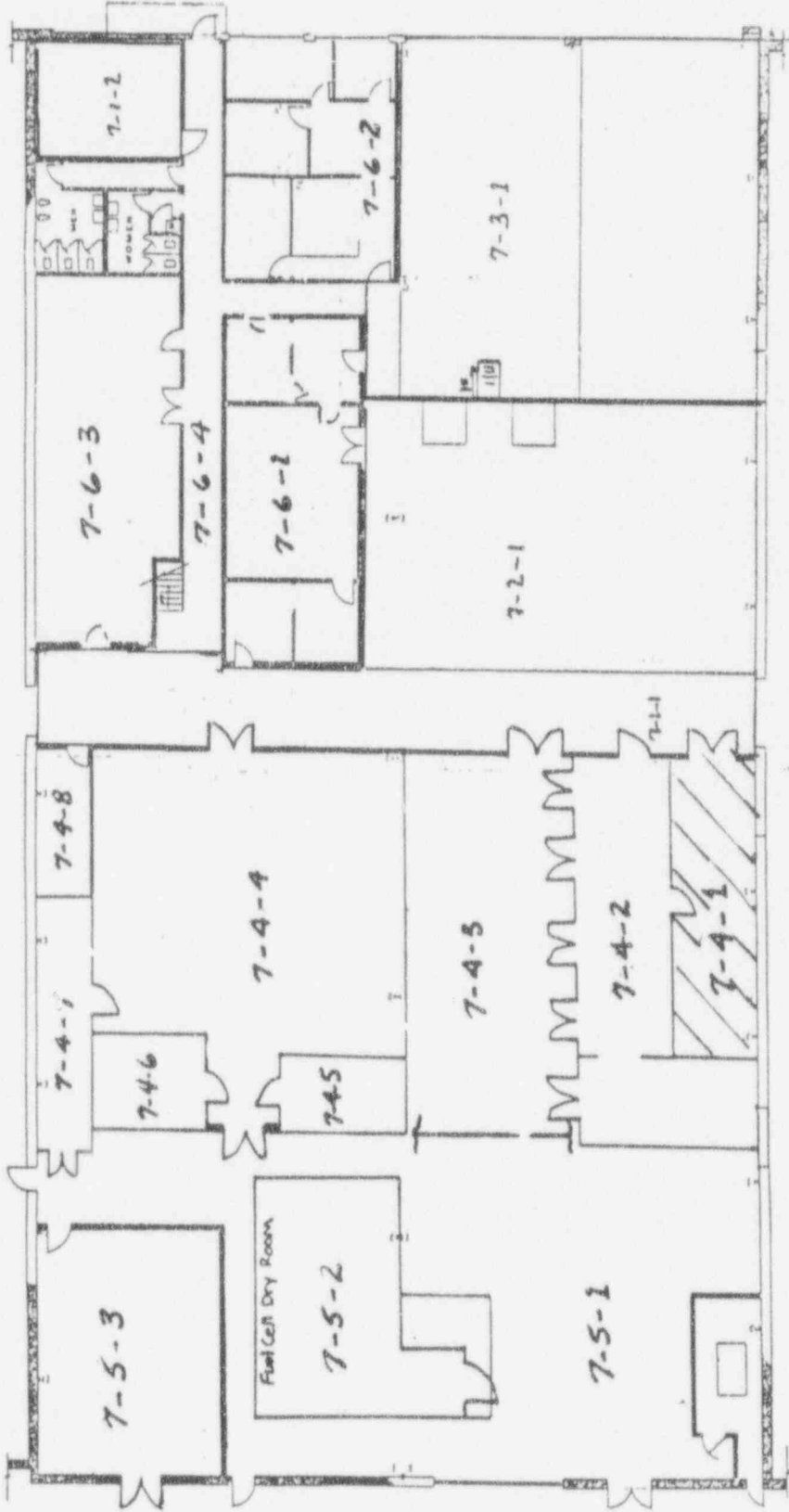
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
6	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/21/93 7:33
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 7:33
8	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/21/93 7:34

REVISIONS

D C B A



REV	DATE	DESCRIPTION	BY	CHECKED

NO.	DESCRIPTION	QTY	UNIT	REMARKS
PARTS LIST				

<p>RESOURCES</p> <p>BRICK</p> <p>CONCRETE</p> <p>CONCRETE BLOCK EXT</p> <p>CONCRETE BLOCK INT</p> <p>DRYWALL & PANELING</p>		<p>SCALE: FEET</p> <p>0 5 10 15 20 25</p>
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<p>PROJECT: Westinghouse Advanced Energy Systems Division</p> <p>BUILDING NO: 7</p> <p>WASD LARGE, PA.</p>	<p>DATE: JN-014</p> <p>SCALE: 1/4" = 1'-0"</p>
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(#) IF USED	ALPHA SURVEY EQUIPMENT			BETA SURVEY EQUIPMENT			BKG CPM
	INST: S/N	EFF	C.F.	INST: S/N	EFF	C.F.	
	ESP2: 1517	21.1%	4.7%	ESP2: 1595	34.2%	2.92	
+	ESP2: 1517-L	21.7%	4.60	ESP2: 1595-L	31.3%	3.20	110
	ESP2:			ESP2:			
	ESP2:			ESP2:			
	ESP2:			E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23	E520: 5245	20.5%	4.87	
	PAC4C: 4478	18.5%	5.4	PAC4C: 4478	33.5	3.0	
+	FLM0N: 91943	20.4%	4.9	FLM0N: 91943	30.3%	3.3	1385

SURVEY DATE: 1/20/93
COUNT DATE: 1/21/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP			R/S: L-2088	UR/hr
	INST: S/N	EFF	BKG		
+	PAM7: 234	9	UR/hr		
	E520: 5242		UR/hr		
	E520: 5245		UR/hr		
+	ESP2: 1522	.02	UR/hr		

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			BKG
	INST: S/N	EFF	C.F.	
+	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
(#) IF USED	COUNTING EQUIPMENT (BETA)			BKG
	INST: S/N	EFF	C.F.	
+	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BE-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA # 1 M, UR/hr	BETA/GAMMA CONT. UR/hr	SCAN CONTACT CROSS CPM			CONTACT CROSS 1 MIN. CT.			SWEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	BETA	ALPHA	BETA	ALPHA	BETA		
												ALPHA	
Floor	N/A	2, -2	9	.022	1402	1380	37	1332	-0.149	-2.82	Floors used for scans		
"	"	4, -2	9	.020	1408	1375	57	1297	-0.149	-2.82	1 min counts.		
"	"	6, -2	9	.015	1289	1275	52	1314	-0.149	-2.82	"		
"	"	6, -10	9	.021	161	120	2.0	151	-0.149	3.10	ESPs used for scans		
											1 min counts.		

FORM SERIAL #: 7-018 (Survey Section - Sequential survey #)	LOCATION #: 7-4-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0185	SURVEYOR & SIGNATURE: T.S. 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/21/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070402.XLD
 Batch Ended: 1/21/93 7:32
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

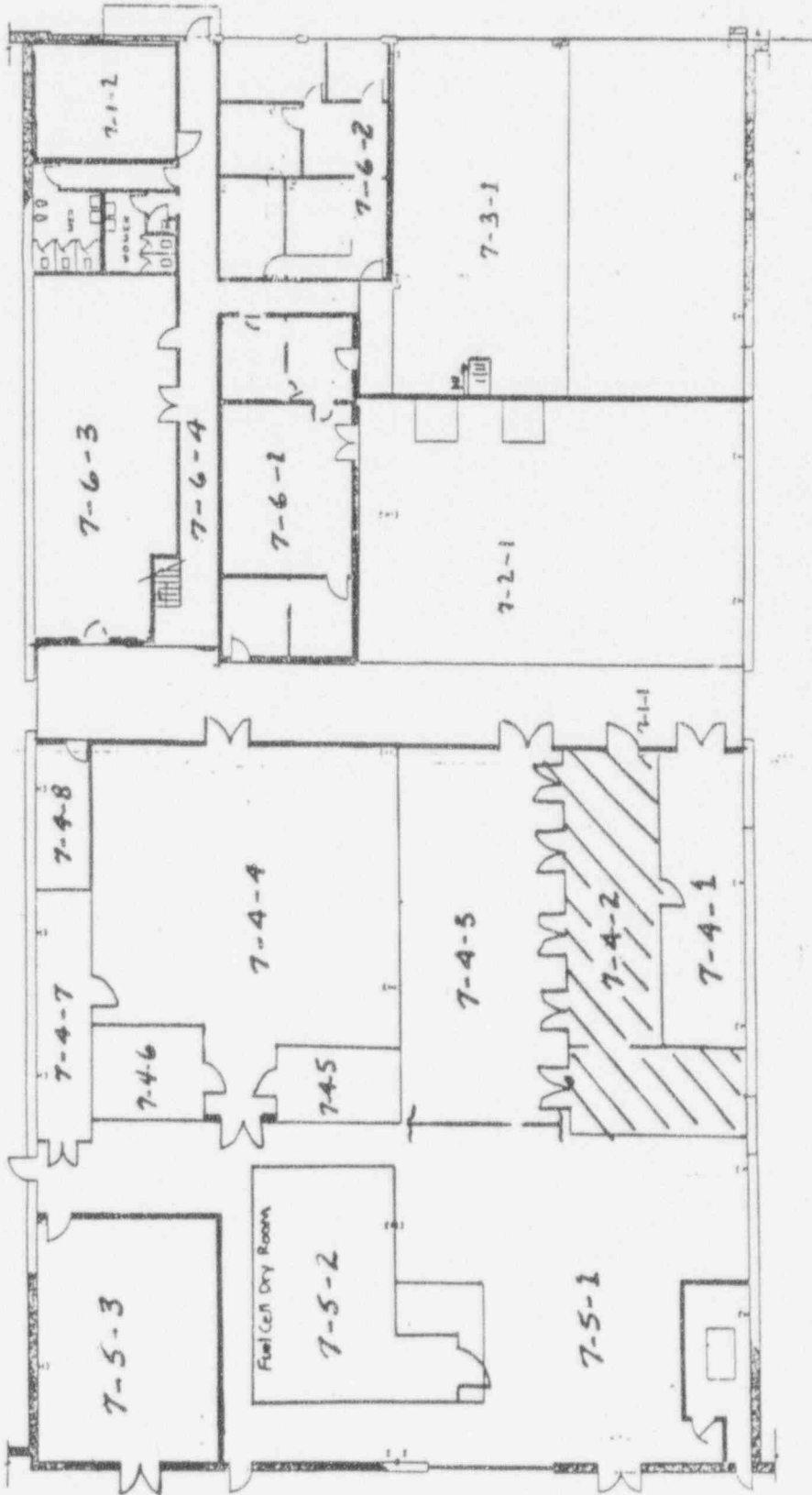
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-2 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 7:31
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 7:31
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 7:32
5	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/21/93 7:32

NO.	DATE	REVISIONS

D ← C ← B ← A



NO.	DATE	REVISIONS

LEGEND [Symbol] BRICK [Symbol] CONCRETE BLOCK EXT [Symbol] CONCRETE BLOCK INT [Symbol] GYPSUM WALL & PANELING SCALE: FEET 0 5 10 15 20 25		PARTS LIST PART NO. _____ PART NAME _____ QUANTITY _____ UNIT _____ PRICE _____ TOTAL _____ APPROVED _____ DATE _____
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WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION PITTSBURGH, PENNSYLVANIA FIRST FLOOR BUILDING NO 7 WAESD LARGE, P.A.		DRAWING NO. JN-014 SHEET NO. A
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1 2 3 4 5 6 7 8 9 10 11 12

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/M	EFF	C.F.	BKG CPM		INST: S/M	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	50	*	FLMON:91943	30.3%	3.3	1362

SURVEY DATE: 1/20/93
COUNT DATE: 1/21/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/M	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	9 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	N/A	8, -16	9	.015	1653	1580	47	1632	8.048	-2.82	Floor monitor used for
"	"	6, -16	8	.010	1695	1650	47	1696	8.048	3.28	scans and 1 minute
"	"	8, -18	10	.014	1690	1600	42	1595	-0.149	3.28	counts
"	"	8, -20	10	.005	1540	1490	47	1638	-0.149	3.28	"
"	"	8, -22	9	.011	1510	1420	55	1509	-0.149	-2.82	"
"	"	8, -24	9	.010	1488	1400	54	1420	-0.149	9.39	"
"	"	8, -26	10	.017	1496	1425	45	1479	-0.149	3.28	"
"	"	8, -28	9	.018	1455	1440	55	1413	-0.149	-2.82	"
"	"	6, -28	9	.012	1470	1400	48	1362	-0.149	-2.82	"

FORM SERIAL #: 7-019 (Survey Section - Sequential survey #)	LOCATION # 7-4-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0186	SURVEY SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/21/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070403.XLD
 Batch Ended: 1/21/93 7:38
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-3 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
9	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/21/93 7:34
10	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	1/21/93 7:35
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/21/93 7:35
12	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/21/93 7:36
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 7:36
14	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/21/93 7:37
15	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/21/93 7:37
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 7:38

LB5100W Low Background Counting System – Smear Analysis

Date: 1/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070403AD.XLD
 Batch Ended: 1/23/93 12:49
 Crosstalk Correctio: Not Applied

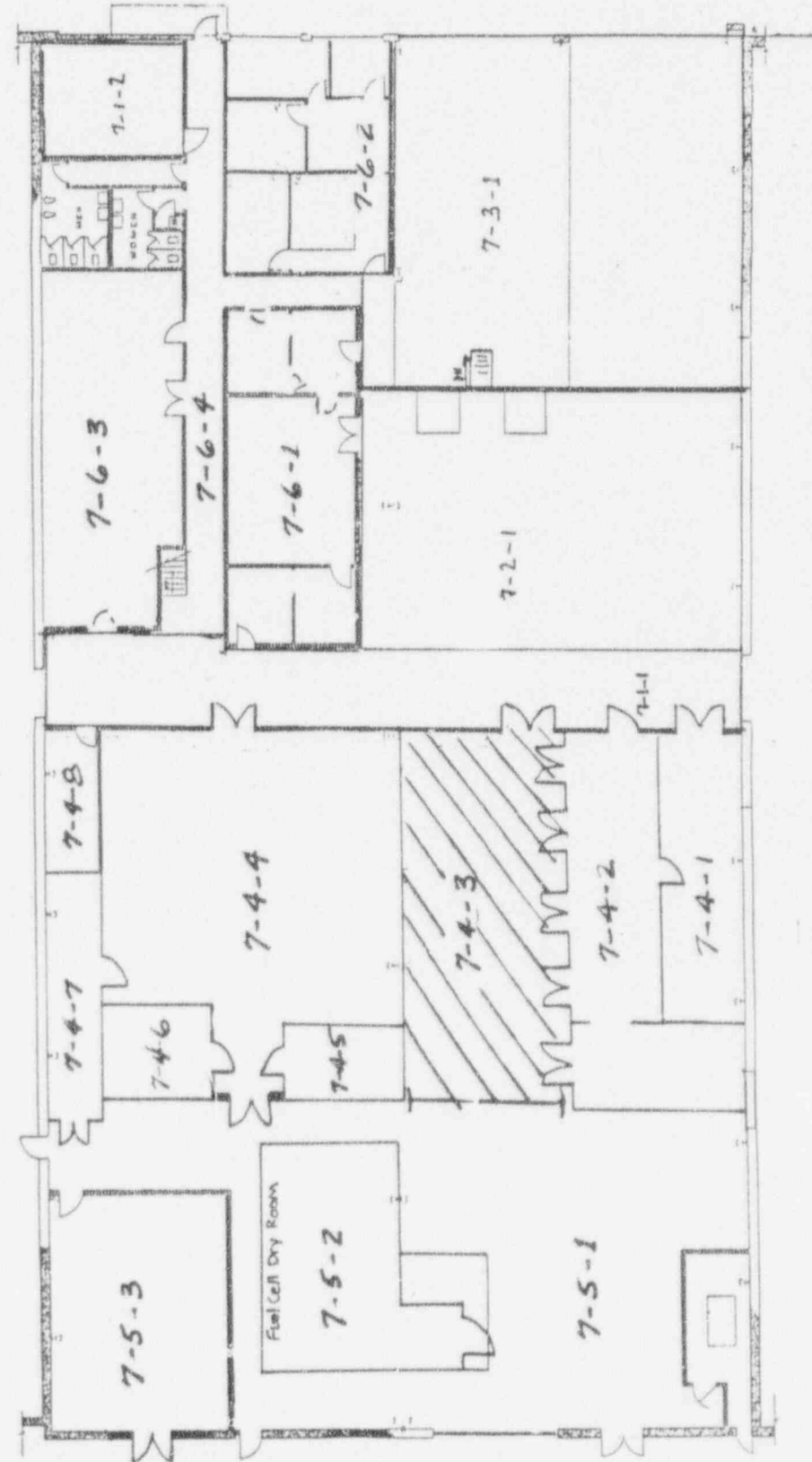
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-3 added point

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 12:49

REVISIONS		
NO.	DATE	DESCRIPTION



REV.	DATE	DESCRIPTION	BY	CHECKED

PARTS LIST	
NO.	DESCRIPTION

CONTRACTOR'S INFORMATION	
NAME	
ADDRESS	
CITY	
STATE	

OWNER'S INFORMATION	
NAME	
ADDRESS	
CITY	
STATE	

GENERAL NOTES	
1.	
2.	
3.	
4.	
5.	

LEGEND

- [Symbol] BRICK
- [Symbol] CONCRETE
- [Symbol] CONCRETE BLOCK EXT
- [Symbol] CONCRETE BLOCK INT
- [Symbol] DRYWALL & PANELING

SCALE: FEET
 0 5 10 15 20 25

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION
 Pittsburgh, Pennsylvania

FIRST FLOOR
BUILDING No 7
WAES LARG, PA

DATE: 10/15/83
 DRAWN BY: D 14683
 CHECKED BY: JN-014
 SCALE: AS SHOWN

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/M	EFF	C.F.	BKG CPM		INST: S/M	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	140
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/21/93
COUNT DATE: 1/21/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/M	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Lights	N/A	1, 1	N/A	N/A	200	175	2	216	-0.149	3.10	ESP's used for scans
"	"	1, 2	"	"	180	165	4	200	-0.149	-2.82	& 1 minute counts
"	"	1, 3	"	"	210	190	5	235	-0.149	-2.82	"
"	"	2, 1	"	"	207	200	2	192	-0.149	3.10	"
"	"	2, 2	"	"	216	200	2	190	-0.149	-2.82	"
"	"	2, 3	"	"	211	200	3	218	-0.149	-2.82	"
"	"	2, 4	"	"	235	220	.999	212	-0.149	-2.82	"
"	"	0, -3	"	"	207	170	3	141	-0.149	-2.82	"
"	"	0, -1	"	"	188	160	.999	116	-0.149	3.28	"
"	"	0, -5	"	"	173	160	.999	127	-0.149	-2.82	"
"	"	0, -7	"	"	191	170	.999	151	-0.149	-2.82	"
"	"	0, -9	"	"	167	155	6.999	143	-0.149	-2.82	"
"	"	0, -11	"	"	160	160	2	131	-0.149	-2.82	"
"	"	0, -13	"	"	189	175	2	119	-0.149	-2.82	"
"	"	0, -15	"	"	162	150	3	138	-0.149	3.28	"

FORM SERIAL #: 7-020 (Survey Section - Sequential survey #)	LOCATION # 7-4-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0187	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/21/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070404UP.XLD
 Batch Ended: 1/21/93 15:11
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

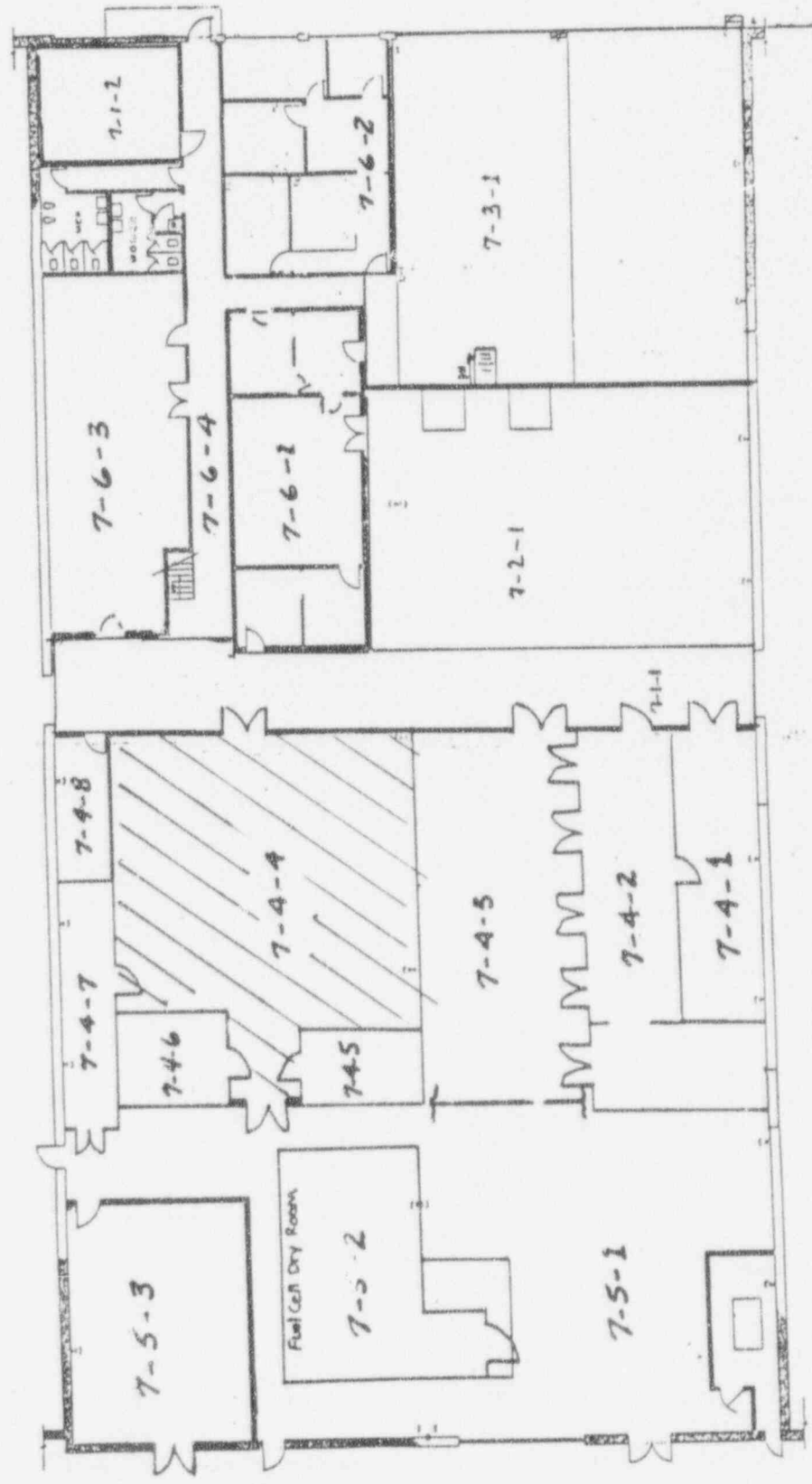
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-4 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/21/93 15:04
11	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:05
12	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:05
13	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/21/93 15:06
14	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:06
15	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:07
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:07
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:08
18	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/21/93 15:08
19	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:09
20	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:09
21	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:10
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:10
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:11
24	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/21/93 15:11

REVISIONS		
NO.	DATE	DESCRIPTION



PARTS LIST		SPECIFICATIONS	
NO.	DESCRIPTION	NO.	DESCRIPTION

DRAWING TITLE		PROJECT NO.	
FIRST FLOOR			
BUILDING NO 7			
WAESD LARGE, PA			
DATE	SCALE	BY	CHECKED

LEGEND

BRICK

CONCRETE

CONCRETE BLOCK DRY

CONCRETE BLOCK WET

DRYWALL & PARTITION

SCALE: FEET

A 1 2 3 4 5 6 7

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	140
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/21/93
COUNT DATE: 1/21/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	

(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East Wall	N/A	-22, -1	N/A	N/A	228	200	.999	216	-0.149	-2.82	ESR's used for scans
"	"	-20, -1	"	"	290	210	2	191	-0.149	-2.82	& 1 minute counts
Ventilation	"	-2, -2	"	"	285	200	.999	320	-0.149	-2.82	"
over head	"	-2, -3	"	"	223	190	.999	217	-0.149	-2.82	"
"	"	-2, -4	"	"	207	175	2	175	-0.149	-2.82	"
Upper Surfaces	"	-2, -6	"	"	201	190	2	211	-0.149	-2.82	"
"	"	-2, -7	"	"	221	200	2	224	-0.149	-2.82	"
"	"	-2, -8	"	"	225	215	.999	192	-0.149	3.28	"
"	"	-2, -9	"	"	231	200	3	196	-0.149	-2.82	"

FORM SERIAL #: 7-021 (Survey Section - Sequential survey #)	LOCATION # 7-4-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0188	SURVEYOR SIGNATURE: TS/TB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/21/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070407UP.XLD
 Batch Ended: 1/21/93 15:03
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

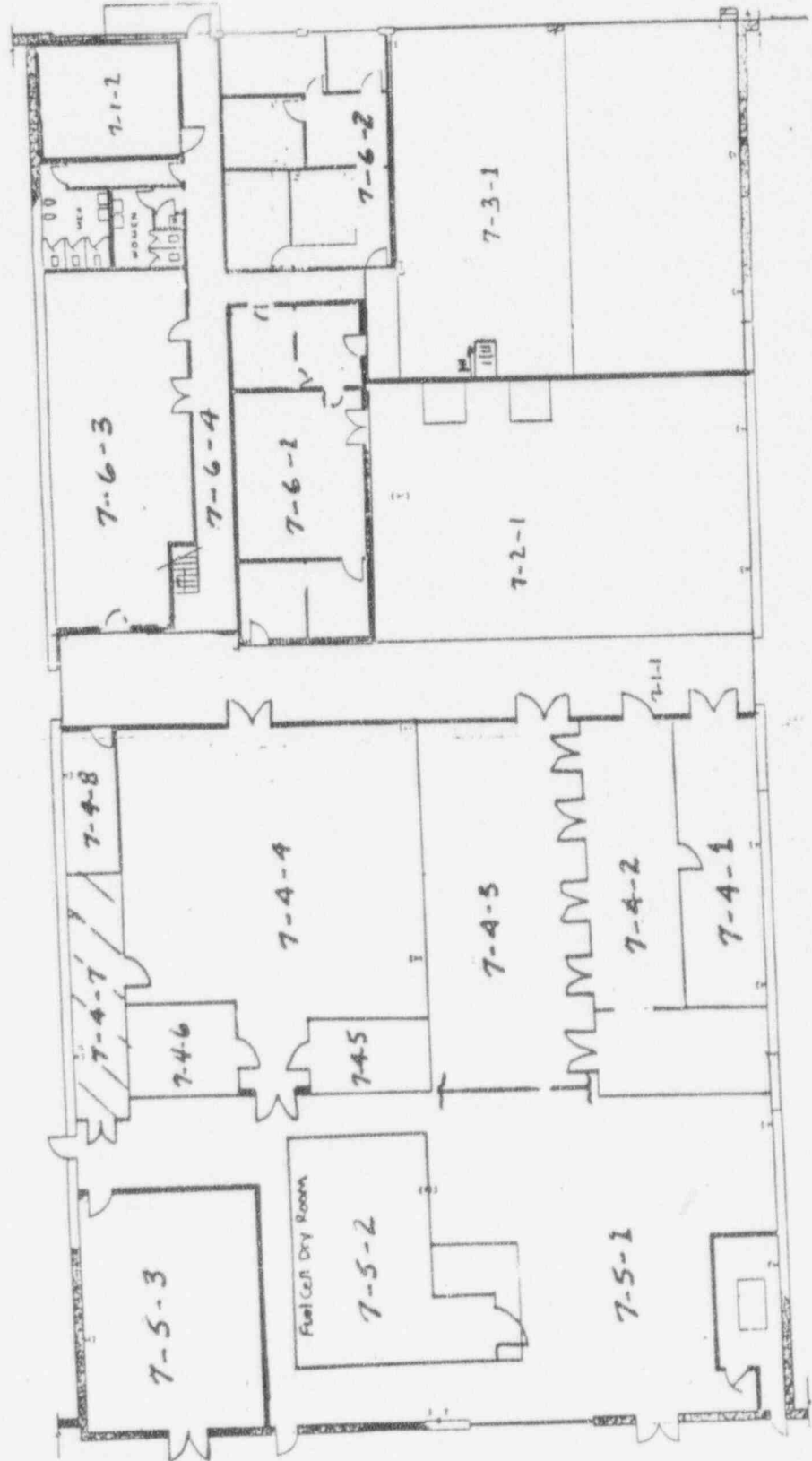
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-7 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 14:59
2	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:00
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:00
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:01
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:01
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:02
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:02
8	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/21/93 15:03
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:03

REVISIONS	
NO.	DESCRIPTION



NO.	REV.	DATE	BY	CHKD.	DESCRIPTION

PARTS LIST	
NO.	DESCRIPTION

LEGEND	
	BRICK
	CONCRETE BLOCK EXTERIOR
	CONCRETE BLOCK INTERIOR
	DRYWALL & PARTITION

SCALE: FEET	
0	5 10 15 20 25

DRAWING CODE NO.	

PROJECT INFORMATION	
PROJECT NO.	
DATE	
BY	
CHKD.	
DATE	

DRAWING TITLE	

DRAWING NO.	

DRAWING DATE	

DRAWING SCALE	

DRAWING SHEET	

WESTINGHOUSE ADVANCED Energy Systems Division
 FIRST FLOOR
 BUILDING No 7
 WAESD LARGE, PA.
 JN-014 A



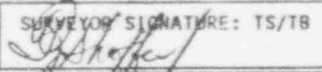
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	140
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/21/93
COUNT DATE: 1/21/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ventillation	N/A	2, 0	N/A	N/A	189	165	3	203	-0.149	-2.82	ESP's used for scans
Beam	"	0, -2	"	"	197	185	4	164	-0.149	-2.82	& 1 minute counts
East Wall	"	-23, -1	"	"	255	240	2	268	-0.149	9.03	"

FORM SERIAL #: 7-022 (Survey Section - Sequential survey #)	LOCATION # 7-4-B (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0189	SURVEYOR SIGNATURE: TS/TB 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/21/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070408UP.XLD
 Batch Ended: 1/21/93 15:13
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

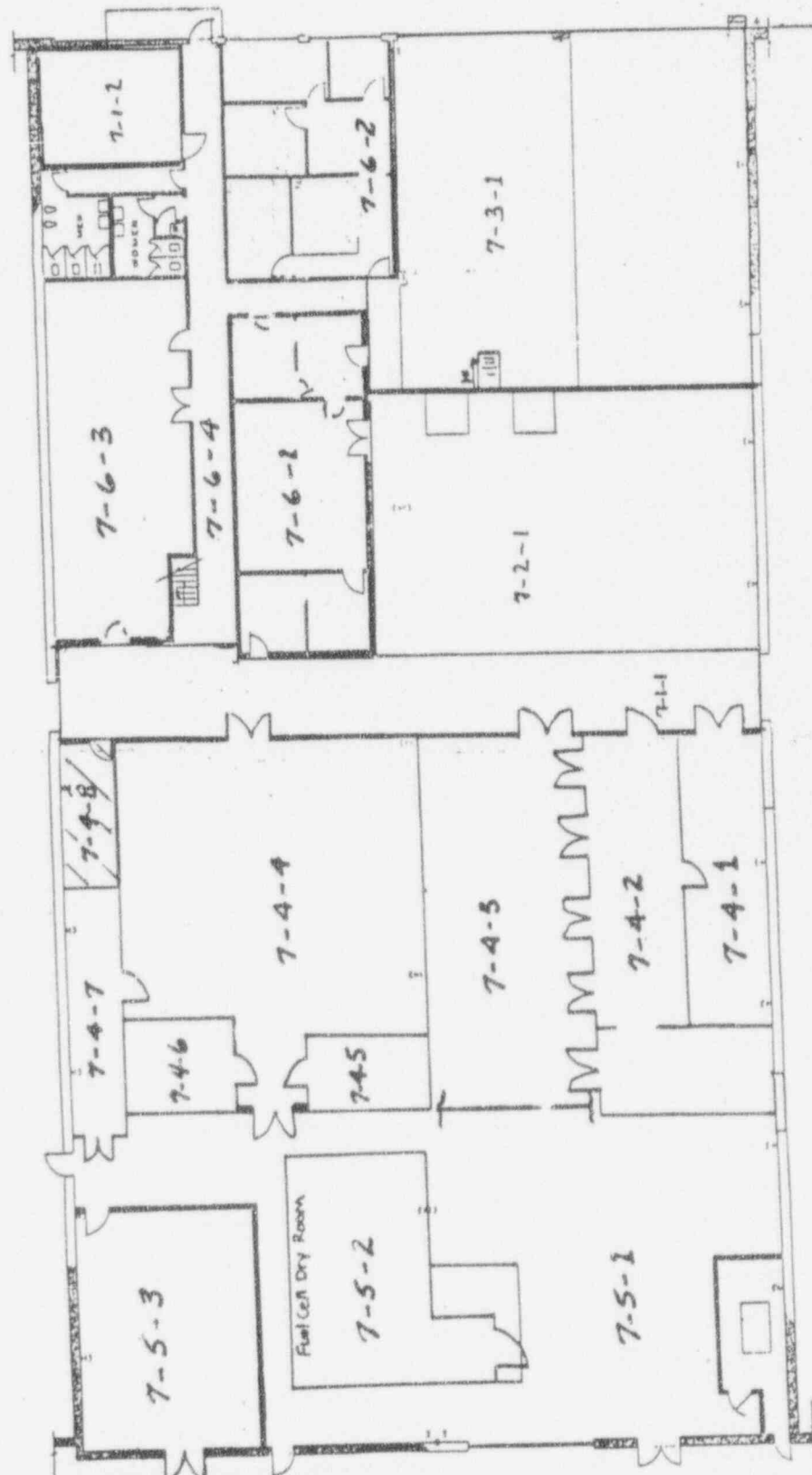
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-4-8 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/21/93 15:12
26	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/21/93 15:12
27	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/21/93 15:13

REVISIONS

D C B A



LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

PARTS LIST

ITEM NO	DESCRIPTION	QUANTITY	UNIT
1	WALLS - BRICK		
2	WALLS - CONCRETE BLOCK EXTERIOR		
3	WALLS - CONCRETE BLOCK INTERIOR		
4	DRYWALL & PANELING		
5	CEILING - POP		
6	FLOOR - POLISHED CONCRETE		
7	DOORS		
8	WINDOWS		
9	MECHANICAL		
10	ELECTRICAL		
11	PLUMBING		
12	PAINT		
13	GLASS		
14	IRONING		
15	SHOPS		
16	COOKS		

WASTEWATER ADVANCED Energy Systems Division
 Pittsburgh, Pennsylvania

FIRST FLOOR
BUILDING No 7
WAESD LARGEP.A.

DATE: 11/14/83
 DRAWN BY: D
 CHECKED BY: JN-014
 SCALE: AS SHOWN

APPENDIX E

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 5

REPORT #012


(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	110
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/19/93
COUNT DATE: 1/20/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	12, -12	N/A	N/A	N/A	119	90	2	100	-0.149	-2.82	
"	12, -10	"	"	"	124	100	2	98	-0.149	-2.82	
"	12, -8	"	"	"	138	120	.999	103	-0.149	-2.82	
"	10, -12	"	"	"	153	100	0	110	-0.149	9.39	
"	10, -10	"	"	"	154	110	0	90	-0.149	-2.82	
"	10, -8	"	"	"	114	90	.999	80	-0.149	3.28	
"	6, -12	"	"	"	135	100	0	108	-0.149	-2.82	
"	4, -12	"	"	"	125	85	0	103	-0.149	3.28	
"	6, -10	"	"	"	140	115	4	109	-0.149	9.39	
"	4, -10	"	"	"	142	110	0	108	-0.149	9.39	
"	2, -10	"	"	"	138	120	.999	101	-0.149	3.10	
"	6, -8	"	"	"	124	100	.999	103	-0.149	-2.82	
"	4, -8	"	"	"	137	110	.999	123	-0.149	-2.82	
"	2, -8	"	"	"	145	110	.999	127	-0.149	3.28	
"	4, -6	"	"	"	123	100	2	109	-0.149	9.39	

FORM SERIAL #: 7-010 (Survey Section - Sequential survey #)	LOCATION # 7-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0175	SURVEYOR SIGNATURE: 
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(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/W	EFF	C.F.	BKG CPM		INST: S/W	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	110
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/19/93
COUNT DATE: 1/20/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/W	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	2, -6	N/A	N/A	N/A	138	105	.999	126	-0.149	9.39	
"	4, -4	"	"	"	129	100	.999	109	-0.149	3.10	
"	2, -4	"	"	"	148	100	.999	122	-0.149	-2.82	
"	4, -2	"	"	"	145	110	0	129	-0.149	-2.82	
"	2, -2	"	"	"	160	120	0	131	-0.149	3.22	
"	22, -10	"	"	"	127	110	.999	119	-0.149	3.10	
"	22, -8	"	"	"	145	100	0	127	8.048	3.28	
"	22, -6	"	"	"	133	110	0	107	-0.149	-2.82	
"	24, -10	"	"	"	121	90	3	95	-0.149	-2.82	
"	24, -8	"	"	"	141	120	.999	110	-0.149	3.10	
"	26, -10	"	"	"	150	130	2	143	7.807	3.10	
"	26, -8	"	"	"	154	115	4	136	-0.149	3.28	
"	26, -6	"	"	"	137	100	.999	123	-0.149	-2.82	
Crane Rail - East	13, -4	"	"	"	122	90	.999	95	-0.149	-2.82	
"	13, -2	"	"	"	134	100	.999	103	-0.149	3.28	

FORM SERIAL #: 7-010 (Survey Section - Sequential survey #)	LOCATION # 7-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0176	SURVEYOR SIGNATURE: TB <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/20/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070501UP.XLD
 Batch Ended: 1/20/93 7:00
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-5-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:44
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:45
8	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:45
9	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 6:46
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 6:46
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 6:47
12	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:47
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 6:48
14	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 6:48
15	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 6:49
16	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 6:49
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 6:50
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 6:50
19	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	1/20/93 6:51
20	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 6:51
21	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 6:52
22	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 6:52
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 6:53
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:53
25	-0.149	0.79	<MDA	10.65	3.22	4.24	<MDA	16.60	1.00	-0.055	1.60	1/20/93 6:55
26	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 6:55
27	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	1/20/93 6:56
28	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:56
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 6:57
30	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 6:57

LB5100W Low Background Counting System – Smear Analysis

Date: 1/20/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070501UP.XLD
 Batch Ended: 1/20/93 7:00
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

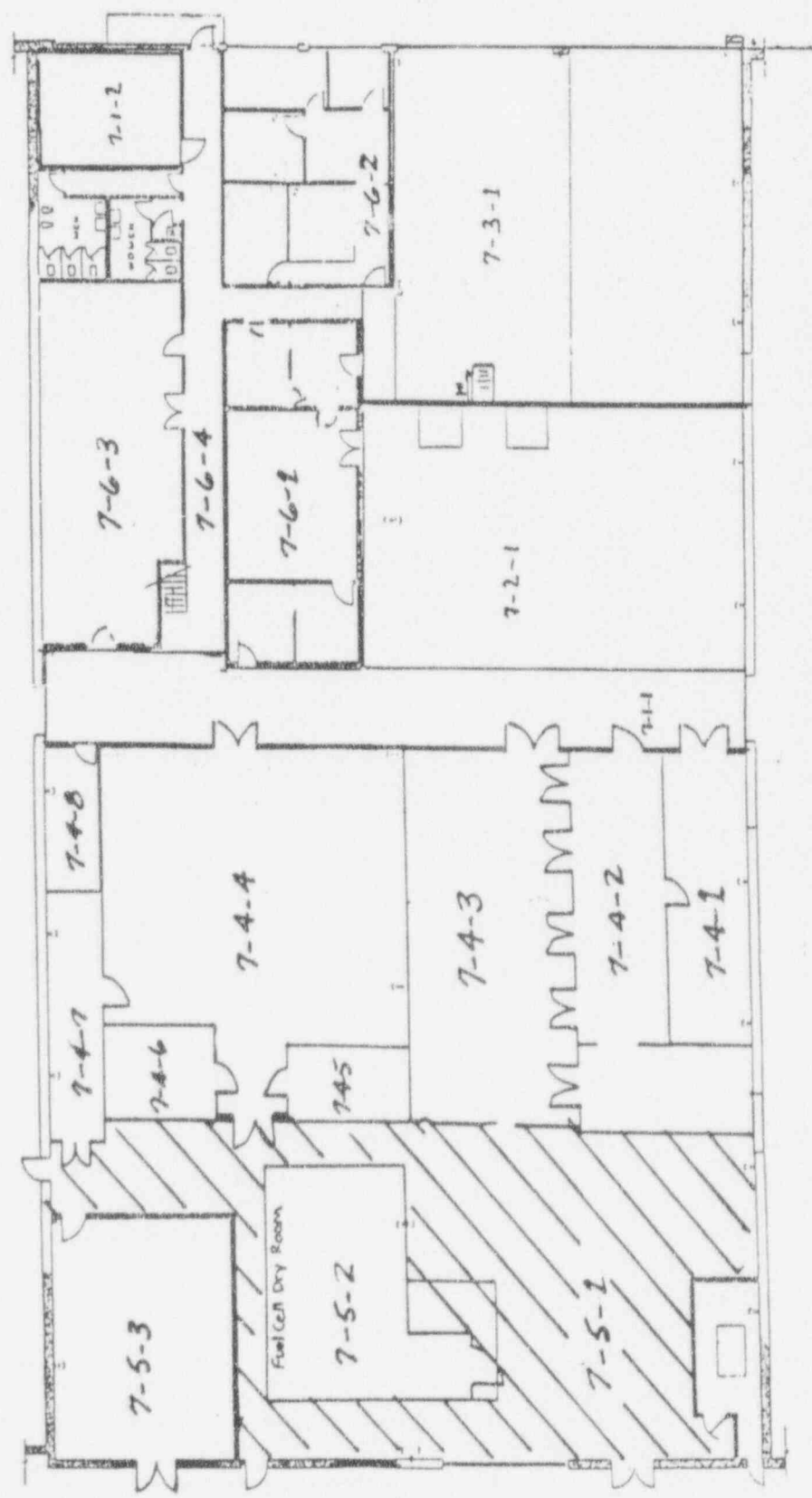
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-5-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
31	7.807	8.07	At AL	27.24	3.10	7.22	<MDA	35.16	0.34	2.886	1.54	1/20/93 6:58
32	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 6:58
33	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 6:58
34	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:58
35	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 7:00

REVISIONS

NO.	DATE	DESCRIPTION



NO.	DATE	DESCRIPTION	BY	CHECKED

NO.	DATE	DESCRIPTION	BY	CHECKED

PARTS LIST		NO.	DESCRIPTION	QTY	UNIT

LEGEND	
	BRICK
	CONCRETE BLOCK EXT
	CONCRETE BLOCK INT
	PARTITION & PANELING

SCALE: FEET

WESTINGHOUSE ELECTRICAL SYSTEMS DIVISION
 FIRST FLOOR
 BUILDING NO. 7
 WAESD LARG E.P.A.
 DRAWING NO. JN-014 A

(*) IF USED	ALPHA SURVEY EQUIPMENT				(*) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
	ESP2: 1517-L	21.7%	4.60			ESP2: 1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0	
#	FLWON: 91943	20.4%	4.9	54	#	FLWON: 91943	30.3%	3.3	1482

SURVEY DATE: 1/19/93
COUNT DATE: 1/20/93

(*) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
#	PRW7: 234	9 uR/hr
	E520: 5242	uR/hr
	E520: 5245	uR/hr
#	ESP2: 1522	.01 uR/hr

(*) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*) IF USED	INST: S/N	EFF	C.F.	BKG
	#	TENN: 13295	49.6%	2.01
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X Y REF POINT	GAMMA @ 1 M, uR/hr	BETA/GAMMA CONT. uR/hr	SCAN CONTACT CROSS CPM		CONTACT CROSS 1 MIN. CT.		SWEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Concrete floor	N/A	4, -2	9	.01	1210	1175	44	1397	8.048	3.28	Flocon used for count
"	"	8, -2	9	.01	1201	1175	50	1290	-0.149	-2.82	# 1 min counts.
"	"	8, -4	9	.01	1263	1200	48	1195	-0.149	-2.82	"
"	"	8, -6	9	.02	1261	1200	49	1077	-0.149	3.10	"
"	"	8, -8	9	.01	1384	1300	57	1235	-0.149	3.28	"
"	"	10, -8	9	.02	1481	1350	45	1396	-0.149	-2.82	"
"	"	10, -6	9	.01	1506	1430	46	1475	-0.149	-2.82	"
"	"	10, -4	9	.01	1321	1290	49	1486	-0.149	-2.82	"
"	"	10, -2	9	.01	1449	1425	47	1461	-0.149	3.28	"
"	"	4, -10	9	.01	1434	1350	58	1537	-0.149	-2.82	"
"	"	2, -10	9	.01	1466	1380	41	1429	-0.149	3.28	"
"	"	0, -10	10	.01	1485	1450	40	1486	-0.149	-2.82	"
"	"	8, -14	9	.01	1452	1430	56	1445	-0.149	-2.82	"
"	"	10, -12	9	.02	1490	1475	59	1582	-0.149	-2.82	"
"	"	10, -14	10	.01	1532	1500	49	1520	-0.149	-2.82	"

FORM SERIAL #: 7-011 (Survey Section - Sequential survey #)	LOCATION #: 7-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0177	SURVEYOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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(*) IF USED	ALPHA SURVEY EQUIPMENT				(*) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
	ESP2: 1517-L	21.7%	4.60			ESP2: 1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0	
#	FLWON: 91943	20.4%	4.9	54	#	FLWON: 91943	30.3%	3.3	1450

SURVEY DATE: 1/19/93
COUNT DATE: 1/20/93

(*) IF USED	GAMMA OR BETA/GAMMA EQUIP INST: S/N	BKG
	R/S: L-2088	uR/hr
#	PRW7: 234	10 uR/hr
	E520: 5242	uR/hr
	E520: 5245	uR/hr
#	ESP2: 1522	.01 uR/hr

(*) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
(*) IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X Y REF POINT	GAMMA # 1 M, uR/hr	BETA/GAMMA CONT. uR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SWEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Concrete floor	N/A	12, -14	9	.01	1439	1420	48	1422	-0.149	-2.82	Flores used for econs
"	"	12, -12	9	.01	1166	1150	43	1464	-0.149	-2.82	# 1 min counts,
"	"	14, -14	9	.01	1295	1250	48	1029	-0.149	-2.82	"
"	"	20, -14	10	.01	1080	1050	53	1031	-0.149	-2.82	"
"	"	20, -10	10	.02	1410	1325	48	1267	-0.149	-2.82	"
"	"	20, -6	10	.02	1292	1200	42	1147	-0.149	-2.82	"
"	"	20, -2	10	.01	1199	1150	58	1106	-0.149	-2.82	"
"	"	24, -12	11	.02	1276	1260	56	1288	-0.149	9.39	"
"	"	28, -12	12	.01	1303	1230	46	1368	-0.149	9.39	"

FORM SERIAL #: 7-011 (Survey Section - Sequential survey #)	LOCATION #: 7-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0178	SURVEYOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/20/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070501.XLD
 Batch Ended: 1/20/93 10:43
 Crosstalk Correction: Not Applied

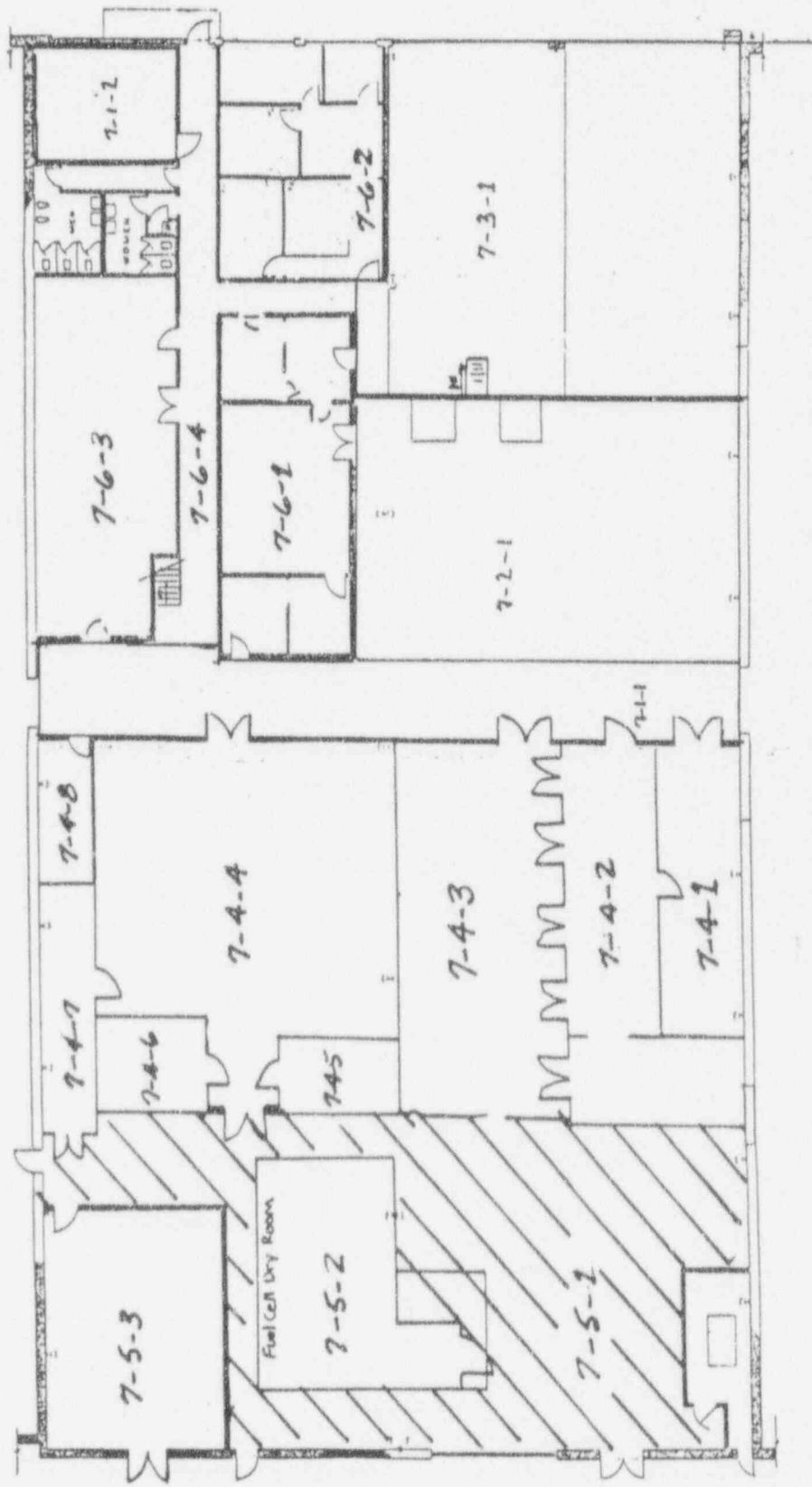
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-5-1 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
3	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	1/20/93 10:31
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:32
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:32
6	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 10:33
7	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 10:33
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:34
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:34
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:35
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 10:35
12	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:36
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/20/93 10:36
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:37
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:37
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:38
17	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:38
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:39
19	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:39
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:40
21	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:40
22	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:41
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 10:41
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:42
25	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 10:42
26	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/20/93 10:43

REVISIONS	
NO.	DESCRIPTION



LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

REV	DATE	DESCRIPTION	BY	CHECKED

PARTS LIST	
NO.	DESCRIPTION

PROJECT NO.	14683
DATE	JUN 1963
SCALE	AS SHOWN
DESIGNER	JN-014
CHECKED	
APPROVED	

WALSH ENGINEERING CORPORATION
 1000 MARKET STREET, PHILADELPHIA, PENNSYLVANIA

CONTRACT NO. 7-1-1
 DRAWING NO. 7-1-1
 SHEET NO. 1

FIRST FLOOR
BUILDING NO. 7
WALSH ENGINEERING CORPORATION

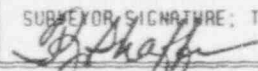
(#) IF USED	ALPHA SURVEY EQUIPMENT				BKG CPM	(#) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.				INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92		
	ESP2: 1517-L	21.7%	4.60			ESP2: 1595-L	31.3%	3.20		
	ESP2:					ESP2:				
	ESP2:					ESP2:				
	ESP2:					E520: 5242	20.3%	4.92		
	ASP1: 1891	19.1%	5.23			E520: 5245				
	PAC4C: 4478	18.5%	5.4			PAC4C: 4478	33.5	3.0		
#	FLMON: 91943	20.4%	4.9	53	#	FLMON: 91943	30.3%	3.3	1147	

SURVEY DATE: 1/19/93
COUNT DATE: 1/19/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
#	PRW7: 234	8 uR/hr
	E520: 5242	uR/hr
	E520: 5245	uR/hr
#	ESP2: 1522	.01 uR/hr

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(#) IF USED	INST: S/N			
	EFF	C.F.	BKG	
#	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M, uR/hr	BETA/GAMMA CONT, uR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN, CT.		SWEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	N/A	6, -6	8	.0099	1098	1050	46	1114	-0.149	3.10	Floors used for scans
"	"	6, -4	8	.02	1066	1030	62	1045	-0.149	-2.82	1 min counts.
"	"	6, -2	9	.01	1140	1120	53	1134	-0.149	-2.82	"
"	"	4, -2	8	.01	1116	1075	51	1163	-0.149	-2.82	"
"	"	2, -2	8	.01	1165	1100	60	1121	-0.149	-2.82	"

FORM SERIAL #: 7-012 (Survey Section - Sequential survey #)	LOCATION #: 7-5-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0179	SURVEYOR SIGNATURE: T.S. 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/20/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070502.XLD
 Batch Ended: 1/20/93 6:44
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

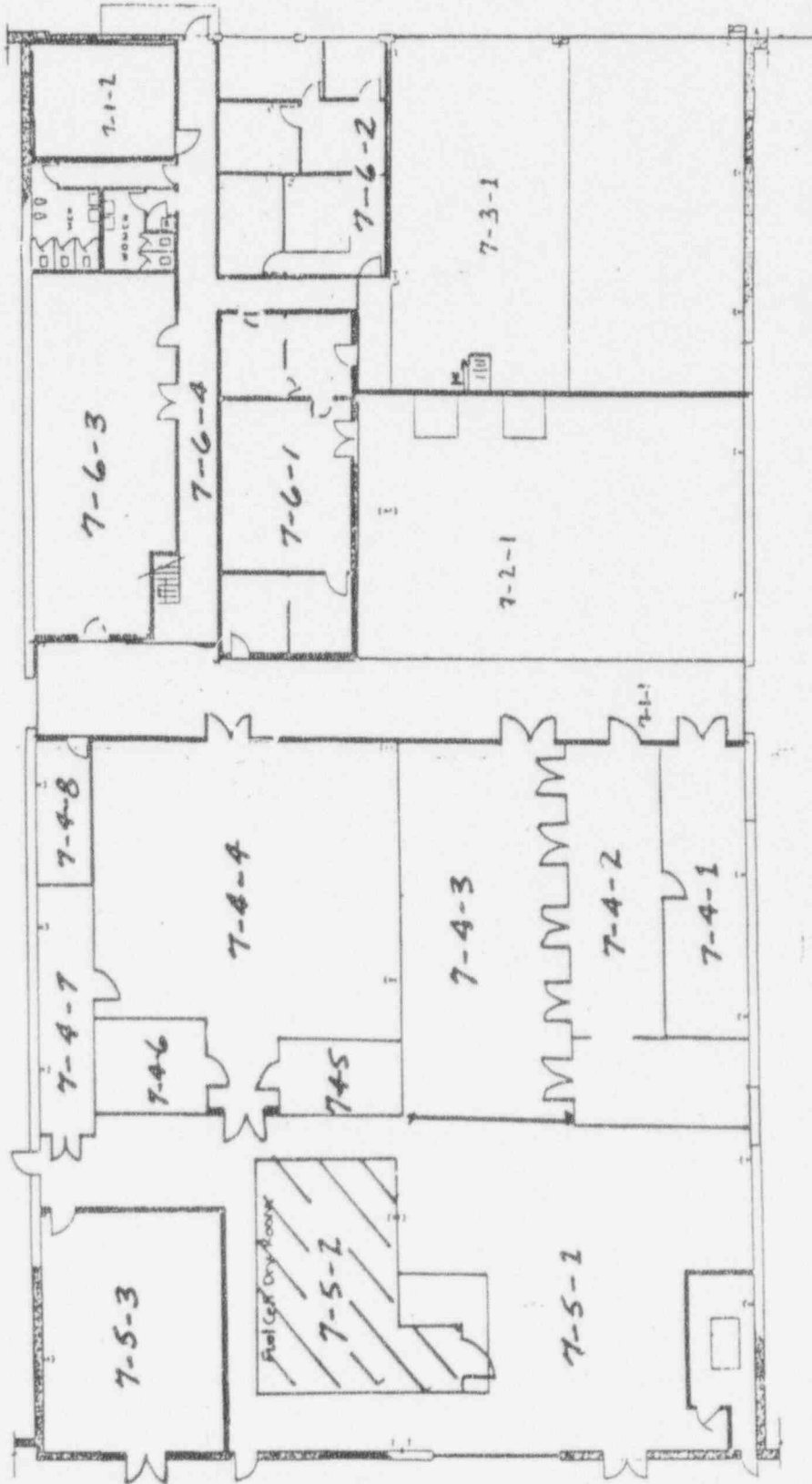
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-5-2 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/20/93 6:42
2	-0.149	1.37	<MDA	27.98	-2.82	4.16	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 6:42
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:43
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:43
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/20/93 6:44

NO.	DATE	DESCRIPTION



LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] DRYWALL & PARTITIONING
 SCALE: FEET
 0 5 10 15 20 25

REV.	DATE	DESCRIPTION	BY	CHECKED

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

Firstybaser Advanced Energy Systems Division
 FIRST FLOOR
 BUILDING NO 7
 WAESD LARGE, PA
 JN-014
 D 14893

(#) IF USED	ALPHA SURVEY EQUIPMENT				(#) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92	
*	ESP2: 1517-L	21.7%	4.60	.999	*	ESP2: 1595-L	31.3%	3.20	168
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0	
	FLWDN: 91943	20.4%	4.9			FLWDN: 91943	30.3%	3.3	

SURVEY DATE: 1/20/93
COUNT DATE: 1/20/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PAW7: 234	uR/hr
	E520: 5242	uR/hr
	E520: 5245	uR/hr
	E520: 5245	uR/hr
	ESP2: 1522	uR/hr

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(#) IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M, uR/hr	BETA/GAMMA CONT, uR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN, CT.		SWEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East wall	N/A	E, -1.7	N/A	N/A	252	220	2.0	244	-0.149	-2.82	ESP's used for scans
"	"	B, -1.7	"	"	267	230	.999	236	-0.149	-2.82	1 min counts

FORM SERIAL #: 7-013 (Survey Section - Sequential survey #)	LOCATION #: 7-5-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0180	SURVEYOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/20/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070503.XLD
 Batch Ended: 1/20/93 10:31
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-5-3 walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:30
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/20/93 10:31

APPENDIX F

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 6

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/W	EFF	C.F.	BKG CPM		INST: S/W	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	0	ESP2:1595-L	31.3%	3.20	181
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/25/93
COUNT DATE: 1/25/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/W	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East Wall	2, -4.5	N/A	N/A	N/A	249	210	0	218	-0.149	9.03	Hallway
"	4, -4.5	"	"	"	241	200	.999	251	-0.149	3.28	"
"	6, -4.5	"	"	"	236	180	.999	207	-0.149	-2.82	"
"	8, -4.5	"	"	"	260	220	0	236	-0.149	-2.82	"
"	14, -4.5	"	"	"	204	160	0	220	-0.149	3.28	"
"	16, -1	"	"	"	280	230	2	226	-0.149	3.28	"
"	22, -1	"	"	"	289	220	.999	243	-0.149	-2.82	"
"	24, -1	"	"	"	231	200	.999	217	-0.149	-2.82	"
West Wall	4, -1	"	"	"	253	200	0	168	-0.149	-2.82	"
"	6, -1	"	"	"	266	210	0	233	-0.149	3.28	"
"	8, -1	"	"	"	241	180	0	198	-0.149	-2.82	"
"	10, -1	"	"	"	276	230	0	206	-0.149	-2.82	"
"	12, -4.5	"	"	"	220	190	.999	210	-0.149	3.28	"
"	14, -4.5	"	"	"	263	230	0	215	-0.149	-2.82	"
"	20, -4.5	"	"	"	320	280	.999	208	-0.149	-2.82	"

FORM SERIAL #: 7-025 (Survey Section - Sequential survey #) LOCATION # 7-6-4 (Survey Section - Unit # - Sub Unit #) SURVEY CLASSIFICATION: III (Group I, II, III, IV) DISK FILE CODE: FDS-0190 SURVEYOR SIGNATURE: TB/MTS

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	181
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:447B	18.5%	5.4			PAC4G:447B	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	50	*	FLMON:91943	30.3%	3.3	1403

SURVEY DATE: 1/25/93
COUNT DATE: 1/25/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	15 uR/hr
	E520: 5242	mr/hr
*	E520: 5245	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
W. Wall/Hallway	24, -4.5	N/A	N/A	N/A	268	200	.999	208	-0.149	3.28	ESP's used for scans
W. Wall/Ladies Rm.	2, -.4	"	"	"	357	300	3	320	-0.149	-2.82	and 1 minute counts
E. Wall/ "	2, -.4	"	"	"	414	345	3	371	-0.149	-2.82	"
S. Wall/ "	2, -.4	"	"	"	278	230	0	258	-0.149	3.28	"
N. Wall/Mens Room	2, -.6	"	"	"	280	240	3	233	-0.149	-2.82	"
E. Wall/ "	2, -.6	"	"	"	315	260	.999	275	-0.149	3.10	"
S. Wall/ "	4, -.6	"	"	"	336	270	.999	265	-0.149	-2.82	"
W. Wall/ "	2, -.6	"	"	"	255	225	2	242	-0.149	-2.82	"
N. Wall/Hallway	2, -.2	"	"	"	217	190	0	206	-0.149	-2.82	"
N. Wall/ "	6, -.2	"	"	"	250	200	0	215	-0.149	3.10	"
S. Wall/ "	4, -.2	"	"	"	216	185	.999	204	-0.149	-2.82	"
Fl. Tile/Mens Room	-2, -4	"	14	.015	1367	1225	50	1323	-0.149	-2.82	Floor monitor used for
on concrete/ "	0 -4	"	14	.122	1445	1400	39	1421	-0.149	-2.82	scans & 1 minute counts
" "	2, -4	"	15	.018	1455	1400	49	1400	-0.149	-2.82	"
" "	2, -2	"	16	.014	1397	1225	50	1228	-0.149	-2.82	"

FORM SERIAL #: 7-025 (Survey Section - Sequential survey #)	LOCATION # 7-6-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0191	SURVEY SIGNATURE: TS/MS <i>W. Schaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070604.XLD
 Batch Ended: 1/25/93 11:53
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-6-4 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/25/93 11:36
11	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:37
12	0.149	1.37	<MDA	27.98	-2.82	4.13	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:37
13	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:38
14	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:38
15	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:39
16	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:39
17	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:40
18	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:41
19	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:41
20	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:42
21	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:42
22	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:43
23	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:43
24	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:44
25	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:44
26	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:45
27	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:45
28	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:46
29	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:46
30	0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/25/93 11:47
31	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:47
32	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:48
33	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:48
34	0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/25/93 11:49

LB5100W Low Background Counting System – Smear Analysis

Date: 1/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070604.XLD
 Batch Ended: 1/25/93 11:53
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

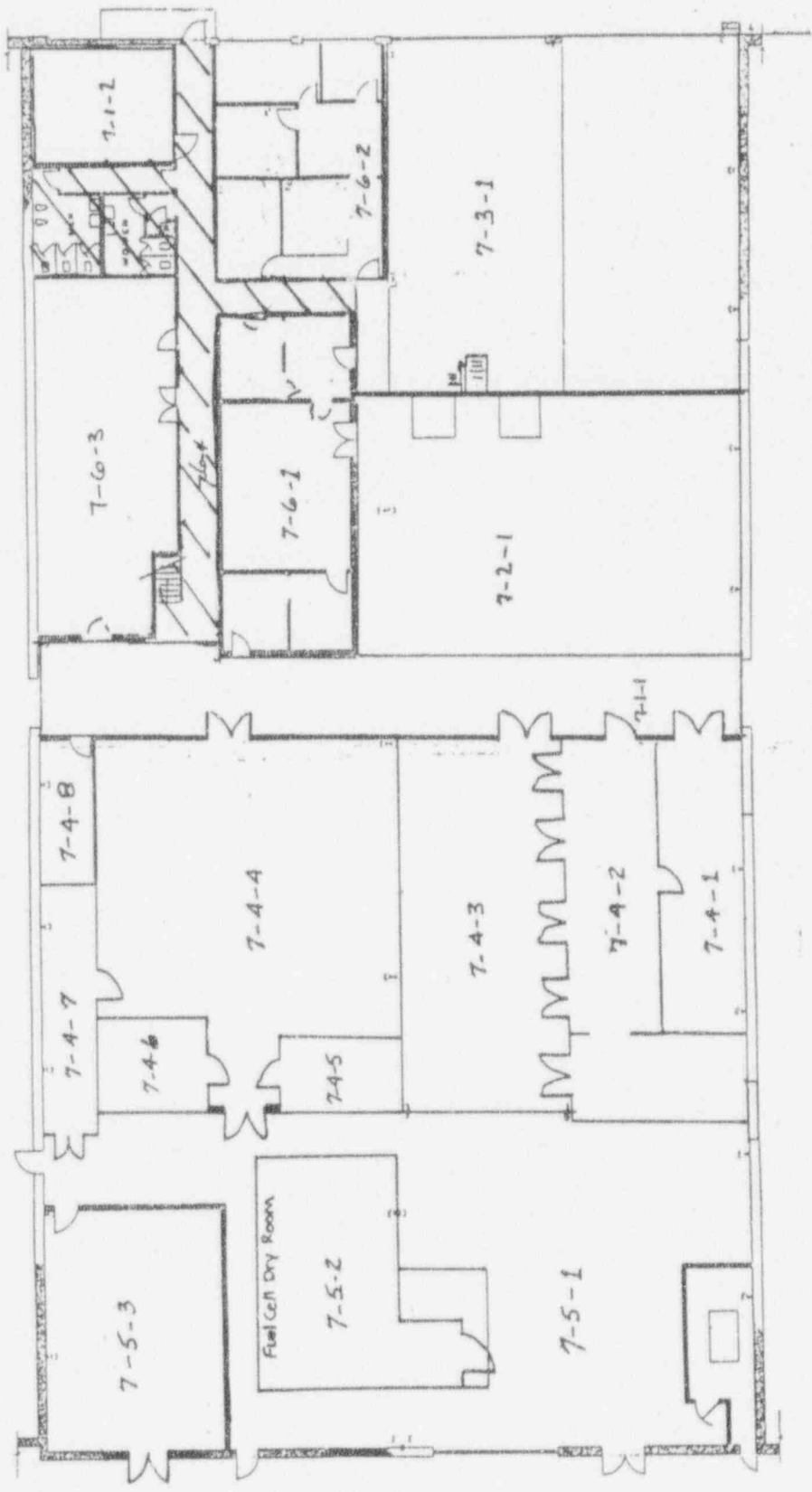
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-6-4 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:49
36	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:50
37	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:50
38	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:51
39	-0.139	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:51
40	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:52
41	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:52
42	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:53

SURVEY POINT NOT NEEDED.

D C B A



LEGEND

(---) BRICK
 (---) CONCRETE BLOCK EXT
 (---) CONCRETE BLOCK INT
 (---) DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHK

NO	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

PARTS LIST	

PROJECT INFORMATION	
PROJECT NO.	
CLIENT	
DESIGNER	
DATE	
SCALE	
DRAWN BY	
CHECKED BY	
DATE	

DRAWING INFORMATION	
DRAWING NO.	JN-014
DATE	
SCALE	
PROJECT	
CLIENT	
DESIGNER	
DATE	
SCALE	
DRAWN BY	
CHECKED BY	
DATE	

Widagheer Advanced Energy Systems Division
 FIRST FLOOR
 BUILDING No 7
 WAESD LARGE, PA

DWG CODE: 14683
 JN-014

1 2 3 4 5 6 7



(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/M	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	150
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMOW:91943	20.4%	4.9	50	*	FLMOW:91943	30.3%	3.3	1050

SURVEY DATE: 1/25/93
COUNT DATE: 1/25/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
	E520: 5242	mr/hr
*	E520: 5245	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor Tile	N/A	2, -8	12	.014	1320	1100	63	1028	-0.149	-2.82	Floor mon. used for
Concrete	"	2, -4	12	.015	1459	1400	44	1417	-0.149	-2.82	scans & 1 minute counts
E. Wall, Shpng&Rec.	"	6, -1	N/A	N/A	237	205	2	197	-0.149	-2.82	ESP's used for scans
E. Wall, "	"	10, -1	"	"	267	215	0	208	-0.149	3.28	& 1 minute counts
S. Wall, "	"	2, -1	"	"	258	220	0	208	-0.149	-2.82	"
W. Wall, "	"	2, -1	"	"	233	200	0	216	-0.149	-2.82	"
W. Wall, "	"	6, -1	"	"	231	185	2	162	-0.149	3.28	"

FORM SERIAL #: 7-026 (Survey Section - Sequential survey #)	LOCATION # 7-6-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0192	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT\070602.XLD
 Batch Ended: 1/25/93 11:36
 Crosstalk Correction: Not Applied

01
 070602

Alpha activity action level (DPM): 16.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

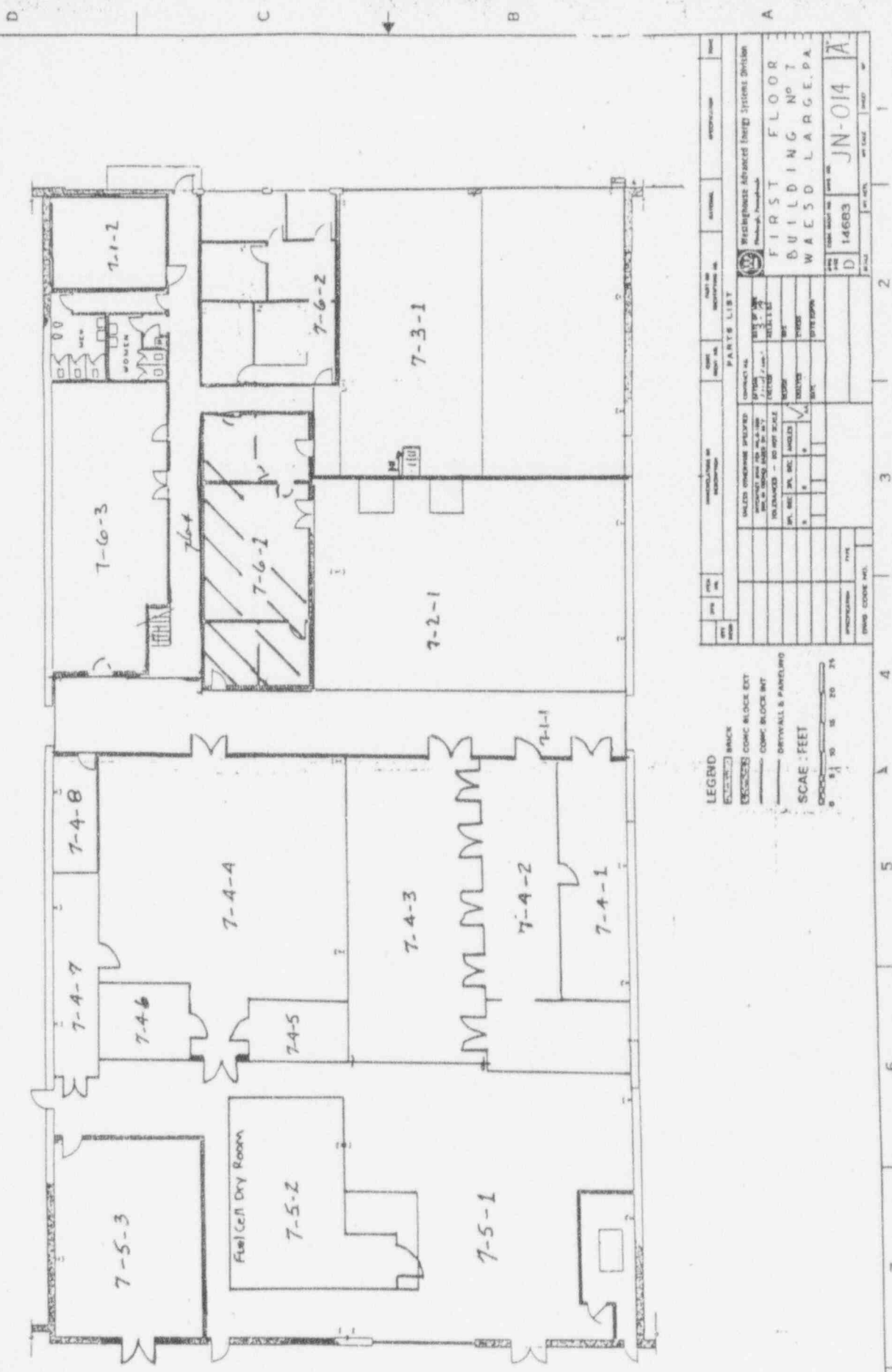
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB 7-6-1
 7-6-2 vials and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:32
2	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:32
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:33
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:33
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:34
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:34
7	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/25/93 11:35
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/25/93 11:35
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/25/93 11:36

SURVEY POINTS NOT NEEDED



LEGEND

[Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] DRYWALL & PANELING
 SCALE: FEET
 0 5 10 15 20 25

NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
PARTS LIST					
1	CEILING				
2	FLOOR				
3	WALLS				
4	DOORS				
5	WINDOWS				
6	MECHANICAL				
7	ELECTRICAL				
8	PLUMBING				
9	PAINT				
10	FINISHES				
11	FURNITURE				
12	FIXTURES				
13	EQUIPMENT				
14	OTHER				
15	TOTAL				

WASHINGTON ADVANCED ENERGY SYSTEMS DIVISION
 BUILDING NO. 7
 WAESD LARGE, PA.
 JN-014 A
 D 14683

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/W	EFF	C.F.	BKG CPM		INST: S/W	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	222
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/26/93
 COUNT DATE: 1/26/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/W	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East Wall	N/A	2, -3.5	N/A	N/A	202	175	0	199	-0.149	3.28	
Upper Surfaces	"	4, -3.5	"	"	195	180	2	205	-0.149	-2.82	
"	"	6, -3.5	"	"	205	185	3	198	-0.149	-2.82	
"	"	8, -3.5	"	"	236	205	.999	201	-0.149	-2.82	
"	"	10, -3.5	"	"	323	225	3	219	-0.149	-2.82	
"	"	12, -3.5	"	"	224	180	5	207	-0.149	-2.82	
"	"	14, -3.5	"	"	245	210	4	202	-0.149	3.10	
"	"	20, -.1	"	"	270	205	.999	208	-0.149	3.28	
"	"	22, -.1	"	"	210	180	5	211	-0.149	9.39	
"	"	24, -.1	"	"	287	210	2	210	-0.149	-2.82	
West Wall	"	16, -.1	"	"	292	215	6	222	-0.149	-2.82	
"	"	18, -3.5	"	"	196	185	4	190	-0.149	-2.82	
"	"	20, -3.5	"	"	231	195	3	214	-0.149	-2.82	
"	"	22, -3.5	"	"	257	200	4	197	-0.149	-2.82	
"	"	24, -3.5	"	"	242	205	6	197	-0.149	3.10	

FORM SERIAL #: 7-027 (Survey Section - Sequential survey #)	LOCATION # 7-6-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0196	SURVEYOR SIGNATURE: MS/TS <i>M. Sheffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070604UP.XLD
 Batch Ended: 1/23/93 13:22
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-6-4 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/23/93 13:15
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:15
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:16
25	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:16
26	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:17
27	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:17
28	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/23/93 13:18
29	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/23/93 13:18
30	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/23/93 13:19
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:19
32	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:20
33	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:20
34	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:21
35	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:21
36	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/23/93 13:22

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	145
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/26/93
COUNT DATE: 1/26/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Upper Surfaces	N/A	2, -4	N/A	N/A	160	140	0	150	-0.149	-2.82	ESP's used for scans
"	"	4, -4	"	"	158	140	.999	156	-0.149	3.28	& one minute counts
"	"	2, -6	"	"	251	190	2	150	-0.149	3.28	"
"	"	4, -6	"	"	251	210	3	144	-0.149	-2.82	"
"	"	2, -8	"	"	174	150	.999	160	-0.149	-2.82	"
"	"	4, -8	"	"	240	200	.999	170	-0.149	3.10	"
"	"	2, -10	"	"	197	175	0	168	-0.149	-2.82	"
"	"	4, -10	"	"	203	185	2	180	-0.149	3.10	"
West Wall	"	2, -.1	"	"	242	220	2	211	-0.149	-2.82	"
"	"	4, -.1	"	"	226	210	.999	245	-0.149	-2.82	"
"	"	6, -.1	"	"	271	240	.999	223	-0.149	-2.82	"
East Wall	"	6, -.1	"	"	255	220	3	199	-0.149	-2.82	"
"	"	8, -.1	"	"	247	210	.999	209	-0.149	-2.82	"
"	"	10, -.1	"	"	306	230	0	203	-0.149	-2.82	"
South Wall	"	-2, -.1	"	"	224	175	0	189	-0.149	-2.82	"

FORM SERIAL #: 7-028 (Survey Section - Sequential survey #)	LOCATION # 7-6-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0197	SURVEYOR SIGNATURE: MS/TS <i>G. Shaffe</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\070601UP.XLD
 Batch Ended: 1/23/93 13:14
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 7-6-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:04
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	1/23/93 13:05
3	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	1/23/93 13:05
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:06
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:06
6	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/23/93 13:07
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:07
8	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/23/93 13:08
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:08
10	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:09
11	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:09
12	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:10
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:10
14	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:11
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:11
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:12
17	0.048	8.31	ALAL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.075	1.40	1/23/93 13:12
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 13:13
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 13:13
20	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.40	1/23/93 13:14
21	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/23/93 13:14

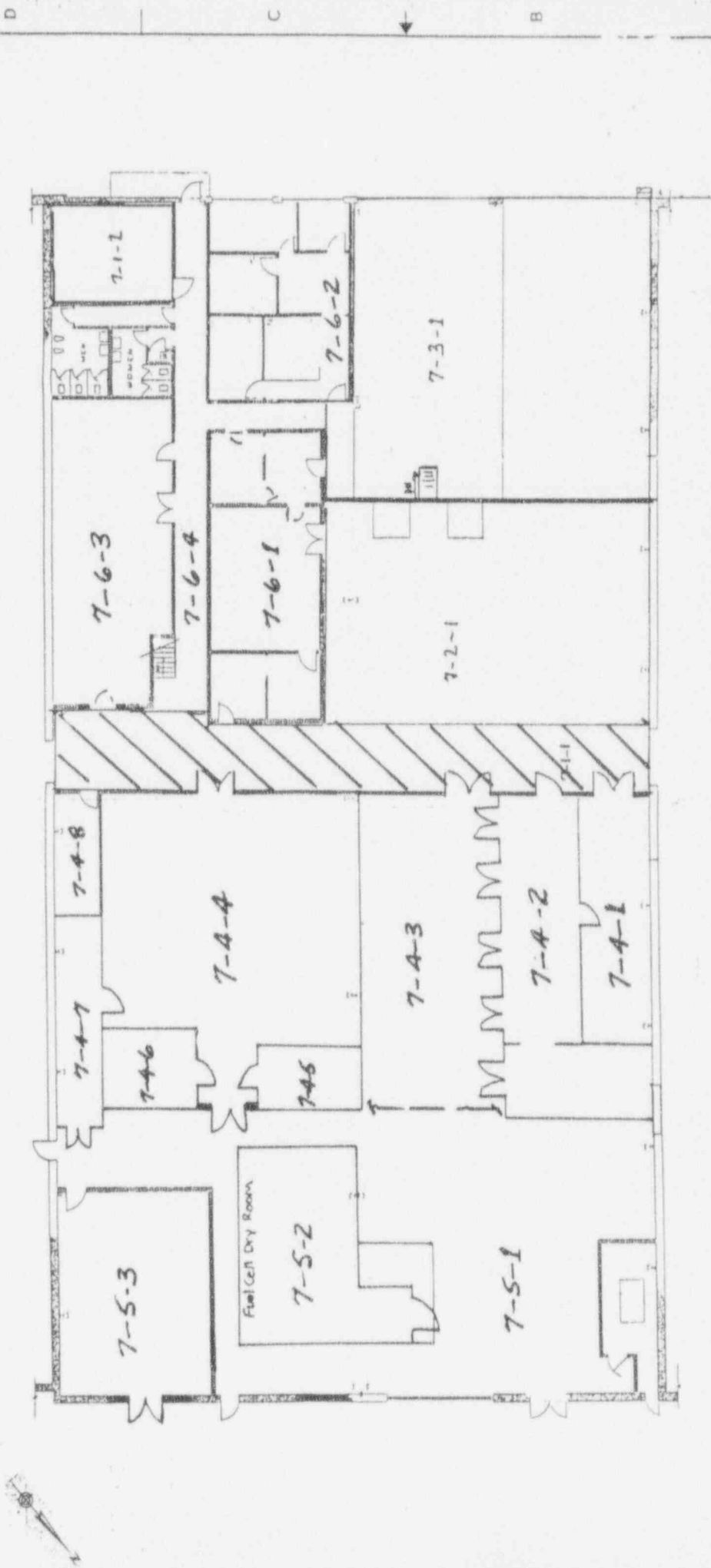
SURVEY POINTS NOT NEEDED.

APPENDIX G

RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR SCANS

REPORT #012

REV	DATE	DESCRIPTION



LEGEND

- BRICK
- CONCRETE
- CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

DATE	BY	REVISION	DESCRIPTION

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION

PARTS LIST

NO.	DESCRIPTION	QTY	UNIT

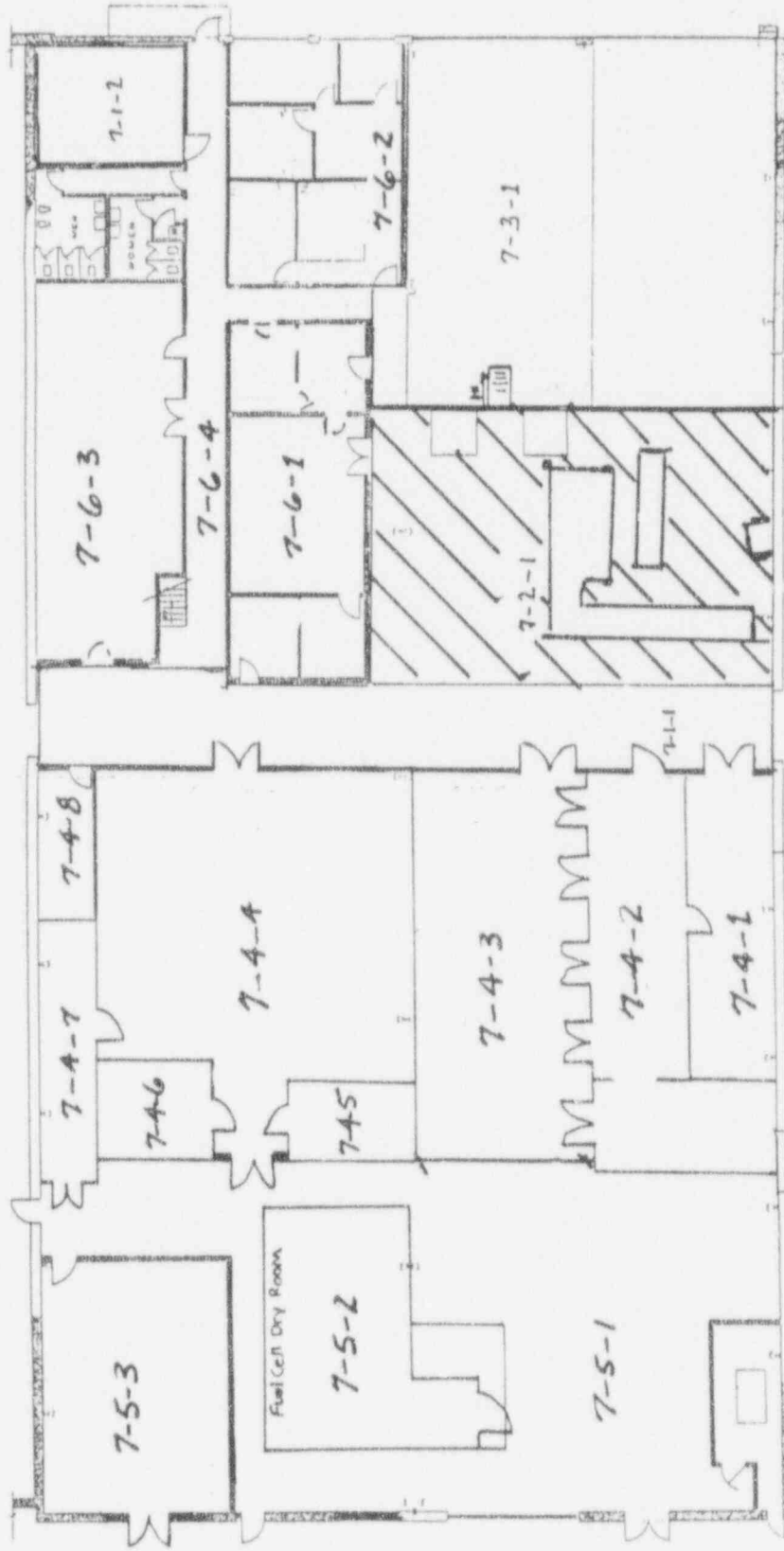
NO.	DATE	DESCRIPTION

PROJECT: **First Floor Building No. 7 WAESD LARGE, PA.**

DATE: **JN-014**

SCALE: **D 14883**

NO.	DATE	REVISIONS



NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

LEGEND
 BRICK
 CONG BLOCK EXT
 CONG BLOCK INT
 GYPSUM & PARTING
 SCALE: FEET
 0 5 10 15 20 25

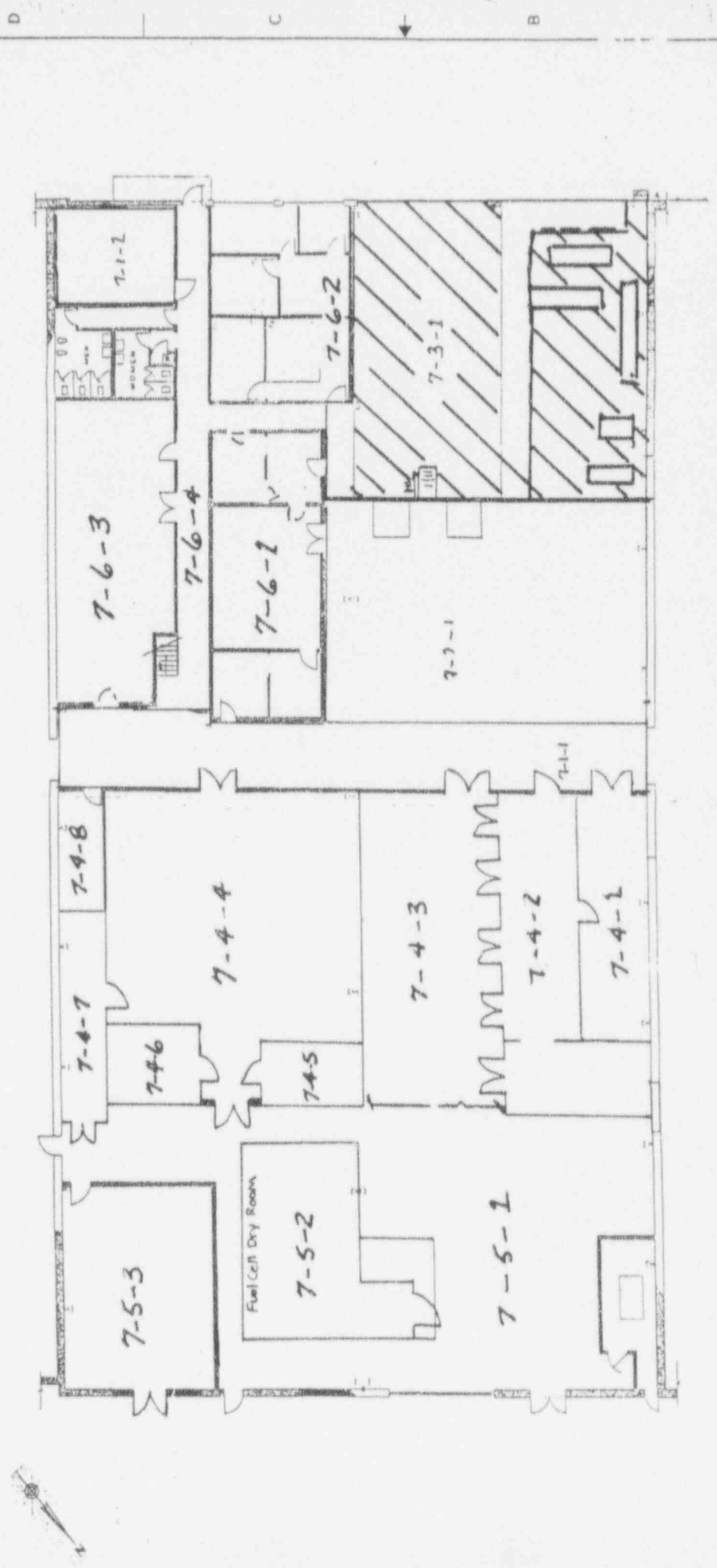
NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

NO.	DATE	REVISIONS

PARTS LIST
 WESTINGHOUSE Advanced Energy Systems Division
 FIRST FLOOR
 BUILDING No 7
 WAESD LARGC.P.A.
 D 14683
 JN-014

REVISIONS
DATE DESCRIPTION



NO.	DATE	DESCRIPTION	BY	CHECKED

LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE: FEET
0 5 10 15 20 25

NO.	DATE	DESCRIPTION	BY	CHECKED

PARTS LIST

UNLESS OTHERWISE SPECIFIED
 MATERIALS - SEE SPECIFICATIONS
 DIMENSIONS - SEE DRAWING
 FINISHES - SEE SPECIFICATIONS

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

Architect: R. B. Smith & Associates
Engineer: J. H. Jones & Co.
Contractor: M. C. Brown Construction

FIRST FLOOR
 BUILDING NO 7
 WAESD LARGE, PA

D 14683 JN-014 A

(#) IF USED	BETA SURVEY EQUIPMENT			
	INST	S/N	EFF	C.F.
	ESP-2	01595	34.2%	2.92
	ESP-2	01595-L	31.3	3.20
	ESP-2			
	ESP-2			

(#) IF USED	BETA SURVEY EQUIPMENT			
	INST	S/N	EFF	C.F.
	PAC4C	4478	33.5%	3.0
*	FLOOR MON.	91943	30.3%	3.3
	E-520	5242	20.3%	4.9
	E-520	5245	00S	00S

SURFACE DESCRIPTION	EST % SCANNED ** see comments	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Painted concrete	45%	1871	1700	7-4-1	*** Bkg. 1767 cpm	
Tiled floor	20%	1205	1150	7-4-2	*** Bkg. 1151 cpm	
Painted concrete	40%	1408	1350	7-4-3	*** Bkg. 1402 cpm	
Tiled floor	50%	1301	1200	7-4-4	*** Bkg. 1108 cpm	
				7-4-5	***	
				7-4-6	***	
Tiled floor	100%	1271	1200	7-4-7	*** Bkg. 1109	
				7-4-8	***	
					** Sub units 7-4-5, 6, 8 were inaccessible to floor scan, the avg. area scanned for 7-4 unit was 31%.	

REMARKS:
SURVEY CLASSIFICATION (Group I, II, III, IV)
(Install in column above)

LOCATION CODE DEFINED
(Survey Sec - Unit - Subunit)
(Install in column above)

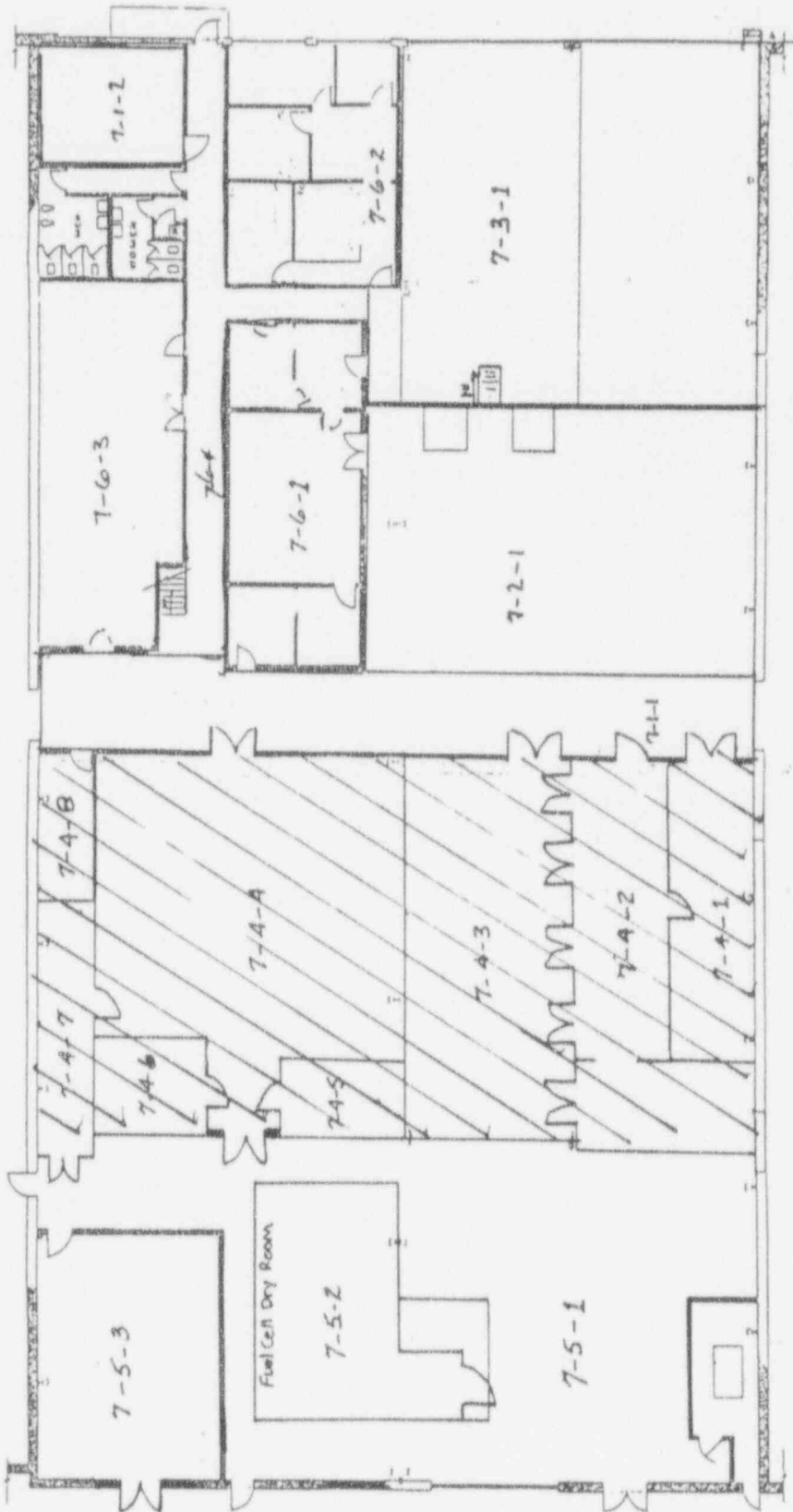
SURVEYOR: Terry Shaffer
SIGNATURE: *Terry Shaffer*

FORM S/N: 7-024
(Survey Sec - Sequential #)

DISK FILE CODE: SDS-0019

SURVEY DATE: 1/25/93

D C B A



NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
PARTS LIST					
1	BRICK				
2	CONCRETE				
3	WOOD				
4	GLASS				
5	IRON				
6	PAINT				
7	CEILING				
8	MECHANICAL				
9	ELECTRICAL				
10	PLUMBING				
11	FINISH				
12	LANDSCAPE				
13	OTHER				
WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION BUILDING NO 7 WAESD, LARGES, PA. DRAWING NO. JN-014 A DATE: 11/14/83 SCALE: AS SHOWN					

LEGEND

BRICK

CONCRETE

WOOD

GLASS

IRON

PAINT

CEILING

MECHANICAL

ELECTRICAL

PLUMBING

FINISH

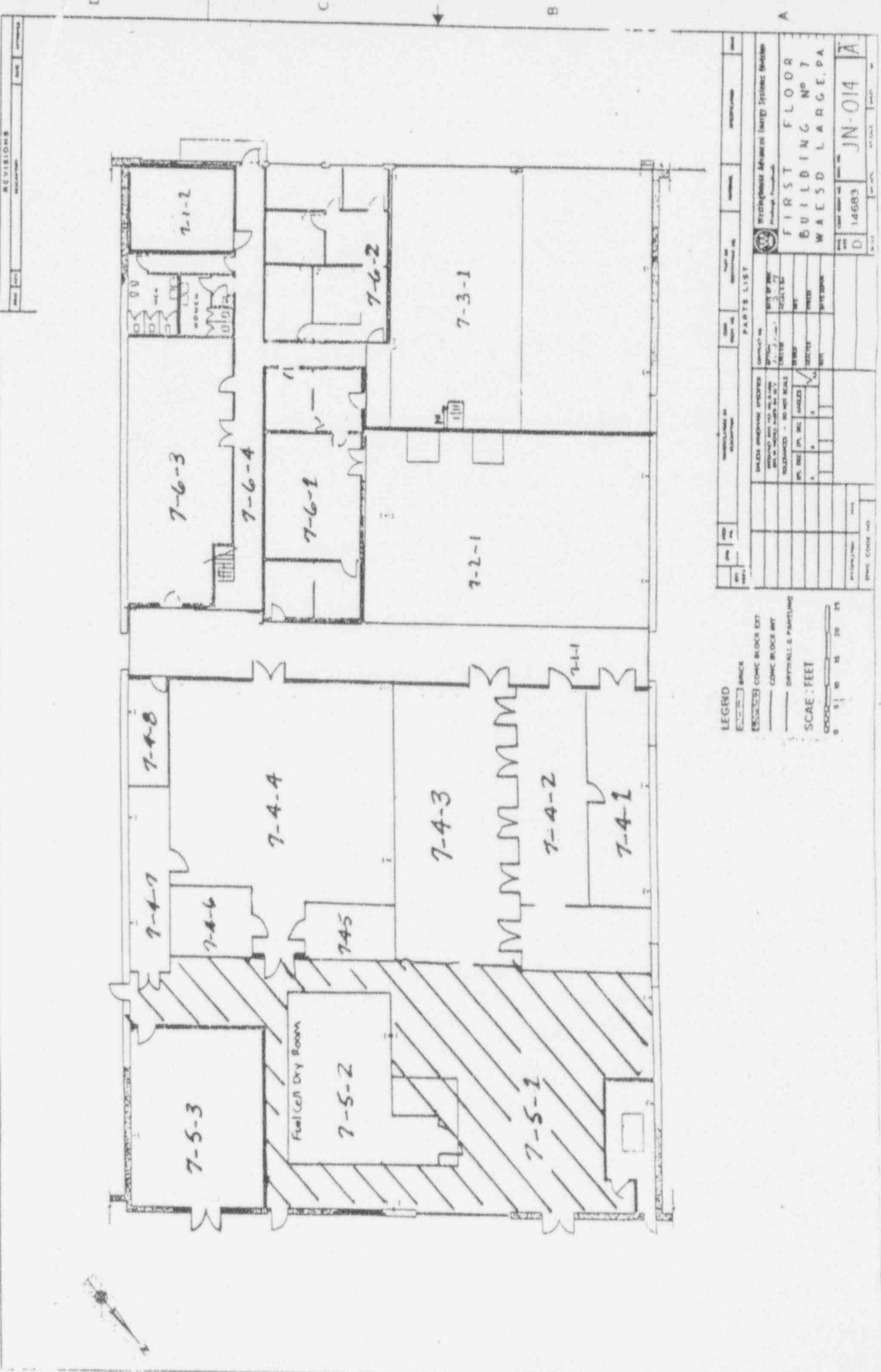
LANDSCAPE

OTHER

SCALE: FEET

0 5 10 15 20 25

1 2 3 4 5 6 7



REVISIONS

NO.	DATE	BY	DESCRIPTION

LEGEND

- EL... BRICK
- ES... CONCRETE BLOCK EXT
- CS... CONCRETE BLOCK INT
- DR... DRYWALL & PARTITION

SCALE: FEET

PARTS LIST

NO.	DESCRIPTION	QTY	UNIT

PROJECT INFORMATION

Architect: **WAESD LARGE, PA**

Building: **FIRST FLOOR BUILDING No 7**

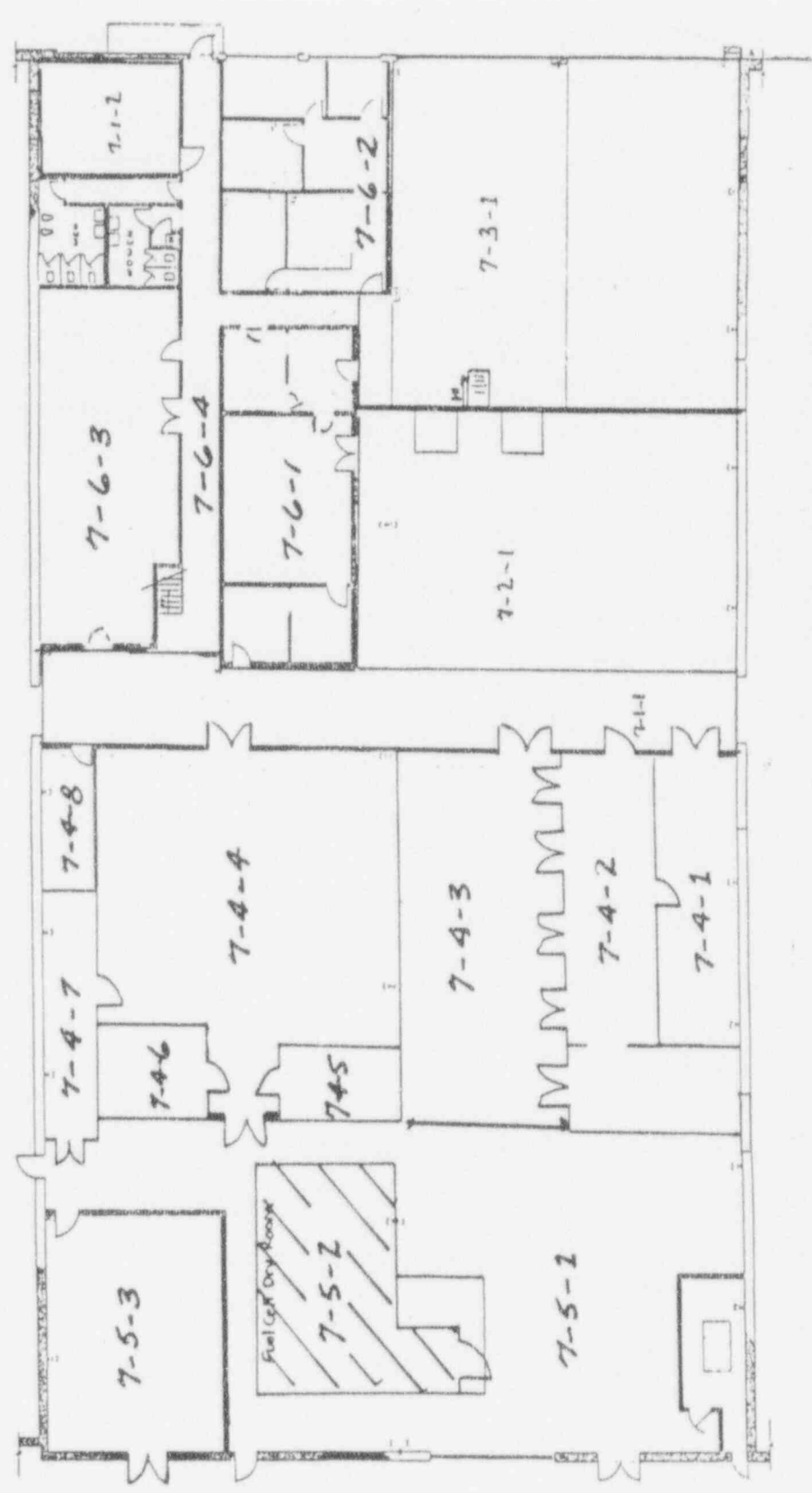
Project No: **JN-014**

Date: **D 14683**

Scale: **AS SHOWN**

Sheet No: **1**

NO.	DATE	REVISIONS



LEGEND

BRICK

CONCRETE

CONCRETE BLOCK EXT

CONCRETE BLOCK INT

DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

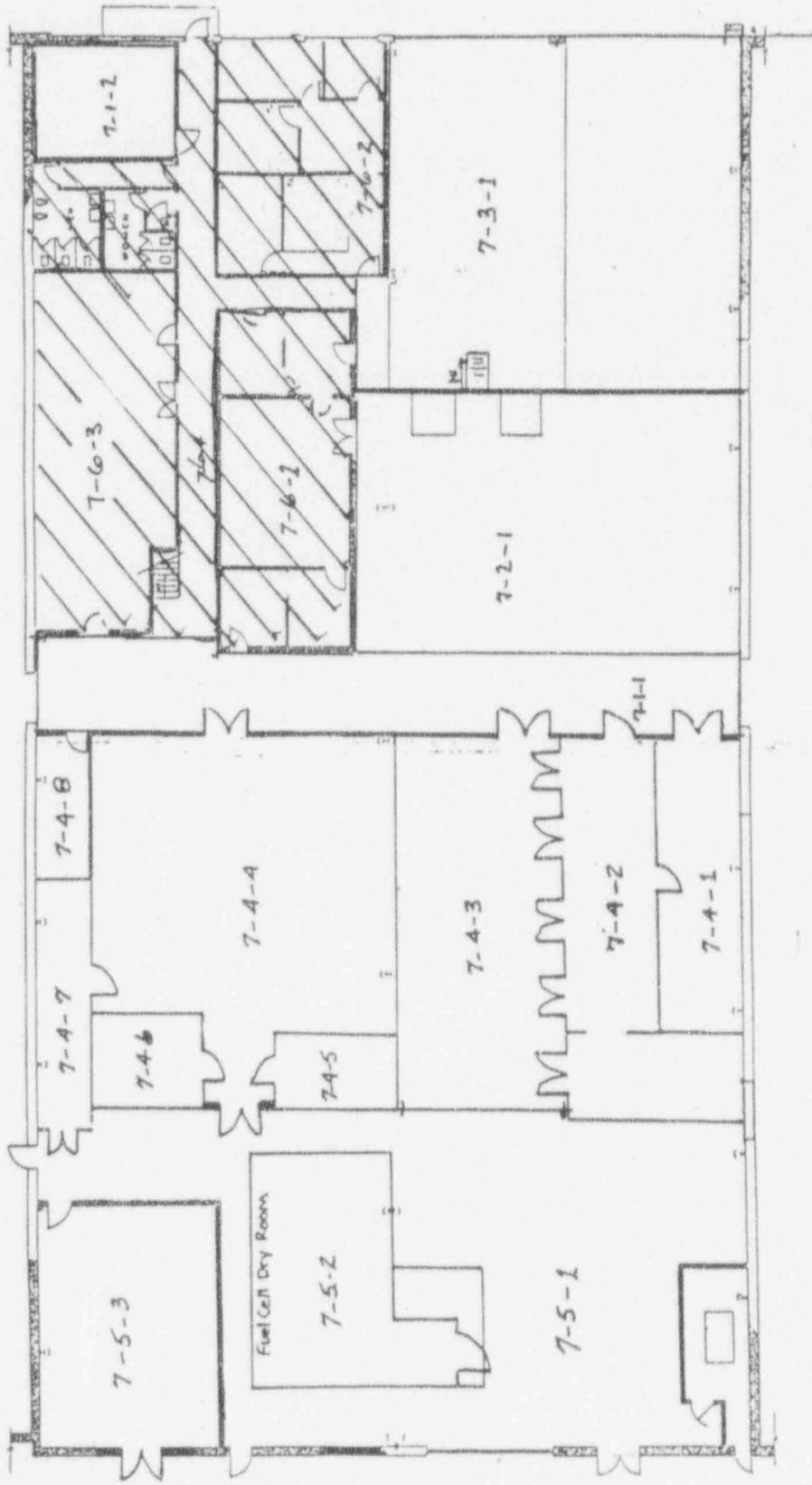
NO.	DATE	REVISIONS	DESCRIPTION	BY	CHECKED

PARTS LIST	
QUANTITY	DESCRIPTION

REVISIONS	
NO.	DESCRIPTION

PROJECT NO.	14683
DATE	JN-014
SCALE	AS SHOWN
DRAWN BY	
CHECKED BY	
DATE	

RESEARCHERS ADVANCED INTERIORS DIVISION
 FIRST FLOOR
 BUILDING NO 7
 WAESD LARGE, PA



LEGEND
 [Symbol] BRICK
 [Symbol] CONIC BLOCK EXT
 [Symbol] CONIC BLOCK INT
 [Symbol] DRYWALL & PARTITIONING
 SCALE: FEET
 0 5 10 20 25

DATE	NO. OF SHEETS	TOTAL SHEETS	PROJECT
PART LIST			
NO.	DESCRIPTION	QUANTITY	UNIT
WELDS SHOWN AS BROKEN UNLESS OTHERWISE SPECIFIED DIMENSIONS - GO NOT SCALE TOLERANCES - () IN CHAINS			
1	PIPE		
2	VALVE		
3	FLANGE		
4	ELBOW		
5	TEE		
6	CROSS		
7	END CAP		
8	FLANGE		
9	ELBOW		
10	TEE		
11	CROSS		
12	END CAP		
13	FLANGE		
14	ELBOW		
15	TEE		
16	CROSS		
17	END CAP		
18	FLANGE		
19	ELBOW		
20	TEE		
21	CROSS		
22	END CAP		
FIRST FLOOR BUILDING No 7 WAESD LARGE, PA.			
D	14883	JN-014	A

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF BUILDING NUMBER 7, SECOND FLOOR
(SURVEY SECTION 28D)

FEBRUARY 4, 1993

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

REPORT #013

FINAL RADIOLOGICAL SURVEY
OF BUILDING NUMBER 7, SECOND FLOOR
(SURVEY SECTION 28D)

TABLE OF CONTENTS

	<u>Page Number</u>
Purpose	1
Scope	1
Analysis of Results	1
Current Status	1
Conclusions	2
Appendix A - Radiological Survey Data Sheets	

(i)

REPORT #013

OFFICIAL RECORD COPY ML 10

117646
2-26-93

FINAL RADIOLOGICAL SURVEY
OF BUILDING NUMBER 7, SECOND FLOOR
(Survey Section 28D)

Purpose

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 for the site located in Large, PA. This report is one of a series of reports that presents the necessary information to establish that the site meets all applicable regulatory requirements so that the license can be terminated by the United States Nuclear Regulatory Commission.

Scope

This report documents the results of the final radiological survey of the second floor of Building Number 7 on the Westinghouse Site in Large, PA. Included in the report is the original survey data sheets, the conversion of the results into units comparable with the acceptance criteria and a statistical analysis of the survey data in order to determine if the radiological acceptance criteria have been met at the desired degree of confidence. Report #009 defines the general information relative to the final radiological surveys of buildings under this program. Refer to that report for the following information:

- 1) Site Description
- 2) Radiological Acceptance Criteria
- 3) Survey Classification System
- 4) Classification of Building Area
- 5) Selection of Survey Instruments and Instrument Characterization
- 6) System for Identification of Survey Point Locations
- 7) Statistical Analysis of Survey Results
- 8) Survey Protocol

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 7 on the site. Figure 2 presents the floor plan for the second floor of this building. Under the survey classification scheme, this floor had been classified as class 1 (see Report #009). Appendix A incorporates all of the radiological survey data sheets. Table 1 presents the survey data with all the results converted, as appropriate, to the units necessary for comparison against the radiological acceptance criteria. A statistical analysis is included in Table 1 to determine if the acceptance

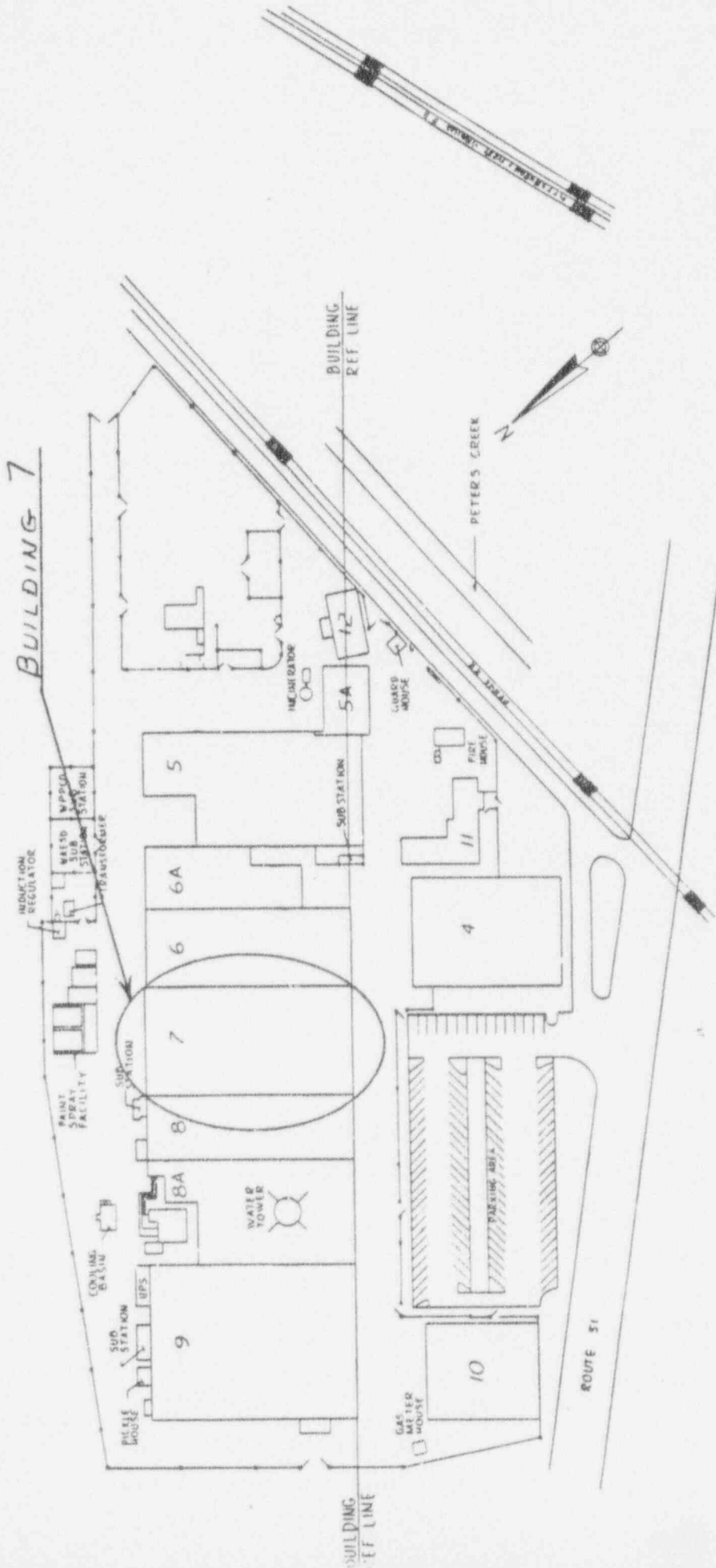
criteria have been met at the desired degree of confidence.

Current Status

The second floor of Building 7 is partially occupied as office space. No radioactive material is utilized nor is any such use anticipated.

Conclusions

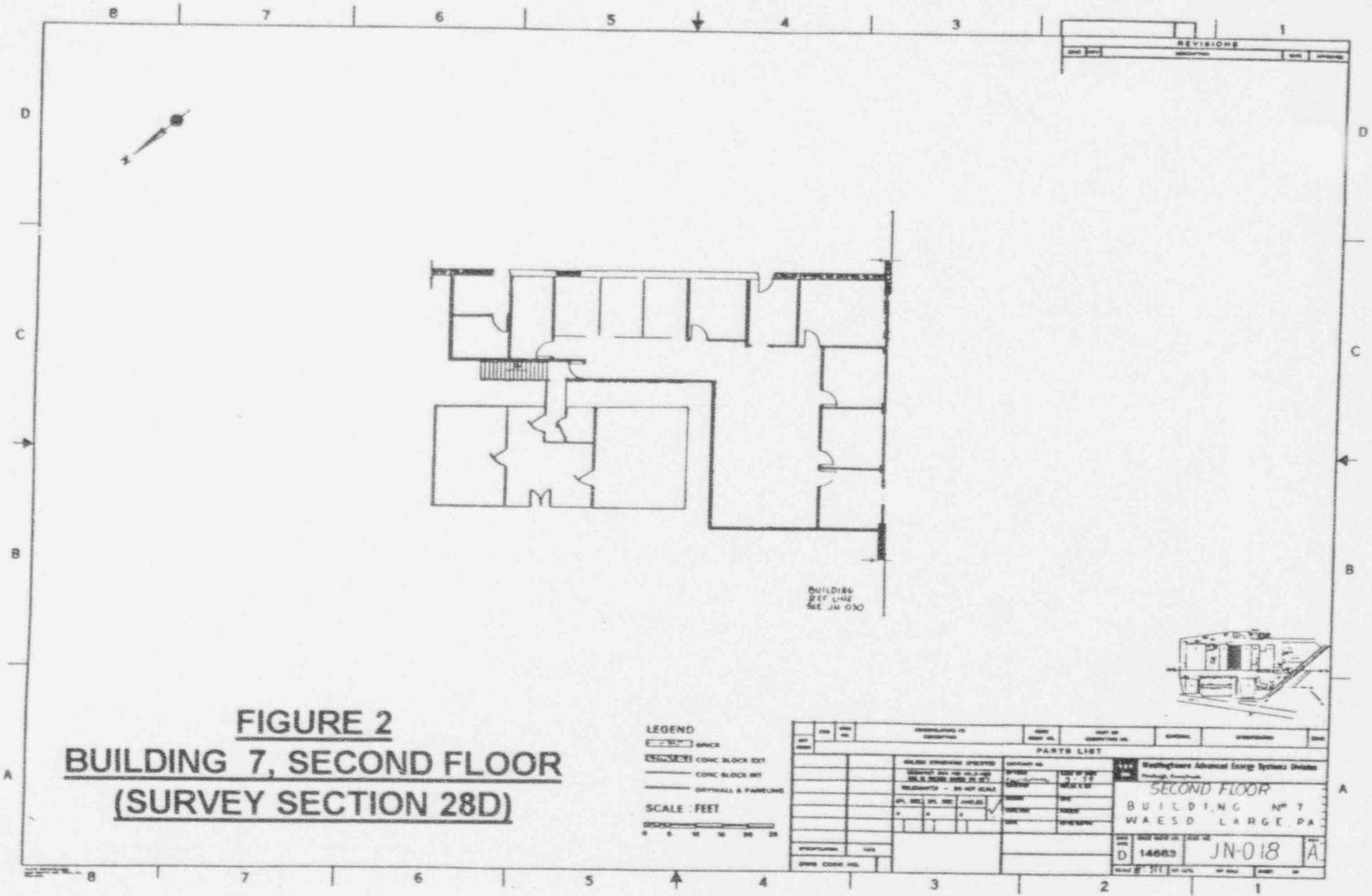
The statistical analysis of the radiological survey data presented in this report indicates that the current condition of this building area meets all the radiological acceptance criteria at the 95% confidence level. Therefore, this building can be released for unrestricted use. There is no potential for the building to become contaminated after the surveys which have been made and documented by this report as there is no further use of radioactive material on the site.



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FIGURE 1
SITE PLOT PLAN

V A F S D L A R G E . P A
D 14283 JN030



REVISIONS			
NO.	DESCRIPTION	DATE	BY

FIGURE 2
BUILDING 7, SECOND FLOOR
(SURVEY SECTION 28D)

LEGEND

BRICK
 CONC BLOCK EXT
 CONC BLOCK INT
 DRYWALL & PARTITIONS

SCALE: FEET

NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
PARTS LIST				

Washington Advanced Energy Systems Division
 Building 7
 SECOND FLOOR
 BUILDING N° 7
 WAESD LARGE PA

NO.	DATE	BY	CHKD BY
D 14683	JN-018	A	

TABLE 1
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #7, SECOND FLOOR (SECTION 28D, UNIT 1)

SURFACE DESCRIPTION	GRID	X, Y POINT	SURVEY METER	GAMMA SURVEY (MICR/HR)	BETA/GAMMA SURVEY (MB/HR)	MAXIMUM BETA (DPM/100CM ²)	RESULTS		TOTAL FIRED ACTIVITY		REMOVABLE ACTIVITY	
							AVERAGE BETA (DPM/100CM ²)	ALPHA (DPM/100CM ²)	BETA (DPM/100CM ²)	ALPHA (DPM/100CM ²)	BETA (DPM/100CM ²)	
Floor	#5 (See Map)	2, -2	28D-1-1	9	0.010	76.8	2.3	6.8	51.7	-0.15	-2.82	
		4, -2	28D-1-1	9	0.010	42.6	2.3	-4.5	-6.4	-0.15	-2.82	
		6, -2	28D-1-1	10	0.010	85.2	40.3	2.3	-6.4	-0.15	-2.82	
		8, -2	28D-1-1	10	0.030	124.7	97.3	13.5	54.0	-0.15	-2.82	
		10, -2	28D-1-1	9	0.020	84.4	21.3	-6.8	34.2	-0.15	9.03	
		8, -4	28D-1-1	9	0.010	121.7	40.3	16.7	28.9	-0.15	9.03	
		6, -4	28D-1-1	9	0.020	16.7	-16.7	14.7	-3.8	-0.15	3.28	
		4, -4	28D-1-1	9	0.010	27.4	2.3	-9.0	1.5	-0.15	-2.82	
		2, -4	28D-1-1	10	0.020	13.7	5.6	-35.7	-72.2	-0.15	-2.82	
		8, -6	28D-1-1	9	0.010	-66.9	-149.8	11.3	-13.7	-0.15	-2.82	
North Hall	#5 See Map	2, -1.3	28D-1-1	10	0.010	16.0	-35.7	-5.6	-73.8	-0.15	3.10	
		4, -6	28D-1-1	9	0.020	-36.3	-43.3	-10.2	-60.8	-0.15	-2.82	
		6, -6	28D-1-1	10	0.010	-22.8	-35.7	-3.4	-57.8	-0.15	-2.82	
		8, -6	28D-1-1	10	0.010	-17.4	-35.7	0.0	-7.6	-0.15	-2.82	
		10, -6	28D-1-1	11	0.010	47.1	2.3	5.6	-38.0	-0.15	-2.82	
		2, -1.3	28D-1-1	11	0.010	35.2	-92.8	0.0	-48.0	-0.15	3.10	
		4, -1.3	28D-1-1	11	0.010	268.8	163.2	9.2	172.6	-0.15	3.28	
		6, -1.3	28D-1-1	11	0.010	195.2	35.2	13.8	-19.2	-0.15	-2.82	
		8, -1.3	28D-1-1	8	0.019	63.1	38.0	-6.8	-16.7	-0.15	3.28	
		10, -1.3	28D-1-1	8	0.015	49.4	19.0	-1.1	1.5	-0.15	-2.82	
Mezzanine	#2 See Map	2, -2	28D-1-1	7	0.009	6.1	-38.0	-4.5	-8.4	-0.15	3.10	
		4, -2	28D-1-1	8	0.010	116.3	76.0	3.4	39.5	-0.15	3.10	
		6, -2	28D-1-1	7	0.009	66.9	19.0	-2.3	12.9	-0.15	3.10	
		8, -2	28D-1-1	12	0.011	115.6	76.0	4.5	111.0	-0.15	-2.82	
		10, -2	28D-1-1	9	0.012	76.0	57.0	0.0	60.1	-0.15	3.28	
		2, -4	28D-1-1	10	0.021	124.7	114.1	-6.8	146.8	-0.15	3.28	
		4, -4	28D-1-1	8	0.010	203.8	171.1	15.8	217.5	-0.15	9.03	
		6, -4	28D-1-1	8	0.009	235.0	209.1	5.6	203.8	-0.15	-2.82	
		8, -4	28D-1-1	9	0.015	333.8	311.8	4.5	201.5	-0.15	-2.82	
		10, -4	28D-1-1	9	0.011	188.6	144.5	7.9	188.6	-0.15	-2.82	

STATISTICAL ANALYSIS

NUMBER OF SAMPLES	MINIMUM	MAXIMUM	AVERAGE	STANDARD DEVIATION	LIMIT
27	7.00	86.9	145.8	30	30
12.00	0.030	311.8	217.5	30	-2.82
9.11	0.014	85.4	36.6	30	8.05
1.10	0.005	92.8	7.4	30	0.12
15	0.200	15,000	5,000	30	1.47
1,706	1.706	1,699	1,699	30	1,000
9.47	0.02	67.34	4.03	30	1,699
5.35	34.58	160.72	677.19	30	1.41
YES	YES	YES	YES	YES	250.19
YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES

FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:
 DATA TEST PARAMETER
 NUMBER OF SAMPLES FACTOR
 DOES DATA SATISFY
 LIMIT CRITERIA?
 WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS

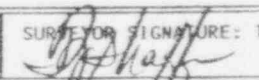
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	48	*	FLMON:91943	30.3%	3.3	1197

SURVEY DATE: 1/18/93
COUNT DATE: 1/22/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	#5 (See map)	2, -2	9	.01	1298	1200	54	1265	-0.149	-2.82	Floor monitor used for
"	"	4, -2	9	.01	1253	1200	44	1188	-0.149	-2.82	scans & 1 min. counts
"	"	6, -2	10	.01	1309	1250	46	1186	-0.149	-2.82	"
"	"	8, -2	10	.03	1361	1325	60	1268	-0.149	-2.82	"
"	"	10, -2	9	.02	1308	1225	42	1242	-0.149	9.03	"
"	"	10, -4	10	.01	1357	1250	48	1235	-0.149	9.03	"
"	"	8, -4	9	.02	1219	1175	61	1192	-0.149	3.28	"
"	"	8, -4	9	.01	1233	1200	40	1195	-0.149	-2.82	"
"	"	4, -4	9	.02	1215	1150	53	1102	-0.149	-2.82	"
"	"	2, -4	10	.02	1109	1000	58	1179	-0.149	-2.82	"
"	"	2, -6	9	.01	1176	1150	43	1100	-0.149	3.10	"
"	"	4, -6	9	.02	1149	1140	39	1117	-0.149	-2.82	"
"	"	6, -6	10	.01	1167	1150	45	1121	-0.149	-2.82	"
"	"	8, -6	10	.01	1178	1150	48	1187	-0.149	-2.82	"
"	"	10, -6	11	.01	1259	1200	53	1147	-0.149	-2.82	"

FORM SERIAL #: 28D-001 (Survey Section - Sequential survey #)	LOCATION # 28D-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0194	SURVEY SIGNATURE: TS 
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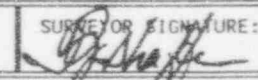
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	169
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	46	*	FLMON:91943	30.3%	3.3	1000

SURVEY DATE: 1/18/93-1/25/93
COUNT DATE: 1/22/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	8 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N			
	EFF	C.F.	BKG	
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North Wall	#5 See Map	2, -1.3	N/A	N/A	180	140	0	154	-0.149	3.10	ESP's used for scans &
East Wall (2)	"	2, -1.3	"	"	253	220	2	223	-0.149	3.28	one minute counts
West Wall (2)	"	2, -1.3	"	"	230	180	3	163	-0.149	-2.82	Floor monitor used for
Floor	#1 See Map	2, -2	8	.019	1083	1050	40	978	-0.149	3.28	scans & 1 min. counts
"	"	2, -4	8	.015	1065	1025	45	1002	-0.149	-2.82	1/25/93
"	"	2, -6	7	.009	1008	950	42	989	-0.149	3.10	"
"	"	4, -2	8	.010	1153	1100	43	1052	-0.149	3.10	"
Mezzanine	#2 See Map	N/A	7	.009	1088	1025	44	1017	8.048	-2.82	"
Top of Stairs	"	"	12	.011	1152	1100	50	1146	-0.149	-2.82	"
Main Room	#5 See Map	12, +4	9	.012	1100	1075	46	1079	-0.149	3.28	"
"	"	14, +4	10	.021	1164	1150	40	1193	-0.149	3.28	"
Back Office	#3 See Map	2, -2	8	.010	1268	1225	60	1286	-0.149	9.03	"
"	"	2, -4	8	.009	1309	1275	51	1268	-0.149	-2.82	"
"	#4 See Map	2, -4	9	.015	1439	1410	50	1265	-0.149	-2.82	"
"	"	2, -2	9	.011	1248	1190	53	1248	-0.149	-2.82	"

FORM SERIAL #: 280-001 (Survey Section - Sequential survey #)	LOCATION # 280-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0195	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\28D0101.XLD
 Batch Ended: 1/22/93 16:07
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 28D-1-1 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 15:52
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 15:52
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 15:53
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 15:53
5	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/22/93 15:54
6	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/22/93 15:54
7	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/22/93 15:55
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 15:55
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 15:56
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 15:56
11	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/22/93 15:57
12	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/22/93 15:57
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/22/93 15:58
14	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/22/93 15:58
15	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/22/93 15:59
16	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/22/93 15:59
17	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/22/93 16:00
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 16:00
19	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/22/93 16:01
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 16:02
21	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/22/93 16:02
22	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/22/93 16:03
23	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/22/93 16:03
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/22/93 16:04
25	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/22/93 16:04

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\28D0101.XLD
 Batch Ended: 1/22/93 16:07
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
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 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 28D-1-1 walls and floor

Carrier	Alpha Activity				Beta Activity				Count Time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/22/93 16:05
27	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/22/93 16:05
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/22/93 16:06
29	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/22/93 16:06
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/22/93 16:07

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY

OF BUILDING NUMBER 6A

(SURVEY SECTION 6)

FEBRUARY 9, 1993

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

REPORT #014

FINAL RADIOLOGICAL SURVEY

OF BUILDING NUMBER 6A

(SURVEY SECTION 6)

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Conclusions	2
Appendix A - Radiological Survey Data Sheets For Unit 1	
Appendix B - Radiological Survey Data Sheets For Unit 2	
Appendix C - Radiological Survey Data Sheets For Unit 3	
Appendix D - Radiological Survey Data Sheets for Beta Scans of Floor	

FINAL RADIOLOGICAL SURVEY
OF BUILDING NUMBER 6A
(Survey Section 6)

Purpose

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 for the site located in Large, PA. This report is one of a series of reports that presents the necessary information to establish that the site meets all applicable regulatory requirements so that the license can be terminated by the United States Nuclear Regulatory Commission.

Scope

This report documents the results of the final radiological survey of Building Number 6 on the Westinghouse Site in Large, PA. Included in the report is the original survey data sheets, the conversion of the results into units comparable with the acceptance criteria and a statistical analysis of the survey data in order to determine if the radiological acceptance criteria have been met at the desired degree of confidence. Report #009 defines the general information relative to the final radiological surveys of buildings under this program. Refer to that report for the following information:

- 1) Site Description
- 2) Radiological Acceptance Criteria
- 3) Survey Classification System
- 4) Classification of Building Area
- 5) Selection of Survey Instruments and Instrument Characterization
- 6) System for Identification of Survey Point Locations
- 7) Statistical Analysis of Survey Results
- 8) Survey Protocol

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 6A on the site. Figure 2 presents the floor plan for this building. Under the survey classification scheme, this building had been classified as Class 4 (see Report #009). Appendix A, B and C incorporate all of the radiological survey data sheets. Tables 1, 2 and 3 present the survey data with all the results converted, as appropriate, to the units necessary for comparison against the radiological

acceptance criteria. A statistical analysis is included in each table to determine if the acceptance criteria have been met at the desired degree of confidence.

Appendix D incorporates the radiological survey data sheets for the Beta scans of the floor. Table 4 presents a summary of the floor scans with the units converted, as appropriate, for comparison against the radiological acceptance criteria.

Table 5 presents a summary of the statistical analysis information from Tables 1, 2 and 3.

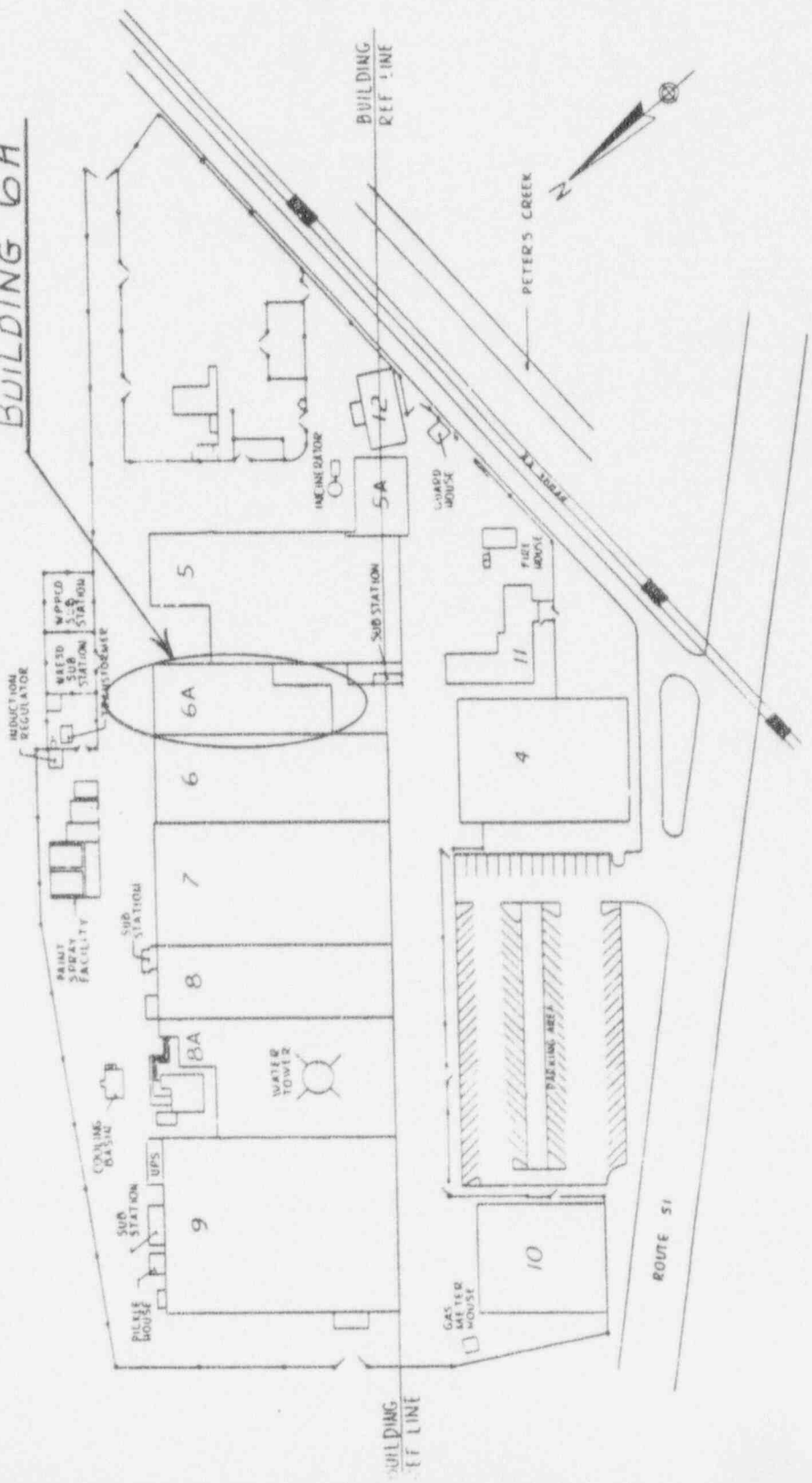
Current Status

Building 6A is currently an occupied building performing seismic testing of equipment. These operations are expected to continue. No radioactive material is utilized, nor is any such use anticipated.

Conclusions

The statistical analysis of the radiological survey data presented in this report indicates that the current condition of the basement of this building meets all the radiological acceptance criteria at the 95% confidence level. Therefore, this area of the building can be released for unrestricted use. There is no potential for this area to become contaminated after the surveys which have been made and documented by this report as there is no further use of radioactive material on the site.

BUILDING 6A

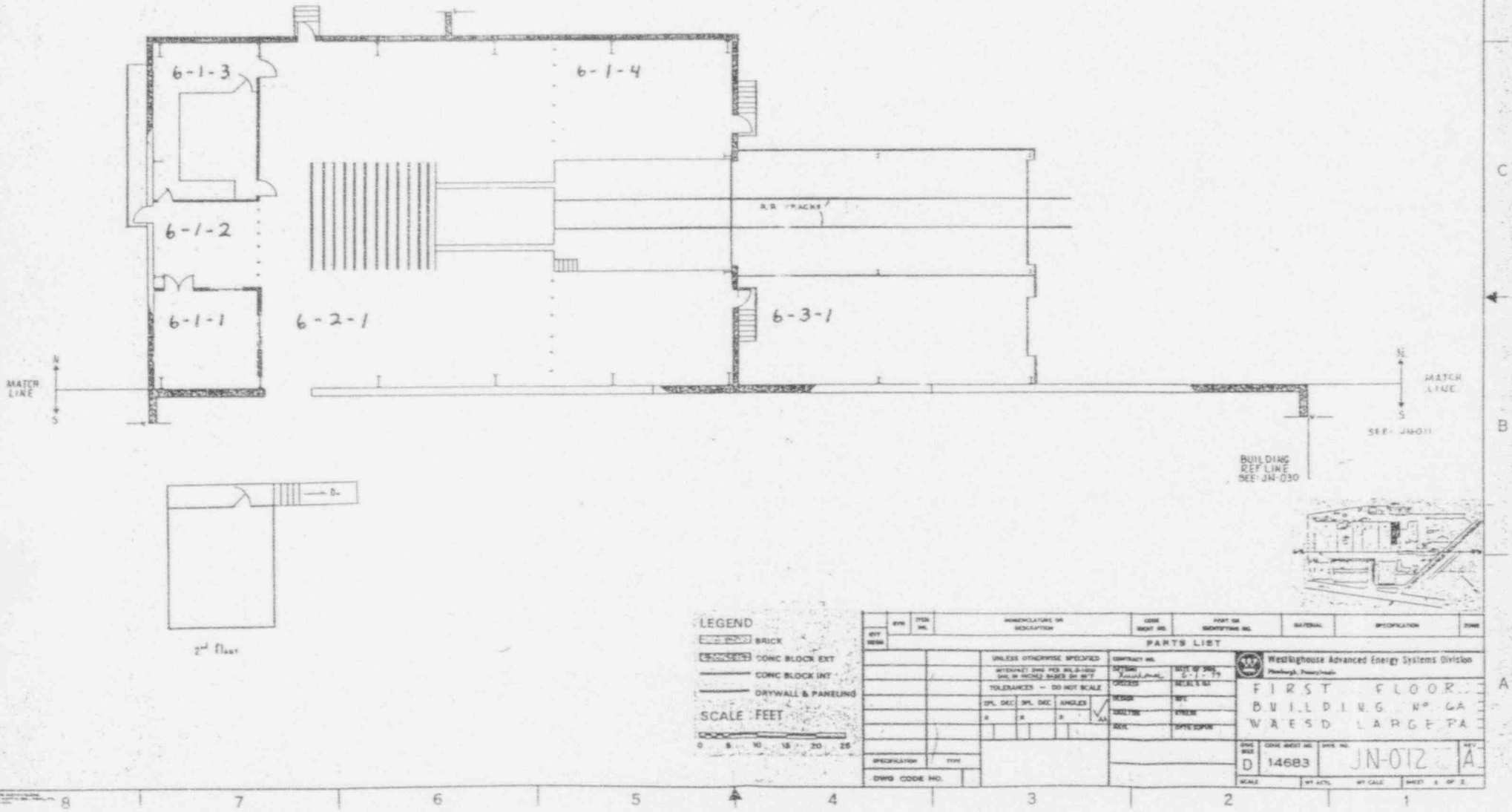


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FIGURE 1
SITE PLOT PLAN

VAFSD LARGE, PA
D 14683
JN030

North



LEGEND

- BRICK
 - CONC BLOCK EXT
 - CONC BLOCK INT
 - DRYWALL & PANELING
- SCALE: FEET
- 0 5 10 15 20 25

REV	ITEM NO.	DESCRIPTION	DATE	BY	CHKD
PARTS LIST					
UNLESS OTHERWISE SPECIFIED			COMPANY NO.	WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION	
INTERPRET DIMS PER MIL-STD-883C			DATE	Pittsburgh, Pennsylvania	
DIM IN DIMENSIONS SHOWN ON DRAWING			SCALE	AS SHOWN	
TOLERANCES - DO NOT SCALE			DESIGN	SFC	
FRACTIONS - 16ths			DRAWING	SFC	
DECIMALS - 0.0005			REV	DATE	
ANGLES - 30, 45, 60, 90, 120, 150, 180					
SPECIFICATION					
DWG CODE NO.					

FIGURE 2
BUILDING 6A, (SURVEY SECTION 6)

TABLE 1
ANALYSIS OF SURVEY RESULTS AND COMPARISONS AGAINST LIMITS FOR BUILDING #84 (SECTION 6, UNIT 1)

SURFACE DESCRIPTION	GRID	X, Y POINT	LOCATION CODE	SURVEY METHOD	GAMMA SURVEY @ 1 METER (MICRO/RH)	BETA/GAMMA SURVEY CONTACT (MP/HR)	MAXIMUM BETA (CPM/100CM ²)	SCAM RESULTS AVERAGE BETA (CPM/100CM ²)	TOTAL FIRED ACTIVITY ALPHA (CPM/100CM ²)	TOTAL FIRED ACTIVITY BETA (CPM/100CM ²)	REMOVABLE ALPHA (CPM/100CM ²)	REMOVABLE BETA (CPM/100CM ²)
Floor	14, -16	N/A	6-1-4	9	0.010	87.4	26.1	24.6	16.7	-0.15	3.28	
"	16, -16	"	6-1-4	9	0.010	173.4	89.0	-26.0	23.6	-0.15	-2.82	
"	18, -16	"	6-1-4	13	0.015	181.0	181.0	15.8	127.7	-0.15	-2.82	
"	14, -18	"	6-1-4	9	0.010	82.3	5.3	-26.0	31.2	-0.15	-2.82	
"	16, -18	"	6-1-4	11	0.010	58.5	58.5	-9.0	95.8	-0.15	-2.82	
"	14, -20	"	6-1-4	9	0.010	73.0	17.5	-6.8	16.0	8.05	3.28	
"	16, -22	"	6-1-4	10	0.010	26.6	12.9	-19.2	28.9	-0.15	5.39	
"	14, -24	"	6-1-4	11	0.005	87.9	20.5	-5.6	70.7	-0.15	-2.82	
"	6, -16	"	6-1-4	8	0.015	123.2	50.9	-16.9	121.7	-0.15	15.49	
"	4, -16	"	6-1-3	9	0.010	111.8	73.4	-12.4	166.5	-0.15	3.28	
"	2, -16	"	6-1-3	6	0.010	113.3	96.6	-7.9	77.8	6.05	-2.82	
"	6, -18	"	6-1-4	7	0.005	167.3	96.6	-23.7	114.3	-0.15	3.10	
"	4, -18	"	6-1-4	8	0.010	156.9	119.4	-20.3	143.7	-0.15	-2.82	
"	6, -20	"	6-1-4	8	0.010	147.5	119.4	-20.2	95.8	-0.15	9.39	
"	2, -20	"	6-1-4	8	0.010	124.7	104.7	-14.7	130.0	-0.15	-2.82	
Floor	4, -2	N/A	6-1-1	9	0.010	262.4	32.0	-13.5	-66.2	8.05	-2.82	
"	6, -4	"	6-1-1	9	0.010	0.0	0.0	-1.1	21.3	-0.15	-2.82	
"	8, -4	"	6-1-1	9	0.010	-86.4	-126.0	0.0	-0.8	-0.15	-2.82	
"	8, -12.5	"	6-1-1	9	0.010	396.8	192.0	4.6	0.0	-0.15	3.28	
North Wall	2, -11.2	N/A	6-1-2	9	0.010	150.4	32.0	4.6	48.0	-0.15	3.28	
North Wall	4, -11.2	"	6-1-2	9	0.010	137.6	32.0	4.6	69.6	-0.15	-2.82	
"	2, -2	"	6-1-2	9	0.010	140.8	288.0	24.8	25.9	-0.15	-2.82	
"	2, -4	"	6-1-2	9	0.010	64.0	288.0	24.8	33.5	-0.15	-2.82	
"	4, -4	"	6-1-2	9	0.010	67.2	32.0	19.2	101.9	-0.15	-2.82	
"	16, -4	"	6-1-2	9	0.010	144.5	-128.0	23.7	34.2	-0.15	9.39	
"	16, -6	"	6-1-2	9	0.010	144.5	-7.6	15.8	17.5	-0.15	3.28	
"	14, -4	"	6-1-2	9	0.010	144.5	68.4	2.3	24.3	-0.15	3.28	
"	12, -4	"	6-1-2	9	0.010	144.5	106.5	12.8	21.3	8.05	-2.82	
"	12, -2	"	6-1-2	9	0.010	220.5	192.0	-5.6	20.5	-0.15	-2.82	
"	14, -2	"	6-1-2	9	0.020	68.4	-7.6	0.0	38.4	-0.15	-2.82	
North Wall	2, -12.5	"	6-1-3	9	0.010	327.2	160.0	4.6	134.4	-0.15	-2.82	
"	4, -12.5	"	6-1-3	9	0.010	342.4	352.0	4.6	3.2	-0.15	9.03	
"	16, -12.5	"	6-1-3	9	0.010	768.8	380.8	0.0	781.6	-0.15	-2.82	
East Wall	16, -12.5	"	6-1-4	9	0.010	326.4	204.8	0.0	-60.0	-0.15	-2.82	
"	20, -12.5	"	6-1-4	9	0.010	441.6	236.8	4.6	278.4	-0.15	3.28	
South Wall	4, -12.5	"	6-1-4	9	0.010	243.2	-99.2	4.6	-108.8	-0.15	9.39	
"	6, -12.5	"	6-1-4	9	0.010	165.6	-135.2	9.2	-73.6	-0.15	3.28	
"	16, -12.5	"	6-1-4	9	0.010	185.6	-3.2	4.6	-9.6	-0.15	-2.82	
"	2, -12.5	"	6-1-4	9	0.010	352.0	60.8	4.6	48.0	-0.15	-2.82	
"	4, -12.5	"	6-1-4	9	0.010	503.6	140.8	4.6	105.8	-0.15	-2.82	
Floor	8, -18	"	6-1-4	9	0.020	206.1	26.6	13.5	63.1	-0.15	-2.82	
"	8, -20	"	6-1-4	9	0.010	187.3	11.4	-3.4	4.6	-0.15	3.28	
"	8, -22	"	6-1-4	9	0.010	69.2	-49.4	4.5	24.3	-0.15	-2.82	
"	10, -16	"	6-1-4	9	0.010	91.2	-11.4	7.9	44.1	-0.15	-2.82	
"	10, -20	"	6-1-4	9	0.010	209.1	45.6	-2.3	32.2	-0.15	-2.82	
"	10, -22	"	6-1-4	9	0.010	244.8	24.6	16.9	9.9	-0.15	3.28	
"	10, -24	"	6-1-4	9	0.010	259.2	102.6	1.1	57.0	-0.15	-2.82	
Floor	2, -6	N/A	6-1-2	9	0.010	-214.4	-99.2	9.2	22.4	-0.15	-2.82	
Roof Trusses	4, -6	"	6-1-2	9	0.010	-60.8	-198.4	14.0	528.0	-0.15	-2.82	
"	6, -6	"	6-1-2	9	0.010	-134.4	-70.4	0.0	92.8	-0.15	-2.82	
"	8, -6	"	6-1-2	9	0.010	-3.2	-166.4	9.2	67.2	-0.15	-2.82	
"	10, -6	"	6-1-2	9	0.010	-64.0	-230.4	13.8	-188.8	-0.15	-2.82	
"	12, -6	"	6-1-2	9	0.010	-166.4	-38.4	-4.6	148.8	-0.15	3.28	
"	14, -6	"	6-1-2	9	0.010	153.6	-38.4	-4.6	148.8	-0.15	3.28	
Light Fixtures	N/A	"	6-1-2	9	0.010	150.4	-70.4	0.0	51.2	-0.15	-2.82	

TABLE 1
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6A (SECTION 6, UNIT 1)

SURFACE DESCRIPTION	GRID	I, Y	LOCATION	GAMMA SURVEY #1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (nR/hr)	SCAN RESULTS		TOTAL FIRED ACTIVITY		REMOVABLE ACTIVITY	
						MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
		#5	6-1-2			281.6	171.6	5.2	3.2	-0.15	-2.82
		#7	6-1-2			105.6	6.4	-4.6	25.6	-0.15	-2.82
Roof Trusses	2, -181	N/A	6-1-4			-3.2	-86.4	-9.2	-99.2	-0.15	-2.82
	4, -18		6-1-4			-9.4	-54.4	0.0	-22.4	-0.15	-2.82
	6, -18		6-1-4			35.2	-22.4	0.0	-84.4	-0.15	-2.82
	8, -18		6-1-4			106.8	-70.4	0.0	-128.0	-0.15	-2.82
	10, -18		6-1-4			-6.4	-86.4	0.0	-105.6	-0.15	-2.82
	12, -18		6-1-4			6.4	-54.4	-9.2	-150.4	-0.15	-2.82
	14, -18		6-1-4			0.0	-22.4	-9.2	-83.2	-0.15	-2.82
	2, -24		6-1-4			16.0	-22.4	0.0	-92.8	-0.15	3.10
	4, -24		6-1-4			67.2	-54.4	-4.6	-22.4	-0.15	3.28
	6, -24		6-1-4			80.0	9.6	-13.8	-131.2	-0.15	9.39
	8, -24		6-1-4			-9.6	-86.4	-13.8	-60.8	-0.15	-2.82
	10, -24		6-1-4			76.8	-22.4	-13.8	-137.6	-0.15	-2.82
	12, -24		6-1-4			73.5	-86.4	-9.2	-99.2	-0.15	3.28
	14, -24		6-1-4			4.4	-54.4	-9.2	-80.0	-0.15	-2.82
Top of ventilation	West wall	#3	6-1-4			57.6	-60.8	17.8	-83.2	-0.15	-2.82
Top of GIB crane	West wall	# 1 ton mark	6-1-4			83.2	-140.8	4.6	-140.8	-0.15	3.28
Top of Ventilation	East wall	#5	6-1-4			176.0	51.2	0.0	-51.2	-0.15	3.28
	South wall	14, -6.7	6-1-4			4.4	-44.8	23.0	-99.2	-0.15	-2.82
	East wall	#6	6-1-4			22.4	-108.8	4.6	-54.4	-0.15	-2.82
Inside ventilation	West wall	#3	6-1-4			192.0	135.2	4.4	51.2	-0.15	9.39
ducts	East wall	#5	6-1-4			73.6	-44.8	4.6	57.6	-0.15	-2.82
	East wall	#6	6-1-4			28.8	-76.8	0.0	-25.6	-0.15	9.39
Floor (underneath	N/A	N/A	6-1-1	11	0.021	249.6	70.4	-9.2	64.0	-0.15	-2.82
chamber)											
Floor (underneath	N/A	N/A	6-1-4	10	0.009	240.0	150.4	-9.2	166.4	0.00	0.00
chamber)											

STATISTICAL ANALYSIS

NUMBER OF SAMPLES	39	39	86	86	86	86	86	
MINIMUM	6.00	0.005	-140.8	-288.0	-24.0	-188.8	-0.15	-2.82
MAXIMUM	13.00	0.021	748.8	380.8	24.8	761.6	8.05	15.49
AVERAGE	9.13	0.011	130.5	0.8	-0.5	31.5	0.23	0.25
STANDARD DEVIATION	1.09	0.004	151.0	120.3	11.8	141.7	1.73	4.41
LIMIT	15	0.200	15,000	5,000	5,000	5,000	1,000	1,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	1.687	1.687	1.666	1.666	1.666	1.666	1.666	1.666
DATA TEST PARAMETER	9.42	0.01	157.61	22.45	1.67	140.04	0.54	1.04
"NUMBER OF SAMPLES" FACTOR	5.29	53.81	98.47	41.55	422.44	35.07	579.27	226.82
DOES DATA SATISFY LIMIT CRITERIA?	YES	YES	YES	YES	YES	YES	YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES	YES	YES	YES	YES	YES	YES	YES

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6A (SECTION 6, UNIT 2)

SURFACE DESCRIPTION	GRID	I, Y REP POINT	LOCATION CODE	GAMMA SURVEY (SI METER (microR/hr))	BETA/GAMMA SURVEY (mR/hr)	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
						MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
Floor	2, -2	N/A	6-2-1	9	0.017	53.2	15.2	4.5	12.2	-0.15	9.03
"	4, -2	"	6-2-1	9.5	0.010	-41.8	-60.8	-15.8	25.9	-0.15	3.10
"	6, -2	"	6-2-1	8	0.018	-41.8	-60.8	-2.3	-101.9	-0.15	3.26
"	8, -2	"	6-2-1	7	0.016	-60.8	-79.8	-3.4	-16.0	-0.15	3.10
"	10, -2	"	6-2-1	7	0.010	-60.8	-98.8	-14.7	-100.4	-0.15	3.28
"	12, -2	"	6-2-1	8	0.020	-3.8	-41.8	-20.3	-75.3	-0.15	3.28
"	14, -2	"	6-2-1	7	0.017	-79.8	-117.9	-19.2	-62.4	-0.15	-2.82
"	14, -4	"	6-2-1	8	0.015	-2.8	-22.8	-1.1	38.8	-0.15	-2.82
"	12, -6	"	6-2-1	7	0.021	-22.8	-60.8	-14.7	-114.1	-0.15	-2.82
"	12, -8	"	6-2-1	6	0.010	52.5	-3.8	-5.6	109.5	-0.15	-2.82
"	14, -8	"	6-2-1	7	0.010	-22.8	-60.8	-20.3	-47.9	8.05	9.39
"	14, -6	"	6-2-1	8	0.013	15.2	-3.8	-12.4	-64.6	-0.15	-2.82
"	10, -8	"	6-2-1	5	0.011	-79.8	-117.9	-19.2	-142.2	-0.15	-2.82
"	8, -8	"	6-2-1	5	0.015	-174.9	-231.9	-20.3	-238.0	-0.15	-2.82
"	12, -10	"	6-2-1	8	0.014	-3.8	-60.8	8.8	-90.5	-0.15	3.28
Floor	14, -12	N/A	6-2-1	8	0.018	15.2	-22.8	-9.0	-3.8	-0.15	-2.82
"	12, -12	"	6-2-1	8	0.013	34.2	-3.8	-23.7	11.4	-0.15	9.03
"	12, -14	"	6-2-1	9	0.017	-41.8	-79.8	-13.5	2.3	-0.15	-2.82
"	14, -14	"	6-2-1	9	0.017	-3.8	-41.8	-12.4	18.2	-0.15	-2.82
"	6, -14	"	6-2-1	7	0.010	44.9	-11.4	-12.4	41.8	-0.15	-2.82
"	2, -4	"	6-2-1	6	0.014	-41.8	-79.8	-5.6	-77.6	-0.15	9.39
"	4, -4	"	6-2-1	7	0.010	-41.8	-79.8	-24.8	31.2	-0.15	-2.82
"	2, -6	"	6-2-1	9	0.015	72.2	34.2	-2.3	7.6	-0.15	3.28
"	2, -8	"	6-2-1	8	0.010	91.2	34.2	-5.6	-83.9	-0.15	-2.82
"	2, -10	"	6-2-1	9	0.015	-60.8	-117.9	-19.2	-37.3	-0.15	-2.82
"	2, -12	"	6-2-1	8	0.010	34.2	-22.8	-21.5	-67.7	8.05	-2.82
"	2, -14	"	6-2-1	10	0.010	129.3	34.2	-24.8	66.9	-0.15	-2.82
East Wall	N/A	8, -12.5	6-2-1			521.6	326.4	0.0	9.6	-0.15	-2.82
"	"	14, -12.5	6-2-1			627.2	294.4	4.6	288.0	-0.15	-2.82
West Wall	"	10, -12.5	6-2-1			576.0	310.4	0.0	304.0	-0.15	-2.82
"	"	12, -12.5	6-2-1			710.4	326.4	9.2	307.2	-0.15	-2.82
"	"	14, -12.5	6-2-1			676.8	326.4	4.6	166.4	7.81	3.10
"	"	16, -12.5	6-2-1			483.2	278.4	13.8	224.0	-0.15	-2.82
"	"	18, -12.5	6-2-1			438.4	230.4	9.2	243.2	-0.15	3.28
Ventilation grates	N/A	84	6-2-1		0.010					-0.15	9.39
West Wall	"	5	6-2-1		0.020	297.6	74.8	0.0	-3.2	-0.15	-2.82
"	"	4	6-2-1		0.010					-0.15	3.28
"	"	7	6-2-1		0.010					-0.15	-2.82
Ventilation grates	"	2	6-2-1		0.010					-0.15	-2.82
East Wall	"	3	6-2-1		0.010	64.0	19.2	9.2	-54.4	8.05	-2.82
"	"	4	6-2-1		0.010					-0.15	-2.82
On top of west wall	N/A	84	6-2-1			134.4	0.0	0.0	-32.0	-0.15	3.28
ventilation ducts	"	85	6-2-1			54.4	0.0	4.6	-44.8	-0.15	-2.82
"	"	86	6-2-1			64.0	-64.0	-9.2	-57.6	-0.15	-2.82
"	"	87	6-2-1			256.0	64.0	0.0	-16.0	-0.15	-2.82
On top of east wall	"	83	6-2-1			140.8	0.0	4.6	32.0	-0.15	-2.82
ventilation ducts	"	82	6-2-1			268.8	96.0	4.6	-3.2	-0.15	15.49
"	"	84	6-2-1			6.4	-32.0	-9.2	6.4	-0.15	-2.82
Beam on east wall	"	12, -6.7	6-2-1			0.0	-128.0	-9.2	-67.2	-0.15	9.03
Crane - trolley	N/A		6-2-1			51.2	-166.4	0.0	1209.6	-0.15	-2.82
Crane - Carriage 1	"		6-2-1			-92.8	-198.4	4.6	484.8	-0.15	-2.82
"	2	"	6-2-1			-70.4	-230.4	0.0	-233.6	-0.15	-2.82
"	3	"	6-2-1			-128.0	-198.4	9.2	-268.8	-0.15	3.28
"	4	"	6-2-1			-54.4	-198.4	4.6	-236.8	-0.15	-2.82
"	5	"	6-2-1			-9.6	-102.4	4.6	-172.8	-0.15	-2.82
"	6	"	6-2-1			-25.6	-166.4	4.6	-188.8	-0.15	-2.82
"	7	"	6-2-1			128.0	-38.4	0.0	-201.6	-0.15	9.39
Roof Trusses	2, -6	N/A	6-2-1			-16.0	-198.4	0.0	342.4	-0.15	-2.82
"	4, -6	"	6-2-1			-131.2	-230.4	9.2	-188.8	-0.15	3.28
"	6, -6	"	6-2-1			-144.0	-198.4	0.0	89.6	-0.15	3.10

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6A (SECTION 6, UNIT 3)

SURFACE DESCRIPTION	GRID	X, Y REP POINT	LOCATION CODE	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
				SURVEY #1 METER (microR/hr)	SURVEY ON CONTACT (uR/hr)	MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
Painted Concrete	N/A	8, -2	6-3-1	8	0.010	13.7	-39.5	24.8	-64.6	-0.15	-2.82
Floor		8, -4	6-3-1	8	0.010	126.2	-1.5	-6.8	-69.2	-0.15	-2.82
		8, -6	6-3-1	8	0.010	72.2	-77.6	-13.5	-71.5	-0.15	-2.82
		8, -8	6-3-1	8	0.010	-25.9	-77.6	6.8	-51.7	-0.15	9.39
		8, -10	6-3-1	8	0.010	38.0	-20.5	-3.4	-109.5	-0.15	3.10
		8, -12	6-3-1	8	0.010	110.3	-1.5	-2.3	-108.0	-0.15	-2.82
		8, -14	6-3-1	8	0.010	23.6	-20.5	22.6	-75.3	-0.15	-2.82
		10, -14	6-3-1	8	0.010	159.7	55.5	7.9	-19.0	-0.15	3.28
		10, -12	6-3-1	8	0.010	-3.8	-77.6	15.8	-101.1	-0.15	-2.82
		10, -10	6-3-1	8	0.010	174.1	34.5	-9.0	-15.2	-0.15	3.28
		10, -8	6-3-1	8	0.010	27.4	-77.6	14.7	-34.2	-0.15	-2.82
		10, -6	6-3-1	8	0.010	72.2	-115.6	16.9	-64.6	-0.15	-2.82
		10, -4	6-3-1	8	0.010	-75.3	-153.6	5.6	-65.4	-0.15	-2.82
		10, -2	6-3-1	8	0.010	31.9	-1.5	0.0	-104.9	-0.15	3.28
		6, -4	6-3-1	8	0.010	114.8	34.5	0.0	18.2	-0.15	-2.82
Painted Concrete	N/A	4, -4	6-3-1	10	0.010	-69.2	-153.6	7.9	-162.7	-0.15	-2.82
RR Bay Floor		4, -6	6-3-1	10	0.010	-8.1	-115.6	10.2	-218.2	-0.15	-2.82
		4, -8	6-3-1	10	0.010	-92.0	-153.6	4.5	-238.8	-0.15	-2.82
		2, -8	6-3-1	10	0.010	53.2	-77.6	3.4	-256.2	-0.15	-2.82
		2, -6	6-3-1	10	0.010	-28.1	-77.6	-7.9	-169.6	-0.15	-2.82
		2, -4	6-3-1	10	0.010	-96.6	-172.6	6.8	-138.4	-0.15	-2.82
		2, -2	6-3-1	10	0.010	-71.5	-77.6	-19.2	-193.1	-0.15	-2.82
RR Bay North Wall		2, -7.1	6-3-1			537.6	352.0	0.0	201.6	-0.15	-2.82
		12, -7.1	6-3-1			230.4	94.0	13.8	217.6	-0.15	-2.82
		8, -7.1	6-3-1			118.4	-96.0	4.6	-96.0	-0.15	3.28
Weld Shop East Wall		6, -7.1	6-3-1			99.2	-96.0	0.0	57.6	-0.15	3.28
Weld Shop West Wall		10, -7.1	6-3-1			278.4	0.0	0.0	19.2	7.81	3.10
		12, -7.1	6-3-1			329.6	32.0	0.0	60.8	-0.15	-2.82
		14, -7.1	6-3-1			592.0	416.0	0.0	441.6	-0.15	3.28
Weld Shop East Wall		8, -7.1	6-3-1			172.8	-32.0	0.0	-115.2	-0.15	-2.82
Ceiling	8, -2	N/A	6-3-1			70.4	-105.6	0.0	-25.6	-0.15	-2.82
	10, -2		6-3-1			176.0	-41.6	-4.6	-38.4	-0.15	-2.82
	8, -4		6-3-1			16.0	-105.6	0.0	-118.4	-0.15	-2.82
	10, -4		6-3-1			115.2	-41.6	13.8	-67.2	-0.15	-2.82
	8, -4		6-3-1			243.2	22.4	-4.6	-83.2	-0.15	3.10
	10, -6		6-3-1			179.2	-72.6	-4.6	-25.6	-0.15	3.10
	8, -8		6-3-1			70.4	-105.6	13.8	-137.6	-0.15	9.03
	10, -8		6-3-1			102.4	-41.6	18.4	-12.8	-0.15	-2.82
	8, -10		6-3-1			40.8	-169.6	-4.6	-28.8	-0.15	9.39
	10, -10		6-3-1			-22.4	-169.6	9.2	-112.0	-0.15	3.10
North wall	10, -1		6-3-1			518.4	406.4	-4.6	406.4	-0.15	-2.82
	8, -1		6-3-1			614.4	310.4	0.0	422.4	-0.15	-2.82
I-Beam	8, -7		6-3-1			-102.4	-137.6	13.8	-160.0	-0.15	-2.82
East wall	10, -1		6-3-1			147.2	-9.6	0.0	-19.2	-0.15	3.28
Ceiling	10, -12		6-3-1			76.8	-41.6	-4.6	-76.8	-0.15	-2.82
Ceiling	8, -12	N/A	6-3-1			201.6	-41.6	9.2	-70.4	-0.15	3.10
	8, -14		6-3-1			156.8	-41.6	-4.6	32.0	-0.15	9.39
	10, -14		6-3-1			537.4	406.4	0.0	486.4	-0.15	9.03
North up door	8, -15		6-3-1			531.2	374.4	4.6	454.4	-0.15	-2.82
	10, -15		6-3-1			451.2	406.4	-4.6	176.0	-0.15	3.28
West wall	2, -1		6-3-1			560.0	438.4	0.0	476.8	-0.15	-2.82
Over head	4, -4		6-3-1			128.0	-16.0	0.0	339.2	-0.15	-2.82
Crane rail west	12, -2		6-3-1			1046.4	102.8	4.6	-51.2	-0.15	3.28
	10, -2		6-3-1			294.8	-2.4	0.0	-86.4	7.81	-2.82
East-wall	6, -2		6-3-1			188.8	-41.6	4.6	-16.0	-0.15	5.24

TABLE 4

SUMMARY OF RADIOLOGICAL SCAN DATA FOR BUILDING NUMBER 6A (SURVEY SECTION 6)

LOCATION CODE	SURFACE DESCRIPTION	EST % SCANNED	BETA SCAN SURVEY		ACCEPTANCE CRITERIA		UNITS	% OF ACCEPTANCE CRITERIA	
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE		MAXIMUM	AVERAGE
6-1-1	Floor Tile/Concrete	50	89	-52	15,000	5,000	DPM/100 cm ²	0.59%	-1.03%
6-1-2	Painted Concrete	59	38	-67	15,000	5,000	DPM/100 cm ²	0.25%	-1.34%
6-1-3	Floor Tile/Concrete	60	74	-36	15,000	5,000	DPM/100 cm ²	0.49%	-0.73%
6-1-4	Painted Concrete	50	73	-17	15,000	5,000	DPM/100 cm ²	0.49%	-0.35%
6-2-1	Floor Tile/Concrete	50	329	-59	15,000	5,000	DPM/100 cm ²	2.19%	1.17%
6-3-1	Painted Concrete Floor	35	353	173	15,000	5,000	DPM/100 cm ²	2.35%	3.45%

TABLE 5
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 6 - BUILDING 6A)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** SURVEY TYPE = GAMMA DOSERATE AT 1 METER FROM SURFACE						
06 -1	39	6.000	13.000	9.130	1.090	MicroR/hour
06 -2	28	5.000	11.000	7.730	1.400	MicroR/hour
06 -3	22	8.000	10.000	8.640	0.930	MicroR/hour
** Subtotal **	89					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
06 -1	39	0.005	0.021	0.011	0.004	MilliRem/hour
06 -2	35	0.010	0.021	0.013	0.004	MilliRem/hour
06 -3	22	0.010	0.010	0.010	0.000	MilliRem/hour
** Subtotal **	96					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
06 -1	86	-140.800	748.800	130.500	151.000	DPM/100 cm ²
06 -2	67	-174.900	710.400	55.400	195.500	DPM/100 cm ²
06 -3	60	-102.400	1046.400	166.500	221.300	DPM/100 cm ²
** Subtotal **	213					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
06 -1	86	-288.000	380.800	0.800	120.300	DPM/100 cm ²
06 -2	67	-262.400	326.400	-49.900	149.000	DPM/100 cm ²
06 -3	60	-176.000	438.400	1.300	168.100	DPM/100 cm ²
** Subtotal **	213					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
06 -1	86	-26.000	24.800	-0.500	11.800	DPM/100 cm ²
06 -2	67	-24.800	23.000	-2.400	11.200	DPM/100 cm ²
06 -3	60	-19.200	24.800	2.400	8.400	DPM/100 cm ²
** Subtotal **	213					
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
06 -1	86	-188.800	761.600	31.600	141.700	DPM/100 cm ²
06 -2	67	-297.600	1209.600	-19.300	230.600	DPM/100 cm ²
06 -3	60	-256.200	486.400	-1.000	184.400	DPM/100 cm ²
** Subtotal **	213					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
06 -1	86	-0.150	8.050	0.230	1.730	DPM/100 cm ²
06 -2	72	-0.150	8.050	0.300	1.970	DPM/100 cm ²
06 -3	60	-0.150	7.810	0.120	1.970	DPM/100 cm ²

TABLE 5
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 6 - BUILDING 6A)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** Subtotal **	218					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
06 -1	86	-2.820	15.490	0.250	4.410	DPM/100 cm ²
06 -2	72	-2.820	15.490	0.370	4.840	DPM/100 cm ²
06 -3	60	-2.820	9.390	0.030	3.930	DPM/100 cm ²
** Subtotal **	218					
*** Total ***	1473					

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS FOR SURVEY UNIT 1

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
	ESP2:1517-L	21.7	4.60			ESP2:1595-L	31.3	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	65	*	FLMON:91943	30.3%	3.3	1223

SURVEY DATE: 12/30/92
COUNT DATE: 12/30/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
*	E520: 5242	.01 mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	14, -16	N/A	9	.01	1338	1260	43	1245	-0.149	3.28	
"	16, -16	"	9	.01	1451	1340	42	1254	-0.149	-2.82	
"	18, -16	"	13	.015	1461	1300	51	1391	-0.149	-2.82	
"	14, -18	"	9	.01	1331	1230	42	1264	-0.149	-2.82	
"	16 -13	"	11	.01	1335	1300	57	1349	-0.149	-2.82	
"	14, -20	"	9	.01	1319	1200	59	1244	8.048	3.28	
"	14, -22	"	10	.01	1258	1240	48	1261	0.149	9.39	
"	14, -24	"	11	.005	1286	1250	40	1316	0.149	-2.82	
"	6, -16	"	8	.015	1385	1290	50	1383	-0.149	15.49	Painted concrete
"	4, -16	"	9	.01	1370	1320	54	1442	-0.149	3.28	"
"	2, -16	"	6	.01	1372	1350	58	1325	8.048	-2.82	"
"	6, -18	"	7	.005	1443	1350	44	1373	-0.149	-2.82	"
"	4, -18	"	9	.01	1432	1380	47	1412	-0.149	3.10	"
"	6, -20	"	8	.01	1369	1350	46	1434	-0.149	-2.82	"
"	4, -20	"	8	.01	1417	1380	56	1349	-0.149	9.39	"

FORM SERIAL #: 6-002 (Survey Section - Sequential survey #)	LOCATION # 6-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0104	SURVEYOR SIGNATURE: T.B.
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DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
	ESP2:1517-L	21.7	4.60			ESP2:1595-L	31.3	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	65	*	FLMON:91943	30.3%	3.3	1223

SURVEY DATE:	12/30/96
COUNT DATE:	12/30/96

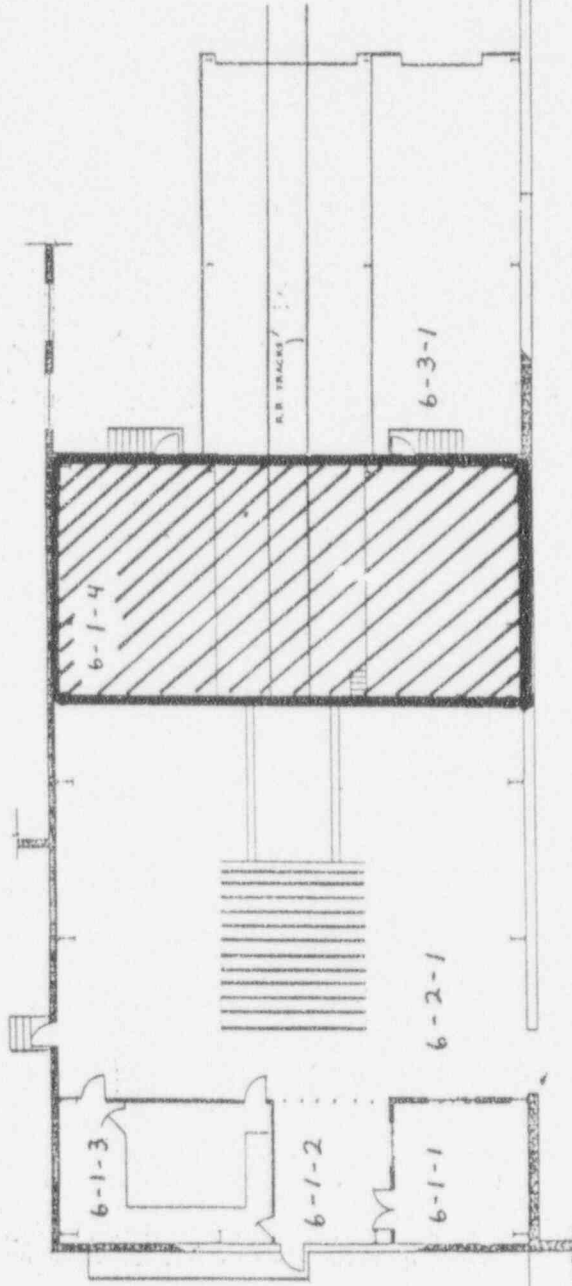
(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
X	PRM7: 234	10 uR/hr
X	E520: 5242	.01 mR/hr
	E520: 5245	mR/hr
	ESP2: 1522	mR/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
X	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
X	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mR/hr	SCAN CONTACT GROSS		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG	ALPHA	BETA	ALPHA	BETA	
Floor	2, -20	N/A	10	.01	1387		52	1394	-0.149	-2.82	Painted concrete

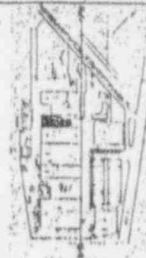
FORM SERIAL #: 6-002 (Survey Section - Sequential survey #)	LOCATION # 6-1/4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0105	SURVEYOR SIGNATURE: T.B.
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North
←



MATCH LINE
SEE J-10011

BUILDING
DETAILED
SEE J-10030



LEGEND

- BRICK
- CONCRETE
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHK

QTY	UNIT	DESCRIPTION	MANUFACTURER OR IDENTIFICATION	DATE	BY	CHK

PARTS LIST

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
TOLERANCES - DO NOT SCALE.
FINISHES - SEE SPECIFICATIONS.
ALL DIMENSIONS ARE IN FEET AND INCHES.
ALL ANGLES ARE 90° UNLESS NOTED OTHERWISE.

QTY	UNIT	DESCRIPTION	MANUFACTURER OR IDENTIFICATION	DATE	BY	CHK

Wichita State University Energy Systems Division
FIRST FLOOR
BUILDING HP-CA
WASD LARGE PA
DATE: 10/15/83
DRAWN BY: JN-012
CHECKED BY: A

8 7 6 5 4 3 2 1

LB5100W Low Background Counting System – Smear Analysis

Date: 12/30/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060104.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - floor of sub-unit 6-1-4

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/30/92 13:42
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:43
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:43
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:44
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:44
6	-0.149	1.37	<MDA	27.98	0.30	0.60	<MDA	35.93	0.33	-0.055	4.66	12/30/92 13:45
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:45
8	8.048	8.31	AI AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	12/30/92 13:46
9	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/30/92 13:47
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:47
11	-0.149	1.37	<MDA	27.98	15.49	11.38	<AL	35.93	0.33	-0.055	7.69	12/30/92 13:48
12	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/30/92 13:48
13	8.048	8.31	AI AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	12/30/92 13:49
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:49
15	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/30/92 13:50
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:50
17	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/30/92 13:51
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/30/92 13:51
19	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/30/92 13:52
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/30/92 13:52
21	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/30/92 13:53
22	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/30/92 13:53

*TSB
 12-30-92
 complete
 survey
 not
 performed*

*TSB
 12-30-92
 complete
 survey not
 performed*

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	2	*	ESP2:1595-L	31.3	3.20	140
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	58	*	FLMON:91943	30.3%	3.3	1250

SURVEY DATE: 1/4/93
COUNT DATE: 1/4/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	9 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	4, -2	N/A	9	.01	222	150	46	1163	8.048	-2.82	ESP's used for scans
"	4, -4	"	9	.01	140	100	57	1278	-0.149	-2.82	ESP's used for scans
"	6, -2	"	9	.01	113	90	58	1249	-0.149	-2.82	ESP's used for scans
North Wall	8, -12.5	"	N/A	N/A	264	200	3	140	-0.149	3.28	ESP's used for scans
											and 1 min counts

FORM SERIAL #: 6-006 (Survey Section - Sequential survey #)	LOCATION # 6-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0113	SURVEYOR SIGNATURE: M.S. <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060101FL.XLD
 Batch Ended: 1/6/93 8:49
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

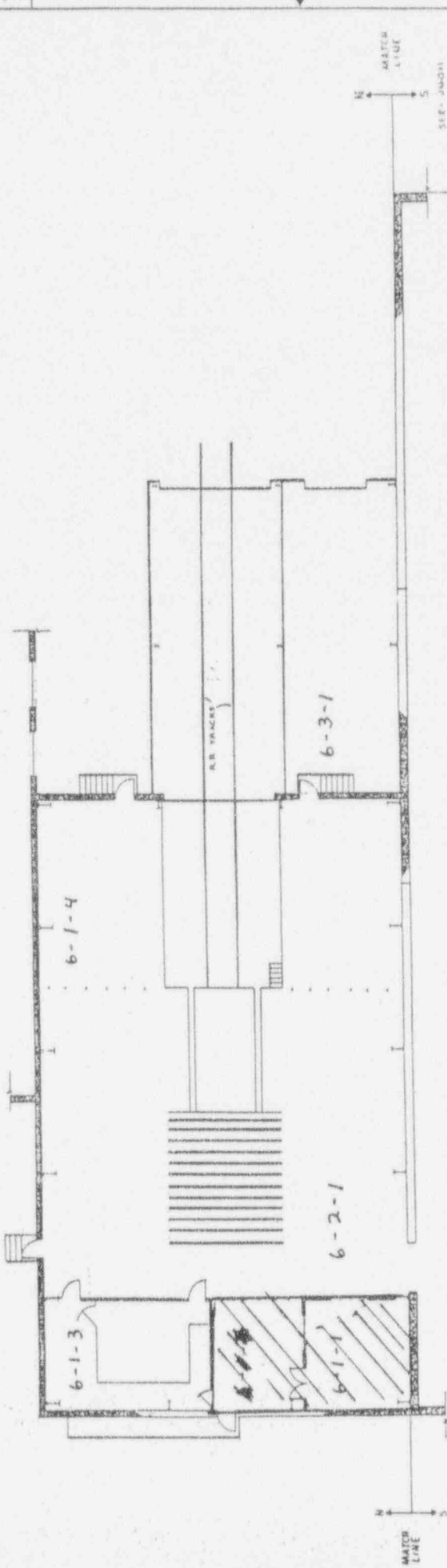
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-1-1 floor and north wall

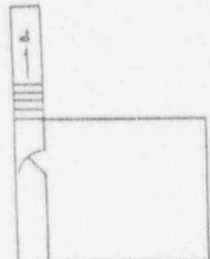
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
42	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/6/93 8:47
43	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:48
44	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:48
45	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:49

North
←



BUILDING REF LINE
SEE JN-030

SEE JN-031



LEGEND
 ELECTRIC BRICK
 CONCRETE
 CONCRETE BLOCK EXT
 CONCRETE BLOCK INT
 DRYWALL & PARTITION
 SCALE - FEET
 0 5 10 15 20 25

NO.	REV.	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

NO.	REV.	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

NO.	REV.	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

NO.	REV.	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

Wichitas Advanced Energy Systems Division
 BUILDING REF LINE SEE JN-030
 FIRST FLOOR
 BUILDING NO. GA
 W.A.E.S.D. LARGE PA
 DRAWING NO. JN-012
 SCALE 1/4" = 1'-0"
 SHEET 5 OF 5

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	2	*	ESP2:1595-L	31.3	3.20	190
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	44	*	FLMON:91943	30.3%	3.3	1210

SURVEY DATE: 1/4/93
COUNT DATE: 1/4/93 & 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	9 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North Wall	2, -11.2	N/A	N/A	N/A	237	200	3	205	-0.149	3.28	ESP's used for all
"	4, -11.2	"	"	"	233	200	3	162	-0.149	3.28	surveys.
Floor	2, -2	"	9	.01	146	100	66	1244	-0.149	-2.82	ESP's used for Scan
"	2, -4	"	9	.01	210	100	66	1254	-0.149	-2.82	surveys or y
"	4, -2	"	9	.01	211	180	61	1344	-0.149	-2.82	"
"	4, -4	"	9	.01	181	150	65	1255	-0.149	-2.82	"
"	16, -4	"	9	.01	1400	1200	63	1259	-0.149	9.39	Fimon used for all
"	16, -6	"	9	.01	1500	1200	58	1233	-0.149	3.28	surveys
"	14, -4	"	9	.01	1400	1300	46	1242	-0.149	3.28	"
"	12, -4	"	9	.01	1400	1250	46	1202	8.048	-2.82	"
"	12, -2	"	9	.01	1500	1350	55	1238	-0.149	3.28	"
"	14, -2	"	9	.02	1300	1200	39	1237	-0.149	-2.82	"

FORM SERIAL #: 6-007 (Survey Section - Sequential survey #)	LOCATION # 6-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0114	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060102.XLD
 Batch Ended: 1/4/93 14:58
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - Building 6A 2nd Floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/4/93 14:55
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/4/93 14:56
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 14:56
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/4/93 14:57
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/4/93 14:57
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 14:58

LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060102FL.XLD
 Batch Ended: 1/6/93 8:52
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 1.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

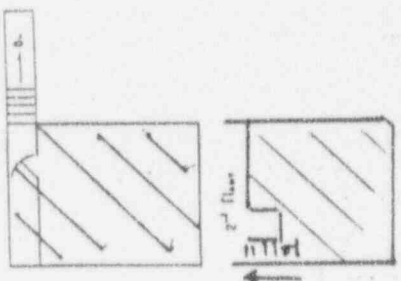
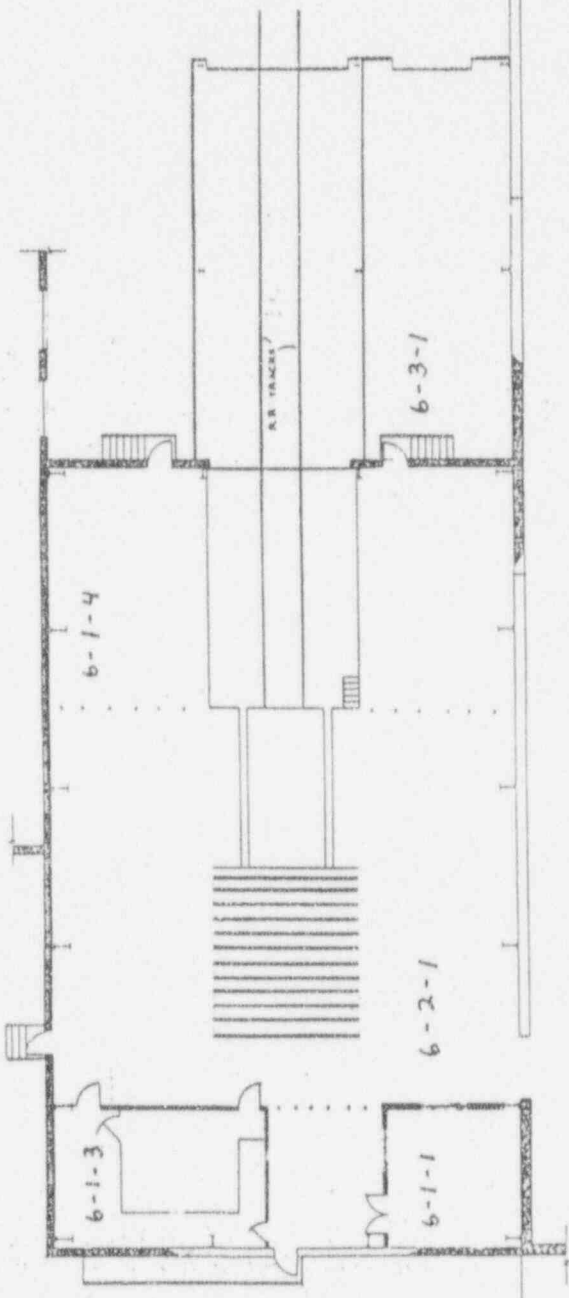
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - Bldg 6A 2nd floor page 2

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
50	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	0.055	4.66	1/6/93 8:50
49	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:50
48	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:51
47	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/6/93 8:51
46	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:52
51	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	1/6/93 8:52

North
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LEGEND

BRICK
 CONCRETE BLOCK EXT
 CONCRETE BLOCK INT
 GYPSUM WALL & PANELING
SCALE: FEET
 0 5 10 15 20 25

NO.	QTY.	DESCRIPTION	UNIT	PRICE	TOTAL
PARTS LIST					
1	1	CONCRETE BLOCK EXTERIOR	SQ. YD.	1.50	1.50
2	1	CONCRETE BLOCK INTERIOR	SQ. YD.	1.50	1.50
3	1	GYPSUM WALL & PANELING	SQ. YD.	1.50	1.50
4	1	BRICK	SQ. YD.	1.50	1.50
5	1	DOOR	EA.	10.00	10.00
6	1	WINDOW	EA.	10.00	10.00
UNLESS OTHERWISE SPECIFIED ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR DIMENSIONS - TO FACE UNLESS NOTED OTHERWISE FINISHES - TO FACE UNLESS NOTED OTHERWISE ALL WORK TO BE ACCORDING TO THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS					
PROJECT NO. 14683 DRAWING NO. JN-012 SHEET NO. 1 OF 1 DATE 11-1-63					



BUILDING REF LINE
SEE JN-030

SEE JN-011

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DECOMMISSIONING FIELD DATA SHEET

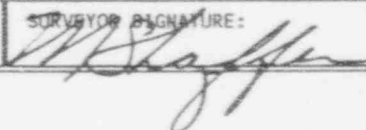
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	0	*	ESP2:1595-L	31.3	3.20	110
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/4/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North Wall	N/A	2, -12.5	N/A	N/A	211	170	0	122	-0.149	-2.82	
"	"	4, -12.5	"	"	217	160	.999	152	-0.149	-2.82	
"	"	6, -12.5	"	"	329	220	.999	111	-0.149	9.03	

FORM SERIAL #: 6-008 (Survey Section - Sequential survey #)	LOCATION # 6-1-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0115	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060103.XLD
 Batch Ended: 1/6/93 8:47
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

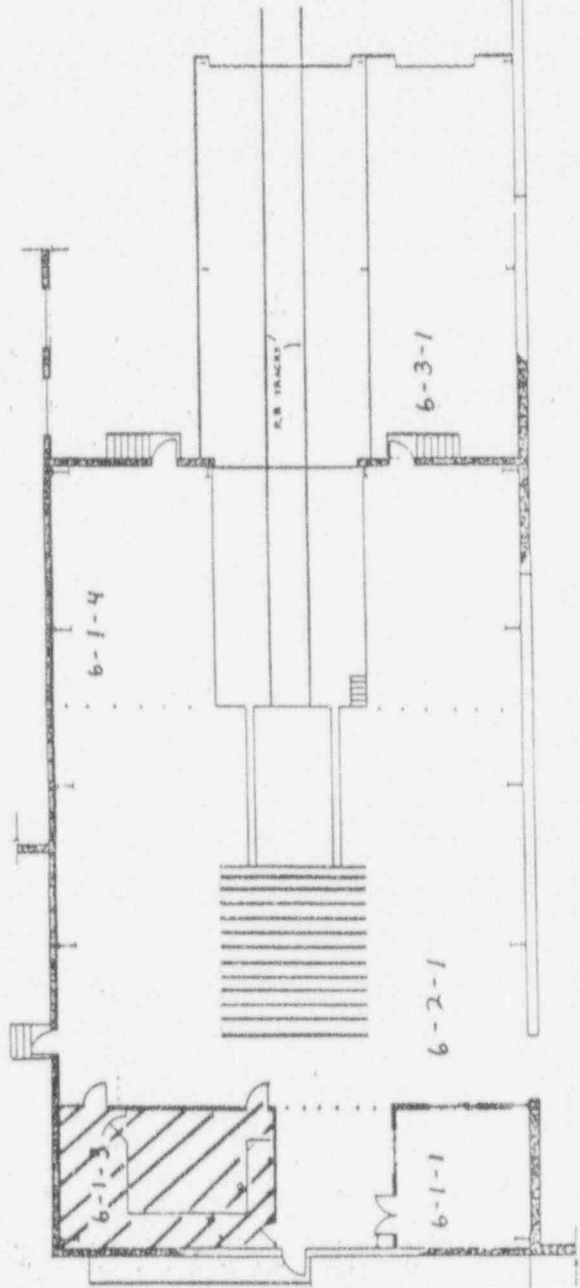
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-1-3 north wall

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
39	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:46
40	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 8:46
41	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/6/93 8:47

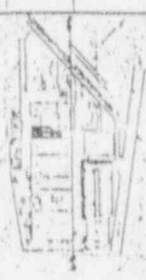
North
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METER
STOVE

SEE JN011

BUILDING
SEE JN010



LEGEND

ESGASES COMIC BLOCK EXT

COMIC BLOCK INT

DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN FEET AND INCHES
DIMENSIONS TO FACE UNLESS NOTED OTHERWISE

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PARTS LIST

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398. 2x798 SIPS

399. 2x800 SIPS

400. 2x802 SIPS

401. 2x804 SIPS

402. 2x806 SIPS

403. 2x808 SIPS

404. 2x810 SIPS

405. 2x812 SIPS

406. 2x814 SIPS

407. 2x816 SIPS

408. 2x818 SIPS

409. 2x820 SIPS

410. 2x822 SIPS

411. 2x824 SIPS

412. 2x826 SIPS

413. 2x828 SIPS

414. 2x830 SIPS

415. 2x832 SIPS

416. 2x834 SIPS

417. 2x836 SIPS

418. 2x838 SIPS

419. 2x840 SIPS

420. 2x842 SIPS

421. 2x844 SIPS

422. 2x846 SIPS

423. 2x848 SIPS

424. 2x850 SIPS

425. 2x852 SIPS

426. 2x854 SIPS

427. 2x856 SIPS

428. 2x858 SIPS

429. 2x860 SIPS

430. 2x862 SIPS

431. 2x864 SIPS

432. 2x866 SIPS

433. 2x868 SIPS

434. 2x870 SIPS

435. 2x872 SIPS

436. 2x874 SIPS

437. 2x876 SIPS

438. 2x878 SIPS

439. 2x880 SIPS

440. 2x882 SIPS

441. 2x884 SIPS

442. 2x886 SIPS

443. 2x888 SIPS

444. 2x890 SIPS

445. 2x892 SIPS

446. 2x894 SIPS

447. 2x896 SIPS

448. 2x898 SIPS

449. 2x900 SIPS

450. 2x902 SIPS

451. 2x904 SIPS

452. 2x906 SIPS

453. 2x908 SIPS

454. 2x910 SIPS

455. 2x912 SIPS

456. 2x914 SIPS

457. 2x916 SIPS

458. 2x918 SIPS

459. 2x920 SIPS

460. 2x922 SIPS

461. 2x924 SIPS

462. 2x926 SIPS

463. 2x928 SIPS

464. 2x930 SIPS

465. 2x932 SIPS

466. 2x934 SIPS

467. 2x936 SIPS

468. 2x938 SIPS

469. 2x940 SIPS

470. 2x942 SIPS

471. 2x944 SIPS

472. 2x946 SIPS

473. 2x948 SIPS

474. 2x950 SIPS

475. 2x952 SIPS

476. 2x954 SIPS

477. 2x956 SIPS

478. 2x958 SIPS

479. 2x960 SIPS

480. 2x962 SIPS

481. 2x964 SIPS

482. 2x966 SIPS

483. 2x968 SIPS

484. 2x970 SIPS

485. 2x972 SIPS

486. 2x974 SIPS

487. 2x976 SIPS

488. 2x978 SIPS

489. 2x980 SIPS

490. 2x982 SIPS

491. 2x984 SIPS

492. 2x986 SIPS

493. 2x988 SIPS

494. 2x990 SIPS

495. 2x992 SIPS

496. 2x994 SIPS

497. 2x996 SIPS

498. 2x998 SIPS

499. 2x1000 SIPS

PROJECT: Advanced Energy Systems Division

FIRST FLOOR

BUILDING NO. CA

WASD LARGE PA

JN-012

D 14683

DATE: 1/15/75

SCALE: AS SHOWN

BY: J. W. B. JONES

CHECKED: J. W. B. JONES

APPROVED: J. W. B. JONES

DWG CODE NO.

1 2 3 4 5 6 7 8

METER
LINE

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	.999	*	ESP2:1595-L	31.3	3.20	201
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	47	*	FLMON:91943	30.3%	3.3	1265

SURVEY DATE: 1/4/93
COUNT DATE: 1/4/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	9.0 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East Wall	N/A	16, -12.5	N/A	N/A	435	320	.999	439	-0.149	9.03	ESP's used for scan
"	"	18, -12.5	"	"	303	265	.999	176	-0.149	-2.82	and 1 min counts
"	"	20, -12.5	"	"	339	275	2.0	288	-0.149	-2.82	"
South Wall	"	4, -12.5	"	"	277	170	2.0	167	-0.149	3.28	"
"	"	6, -12.5	"	"	234	165	3.0	178	-0.149	9.39	"
"	"	16, -12.5	"	"	259	200	0	198	-0.149	-2.82	"
West Wall	"	2, -12.5	"	"	311	220	2.0	216	-0.149	-2.82	"
"	"	4, -12.5	"	"	359	245	0	234	-0.149	-2.82	"
Floor	"	8, -18	9	.02	1385	1200	59	1348	-0.149	-2.82	Floor mon used for
"	"	8, -20	9	.02	1536	1300	56	1265	-0.149	-2.82	scan and 1 min ct.
"	"	8, -22	9	.01	1485	1250	44	1271	-0.149	3.28	"
"	"	8, -24	9	.01	1356	1200	51	1297	-0.149	-2.82	"
"	"	10, -18	9	.01	1385	1250	54	1323	-0.149	-2.82	"
"	"	10, -20	9	.01	1540	1325	45	1281	-0.149	-2.82	"
"	"	10, -22	9	.01	1587	1300	62	1278	-0.149	3.28	"

FORM SERIAL #: 6-009 (Survey Section - Sequential survey #)	LOCATION # 6-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0116	SURVEYOR SIGNATURE: <i>G. Kaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060301.XLD
 Batch Ended: 1/6/93 8:45
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - sub-unit 6-3-1 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 8:30
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:31
11	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:31
12	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/6/93 8:32
13	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/6/93 8:32
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:33
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:33
16	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:34
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:34
18	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:35
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:35
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:36
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:36
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:37
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:38
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 8:38
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:39
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:39
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:40
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:40
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:41
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:41
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:42
32	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:42
33	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:43

LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060301.XLD
 Batch Ended: 1/6/93 8:45
 Crosstalk Correction: Not Applied

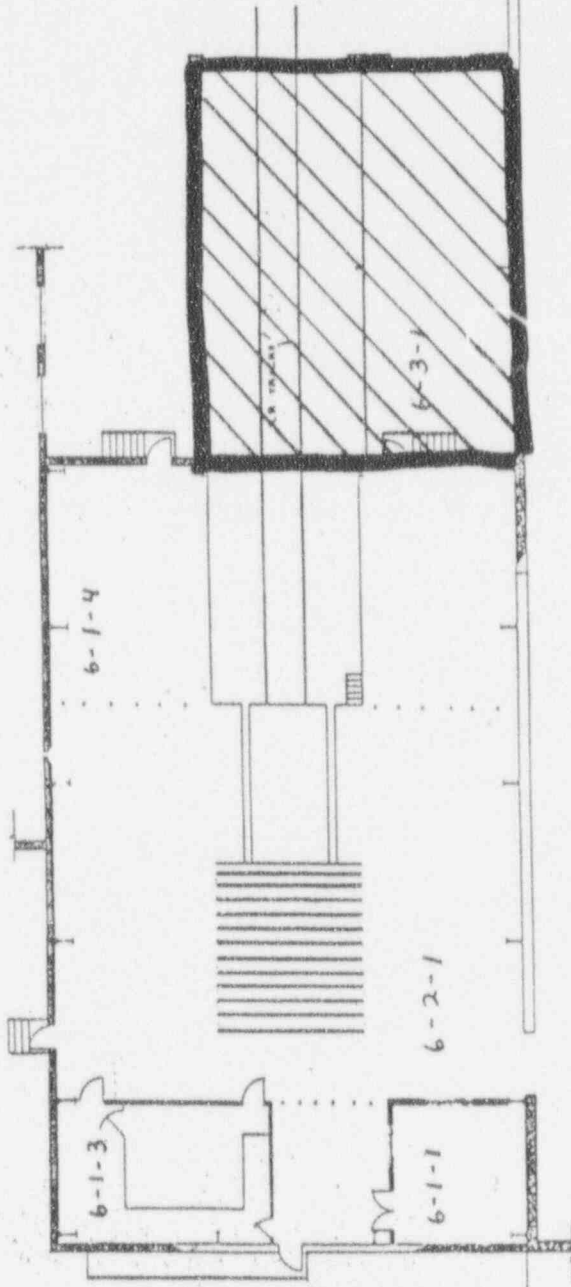
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - sub-unit 6-3-1 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
34	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:43
35	7.807	8.07	At AL	27.24	3.10	7.22	<MDA	35.16	0.34	2.886	1.54	1/6/93 8:44
36	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:44
37	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:45
38	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:45

North ←



SCALE LINE

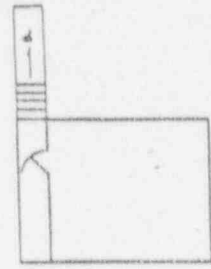
6-2-1

6-1-4

6-1-3

6-1-1

6-3-1



2nd Floor

ARCHITECT
A. J. G. C.

SEP. JUN 01

BUILDING
2nd FLOOR
SEE JN 030



NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
PARTS LIST					
1	BRICK	1000	SQ YD	1.00	1000.00
2	CONCRETE	100	CY	10.00	1000.00
3	WOOD	100	LF	10.00	1000.00
4	GLASS	100	SQ FT	10.00	1000.00
5	IRON	100	LB	10.00	1000.00
6	PAINT	100	GA	10.00	1000.00
7	PLASTER	100	SQ YD	10.00	1000.00
8	CEILING	100	SQ YD	10.00	1000.00
9	FLOORING	100	SQ YD	10.00	1000.00
10	MECHANICAL	100	HR	10.00	1000.00
11	ELECTRICAL	100	HR	10.00	1000.00
12	PAINTING	100	HR	10.00	1000.00
13	LABOR	100	HR	10.00	1000.00
14	OVERHEAD	100	PERCENT	10.00	1000.00
15	TOTAL				15000.00

LEGEND

BRICK
CONCRETE
WOOD
GLASS
IRON
PAINT
PLASTER
CEILING
FLOORING
MECHANICAL
ELECTRICAL
PAINTING
LABOR
OVERHEAD

SCALE: FEET

0 10 20 30

McIntosh Advanced Inter Systems Division
FIRST FLOOR
BUILDING MP-CA
WAES LARGE PA

DATE: 11/14/83
BY: JN-012
SCALE: 1/8" = 1'-0"

1 2 3 4 5 6 7 8

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	.999	*	ESP2:1595-L	31.3	3.20	152
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/5/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Roof Trusses	N/A	2, -6	N/A	N/A	121	85	3.0	159	-0.149	-2.82	
"	"	4, -6	"	"	133	90	3.0	317	-0.149	-2.82	
"	"	6, -6	"	"	135	110	4.0	317	-0.149	-2.82	
"	"	8, -6	"	"	158	130	.999	181	-0.149	-2.82	
"	"	10, -6	"	"	151	100	4.0	173	-0.149	3.28	
"	"	12, -6	"	"	132	80	4.0	93	-0.149	-2.82	
"	"	14, -6	"	"	162	100	3.0	115	-0.149	3.28	
Light Fixture	"	#1	"	"	200	140	0	196	-0.149	3.28	Fixture #1
"	"	#3	"	"	199	130	.999	168	-0.149	-2.82	Fixture #3
"	"	#5	"	"	140	190	3.0	153	-0.149	-2.82	Fixture #5
"	"	#7	"	"	185	150	0	160	-0.149	-2.82	Fixture #7

FORM SERIAL #: 6-016 (Survey Section - Sequential survey #)	LOCATION # 6-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0125	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060102US.XLD
 Batch Ended: 1/6/93 7:55
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

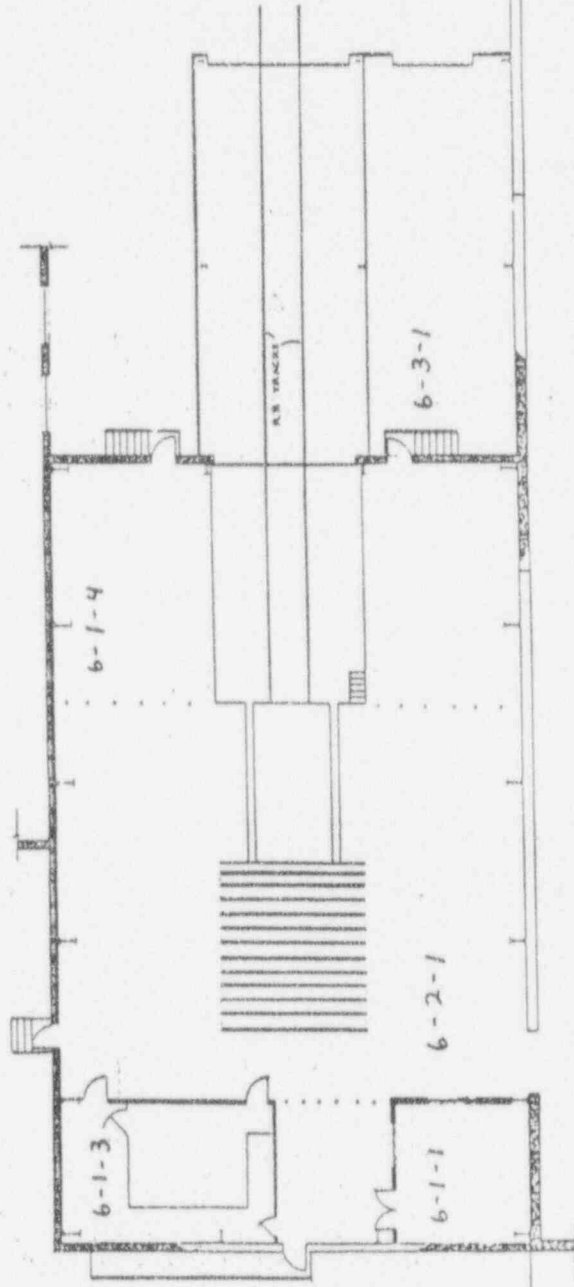
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-1-2 light fixtures and roof trusses

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:50
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:51
11	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 7:51
12	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 7:52
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	1/6/93 7:52
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:53
15	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 7:53
16	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 7:54
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:54
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:55
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:55

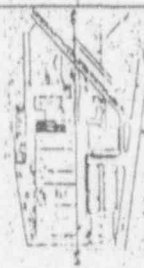
North ←



METER LINE

MARKER STAKE
SEE JN 011

BUILDING
DEF LINE
SEE JN 030



LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE : FEET

0 5 10 15 20 25

REV		DATE	BY	CHKD	DESCRIPTION

NO.	DESCRIPTION	QTY	UNIT

PARTS LIST	

NO.	DESCRIPTION	QTY	UNIT

		FIRST FLOOR BUILDING NO. GA WRES D LARG E PA	
D 14683	JN-012	SHEET NO.	TOTAL SHEETS

6-1-2

2nd Floor

8

DECOMMISSIONING FIELD DATA SHEET


(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	3	*	ESP2:1595-L	31.3	3.20	97
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/5/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Roof Trusses	2, -18	N/A	N/A	N/A	96	70	.999	66	-0.149	-2.82	
"	4, -18	"	"	"	94	80	3.0	90	-0.149	-2.82	
"	6, -18	"	"	"	108	90	3.0	70	-0.149	-2.82	
"	8, -18	"	"	"	131	75	3.0	57	-0.149	-2.82	
"	10, -18	"	"	"	95	70	3.0	64	-0.149	-2.82	
"	12, -18	"	"	"	99	80	.999	50	-0.149	-2.82	
"	14, -18	"	"	"	97	90	.999	71	-0.149	-2.82	
"	2, -24	"	"	"	102	90	3.0	68	-0.149	3.10	
"	4, -24	"	"	"	118	80	2.0	90	-0.149	3.28	
"	6, -24	"	"	"	122	100	0	56	-0.149	9.39	
"	8, -24	"	"	"	94	70	0	78	-0.149	-2.82	
"	10, -24	"	"	"	121	90	0	54	-0.149	-2.82	
"	12, -24	"	"	"	120	70	.999	66	-0.149	3.28	
"	14, -24	"	"	"	99	80	.999	72	-0.149	-2.82	

FORM SERIAL #: 6-017 (Survey Section - Sequential survey #)	LOCATION # 6-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0126	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060104UP.XLD
 Batch Ended: 1/6/93 8:02
 Crosstalk Correction: Not Applied

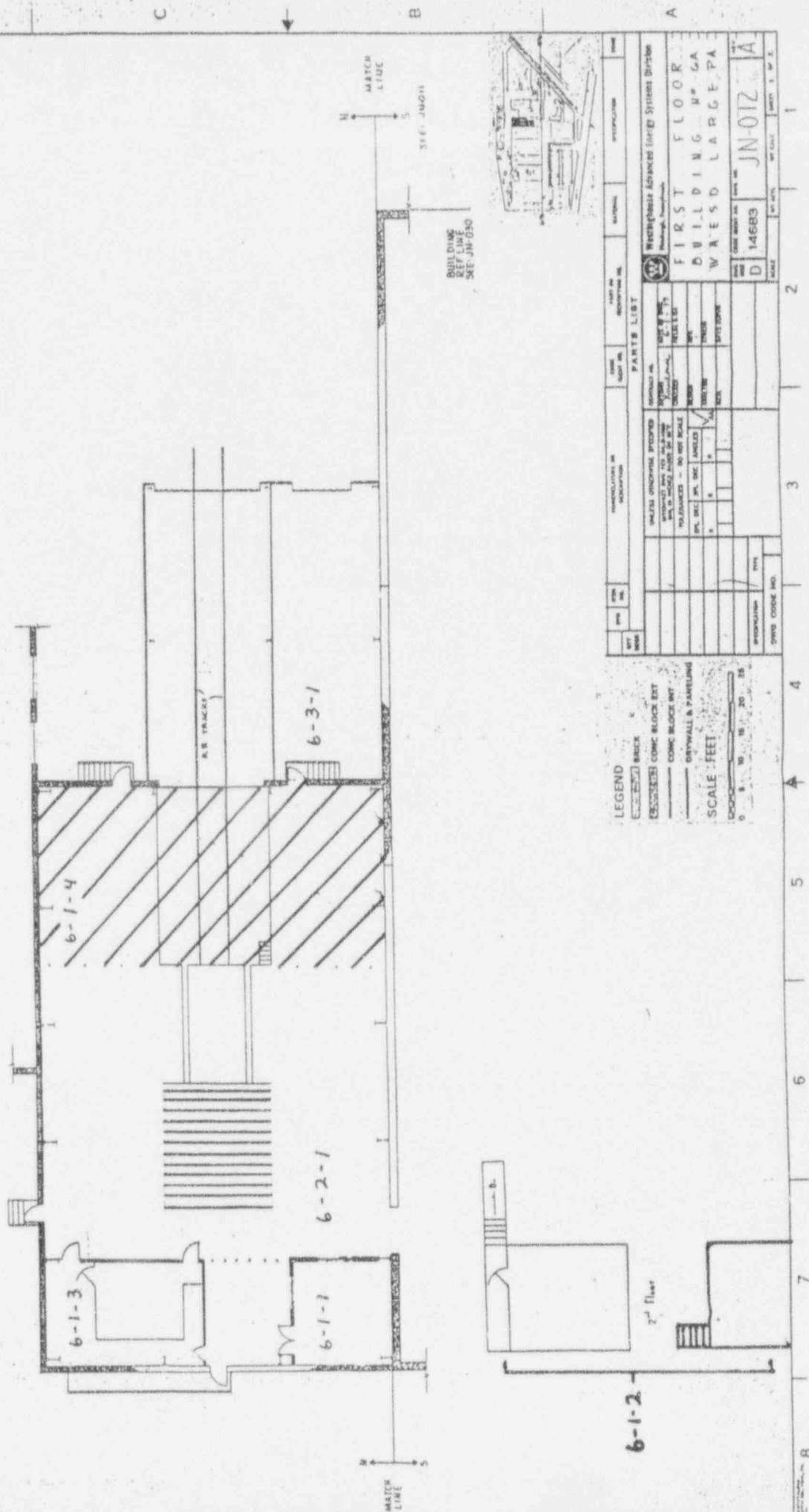
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-1-4 roof trusses

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:56
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:56
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:57
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:57
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:58
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:58
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:59
27	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/6/93 7:59
28	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:00
29	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/6/93 8:00
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:01
31	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 8:01
32	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:02
33	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:02

North
←



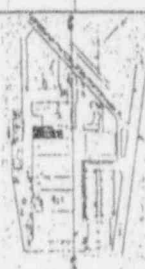
LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] GYPSUM WALLBOARD
 SCALE: FEET
 0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHK
1		ISSUED FOR PERMIT		
2		REVISED PER COMMENTS		
3		REVISED PER COMMENTS		
4		REVISED PER COMMENTS		
5		REVISED PER COMMENTS		
6		REVISED PER COMMENTS		
7		REVISED PER COMMENTS		
8		REVISED PER COMMENTS		

PROJECT NO.		JN-012	
DATE		14683	
DRAWN BY		D	
CHECKED BY		JN-012	
SCALE		AS SHOWN	
SHEET NO.		1	
TOTAL SHEETS		1	

PARTS LIST			
NO.	DESCRIPTION	QTY	UNIT
1	CONCRETE BLOCK		
2	BRICK		
3	GYPSUM WALLBOARD		
4	WOOD		
5	GLASS		
6	STEEL		
7	MECHANICAL		
8	ELECTRICAL		
9	PAINT		
10	FINISH		

ARCHITECT		WADSWORTH ADVANCED ENGINEERING SYSTEMS DIVISION	
ADDRESS		1000 W. 10TH ST. SUITE 100	
CITY		WHEELING, W. VA.	
STATE		WEST VIRGINIA	
ZIP		26061	
PROJECT NO.		JN-012	
SHEET NO.		1	
TOTAL SHEETS		1	



MATCH LINE
 SEE JN-011
 BUILDING REF LINE
 SEE JN-030


(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	0	*	ESP2:1595-L	31.3	3.20	134
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/6/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TEHN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TEHN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Top of Ventilation	#3	West Wall	N/A	N/A	152	115	3.0	108	-0.149	-2.82	Outside surface
Top of Gib crane	N/A	West Wall	"	"	160	90	.999	90	-0.149	3.28	@ 1 ton marking label
Top of Ventilation	#5	East Wall	"	"	189	150	0	118	-0.149	3.28	Outside surface
Top of Ventilation	14, -6.7	South Wall	"	"	136	120	5.0	117	-0.149	-2.82	
Top of Ventilation	#6	East Wall	"	"	141	100	.999	117	-0.149	-2.82	Outside surface

FORM SERIAL #: 6-019 (Survey Section - Sequential survey #)	LOCATION # 6-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0127	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060104VT.XLD
 Batch Ended: 1/6/93 10:55
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

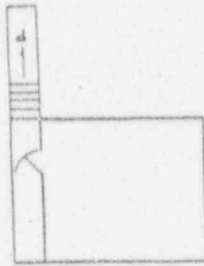
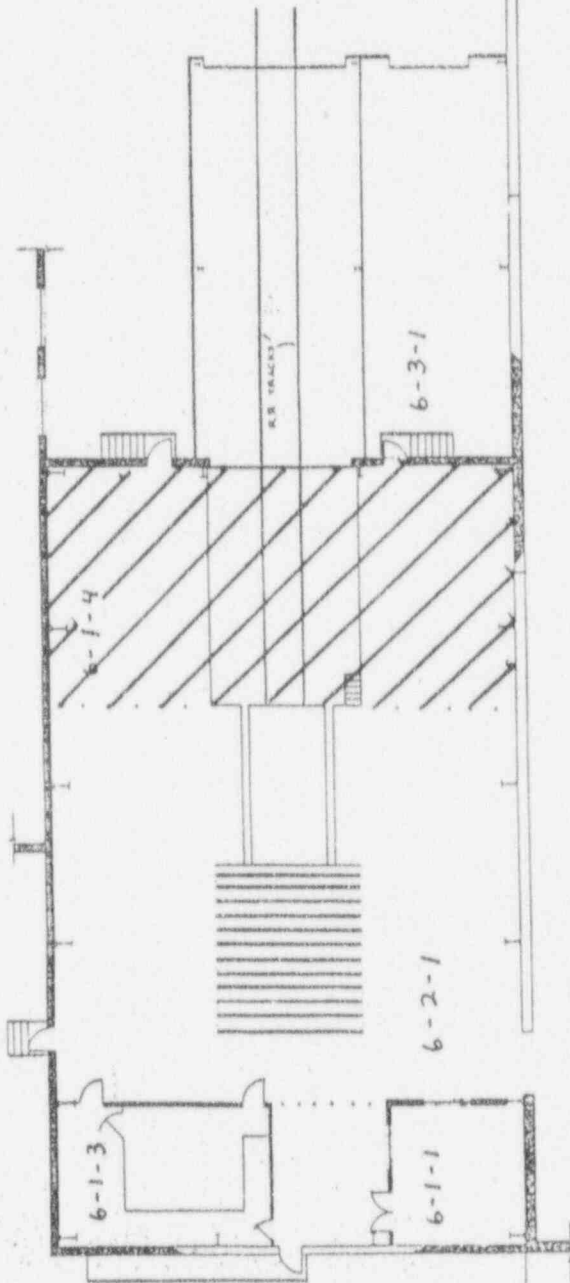
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-1-4 tops of ventilation, GIB crane

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 10:53
5	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 10:53
6	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 10:54
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 10:54
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 10:55

North ←



MATCH LINE
SEE JN-010
BUILDING REF LINE
SEE JN-010

NO.	REV.	DATE	DESCRIPTION	BY	CHKD.	APP'D.

NO.	REV.	DATE	DESCRIPTION	BY	CHKD.	APP'D.

LEGEND

- BRICK
- CONCRETE
- CONCRETE BLOCK
- CONCRETE BLOCK INF.
- CEILING
- CEILING & PANELING
- SCALE: FEET

PARTS LIST

NO.	REV.	DATE	DESCRIPTION	BY	CHKD.	APP'D.

DESCRIPTION

Wastegonair Advanced Energy Systems Building
FIRST FLOOR
BUILDING NO. CA
WASD LARG E PA

DATE: 11-14-83
DRAWN: D 14683
CHECKED: JN-012
SCALE: AS SHOWN

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	0	*	ESP2:1595-L	31.3	3.20	134
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/6/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N			
	EFF	C.F.	BKG	
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Inside ventilation	West wall	#3	N/A	N/A	194	170	.999	150	-0.149	9.39	Vents are numbered from
ducts	East wall	#5	"	"	157	120	.999	152	-0.149	-2.82	left to right.
"	East wall	#6	"	"	143	110	0	126	-0.149	9.39	

FORM SERIAL #: 6-018 (Survey Section - Sequential survey #)	LOCATION # 6-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0128	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060104V.XLD
 Batch Ended: 1/6/93 10:52
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

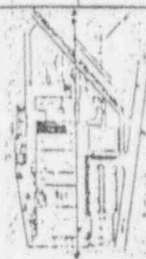
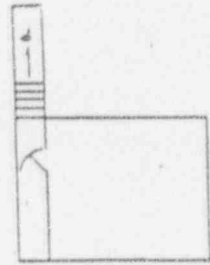
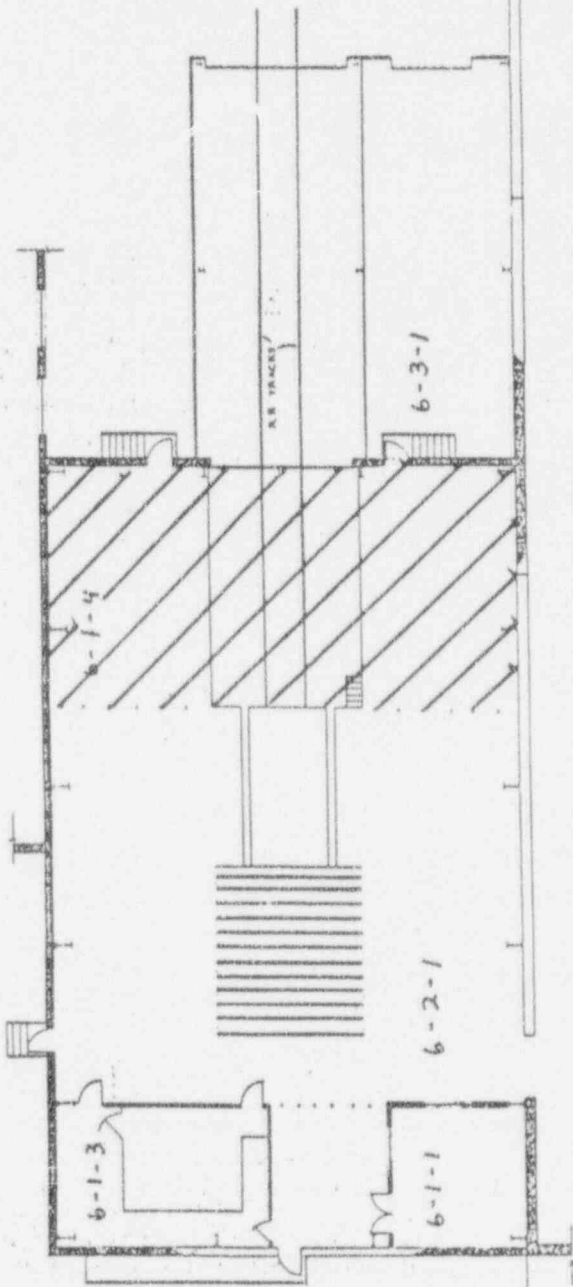
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - Inside ventilation Bldg 6A 6-1-4

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/6/93 10:51
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 10:52
3	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/6/93 10:52

North
←



LEGEND
 BRICK
 CONCRETE
 COMB BLOCK EXT
 COMB BLOCK INT
 DRYWALL & PARTITION
 SCALE: FEET
 0 5 10 15 20 25

PARTS LIST

QTY	DESCRIPTION	UNIT
1	WELDED WIRE MESH	SQ YD
1	REINFORCING - NO NET SCALE	LB
1	CONCRETE	CY
1	BRICK	1000
1	COMB BLOCK	SQ YD
1	DRYWALL	SQ YD
1	PARTITION	SQ YD

PROJECT: Rectangular Advance (Energy) Systems Division
 DRAWING NO: JN-012
 DATE: 14L 83
 SCALE: AS SHOWN
 SHEET: 1 OF 2

D C B A

1 2 3 4 5 6 7 8

MATCH LINE
 SEE JN 030
 STEEL JOIST
 MATCH LINE

MATCH LINE

LB5100W Low Background Counting System – Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060101L.XLD
 Batch Ended: 1/28/93 14:54
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

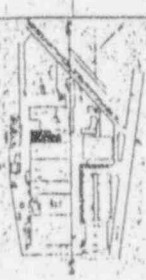
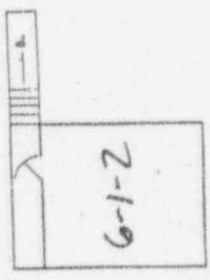
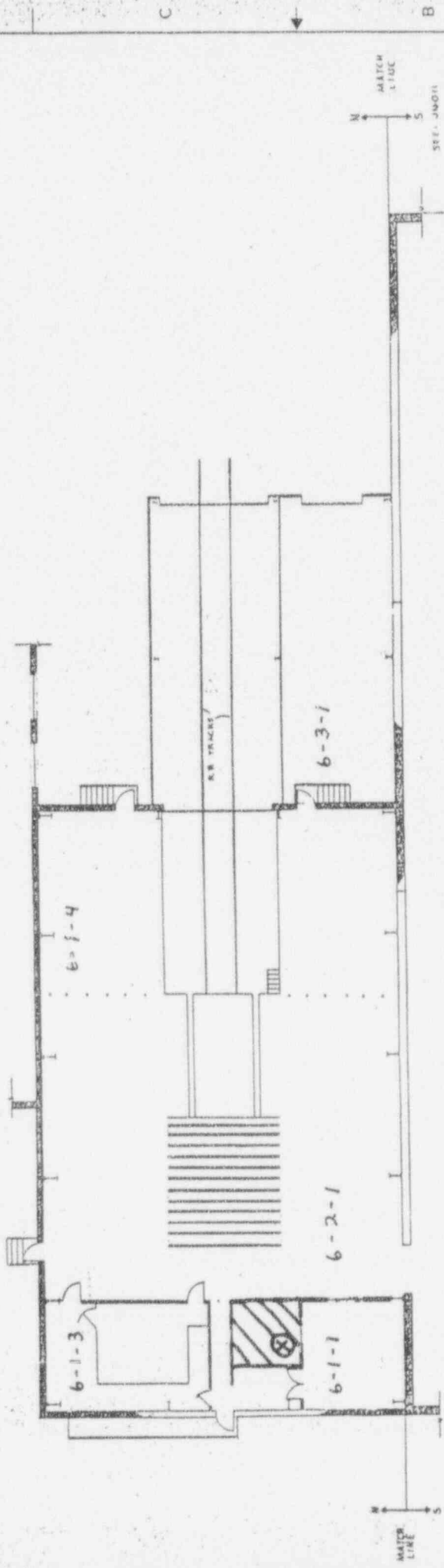
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: LJS UNDER ENVIRONMENTAL CHAMBER

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 14:54

KEY - ⊗ = survey point location
 ▨ = Environmental Test Chamber

North ←



MATCH LINE
 SEE JN-011
 BUILDING REF LINE
 SEE JN-050

LEGEND

- BRICK
- CONCRETE
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE FEET

0 5 10 15 20 25

PARTS LIST

QTY	NO	DESCRIPTION	MANUFACTURER'S NO.	QTY	NO	DESCRIPTION	MANUFACTURER'S NO.
		UNLESS OTHERWISE SPECIFIED					
		CONCRETE BLOCK EXT					
		CONCRETE BLOCK INT					
		DRYWALL & PANELING					

PROJECT INFORMATION

PROJECT NO. JN-011
 SHEET NO. 1
 DATE: 14683
 DRAWN BY: JN-012
 CHECKED BY: A

1 2 3 4 5 6 7 8

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060104L.XLD
 Batch Ended: 1/28/93 14:56
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: LJS UNDER ENVIRONMENTAL CHAMBER

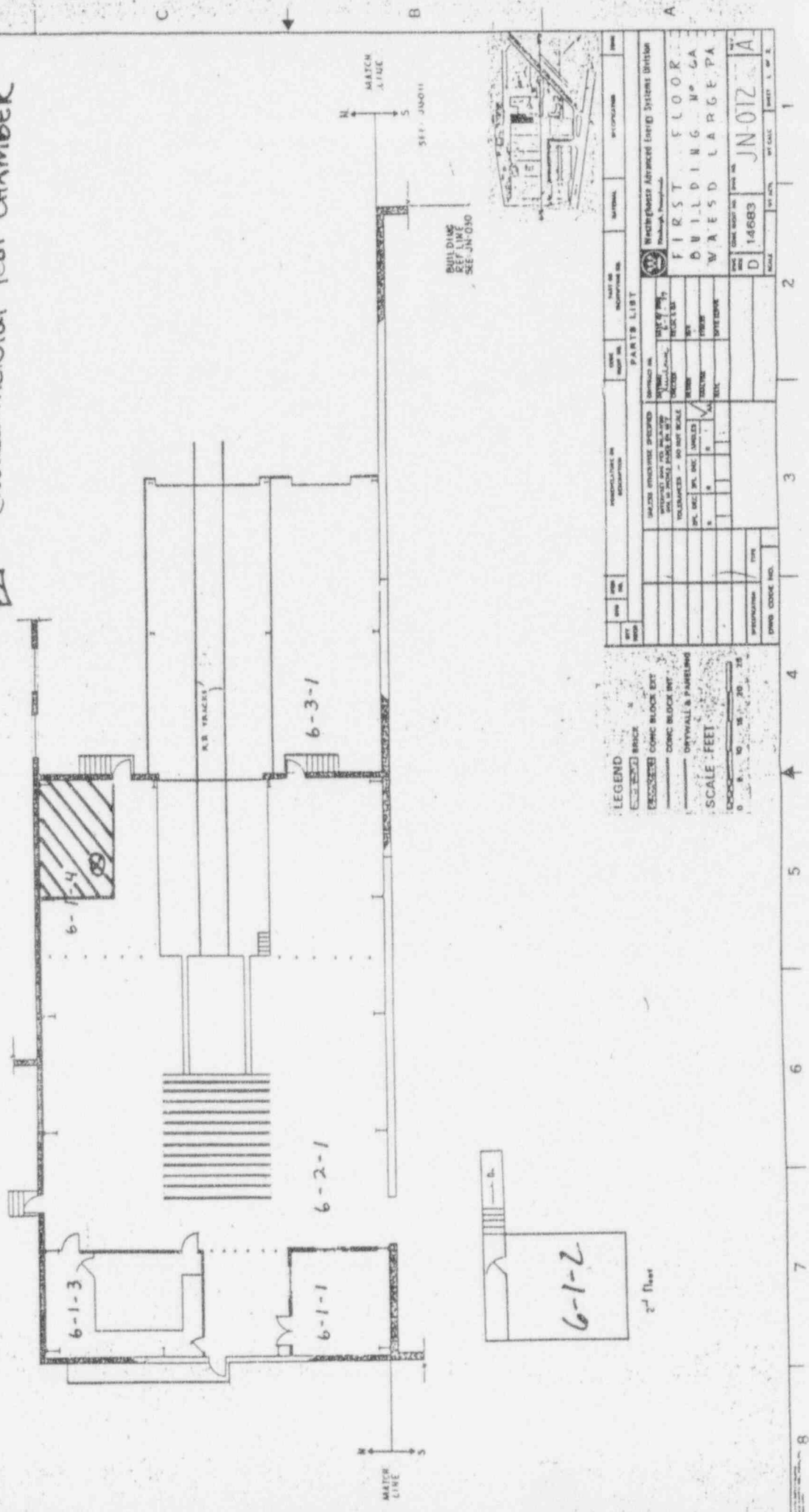
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
2	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/28/93 14:56

North ←

KEY

⊗ = Soney point location

▨ = ENVIRONMENTAL TEST CHAMBER



LEGEND
 CONCRETE BRICK
 EXPOSED CONCRETE BLOCK EXT
 CONCRETE BLOCK INT
 GYPSUM & PAINTING
 SCALE: FEET
 0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHK

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

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NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR SURVEY UNIT 2

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
	ESP2:1517-L	21.7	4.60			ESP2:1595-L	31.3	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	65	*	FLMON:91943	30.3%	3.3	1205

SURVEY DATE: 12/29/92
COUNT DATE: 12/29/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.012 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	2, -2	N/A	9	.017	1275	1225	69	1221	-0.149	9.03	
"	4, -2	"	9.5	.010	1150	1125	51	1239	-0.149	3.10	
"	6, -2	"	8	.018	1150	1125	63	1071	-0.149	3.28	
"	8, -2	"	7	.016	1125	1100	62	1184	-0.149	3.10	
"	10, -2	"	7	.010	1125	1075	52	1073	-0.149	3.28	
"	12, -2	"	8	.020	1200	1150	47	1106	-0.149	3.28	
"	14, -2	"	7	.017	1100	1050	48	1123	-0.149	-2.82	
"	14, -4	"	8	.015	1200	1175	64	1256	-0.149	-2.82	
"	12, -6	"	7	.021	1175	1125	52	1055	-0.149	-2.82	
"	12, -8	"	6	.010	1274	1200	60	1349	-0.149	-2.82	
"	14, -8	"	7	.010	1175	1125	47	1142	8.048	9.39	
"	14, -6	"	8	.013	1225	1200	54	1120	-0.149	-2.82	
"	10, -8	"	5	.011	1100	1050	48	1018	-0.149	-2.82	
"	8, -8	"	5	.015	975	900	47	892	-0.149	-2.82	
"	12, -10	"	6	.014	1200	1125	71	1086	-0.149	3.28	

FORM SERIAL #: 6-003 (Survey Section - Sequential survey #)	LOCATION # 6-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0106	SURVEYOR SIGNATURE: L.B./L.S. <i>[Signature]</i>
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DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
	ESP2:1517-L	21.7	4.60			ESP2:1595-L	31.3	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	65	*	FLMON:91943	30.3%	3.7	1205

SURVEY DATE: 12/29/92
COUNT DATE: 12/29/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.012 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
					Floor	14, -12	N/A	8	.018	1225	
"	12, -12	"	8	.013	1250	1200	44	1220	-0.149	9.03	
"	12, -14	"	9	.017	1150	1100	53	1208	-0.149	-2.82	
"	14, -14	"	9	.017	1200	1150	54	1229	-0.149	-2.82	
"	6, -14	"	7	.010	1264	1190	54	1260	-0.149	-2.82	
"	2, -4	"	6	.014	1150	1100	60	1103	-0.149	9.39	
"	4, -4	"	7	.010	1150	1100	43	1246	-0.149	-2.82	
"	2, -6	"	9	.015	1300	1250	63	1215	-0.149	3.28	
"	2, -8	"	8	.010	1325	1250	60	1121	-0.149	-2.82	
"	2, -10	"	9	.015	1125	1050	48	1156	-0.149	-2.82	
"	2, -12	"	8	.010	1250	1175	46	1116	8.048	-2.82	
"	2, -14	"	10	.010	1375	1250	43	1293	-0.149	-2.82	

FORM SERIAL #: 6-003 (Survey Section - Sequential survey #)	LOCATION # 6-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0107	SURVEYOR SIGNATURE: T.B./L.S. <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/29/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060201FL_XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - floor of 6-2-1

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
8	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/29/92 10:48
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:48
10	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/29/92 10:49
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 10:49
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/29/92 10:50
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 10:50
14	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 10:51
15	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/29/92 10:51
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/29/92 10:52
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:52
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:53
19	-0.149	1.36	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/29/92 10:53
20	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 10:54
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:54
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:55
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/29/92 10:55
24	8.048	8.31	At AL	27.98	9.39	9.60	<MDA	35.93	0.33	2.975	4.66	12/29/92 10:56
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:56
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:57
27	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 10:57
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:58
29	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/29/92 10:58
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/29/92 10:58
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:58
32	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 11:00

*TSB
12-30-92
Surveys
NOT
complete*

LB5100W Low Background Counting System – Smear Analysis

Date: 12/29/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060201FL.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - floor of 6-2-1

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
33	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 11:00
34	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 11:01
35	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 11:01
36	-0.149	1.35	<MDA	27.24	-2.82	4.19	<MDA	35.16	0.34	-0.055	-1.40	12/29/92 11:02
37	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 11:02
38	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 11:03
39	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 11:03
40	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 11:04
41	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/29/92 11:05
42	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 11:05
43	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 11:06

*TSB
 3/12-2009
 Survey
 Not
 complete*

LB5100W Low Background Counting System – Smear Analysis

Date: 1/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060201W.XLD
 Batch Ended: 1/4/93 7:39
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - walls to 2m of 6-2-1

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:36
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:37
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:37
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:38
31	7.807	8.07	At AL	27.24	3.10	7.22	<MDA	35.16	0.34	2.886	1.54	1/4/93 7:38
32	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:39
33	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/4/93 7:39

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	0	*	ESP2:1595-L	31.3	3.20	134
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/6/93
COUNT DATE: 12/29/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	9 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ventilation grates	N/A	#4	N/A	.01	N/A	N/A	N/A	N/A	-0.149	9.39	Inside grate only
West Wall	"	5	"	.02	227	158	2"	133	-0.149	-2.82	"
"	"	6	"	.01	N/A	N/A	N/A	N/A	-0.149	3.28	"
"	"	7	"	.01	"	"	"	"	-0.149	-2.82	"
Ventilation grates	"	2	"	.01	"	"	"	"	-0.149	-2.82	"
East Wall	"	3	"	.01	154	140	2	117	8.048	-2.82	"
"	"	4	"	.01	N/A	N/A	N/A	N/A	-0.149	-2.82	"

FORM SERIAL #: 6-011 (Survey Section - Sequential survey #)	LOCATION # 6-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0119	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/29/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060201V.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

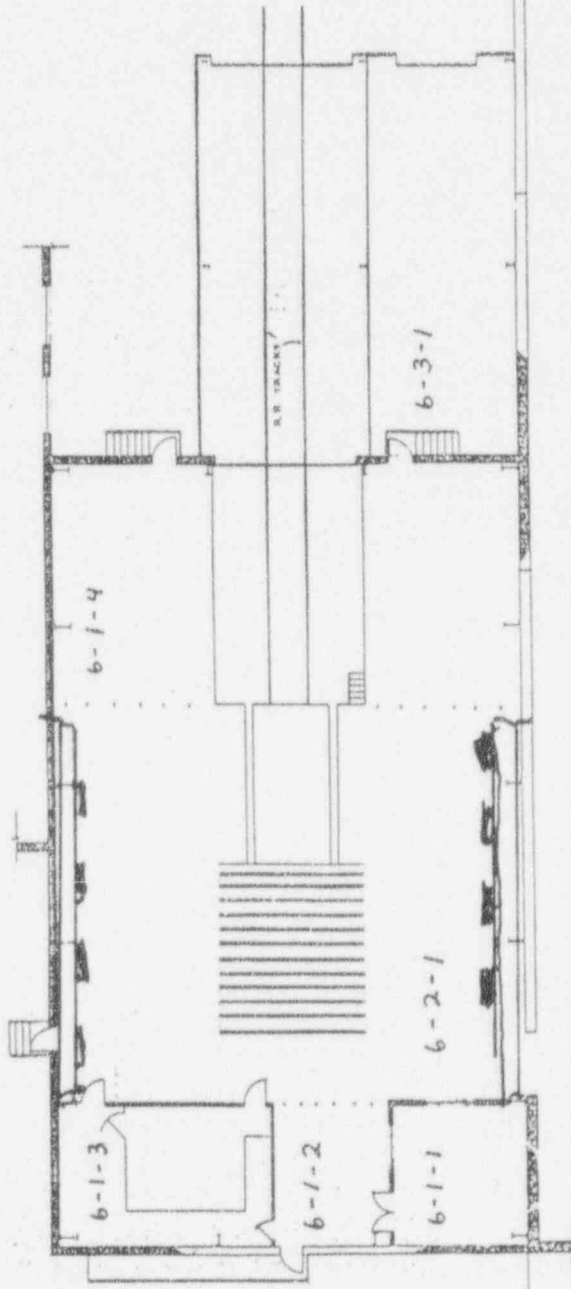
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - Ventilation grates

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/29/92 10:44
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:45
3	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/29/92 10:45
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:46
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/29/92 10:46
6	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	12/29/92 10:47
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/29/92 10:47

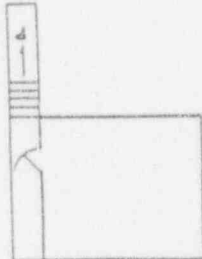
North
←



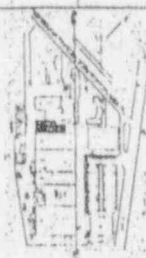
MATCH LINE

MATCH LINE

SEE J4001
BUILDING
2 FT LINE
S-E JN 030



2nd Floor



LEGEND
 P-THICK
 1/4" BLOCK EXT
 1/2" BLOCK INT
 CONG BLOCK INT
 DRYWALL & PARELING
 SCALE - FEET
 0 5 10 15 20 25

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS - DO NOT SCALE
 DIMENSIONS - DO NOT SCALE
 DIMENSIONS - DO NOT SCALE
 DIMENSIONS - DO NOT SCALE

PARTS LIST

W
 Westchester Advanced Energy Systems Division
 Pittsburgh, Pennsylvania
 FIRST FLOOR
 BUILDING NO. GA
 WAESD LARG FPA
 DATE: 01/01/00
 DRAWN BY: JN-012
 CHECKED BY: A

1 2 3 4 5 6 7 8

DECOMMISSIONING FIELD DATA SHEET


(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	2	*	ESP2:1595-L	31.3	3.20	90
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/5/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
On top of west wall	N/A	#4	N/A	N/A	132	90	2	80	-0.149	3.28	Outside surfaces of ventilation ducts (Note: Vents numbered from left to right)
ventilation ducts	"	#5	"	"	107	90	3	76	-0.149	-2.82	
"	"	#6	"	"	110	70	0	72	-0.149	-2.82	
"	"	#7	"	"	170	110	2	85	-0.149	-2.82	
On top of east wall	"	#3	"	"	134	90	3	100	-0.149	-2.82	"
ventilation ducts	"	#2	"	"	174	120	3	89	-0.149	15.49	"
"	"	#4	"	"	92	80	0	92	-0.149	-2.82	"
Beam on east wall	"	12, -6.7	"	"	90	50	0	69	-0.149	9.03	

FORM SERIAL #: 6-012 (Survey Section - Sequential survey #)	LOCATION # 6-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0120	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060201VT.XLD
 Batch Ended: 1/6/93 8:30
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

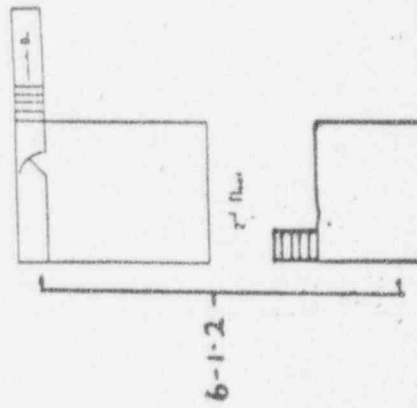
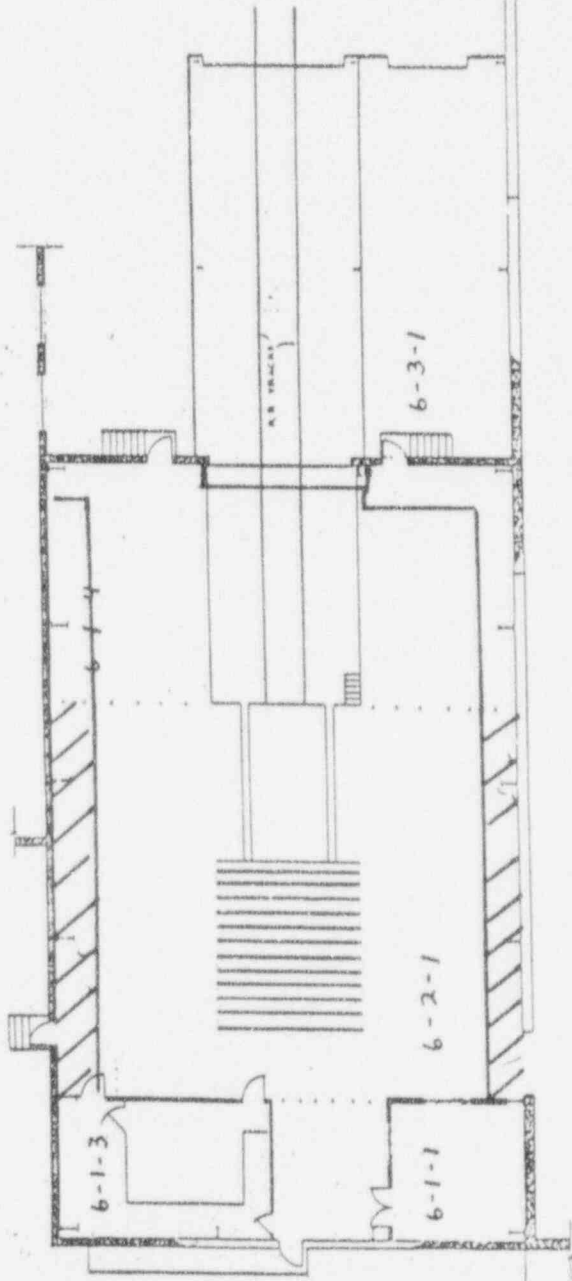
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - ventilation top surface 6-2-1

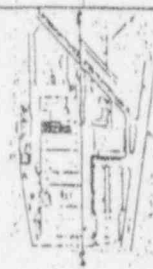
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:26
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:27
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:27
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 8:28
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:28
6	-0.149	1.37	<MDA	27.98	15.49	11.38	<AL	35.93	0.33	-0.055	7.69	1/6/93 8:29
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:29
8	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/6/93 8:30

North
←



N
MATCH LINE
5

SEE JN-011
BUILDING REF LINES SEE JN-010



LEGEND

- CONCRETE BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PARTING

SCALE FEET
0 5 10 15 20 25

REV	DATE	BY	CHK	DESCRIPTION

PARTS LIST

QTY	DESCRIPTION	UNIT

MAILED DRAWINGS PROVIDED
BY ARCHITECT FOR THE
OWNER'S RECORD
REVISIONS - SEE REV. SHEET

NO.	DESCRIPTION	DATE

DATE PLOTTED: 11/11/75
DRAWN BY: JN
CHECKED BY: JN
PROJECT NO.: 14693
JOB NO.: JN-012
SHEET NO.: 1 OF 3

Wichita State University (WSU) Student Center
FIRST FLOOR
BUILDING 6-1-1
WASD LARGE 7A

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	.999	*	ESP2:1595-L	31.3	3.20	152
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/5/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS WIND. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Crane - Trolley	N/A	N/A	N/A	N/A	168	100	.999	530	-0.149	-2.82	
Crane - Carriage 1	"	"	"	"	123	90	2.0	366	-0.149	-2.82	
" 2	"	"	"	"	130	80	.999	79	-0.149	-2.82	
" 3	"	"	"	"	112	90	3.0	68	-0.149	3.28	
" 4	"	"	"	"	135	90	2.0	78	-0.149	-2.82	
" 5	"	"	"	"	149	120	2.0	98	-0.149	-2.82	
" 6	"	"	"	"	144	100	2.0	93	-0.149	-2.82	
" 7	"	"	"	"	192	140	.999	89	-0.149	9.39	

FORM SERIAL #: 6-013 (Survey Section - Sequential survey #)	LOCATION # 6-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0121	SURVEYOR SIGNATURE: <i>M. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\CRANE6A.XLD
 Batch Ended: 1/6/93 7:50
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

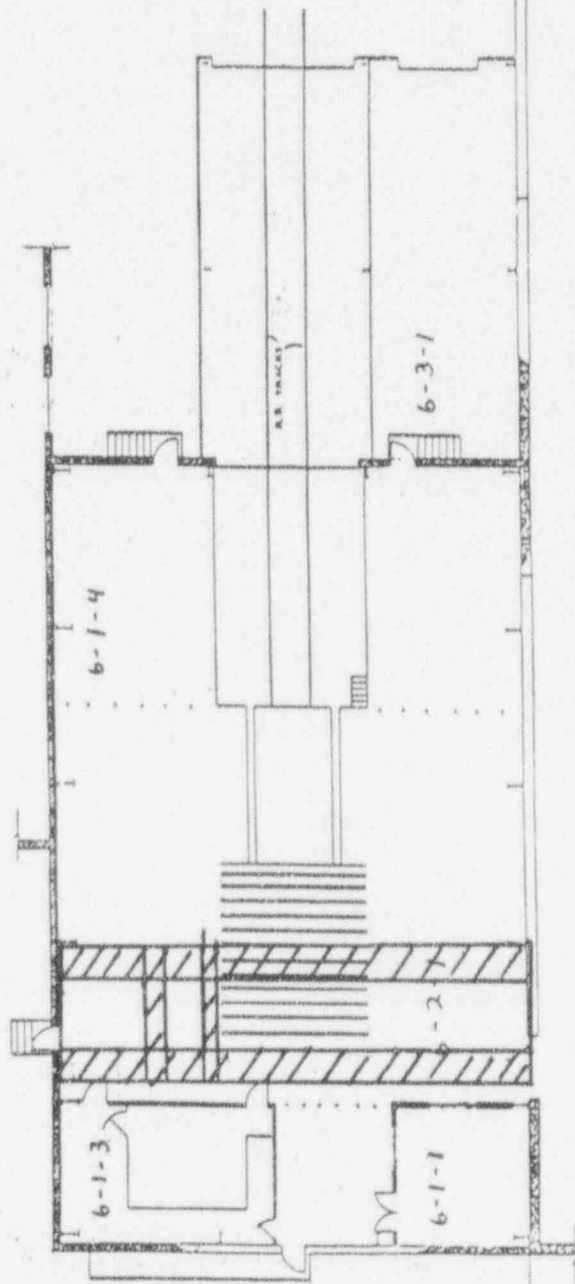
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - Crane in 6A sub-unit 6-2-1

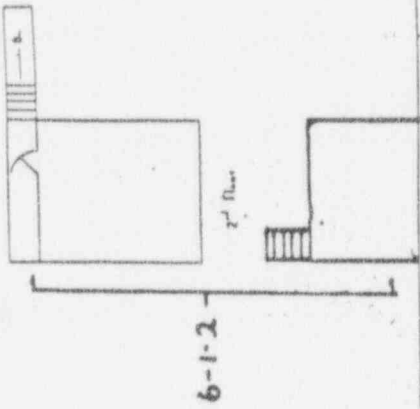
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:46
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:47
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:47
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 7:48
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/6/93 7:48
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:49
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 7:49
8	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/6/93 7:50

North
←



MATCH LINE
SEE J44014

BUILDING REFERENCE
SET JN-010



NO.	DESCRIPTION	QTY	UNIT	REMARKS
PARTS LIST				
1	WOOD ANCHORS PROVIDED			
2	WOOD ANCHORS PROVIDED			
3	WOOD ANCHORS PROVIDED			
4	WOOD ANCHORS PROVIDED			
5	WOOD ANCHORS PROVIDED			
6	WOOD ANCHORS PROVIDED			
7	WOOD ANCHORS PROVIDED			
8	WOOD ANCHORS PROVIDED			
9	WOOD ANCHORS PROVIDED			
10	WOOD ANCHORS PROVIDED			
11	WOOD ANCHORS PROVIDED			
12	WOOD ANCHORS PROVIDED			
13	WOOD ANCHORS PROVIDED			
14	WOOD ANCHORS PROVIDED			
15	WOOD ANCHORS PROVIDED			
16	WOOD ANCHORS PROVIDED			
17	WOOD ANCHORS PROVIDED			
18	WOOD ANCHORS PROVIDED			
19	WOOD ANCHORS PROVIDED			
20	WOOD ANCHORS PROVIDED			

Weldmaster Abrasive (erg) Systems Division
FIRST FLOOR
BUILDING N° GA
WASD LARGE PA

PROJECT NO. 14683
JOB NO. JN-012
SHEET 1 OF 2

LEGEND
[Symbol] BRICK
[Symbol] CONCRETE
[Symbol] COMB BLOCK EXT
[Symbol] COMB BLOCK INT
[Symbol] DRYWALL & PANELING
SCALE: FEET
0 1 2 3 4 5 6 7 8

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	.999	*	ESP2:1595-L	31.3	3.20	152
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/5/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Roof Trusses	2, -6	N/A	N/A	N/A	147	90	.999	259	-0.149	-2.82	
"	4, -6	"	"	"	111	80	3.0	93	-0.149	3.28	
"	6, -6	"	"	"	107	90	.999	180	-0.149	3.10	
"	8, -6	"	"	"	118	80	5.0	84	-0.149	-2.82	
"	10, -6	"	"	"	135	80	6.0	86	-0.149	3.10	
"	12, -6	"	"	"	139	90	3.0	105	-0.149	15.49	
"	14, -6	"	"	"	148	95	2.0	97	-0.149	-2.82	
"	2, -12	"	"	"	109	90	3.0	88	-0.149	-2.82	
"	4, -12	"	"	"	107	90	4.0	71	-0.149	3.28	
"	6, -12	"	"	"	101	70	2.0	100	-0.149	-2.82	
"	8, -12	"	"	"	156	120	3.0	63	-0.149	-2.82	
"	10, -12	"	"	"	99	80	2.0	66	-0.149	-2.82	
"	12, -12	"	"	"	133	95	0	59	-0.149	-2.82	
"	14, -12	"	"	"	194	100	.999	63	-0.149	-2.82	

FORM SERIAL #: 6-015 (Survey Section - Sequential survey #)	LOCATION # 6-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0124	SURVEYOR SIGNATURE: <i>M. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/6/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060201UP.XLD
 Batch Ended: 1/6/93 8:10
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210.ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137.ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-2-1 roof trusses

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
34	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:03
35	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:03
36	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/6/93 8:04
37	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:05
38	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/6/93 8:05
39	-0.149	1.37	<MDA	27.98	15.49	11.38	<AL	35.93	0.33	-0.055	7.69	1/6/93 8:06
40	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:06
41	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:07
42	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/6/93 8:07
43	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:08
44	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:08
45	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:09
46	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:09
47	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/6/93 8:10

LB5100W Low Background Counting System – Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060201L_XLD
 Batch Ended: 1/28/93 14:58
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

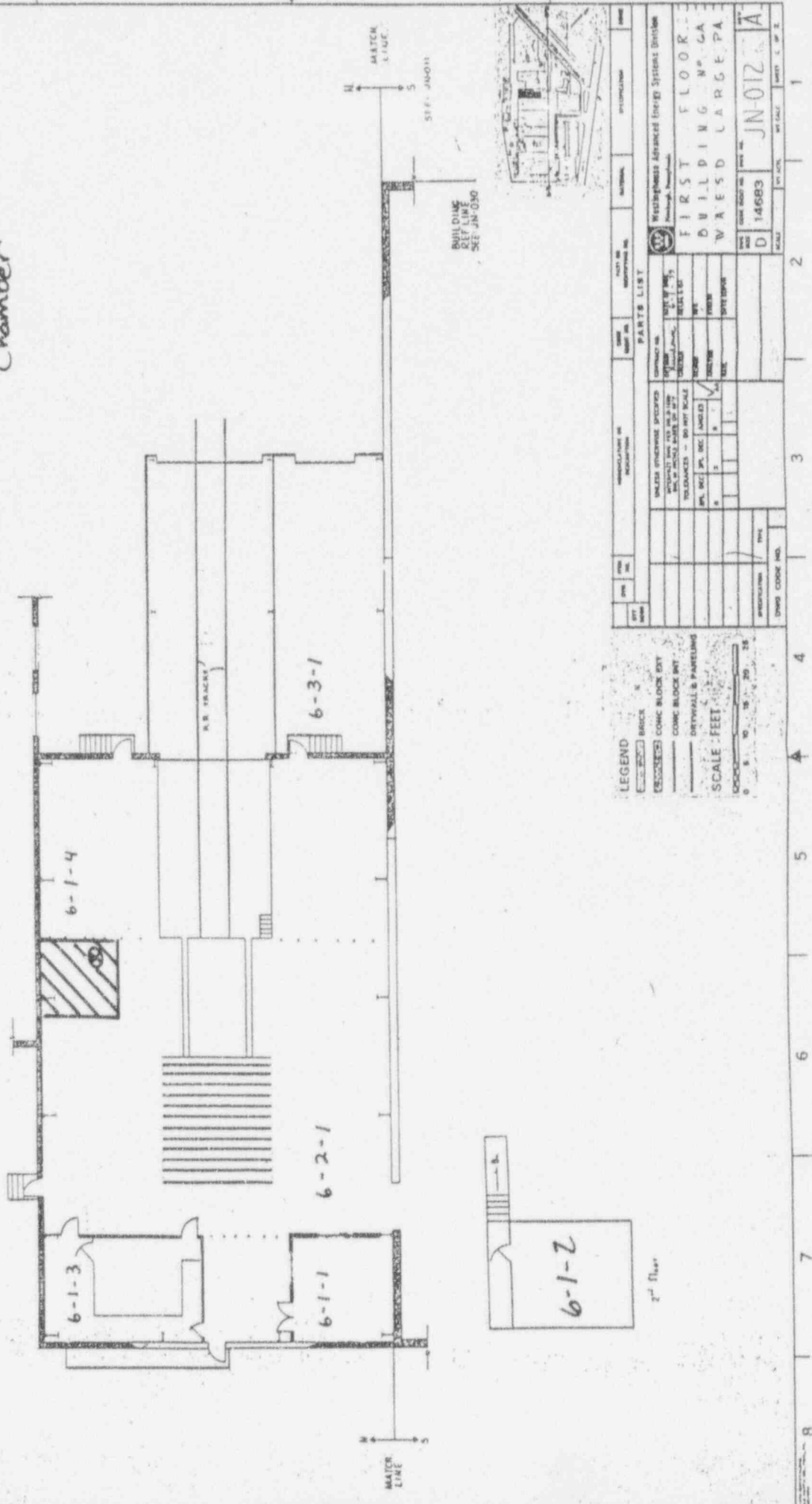
Batch ID: LJS UNDER ENVIRONMENTAL CHAMBER

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TGD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
3	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.30	-0.055	4.66	1/28/93 14:58

KEY

⊗ = Survey point location
▨ = ENVIRONMENTAL TEST Chamber

North
←



LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PARTITION

SCALE - FEET

0 5 10 15 20 25

PARTS LIST

QTY	DESCRIPTION	UNIT	AMOUNT	DATE
	WALZEL STRUCTURE SPECIFIED			
	CONCRETE BLOCK EXT			
	CONCRETE BLOCK INT			
	DRYWALL & PARTITION			

WESTINGHOUSE Advanced Energy Systems Division
FIRST FLOOR
BUILDING N° GA
WRES D LARG E PA

DATE: 14683
DRAWING NO: JN-012
SCALE: 1/8" = 1'-0"

APPENDIX C

RADIOLOGICAL SURVEY DATA SHEETS FOR SURVEY UNIT 3

DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1	4.74			ESP2:1595	34.2	2.92	
*	ESP2:1517-L	21.7	4.60	0	*	ESP2:1595-L	31.3	3.20	150
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	53	*	FLMON:91943	30.3%	3.3	1502

SURVEY DATE: 1/5/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	8.0 uR/hr
*	E520: 5242	.01 mR/hr
	E520: 5245	mR/hr
	ESP2: 1522	mR/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 265	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Painted Concrete	N/A	8, -2	8	.01	1520	1450	75	1471	-0.149	-2.82	Floor Monitor used for scans and 1 min counts
Floor	"	8, -4	8	.01	1668	1500	47	1411	-0.149	-2.82	
"	"	8, -6	8	.01	1597	1400	41	1408	-0.149	-2.82	"
"	"	8, -8	8	.01	1468	1400	59	1434	-0.149	9.39	"
"	"	8, -10	8	.01	1552	1475	50	1358	-0.149	3.10	"
"	"	8, -12	8	.01	1647	1500	51	1360	-0.149	-2.82	"
"	"	8, -14	8	.01	1533	1475	73	1403	-0.149	-2.82	"
"	"	10, -14	8	.01	1712	1575	60	1477	-0.149	3.28	"
"	"	10, -12	8	.01	1497	1400	67	1369	-0.149	-2.82	"
"	"	10, -10	8	.01	1731	1550	45	1482	-0.149	3.28	"
"	"	10, -8	8	.01	1538	1400	66	1457	-0.149	-2.82	"
"	"	10, -6	8	.01	1597	1350	68	1417	-0.149	-2.82	"
"	"	10, -4	8	.01	1403	1300	58	1416	-0.149	-2.82	"
"	"	10, -2	8	.01	1544	1500	53	1364	-0.149	3.28	"
"	"	6, -4	8	.01	1653	1550	53	1526	-0.149	-2.82	"

FORM SERIAL #: 6-014 (Survey Section - Sequential survey #)	LOCATION # 6-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0122	SURVEYOR SIGNATURE: T.S. <i>T. Shaffer</i>
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DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	150
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	53	*	FLMON:91943	30.3%	3.3	1502

SURVEY DATE: 1/5/93
COUNT DATE: 1/6/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	8 uR/hr
*	E520: 5242	.01 mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N			
	EFF	C.F.	BKG	
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Painted Concrete	N/A	4, -4	10	.01	1411	1300	60	1288	-0.149	-2.82	Floor monitor used for
Floor	"	4, -6	10	.01	1494	1350	62	1215	-0.149	-2.82	scans and 1 min counts
"	"	4, -8	10	.01	1381	1300	57	1188	-0.149	-2.82	"
"	"	2, -8	10	.01	1572	1400	58	1165	-0.149	-2.82	"
"	"	2, -6	10	.01	1465	1400	46	1279	-0.149	-2.82	"
"	"	2, -4	10	.01	1375	1275	59	1320	-0.149	-2.82	"
"	"	2, -2	10	.01	1408	1400	36	1248	-0.149	-2.82	"
North wall	"	2, -7.1	N/A	N/A	318	260	0	213	-0.149	-2.82	ESP's used for scans
"	"	12, -7.1	"	"	222	180	3	218	-0.149	-2.82	and 1 min counts
East wall weld shop	"	6, -7.1	"	"	187	120	.999	120	-0.149	3.28	"
West wall weld shop	"	6, -7.1	"	"	181	120	0	168	-0.149	3.28	"
"	"	10, -7.1	"	"	237	150	0	156	7.807	3.10	"
"	"	12, -7.1	"	"	253	160	0	169	-0.149	-2.82	"
"	"	14, -7.1	"	"	335	280	0	288	-0.149	3.28	"
East wall weld shop	"	8, -7.1	"	"	204	140	0	114	-0.149	-2.82	"

FORM SERIAL #: 6-014 (Survey Section - Sequential survey #)	LOCATION # 6-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0123	SURVEYOR SIGNATURE: T.S. <i>T. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060104P.XLD
 Batch Ended: 1/4/93 7:36
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

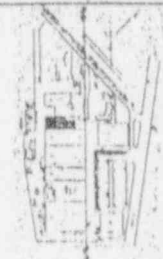
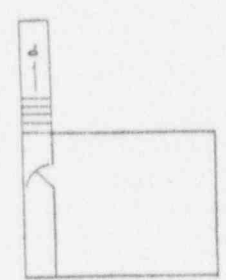
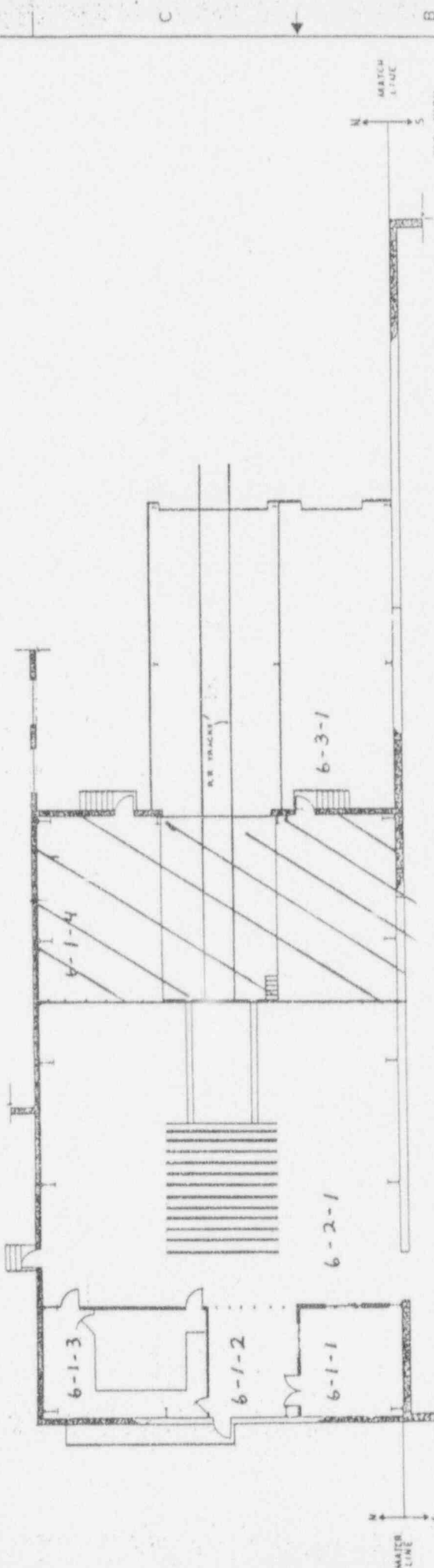
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - rail pit walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
11	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/4/93 7:28
12	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:29
13	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:29
14	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/4/93 7:30
15	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/4/93 7:30
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/4/93 7:31
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:31
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/4/93 7:32
19	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/4/93 7:32
20	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/4/93 7:33
21	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/4/93 7:33
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:34
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/4/93 7:34
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/4/93 7:35
25	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/4/93 7:35
26	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/4/93 7:36

North
←



LEGEND

- BRICK
- CONCRETE
- CONIC BLOCK EXT
- CONIC BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

PARTS LIST

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	BRICK		
2	CONCRETE		
3	CONIC BLOCK EXT		
4	CONIC BLOCK INT		
5	DRYWALL & PANELING		

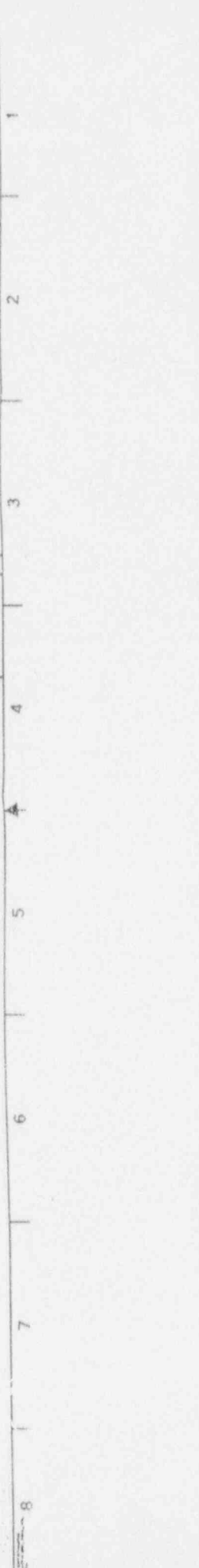
Architectural Advanced Energy Systems Division

FIRST FLOOR

DRILING N° GA

WRES LARGE PA

DATE: 11/14/83
DRAWN: JN01Z
SCALE: 1/8" = 1'-0"



DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	153
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					ES20: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			ES20: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/7/93
COUNT DATE: 1/7/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	8, -2	N/A	N/A	N/A	175	120	.999	145	-0.149	-2.82	RR tracks in high bay
"	10, -2	"	"	"	208	140	0	141	-0.149	-2.82	"
"	8, -4	"	"	"	158	120	.999	116	-0.149	-2.82	"
"	10, -4	"	"	"	189	140	4.0	132	-0.149	-2.82	"
"	8, -6	"	"	"	229	160	0	127	-0.149	3.10	"
"	10, -6	"	"	"	209	130	0	145	-0.149	3.10	"
"	8, -8	"	"	"	175	120	4.0	110	-0.149	9.03	"
"	10, -3	"	"	"	185	140	5.0	149	-0.149	-2.82	"
"	8, -10	"	"	"	172	100	0	144	-0.149	9.39	"
"	10, -10	"	"	"	146	100	3.0	118	-0.149	3.10	"
North wall	10, -1	"	"	"	315	280	0	280	-0.149	-2.82	"
"	8, -1	"	"	"	345	250	.999	285	-0.149	-2.82	"
I-Beam	8, -7	"	"	"	121	110	4.0	103	-0.149	-2.82	"
East wall	10, -1	"	"	"	199	150	.999	147	-0.149	3.28	"
Ceiling	10, -12	"	"	"	177	140	0	129	-0.149	-2.82	"

FORM SERIAL #: 6-021 (Survey Section - Sequential survey #)	LOCATION # 6-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0149	SURVEYOR SIGNATURE: <i>[Signature]</i>
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DECOMMISSIONING FIELD DATA SHEET

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	153
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/7/93
COUNT DATE: 1/7/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	8, -12	N/A	N/A	N/A	216	140	3.0	131	-0.149	3.10	RR Tracks in high bay
"	8, -14	"	"	"	202	140	0	163	-0.149	9.39	"
"	10, -14	"	"	"	321	280	.999	305	-0.149	9.03	"
Roll up door	8, -15	"	"	"	319	270	2.0	295	-0.149	-2.82	"
"	10, -15	"	"	"	294	280	0	208	-0.149	3.28	"
West wall	2, -1	"	"	"	328	290	.999	302	-0.149	-2.82	"
Over head	4, -4	"	"	"	193	148	.999	259	-0.149	-2.82	Welding shop
Crane rail west	12, -2	"	"	"	480	185	2.0	137	-0.149	3.28	"
"	10, -2	"	"	"	245	126	.999	126	7.807	-2.82	"
East-wall	6, -2	"	"	"	212	140	2.0	148	-0.149	5.24	"
"	8, -2	"	"	"	220	125	0	147	-0.149	-2.82	"
West wall	8, -2	"	"	"	306	205	0	220	-0.149	3.28	"
Crane	5, -11	"	"	"	166	100	0	102	-0.149	3.28	"
"	3, -11	"	"	"	157	104	.999	115	-0.149	-2.82	"
Roll up door	3, -15	"	"	"	141	98	.999	120	-0.149	-2.82	"

FORM SERIAL #: 6-021 (Survey Section - Sequential survey #)	LOCATION # 6-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0150	SURVEYOR SIGNATURE: <i>[Signature]</i>
--	--	--	--------------------------	--

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/7/93
 Counting Unit id: 1
 Data file name: C:\LBXG\UNIT1\060301UP.XLD
 Batch Ended: 1/7/93 15:06
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 85.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-3-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/7/93 14:51
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 14:51
8	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/7/93 14:52
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 14:52
10	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/7/93 14:53
11	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/7/93 14:53
12	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/7/93 14:54
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/7/93 14:54
14	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/7/93 14:55
15	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/7/93 14:55
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 14:56
17	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/7/93 14:56
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 14:57
19	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/7/93 14:57
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 14:58
21	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/7/93 14:58
22	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/7/93 14:59
23	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/7/93 14:59
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 15:00
25	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/7/93 15:00
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 15:01
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 15:01
28	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/7/93 15:02
29	7.807	8.07	AI AL	27.24	-2.82	4.13	<MDA	35.16	0.34	2.886	-1.40	1/7/93 15:02
30	-0.149	0.79	<MDA	10.65	5.24	4.70	<MDA	16.60	1.00	-0.055	2.60	1/7/93 15:04

LB5100W Low Background Counting System – Smear Analysis

Date: 1/7/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\060301UP.XLD
 Batch Ended: 1/7/93 15:06
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

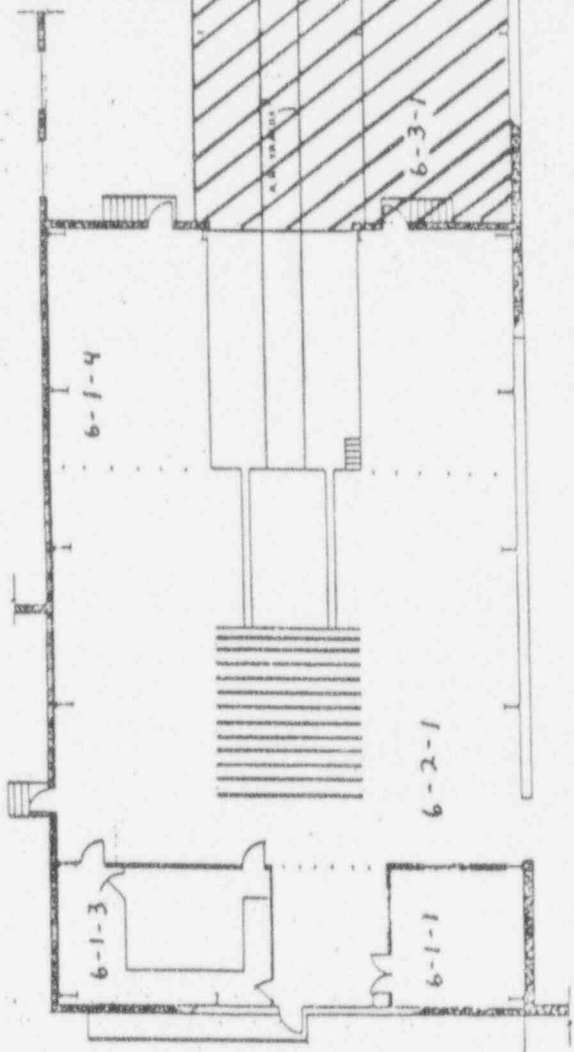
Alpha efficiency log file: pc210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 6-3-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 15:04
32	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/7/93 15:05
33	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/7/93 15:05
34	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 15:06
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/7/93 15:06

North
←



MASTER LINE
SEE JN-034

BUILDING
SEE JN-030



LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] GYPSUM & PARTITIONING
 SCALE: FEET
 0 6 12 18 24 30

NO.	DESCRIPTION	QTY	UNIT	REMARKS
PARTS LIST				
1	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
2	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
3	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
4	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
5	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
6	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
7	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
8	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
9	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
10	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
11	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
12	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
13	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
14	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
15	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
16	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
17	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
18	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
19	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
20	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
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22	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
23	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
24	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
25	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
26	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
27	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
28	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
29	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
30	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
31	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
32	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
33	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
34	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
35	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
36	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
37	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
38	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
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41	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
42	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
43	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
44	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
45	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
46	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
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52	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
53	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
54	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
55	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
56	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
57	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
58	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
59	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
60	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
61	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
62	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
63	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
64	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
65	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
66	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
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68	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
69	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
70	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
71	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
72	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
73	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
74	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
75	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
76	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
77	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
78	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
79	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
80	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
81	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
82	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
83	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
84	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
85	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
86	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
87	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
88	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
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90	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
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94	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
95	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
96	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
97	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
98	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	
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100	WOOD SHIMMER STUDS 2x4x8 - 16' LONG	100	EA	

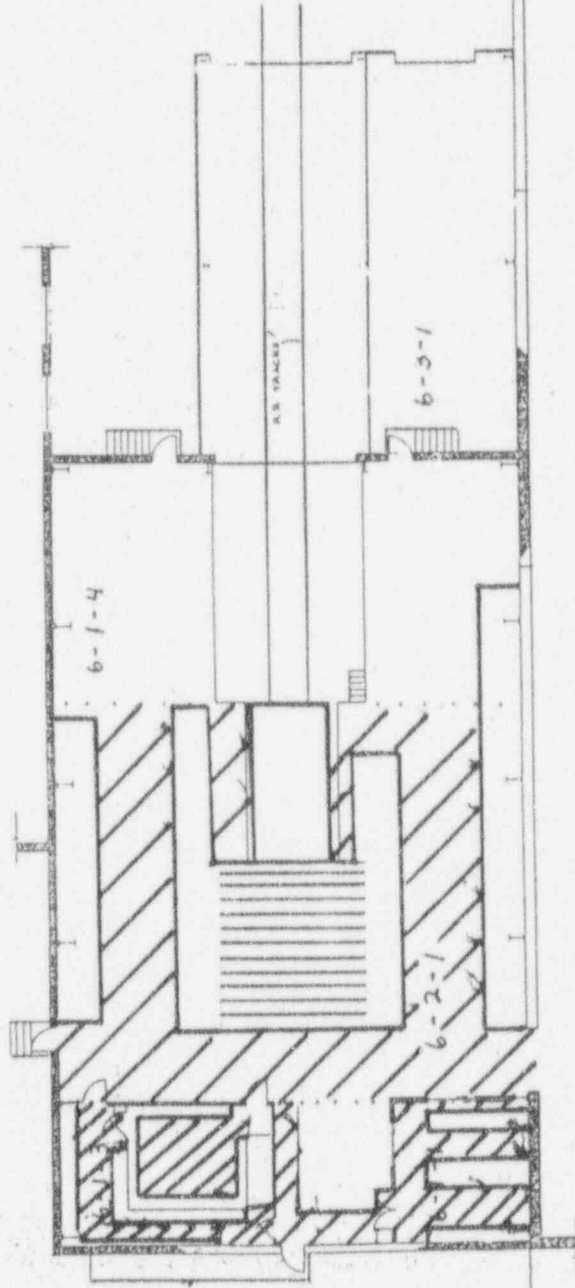
North Atlantic Building Systems Division
 FIRST FLOOR
 BUILDING NO. GA
 WAREHOUSE LARGE PA
 DRAWING NO. JN-012
 DATE 11-1-63
 SCALE 1/8" = 1'-0"

1 2 3 4 5 6 7 8

APPENDIX D

RADIOLOGICAL SURVEY DATA SHEETS FOR BETA SCANS OF FLOOR

North
←



2nd Floor

LEGEND

- ENCL. BRICK
- ESCAPEES CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PARELING

SCALE - FEET

REV	DATE	BY	CHK	DESCRIPTION
1				ISSUED FOR CONSTRUCTION

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	BRICK				
4	DRYWALL				
5	PAINT				
6	GLASS				
7	DOORS				
8	WINDOWS				
9	MECHANICAL				
10	ELECTRICAL				
11	PLUMBING				
12	FINISHES				
13	CONTINGENT				
14	TOTAL				

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	BRICK				
4	DRYWALL				
5	PAINT				
6	GLASS				
7	DOORS				
8	WINDOWS				
9	MECHANICAL				
10	ELECTRICAL				
11	PLUMBING				
12	FINISHES				
13	CONTINGENT				
14	TOTAL				

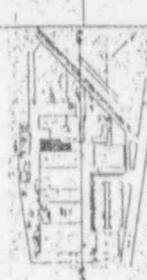
NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	BRICK				
4	DRYWALL				
5	PAINT				
6	GLASS				
7	DOORS				
8	WINDOWS				
9	MECHANICAL				
10	ELECTRICAL				
11	PLUMBING				
12	FINISHES				
13	CONTINGENT				
14	TOTAL				

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	BRICK				
4	DRYWALL				
5	PAINT				
6	GLASS				
7	DOORS				
8	WINDOWS				
9	MECHANICAL				
10	ELECTRICAL				
11	PLUMBING				
12	FINISHES				
13	CONTINGENT				
14	TOTAL				

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	BRICK				
4	DRYWALL				
5	PAINT				
6	GLASS				
7	DOORS				
8	WINDOWS				
9	MECHANICAL				
10	ELECTRICAL				
11	PLUMBING				
12	FINISHES				
13	CONTINGENT				
14	TOTAL				

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	BRICK				
4	DRYWALL				
5	PAINT				
6	GLASS				
7	DOORS				
8	WINDOWS				
9	MECHANICAL				
10	ELECTRICAL				
11	PLUMBING				
12	FINISHES				
13	CONTINGENT				
14	TOTAL				

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	BRICK				
4	DRYWALL				
5	PAINT				
6	GLASS				
7	DOORS				
8	WINDOWS				
9	MECHANICAL				
10	ELECTRICAL				
11	PLUMBING				
12	FINISHES				
13	CONTINGENT				
14	TOTAL				



BUILDING REF LINE SEE JN-010

SEE JN-011
MATCH LINE

A

Wastelphase Advanced Energy Systems Division
FIRST FLOOR
BUILDING NO. GA
W.A.E.S.D. LARGE PA

DATE: 10/1/68
DRAWN BY: D
CHECKED BY: JN-012
SCALE: AS SHOWN

1 2 3 4 5 6 7 8

IH & S FORM: SDS-REVO
 LARGE SITE 12/92

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	ESP-2	01595	34.2%		2.92
	ESP-2	01595-L	31.3		3.20
	ESP-2				
	ESP-2				

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	33.5		3.0
*	FLOOR MON.	91943	30.3	1220	3.3
	E-520	5242	20.3%		4.9
	E-520	5245	00%	00%	00%

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Painted Concrete	50%	1681	1325	6-1-4	IV	

REMARKS: SURVEY CLASSIFICATION (Group I, II, III, IV) (Install in column above)

LOCATION CODE DEFINED (Survey Sec - Unit - Subunit) (Install in column above)

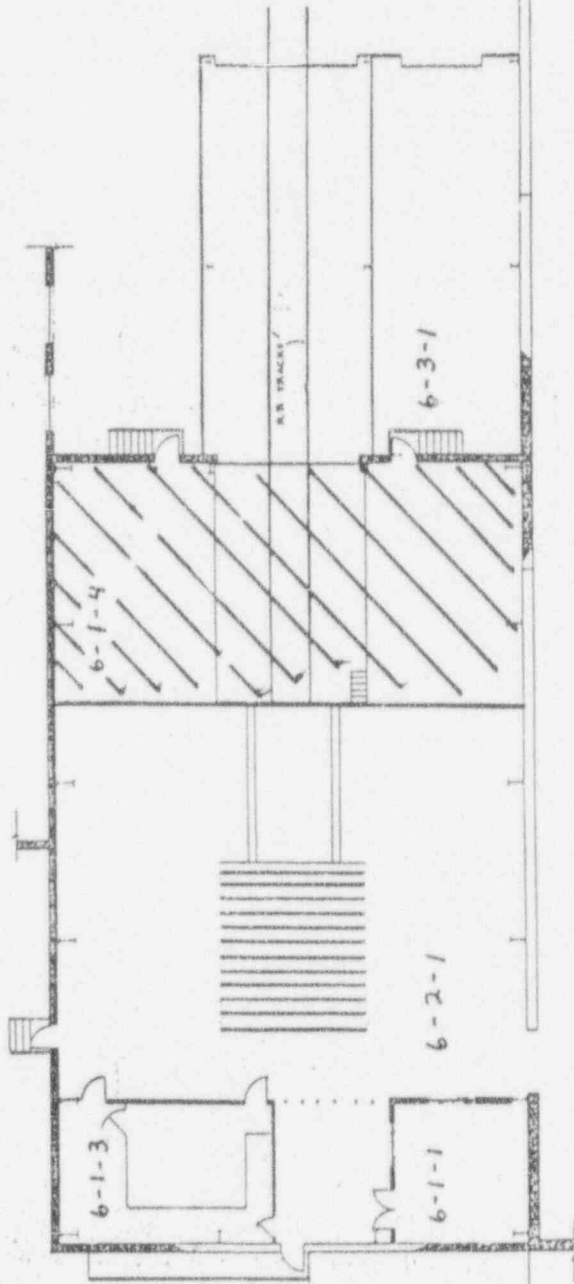
SURVEYOR: Terry Shafer
 SIGNATURE: *Terry Shafer*

FORM S/N: 6-008
 (Survey Section-Sequential #)

SURVEY DATE: 1/4/93

DISK FILE CODE: SDS-0013

North
←



MATCH
LINE

MATCH
LINE

BUILDING
REF LINE
SEE JN-030

SEE JN-031



LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE - FEET

0 5 10 15 20 25

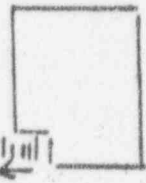
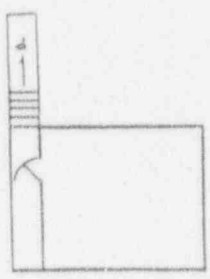
DATE	BY	DESCRIPTION	REV

PARTS LIST

QTY	DESCRIPTION	UNIT

W Westinghouse Advanced Energy Systems Division
FIRST FLOOR
BUILDING NO. GA
WASD LARGE PA

DATE: 14583
 DRAWING NO.: JN-012
 SHEET: 1 OF 2



8

7

6

5

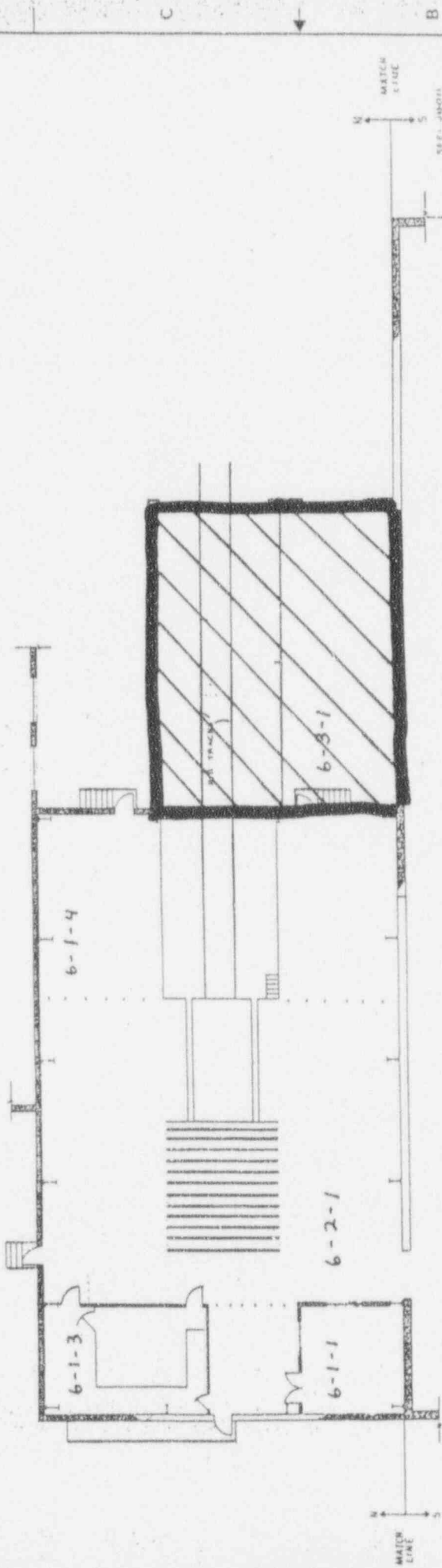
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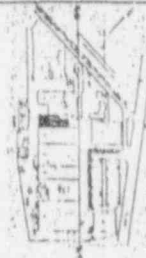
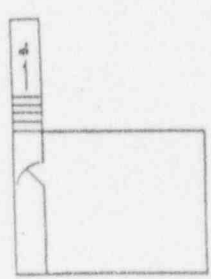
1

North
←



MATCH LINE

MATCH LINE
SEE JN-010



LEGEND
--- BRICK
--- CONCRETE BLOCK EXT
--- CONCRETE BLOCK INT
--- DRYWALL & PARTITIONING
SCALE: FEET
0 5 10 15 20 25

PARTS LIST

QTY	DESCRIPTION	UNIT	REMARKS
	UNLESS OTHERWISE SPECIFIED ALL MATERIALS SHALL BE AS SHOWN ON THIS DRAWING TELEPHONES - NO NOT SCALE DOOR WALL FLOOR CEILING ELECTRICAL		

WESTINGHOUSE ADVANCED Energy Systems Division
FIRST FLOOR
BUILDING NO GA
WAESD LARGE PA
DWG CODE NO. JN-012
DATE 14683

1 2 3 4 5 6 7 8

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE BASEMENT OF BUILDING NUMBER 4,
(SURVEY SECTION 14)

FEBRUARY 16, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #015

FINAL RADIOLOGICAL SURVEY
OF THE BASEMENT OF BUILDING NUMBER 4,
(SURVEY SECTION 14)

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Appendix C - Radiological Survey Data Sheets for Beta Scans of Floor	

FINAL RADIOLOGICAL SURVEY
OF THE BASEMENT OF BUILDING NUMBER 4,
(Survey Section 14)

Purpose

The Westinghouse Electric Corporation is preparing to request the termination of USNRC License Number SNM-951 for the site located in Large, PA. This report is one of a series of reports that presents the necessary information to establish that the site meets all applicable regulatory requirements so that the license can be terminated by the United States Nuclear Regulatory Commission.

Scope

This report documents the results of the final radiological survey of the basement of Building Number 4 on the Westinghouse Site in Large, PA. Included in the report is the original survey data sheets, the conversion of the results into units comparable with the acceptance criteria and a statistical analysis of the survey data in order to determine if the radiological acceptance criteria have been met at the desired degree of confidence. Report #009 defines the general information relative to the final radiological surveys of buildings under this program. Refer to that report for the following information:

- 1) Site Description
- 2) Radiological Acceptance Criteria
- 3) Survey Classification System
- 4) Classification of Building Area
- 5) Selection of Survey Instruments and Instrument Characterization
- 6) System for Identification of Survey Point Locations
- 7) Statistical Analysis of Survey Results
- 8) Survey Protocol

Survey information for the other floors of Building 4 will be documented in separate reports.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 4 on the site. Figure 2 presents the floor plan for the basement of the building. This floor has been designated as Survey Section 4. (See Report #009). In addition, the floor was subdivided into units and subunits as shown on Figure 2. Each area has been assigned a Survey Classification as defined in

Report #009. Historically, only two small areas were known to have involved the use of radioactive material; a health physics office and a laboratory. These areas are identified as Location Codes 14-2-1 and 14-2-2 on Figure 2. The back half of the building had not been used as far as was known. It was administratively decided however to designate the remaining areas as Class 3 rather than a lower classification.

Appendices A and B incorporate all of the radiological survey data sheets for each of the survey units. Tables 1 through 2 present the survey data for each of the survey units with all the results converted, as appropriate, to the units necessary for comparison against the radiological acceptance criteria. A statistical analysis is included at the end of each table to determine if the acceptance criteria have been met at the desired degree of confidence. Table 3 presents a summary of the statistical information.

Floor scans of portions of certain areas were also conducted. Appendix C contains the radiological data survey sheets for these floor scans. Table 4 presents the results of the floor scan data in units directly comparable with the applicable acceptance criteria.

Current Status

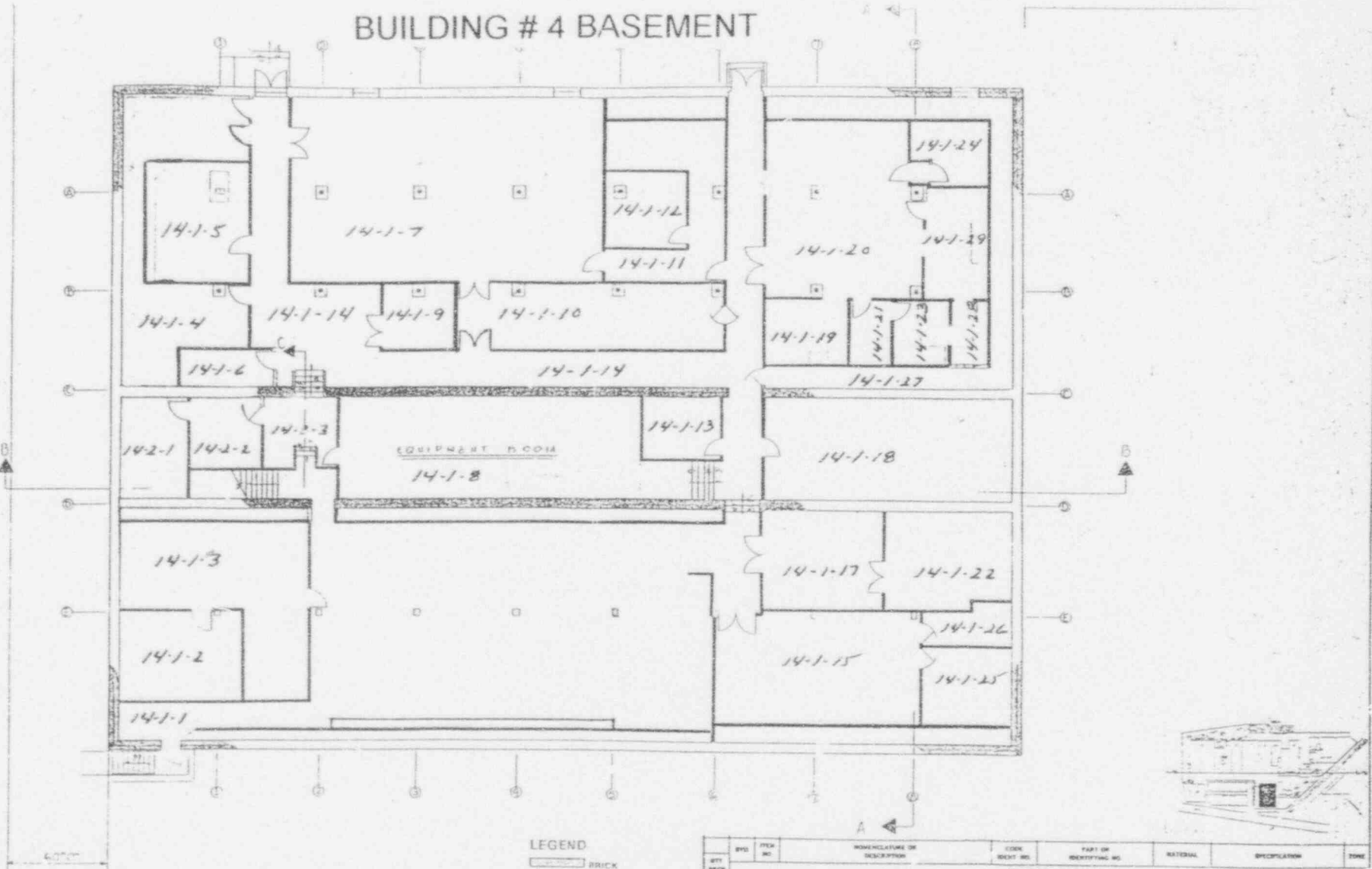
Building 4 is currently an occupied office building. The basement area is undergoing renovation and is expected to be converted to other office type uses. No radioactive material is utilized nor is any such use anticipated.

Conclusions

The statistical analysis of the radiological survey data presented in this report indicates that the current condition of the basement of this building meets all the radiological acceptance criteria at the 95% confidence level. Therefore, this area of the building can be released for unrestricted use. There is no potential for this area to become contaminated after the surveys which have been made and documented by this report as there is no further use of radioactive material on the site.

BUILDING # 4 BASEMENT

NORTH



BUILDING REF LINE SEE JM-D80

FIGURE 2
BUILDING 4, BASEMENT
(SURVEY SECTION 14)

LEGEND

- BRICK
- CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PANELING

SCALE: FEET



SYD	REV	DESCRIPTION	DATE	PART OR IDENTIFYING NO.	MATERIAL	SPECIFICATION	NOTE
PARTS LIST							
UNLESS OTHERWISE SPECIFIED		CONTRACT NO.		WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION			
INTERPRET DWG PER AWS-1000		SITE OF DWG		Pittsburgh, Pa.			
DIM IN INCHES BASED ON 1/4"		CHECKED BY		BASEMENT FLOOR			
TOLERANCES - DO NOT SCALE		DESIGNER		BUILDING # 4			
SPL	DEC	SPL	DEC	ANGLES	WAEPSD-LARGE PA		
"	"	"	"	"			
DESCRIPTION		DATE		DWG NO. JN-005			
DWG CODE NO.		DWG NO.		REV. A			
		D 14683		SCALE: 1/4" = 1'-0"			
				BY: [Signature]			

TABLE 1
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #4, BASEMENT (SECTION 14, UNIT 1)

GRID	SURFACE DESCRIPTION	REF POINT	LOCATION CODE	GAMMA SURVEY (μR/hr)	BETA/GAMMA SURVEY ON CONTACT (μR/hr)	MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	TOTAL FIELD ACTIVITY (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)	REMOVABLE ACTIVITY (dpm/100cm ²)
2-12	Tile on concrete	N/A	14-1-1	12	0.010	-118.2	-237.0	4.4	-329.0	-0.15	-2.82	-2.82
8-28	N/A	N/A	14-1-1	10	0.010	30.8	-334.1	0.0	-449.8	-0.15	3.28	3.28
2-3	Tile on concrete	N/A	14-1-2	12	0.010	28.3	-282.7	0.0	-231.3	-0.15	-2.82	-2.82
2-4	Tile on concrete	N/A	14-1-3	11	0.010	64.3	-231.3	4.4	-277.6	-0.15	-2.82	-2.82
4-2	Tile on concrete	N/A	14-1-4	9	0.010	189.5	-102.8	8.8	-82.2	-0.15	3.28	3.28
4-2	Tile on concrete	N/A	14-1-5	11	0.010	230.4	-411.2	0.0	-372.7	-0.15	-2.82	-2.82
1-3	Tile on concrete	N/A	14-1-6	12	0.015	43.7	-257.0	4.4	-115.7	-0.15	3.10	3.10
4-4	Tile on concrete	N/A	14-1-7	10	0.010	904.5	249.3	-8.8	92.5	-0.15	-2.82	-2.82
4-12	Tile on concrete	N/A	14-1-7	10	0.010	503.7	268.4	-4.4	189.6	-0.15	-2.82	-2.82
2-1	Tile on concrete	N/A	14-1-9	10	0.010	7.7	-308.4	-13.2	-323.8	-0.15	-2.82	-2.82
2-6	Tile on concrete	N/A	14-1-10	8	0.010	-236.4	-482.6	-8.8	-362.4	-0.15	3.28	3.28
2-4	Tile on concrete	N/A	14-1-11	10	0.010	246.7	107.9	4.4	179.9	-0.15	-2.82	-2.82
2-2	Tile on concrete	N/A	14-1-12	11	0.010	495.5	236.4	-8.8	125.9	-0.15	-2.82	-2.82
0-10	Tile on concrete	N/A	14-1-14	11	0.010	-218.5	-488.3	13.2	-349.5	-0.15	-2.82	-2.82
-12-24	Tile on concrete	N/A	14-1-14	10	0.010	-136.2	-385.5	6.8	-418.9	8.05	3.28	3.28
10-24	Tile on concrete	N/A	14-1-14	10	0.010	-241.8	-359.8	-4.4	-370.1	-0.15	-2.82	-2.82
4-4	Tile on concrete	N/A	14-1-15	9	0.010	-18.0	-308.8	-4.4	-359.8	-0.15	-2.82	-2.82
2-2	Tile on concrete	N/A	14-1-17	12	0.010	-167.1	-334.1	-8.8	-146.5	-0.15	-2.82	-2.82
4-4	Tile on concrete	N/A	14-1-18	15	0.010	-25.7	-295.6	-4.4	-107.9	-0.15	-2.82	-2.82
4-10	Tile on concrete	N/A	14-1-18	16	0.020	20.6	-257.0	-8.8	-205.6	-0.15	3.28	3.28
2-2	Tile on concrete	N/A	14-1-19	11	0.010	457.5	252.1	-8.8	357.2	-0.15	-2.82	-2.82
4-4	Tile on concrete	N/A	14-1-20	11	0.010	298.1	159.3	4.4	272.4	-0.15	-2.82	-2.82
2-1	Tile on concrete	N/A	14-1-21	10	0.010	688.8	594.2	-4.4	298.1	-0.15	3.28	3.28
4-2	Tile on concrete	N/A	14-1-22	11	0.010	-131.1	-334.1	-8.8	-357.2	-0.15	-2.82	-2.82
2-2	Tile on concrete	N/A	14-1-23	12	0.010	130.8	-308.4	-8.8	-236.4	-0.15	-2.82	-2.82
2-2	Tile on concrete	N/A	14-1-24	14	0.010	43.7	-64.3	8.8	-321.3	-0.15	-2.82	-2.82
3-2	Tile on concrete	N/A	14-1-25	12	0.010	0.0	-308.4	0.0	-331.5	-0.15	-2.82	-2.82
3-1	Tile on concrete	N/A	14-1-28	13	0.010	56.5	-282.7	0.0	-352.1	0.00	0.00	0.00
2-0	Tile on concrete	N/A	14-1-29	11	0.010	596.2	313.5	8.8	652.8	-0.15	3.28	3.28

STATISTICAL ANALYSIS

NUMBER OF SAMPLES	29	29	29
MINIMUM	8.00	-290.4	-468.3
MAXIMUM	16.00	904.6	594.2
AVERAGE	11.17	100.8	-145.2
STANDARD DEVIATION	1.70	296.0	278.6
LIMIT	15	15,000	5,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE	1.701	1.701	1.701
DATA TEST PARAMETER	11.71	194.27	-57.26
NUMBER OF SAMPLES FACTOR	2.25	94.24	18.47
DOES DATA SATISFY LIMIT CRITERIA?	YES	YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES	YES	YES

TABLE 2
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #4, BASEMENT (SECTION 14, UNIT 2)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMA SURVEY #1 METER (MICRO/RH)	BETA/GAMMA SURVEY ON CONTACT (MP/RH)	MAXIMUM BETA (CPM/100CM ²)	AVERAGE BETA (CPM/100CM ²)	TOTAL FIRED ACTIVITY			REMOVABLE ALPHA (CPM/100CM ²)	BETA ACTIVITY (CPM/100CM ²)
								ALPHA (CPM/100CM ²)	BETA (CPM/100CM ²)	ALPHA (CPM/100CM ²)		
Floor - Concrete	2, -2	N/A	14-2-1	13	0.015	49.4	9.1	27.1	62.4	-0.15	3.10	
North Wall	4, -2		14-2-1	12	0.013	132.3	77.6	21.5	141.4	-0.15	-2.82	
East Wall - Brick	2, -1		14-2-1			76.8	-32.0	0.0	28.8	-0.15	9.03	
West Wall - Brick	2, -1		14-2-1			41.6	-64.0	0.0	32.4	-0.15	-2.82	
East Wall - Brick	2, -1		14-2-1			348.8	192.0	4.4	387.2	-0.15	-2.82	
West Wall - Brick	2, -1		14-2-1			345.6	224.0	0.0	211.2	-0.15	-2.82	
Pipe #1 & North Wall	4, -1		14-2-1			432.0	288.0	4.6	201.6	-0.15	-2.82	
Pipe #2 fr. N. Wall	4, -1, -2		14-2-1			217.6	64.0	13.8	-134.4	-0.15	-2.82	
Tiled floor	2, -2	N/A	14-2-2	12	0.016	256.0	64.0	4.5	-25.6	-0.15	-2.82	
East wall (Brick)	2, -1		14-2-2			-58.5	-89.7	26.0	-123.2	-0.15	3.10	
West wall (Brick)	2, -1		14-2-2			249.6	64.0	10.2	-123.9	-0.15	3.10	
East wall (Block)	2, -1		14-2-2			339.2	208.0	9.2	284.8	-0.15	-2.82	
West wall (Block)	2, -1		14-2-2			44.0	-80.0	0.0	300.8	-0.15	-2.82	
Overhead pipe (#1)	2, -1		14-2-2			201.6	96.0	0.0	57.6	-0.15	3.10	
Floor tile	2, -1		14-2-2			352.0	-64.0	9.2	124.8	-0.15	-2.82	
Ceiling	2, -2		14-2-2			300.8	160.0	9.2	105.6	-0.15	3.28	
Ceiling (concrete)	2, -2		14-2-3			73.6	-64.0	0.0	-38.4	-0.15	-2.82	
East wall (brick)	2, -1, 2		14-2-3			-32.0	-112.0	9.2	-54.4	-0.15	-2.82	
West wall (brick)	2, -1, 2		14-2-3			-22.8	-89.7	21.5	-97.3	-0.15	9.03	
South wall (brick)	2, -1, 2		14-2-3			-89.7	-112.5	10.2	-167.3	-0.15	-2.82	
I-beam on ceiling	5, -1		14-2-3			-90.5	-135.3	6.8	-146.0	-0.15	3.28	
Overhead pipe #1	2, 2, -1		14-2-3			-95.8	-127.7	-2.3	-189.0	-0.15	3.28	
East wall (concrete)	2, -2		14-2-3			208.0	80.0	23.0	12.8	-0.15	-2.82	
West wall (concrete)	2, -2		14-2-3			217.6	22.0	9.2	153.6	-0.15	9.39	
South wall (concrete)	2, -2		14-2-3			336.0	64.0	23.0	80.0	-0.15	3.28	
East wall (brick)	2, -1, 2		14-2-3			307.2	224.0	27.6	326.4	-0.15	3.10	
West wall (brick)	2, -1, 2		14-2-3			105.6	0.0	13.8	-9.8	-0.15	-2.82	
South wall (brick)	2, -1, 2		14-2-3			140.8	96.0	13.8	201.6	-0.15	3.10	
I-beam on ceiling	5, -1		14-2-3			35.2	-32.0	9.2	-115.2	-0.15	-2.82	
Overhead pipe #1	2, 2, -1		14-2-3			35.2	-80.0	0.0	-146.0	-0.15	3.22	

STATISTICAL ANALYSIS

NUMBER OF SAMPLES	MINIMUM	AVERAGE	STANDARD DEVIATION	LIMIT	FACTOR FOR COMPARISON OF SURVEY DATA 95% CONFIDENCE	DATA TEST PARAMETER	NUMBER OF SAMPLES	FACTOR	LIMIT CRITERIA	WAS AN ADEQUATE NUMBER OF SAMPLES TAKEN
12.00	-95.8	-135.3	132.8	15	1.895	1.895	12	1.895	YES	YES
13.00	432.0	268.0	132.8	15	1.895	1.895	13	1.895	YES	YES
12.13	132.8	24.3	132.8	15	1.895	1.895	12	1.895	YES	YES
0.33	150.8	178.2	150.8	15	1.895	1.895	0.33	1.895	YES	YES
15	15,000	5,000	15,000	15	1.895	1.895	15	1.895	YES	YES
1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.895	1.895	YES	YES
12.35	178.71	60.37	178.71	12	1.895	1.895	12	1.895	YES	YES
8.69	98.60	82.10	98.60	8	1.895	1.895	8	1.895	YES	YES
31	31	31	31	31	31	31	31	31	YES	YES
-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	YES	YES
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	YES	YES
10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	YES	YES
8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	YES	YES
5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	YES	YES
1.697	1.697	1.697	1.697	1.697	1.697	1.697	1.697	1.697	YES	YES
12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	12.99	YES	YES
559.58	559.58	559.58	559.58	559.58	559.58	559.58	559.58	559.58	YES	YES
31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	31.95	YES	YES
1.697	1.697	1.697	1.697	1.697	1.697	1.697	1.697	1.697	YES	YES
0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	YES	YES
690.39	690.39	690.39	690.39	690.39	690.39	690.39	690.39	690.39	YES	YES
31	31	31	31	31	31	31	31	31	YES	YES
-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	-0.15	YES	YES
8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	YES	YES
0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	YES	YES
4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	4.23	YES	YES
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	YES	YES
1.697	1.697	1.697	1.697	1.697	1.697	1.697	1.697	1.697	YES	YES
2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	YES	YES
236.47	236.47	236.47	236.47	236.47	236.47	236.47	236.47	236.47	YES	YES

TABLE 3
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 14 - BUILDING 4, BASEMENT)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** SURVEY TYPE = GAMMA DOSERATE AT 1 METER FROM SURFACE						
14 -1	29	8.000	16.000	11.170	1.700	MicroR/hour
14 -2	8	12.000	13.000	12.130	0.330	MicroR/hour
** Subtotal **	37					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
14 -1	29	0.010	0.020	0.011	0.002	MilliRem/hour
14 -2	8	0.010	0.021	0.015	0.003	MilliRem/hour
** Subtotal **	37					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
14 -1	29	-290.400	904.600	100.800	296.000	DPM/100 cm ²
14 -2	31	-95.800	432.000	132.800	150.800	DPM/100 cm ²
** Subtotal **	60					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
14 -1	29	-488.300	596.200	-145.200	278.600	DPM/100 cm ²
14 -2	31	-135.300	288.000	24.300	118.200	DPM/100 cm ²
** Subtotal **	60					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
14 -1	29	-13.200	13.200	-1.200	7.000	DPM/100 cm ²
14 -2	31	-2.300	27.600	10.300	8.900	DPM/100 cm ²
** Subtotal **	60					
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
14 -1	29	-449.800	652.800	-136.300	279.200	DPM/100 cm ²
14 -2	31	-167.300	387.200	46.300	155.100	DPM/100 cm ²
** Subtotal **	60					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
14 -1	29	-0.150	8.050	0.140	1.490	DPM/100 cm ²
14 -2	31	-0.150	8.050	0.120	1.450	DPM/100 cm ²
** Subtotal **	60					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
14 -1	29	-2.820	9.390	-0.630	3.280	DPM/100 cm ²
14 -2	31	-2.820	9.390	0.860	4.230	DPM/100 cm ²
** Subtotal **						

TABLE 3
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 14 - BUILDING 4, BASEMENT)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
	60					
*** Total ***	434					

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 1

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140101.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

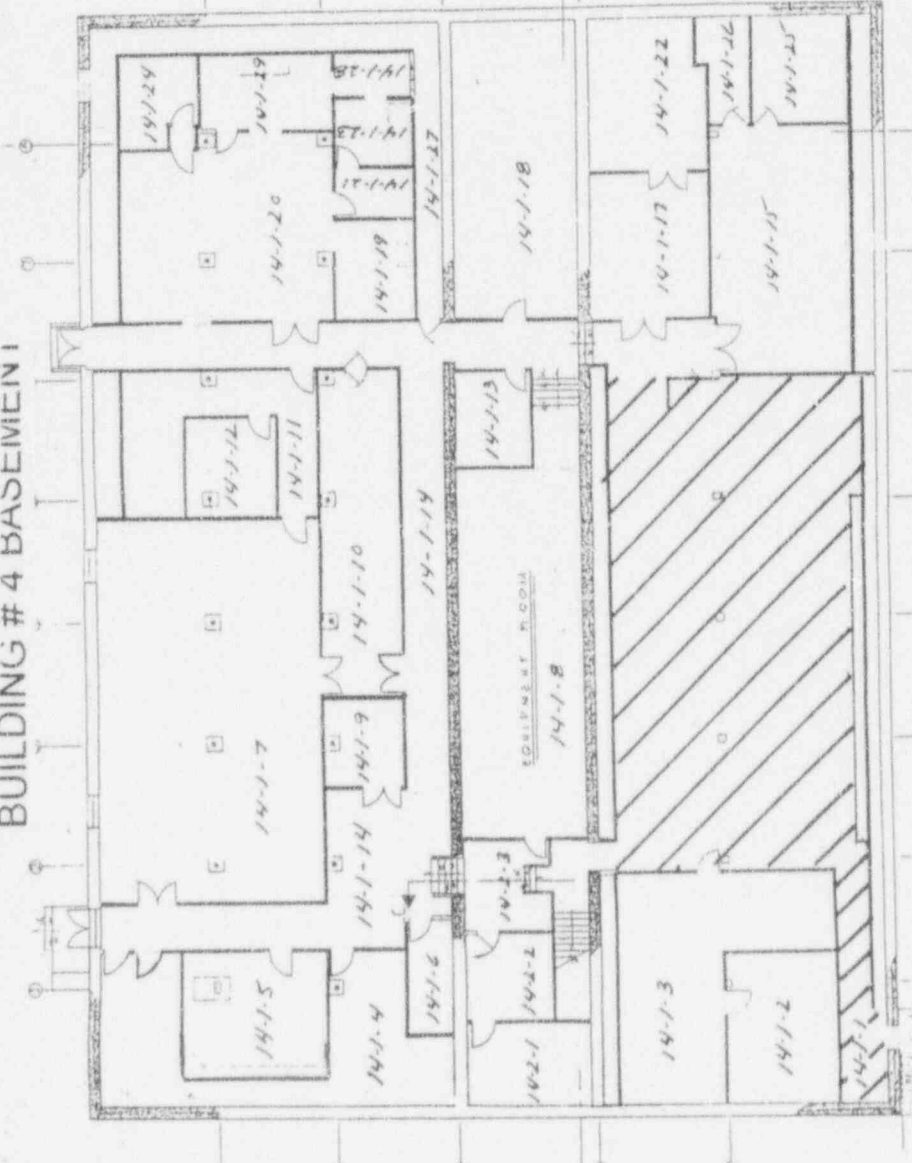
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 11:26
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/15/92 11:27

BUILDING # 4 BASEMENT I

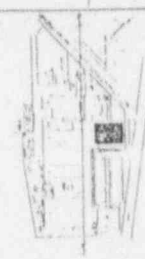
NORTH
←



LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] GYPSUM & PANELING
 SCALE - FEET
 0 5 10 20 25

ITEM NO.	QTY	UNIT	DESCRIPTION	MANUFACTURER OR SUBSTITUTION	CONTRACT NO.	DATE OF ORDER	DATE OF DELIVERY	REMARKS
PARTS LIST								
UNLESS OTHERWISE SPECIFIED								
MATERIALS TO BE USED IN THIS CONTRACT								
CONTRACT NO. 14-1-1								
DATE OF ORDER 10-1-1963								
DATE OF DELIVERY 10-1-1963								
REMARKS								
CONTRACT NO. 14-1-1								
DATE OF ORDER 10-1-1963								
DATE OF DELIVERY 10-1-1963								
REMARKS								
CONTRACT NO. 14-1-1								
DATE OF ORDER 10-1-1963								
DATE OF DELIVERY 10-1-1963								
REMARKS								

REDIGIOUS ADVANCES (Energy Systems Division)
 PHILADELPHIA, PENNSYLVANIA
 BASEMENT FLOOR
 BUILDING # 4
 WRENDS LARGE PA
 JN-005 A
 14683



BUILDING
 SEE JN-040

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140102.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

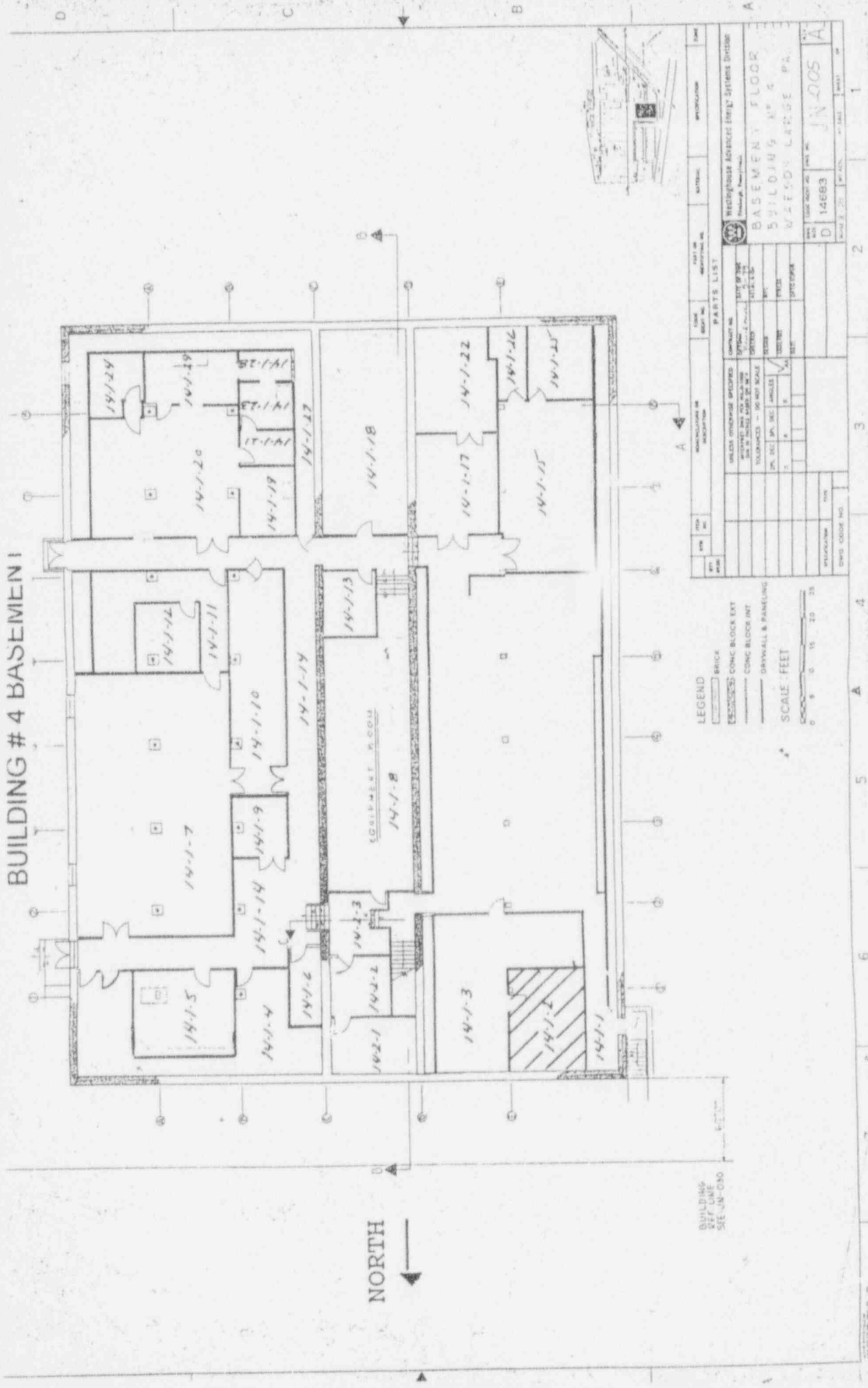
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 11:27

BUILDING # 4 BASEMENT I



NORTH
←

BUILDING
SEE PLAN 040

LEGEND

- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- GYP WALL & PANELING

SCALE: FEET



PARTS LIST

ITEM NO.	DESCRIPTION	QTY	UNIT	DATE
1	BRICK			
2	CONCRETE BLOCK EXT			
3	CONCRETE BLOCK INT			
4	GYP WALL & PANELING			

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION
 BASEMENT FLOOR
 BUILDING # 4
 WAEEDS LARGE PA.
 DRAWING NO. JN-005 A
 SCALE: 1/8" = 1'-0"

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
*	ESP2: 1510	22.6%	4.42	2.99		ESP2: 1510	38.7%	2.58	
	ESP2: 1517	24.2%	4.14		*	ESP2: 1517	38.9%	2.57	490
	ESP2: 1522					ESP2: 1522			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478					PAC4G:4478			
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 12-15-92
COUNT DATE: 12-15-92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
*	E520: 5242	.01 mR/hr
	E520: 5245	mR/hr
	ESP2: 1522	mR/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
TILE ON CONCRETE	2,-4	N/A	11	.01	465	400	3.99	382	-0.149	-2.82	

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBOX\UNIT1\140103.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 11.28

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
*	ESP2: 1510	22.6%	4.42	2.99		ESP2: 1510	38.7%	2.58	
	ESP2: 1517	24.2%	4.14		*	ESP2: 1517	38.9%	2.57	490
	ESP2: 1522					ESP2: 1522			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478					PAC4G:4478			
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 12-15-92
COUNT DATE: 12-15-92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
*	E520: 5242	.01 mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
TILE ON CONCRETE	4,-2	N/A	9	.01	556	450	4.99	458	-0.149	3.28	

FORM SERIAL #: 14-004 (Survey Section - Sequential survey #)	LOCATION # 14-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0074	SURVEYOR SIGNATURE: TSB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LEQL\UNIT1\140104.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

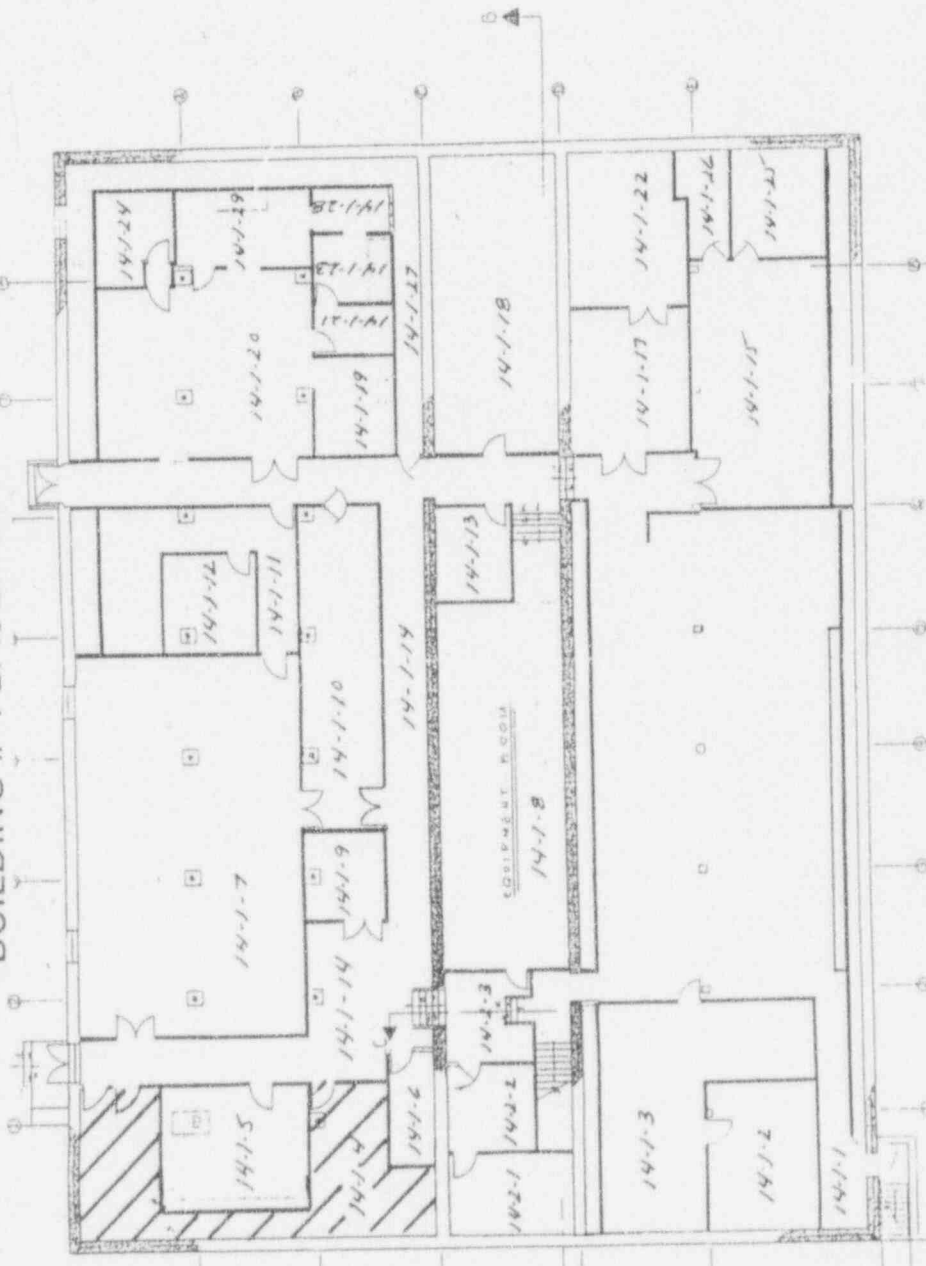
Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
5	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/15/92 11:29

BUILDING # 4 BASEMENT I

NORTH

BUILDING
 DIFF LINE
 SEE JN-030



LEGEND

- BRICK
- ESCALATOR CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PANELING

SCALE - FEET

NO.	REV.	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

PROJECT NO.	14-1-030
DATE	JUN 1965
SCALE	1/4" = 1'-0"
DRAWN BY	JN-005
CHECKED BY	
APPROVED BY	

NO.	REV.	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			

PROJECT NO.	14-1-030
DATE	JUN 1965
SCALE	1/4" = 1'-0"
DRAWN BY	JN-005
CHECKED BY	
APPROVED BY	

PROJECT NO.	14-1-030
DATE	JUN 1965
SCALE	1/4" = 1'-0"
DRAWN BY	JN-005
CHECKED BY	
APPROVED BY	




(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
*	ESP2: 1510	22.6%	4.42	2.99		ESP2: 1510	38.7%	2.58	
	ESP2: 1517	24.2%	4.14		*	ESP2: 1517	38.9%	2.57	490
	ESP2: 1522					ESP2: 1522			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478					PAC4G:4478			
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 12-15-92
COUNT DATE: 12-15-92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
*	E520: 5242	.01 mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USEG	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USEG	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
TILE ON CONCRETE	4, -2	N/A	11	.01	377	330	2.99	345	-0.149	-2.82	

FORM SERIAL #: 14-005 (Survey Section - Sequential survey #)	LOCATION # 14-1-5 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0075	SURVEYOR SIGNATURE: TSP 
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140105.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

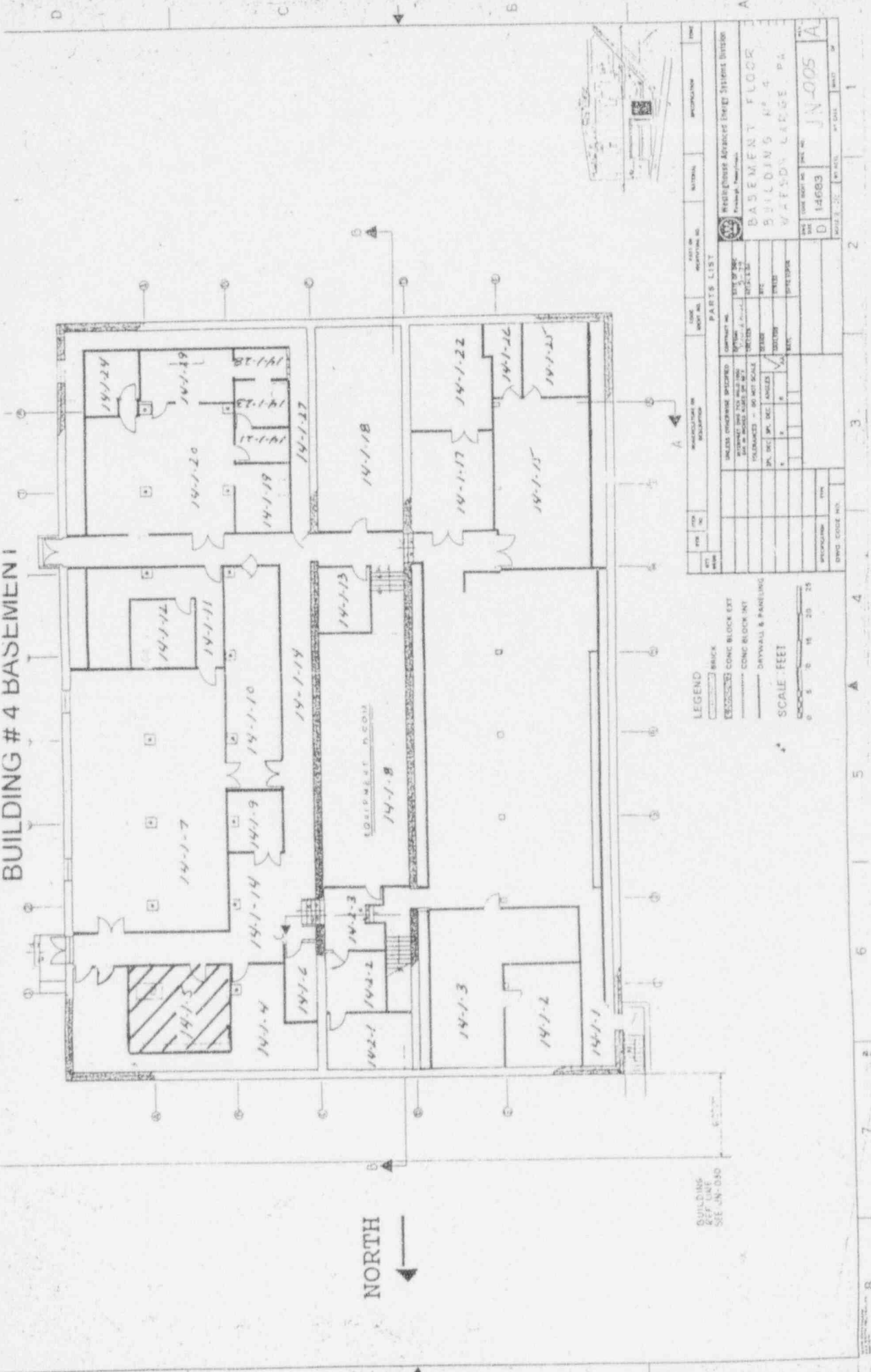
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.065263158

Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch id: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
6	-0.140	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 11:30

BUILDING # 4 BASEMENT I



NORTH

BUILDING
OFF UNIT
SEE JN-040

LEGEND
 [Symbol] BRICK
 [Symbol] CONG BLOCK EXT
 [Symbol] CONG BLOCK INT
 [Symbol] DRYWALL & PANELING
 SCALE: FEET
 0 5 10 15 20 25

NO.	SYM.	QTY.	UNIT	DESCRIPTION	DATE
PARTS LIST					
1	CONCRETE	1	SLAB	BASEMENT FLOOR	
2	CONCRETE	1	WALL	BUILDING # 4	
3	CONCRETE	1	FLOOR	WAFSDN LADGE PA	
UNLESS OTHERWISE SPECIFIED: MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY AVAILABLE. FINISHES - AS NOTED. ALL DIMENSIONS SHALL BE IN FEET AND INCHES. DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING CODES AND SPECIFICATIONS. ALL WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.					
DATE	NO. OF SHEETS	TOTAL SHEETS	BY	DATE	NO.
D	14683		JN-005		A



LB5100W Low Background Counting System -- Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140106.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

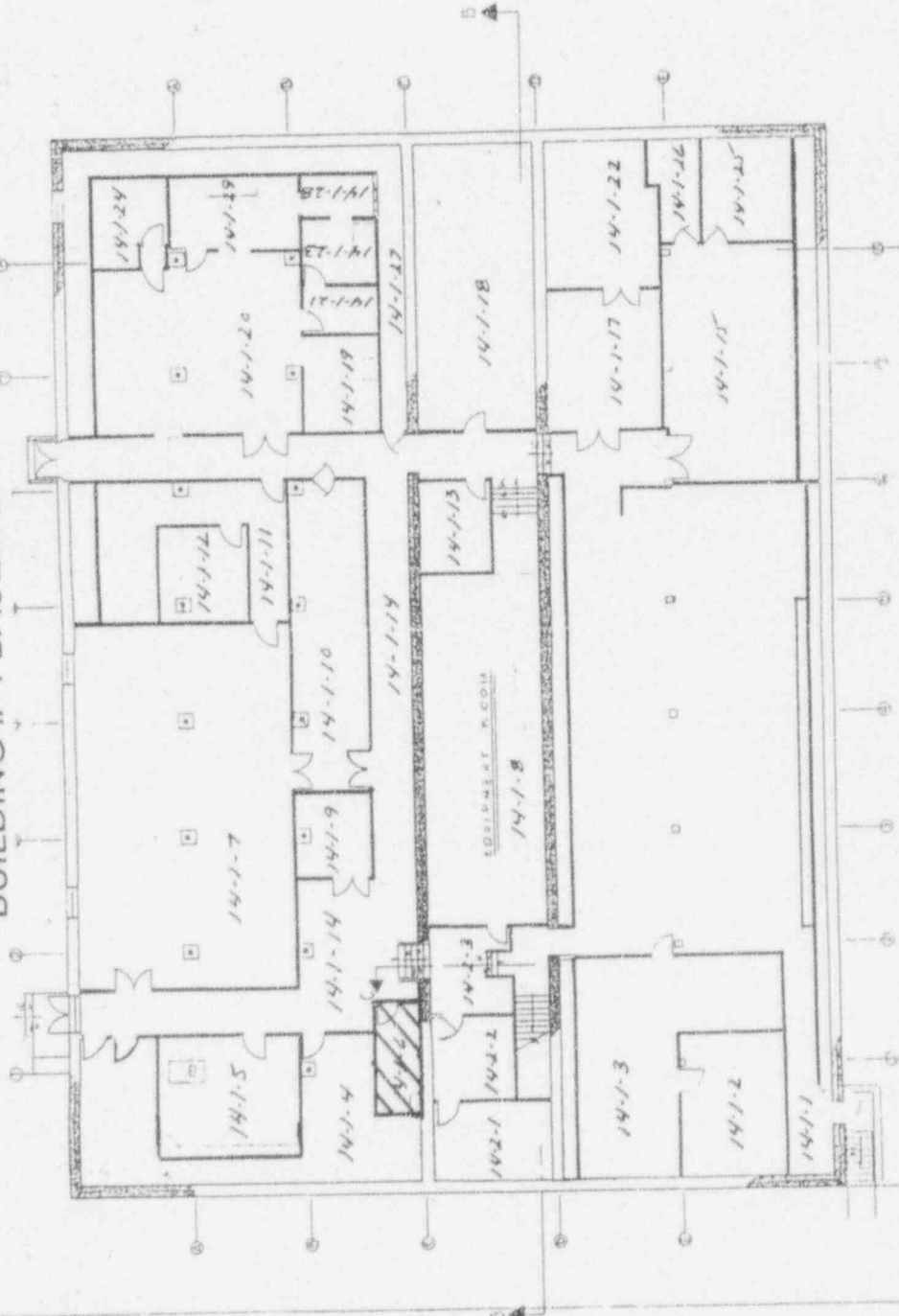
Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
7	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/15/92 11:42

BUILDING #4 BASEMENT I

NORTH

BUILDING REF UNITS SEE JN-030



LEGEND

- BRICK
- CONCRETE
- CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 20 25

ITEM	QTY	UNIT	DESCRIPTION OR SPECIFICATION	DATE OF MEASUREMENT	MATERIAL	REVISION	DATE
PARTS LIST							
UNLESS OTHERWISE SPECIFIED							
CONCRETE SHALL BE 3000 PSI							
REINFORCEMENT SHALL BE #4							
DRYWALL SHALL BE 5/8" THICK							
BRICK SHALL BE 8" X 8" X 16"							
CONCRETE BLOCK SHALL BE 16" X 16" X 8"							
PAINT SHALL BE AS SPECIFIED							
GLASS SHALL BE AS SPECIFIED							
DOORS SHALL BE AS SPECIFIED							
WINDOWS SHALL BE AS SPECIFIED							
FLOORING SHALL BE AS SPECIFIED							
CEILING SHALL BE AS SPECIFIED							
WALLS SHALL BE AS SPECIFIED							
ROOFING SHALL BE AS SPECIFIED							
MECHANICAL SHALL BE AS SPECIFIED							
ELECTRICAL SHALL BE AS SPECIFIED							
PLUMBING SHALL BE AS SPECIFIED							
HVAC SHALL BE AS SPECIFIED							
FIRE PROTECTION SHALL BE AS SPECIFIED							
ACCESSIBILITY SHALL BE AS SPECIFIED							
ENVIRONMENTAL SHALL BE AS SPECIFIED							
SOUND ATTEN. SHALL BE AS SPECIFIED							
VIBRATION SHALL BE AS SPECIFIED							
OTHER SHALL BE AS SPECIFIED							
DRAWING NO. JN-005							
DATE 11/14/83							
SCALE 1/4" = 1'-0"							
SHEET NO. 1							
TOTAL SHEETS 1							

Westhouse Advanced Energy Gradient Division
 BUILDING #4
 WANDA LARGE PA

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
*	ESP2: 1510	22.6%	4.42	2.99		ESP2: 1510	38.7%	2.58	
	ESP2: 1517	24.2%	4.14		*	ESP2: 1517	38.9%	2.57	248
	ESP2: 1522					ESP2: 1522			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478					PAC4G:4478			
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 12-14-92
COUNT DATE: 12-15-92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
*	E520: 5242	.01 mR/hr
	E520: 5245	mR/hr
	ESP2: 1522	mR/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
TILE ON CONCRETE	4,-4	N/A	10	.01	600	345	.997	284	-0.149	-2.82	
"	4,-12	N/A	10	.01	444	340	1.99	314	-0.149	-2.82	

FORM SERIAL #: 14-007 (Survey Section - Sequential survey #)	LOCATION # 14-1-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0077	SURVEYOR SIGNATURE: TSB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140107.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

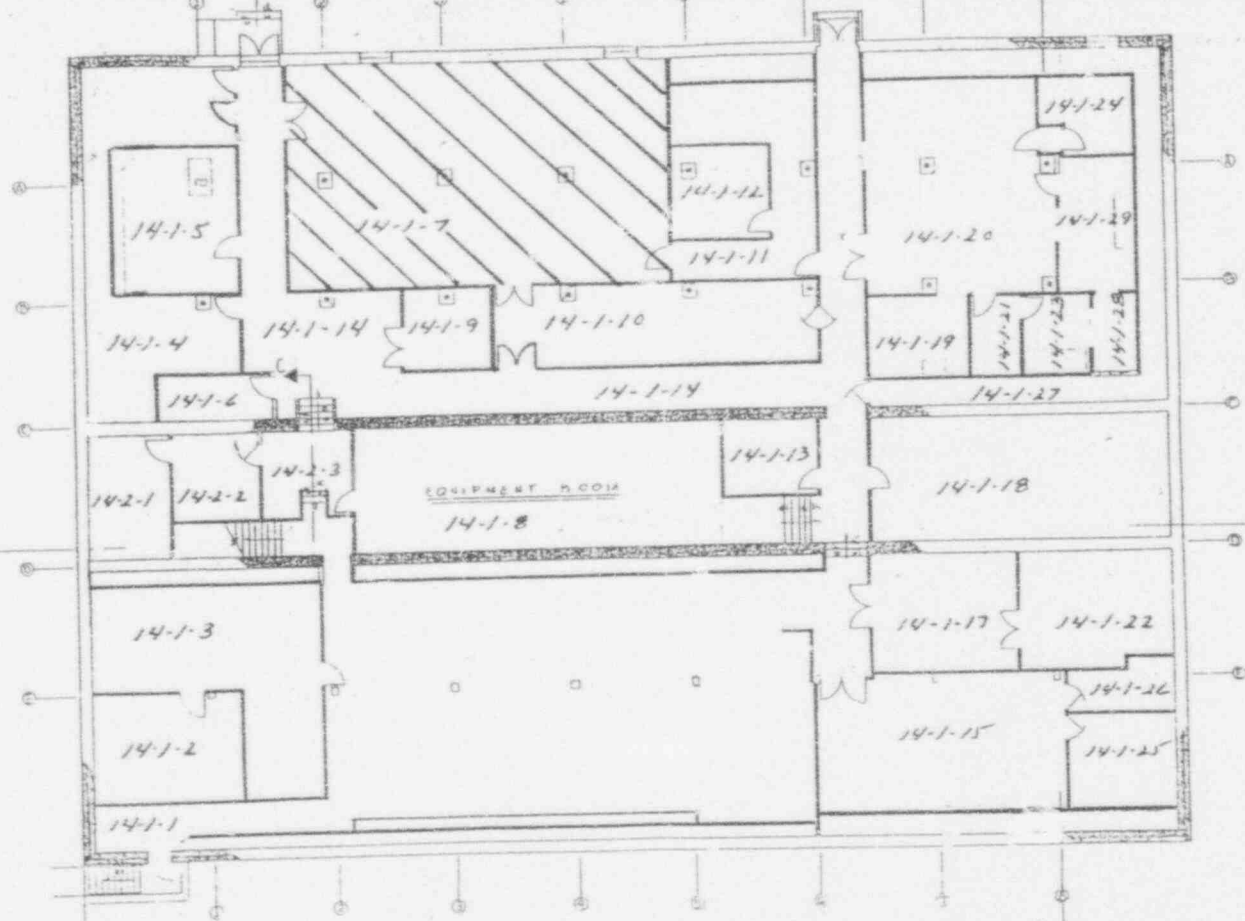
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
8	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/15/92 11:43
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 11:43

BUILDING # 4 BASEMENT I

NORTH
←



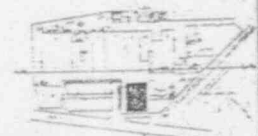
BUILDING REF. LINE SEE JN-050

LEGEND

- BRICK
- CONG. BLOCK EXT
- CONG. BLOCK INT
- DRYWALL & PANELING

SCALE - FEET

QTY	REV.	DESCRIPTION OR IDENTIFICATION	ROOM	PART OR IDENTIFYING NO.	MATERIAL	REVISION	DATE
PARTS LIST							
UNLESS OTHERWISE SPECIFIED			CONTRACT NO.	6522 Weplighthouse Advanced Energy Systems Division Pittsburgh, Pennsylvania			
WALLS: 8" CONG. BLOCK WITH 1/2" GYPSUM BOARD ON BOTH SIDES			DATE	11-1-78			
TOLERANCES - DO NOT SCALE			DESIGN	JPH			
SPL.	DEC.	SPL.	DEC.	ANGLES	SCALE	DATE PLOTTED	
0	0	0	0	0	AS SHOWN		
DESCRIPTION		TYPE					
ENGR. CODE NO.							
		1		2		3	



BASEMENT FLOOR
BUILDING N° 4
WASDY LARGE PAI

DATE: 11-1-78
 DRAWING NO.: 14683
 SHEET NO.: JN-005
 TOTAL SHEETS: 1

(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
*	ESP2: 1510	22.6%	4.42	2.99		ESP2: 1510	38.7%	2.58	
	ESP2: 1517	24.2%	4.14		*	ESP2: 1517	38.9%	2.57	490
	ESP2: 1522					ESP2: 1522			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478					PAC4G:4478			
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 12-15-92
COUNT DATE: 12-15-92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
*	E520: 5242	.01 mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TEN# 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPH/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
TILE ON CONCRETE	2, -1	N/A	10	.01	493	370	0	364	-0.149	-2.82	

FORM SERIAL #: 14-008 (Survey Section - Sequential survey #)	LOCATION # 14-1-9 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0078	SURVEYOR SIGNATURE: TSB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140109.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 11:44

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140110.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/15/92 11:44

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140111.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
12	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 11:45

BUILDING # 4 BASEMENT

NORTH
←



LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXPT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] DRYWALL & PANELING
 SCALE: FEET
 0 5 10 15 20 25

REV	DATE	BY	CHKD	DESCRIPTION

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

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NO.	QTY	DESCRIPTION	UNIT

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NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

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NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT

NO.	QTY	DESCRIPTION	UNIT
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit Id: 1
 Data file name: C:\LBXL\UNIT1\140112.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 12:22

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140114.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

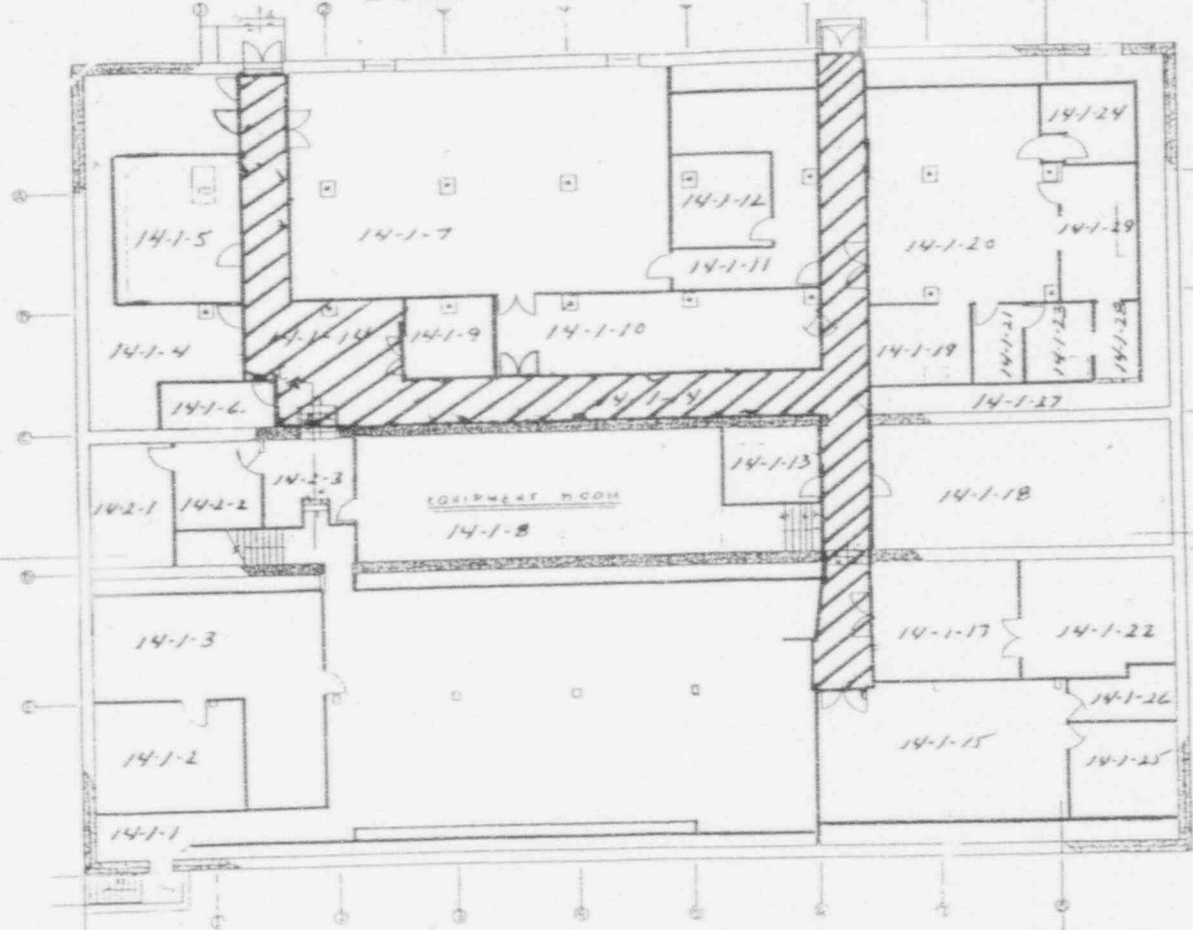
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
2	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/15/92 12:23
3	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	12/15/92 12:23
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 12:24

BUILDING # 4 BASEMENT

NORTH



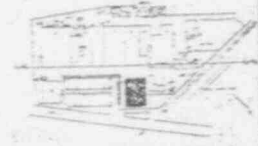
BUILDING
REF LINE
SEE JN-D30

LEGEND

- BRICK
- CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PANELING

SCALE : FEET
0 5 10 15 20 25

QTY	UNIT	DESCRIPTION	CODE	PLANT OR IDENTIFYING NO.	MATERIAL	REVISION	ZONE
PARTS LIST							
		UNLESS OTHERWISE SPECIFIED	CONTRACT NO.	Westinghouse Advanced Energy Systems Division Pittsburgh, Pennsylvania BASEMENT FLOOR BUILDING N° 4 WARDEN-LARGE PA			
		STRENGTH AND TENSILE STRENGTH SHALL BE IN ACCORDANCE WITH A.S.T.M. SPECIFICATIONS	DATE				
		TOLERANCES - DO NOT SCALE	REVISION				
		CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH	DATE				
DESCRIPTION	QTY	UNIT	DATE	BY	DATE	DATE	DATE
DWG. CODE NO.			14683	JN-005	A		



LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LB\CL\UNIT1\140115.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

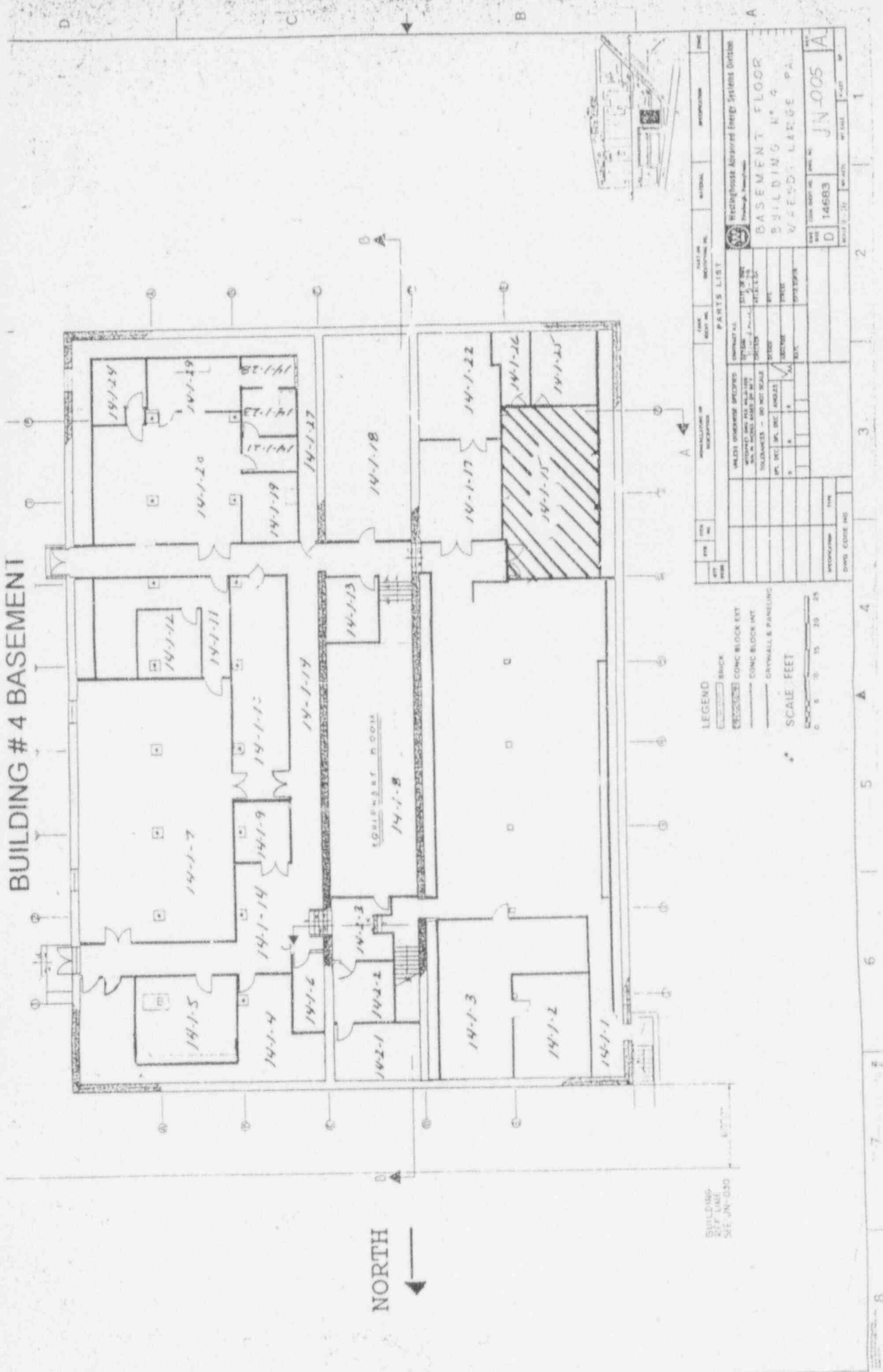
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/15/92 12:24

BUILDING #4 BASEMENT



NORTH
←

LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] GYPSUM & PANELING
 SCALE FEET
 0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHECKED
1				
2				
3				
4				
5				
6				
7				
8				

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	WALDO UNIFORMS				
2	UNIFORMS				
3	UNIFORMS				
4	UNIFORMS				
5	UNIFORMS				
6	UNIFORMS				
7	UNIFORMS				
8	UNIFORMS				
9	UNIFORMS				
10	UNIFORMS				
11	UNIFORMS				
12	UNIFORMS				
13	UNIFORMS				
14	UNIFORMS				
15	UNIFORMS				
16	UNIFORMS				
17	UNIFORMS				
18	UNIFORMS				
19	UNIFORMS				
20	UNIFORMS				
21	UNIFORMS				
22	UNIFORMS				
23	UNIFORMS				
24	UNIFORMS				

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	WALDO UNIFORMS				
2	UNIFORMS				
3	UNIFORMS				
4	UNIFORMS				
5	UNIFORMS				
6	UNIFORMS				
7	UNIFORMS				
8	UNIFORMS				
9	UNIFORMS				
10	UNIFORMS				
11	UNIFORMS				
12	UNIFORMS				
13	UNIFORMS				
14	UNIFORMS				
15	UNIFORMS				
16	UNIFORMS				
17	UNIFORMS				
18	UNIFORMS				
19	UNIFORMS				
20	UNIFORMS				
21	UNIFORMS				
22	UNIFORMS				
23	UNIFORMS				
24	UNIFORMS				

BUILDING #4
 SEC. JN-030

RECHIGHOUSE Approved Energy Systems Division
 BASEMENT FLOOR
 BUILDING #4
 W.F.S.D. LARGE PA.

DATE: JUN 14 1963
 DRAWING NO: JN-005
 SHEET NO: 1

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140117.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 12:25

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LX\LUNIT1\140118.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/15/92 12:26
8	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	-35.93	0.33	-0.055	1.63	12/15/92 12:26

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140119.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/15/92 12:27

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\140120.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

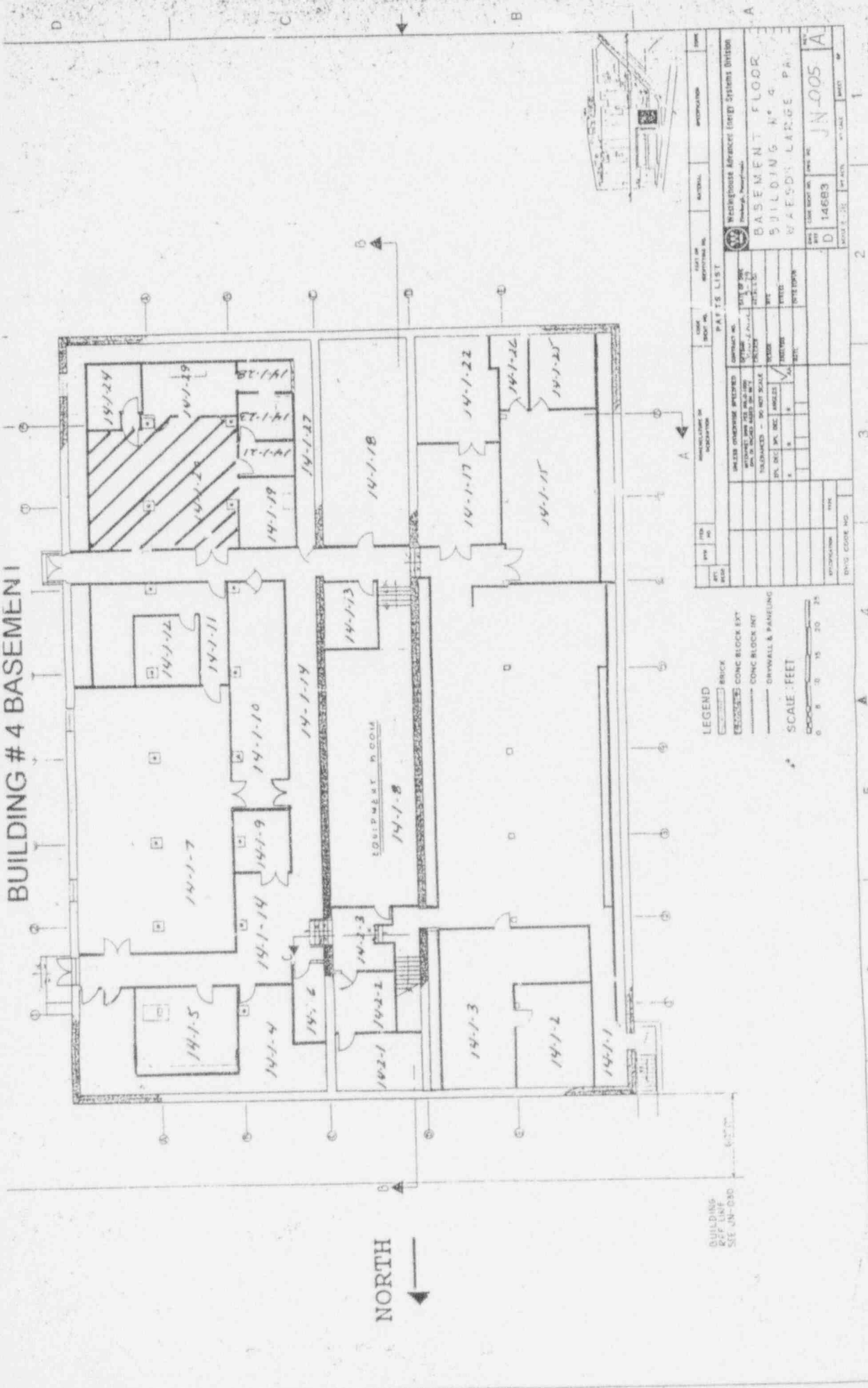
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/15/92 12:28

BUILDING #4 BASEMENT I



NORTH
←

BUILDINGS
DEPT. UNIT
SEE JAN-030

LEGEND
 [Symbol] BRICK
 [Symbol] CONC BLOCK EXT
 [Symbol] CONC BLOCK INT
 [Symbol] GYWALL & PANELING
 SCALE: FEET
 0 5 10 15 20 25

PARTS LIST

QTY	ITEM NO	DESCRIPTION	UNIT	QTY	PRICE	TOTAL
1	14-1-1	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-2	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-3	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-4	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-5	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-6	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-7	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-8	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-9	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-10	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-11	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-12	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-13	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-14	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-15	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-16	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-17	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-18	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-19	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-20	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-21	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-22	CONC BLOCK EXT	SQ YD	1	1.00	1.00
1	14-1-23	CONC BLOCK INT	SQ YD	1	1.00	1.00
1	14-1-24	CONC BLOCK EXT	SQ YD	1	1.00	1.00

WATERBURY APPLIANCE (ELECT) SYSTEMS DIVISION
 BOSTON, MASSACHUSETTS

BASEMENT FLOOR
 BUILDING No 4
 WAREHOUSE LARGE PA

DATE: JUN 1955
 DRAWN BY: JN-005
 CHECKED BY: D 14683

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140121.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 47.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Counting time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
11	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/15/92 12.28

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140122.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

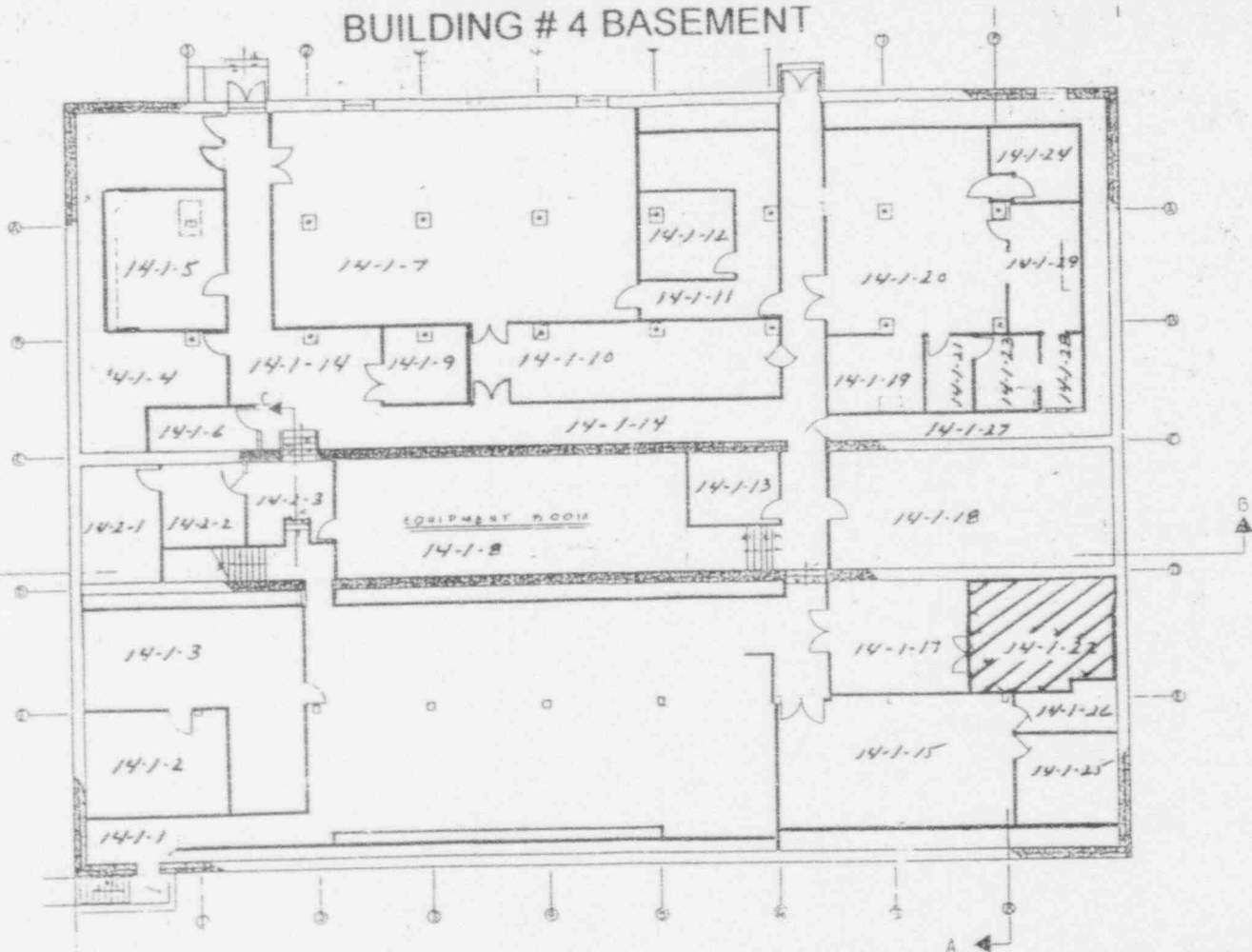
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
12	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/15/92 12:29

BUILDING # 4 BASEMENT

NORTH



BUILDING REF LINE
SEE JN-050

LEGEND

- BRICK
 - CONC BLOCK EXT
 - CONC BLOCK INT
 - DRYWALL & PANELING
- SCALE - FEET
-

QTY	UNIT	DESCRIPTION OR IDENTIFYING NO.	QTY	UNIT	DESCRIPTION OR IDENTIFYING NO.	QTY	UNIT	DESCRIPTION OR IDENTIFYING NO.	QTY	UNIT	DESCRIPTION OR IDENTIFYING NO.
PARTS LIST											
UNLESS OTHERWISE SPECIFIED:											
CONCRETE SHALL BE 3000 PSI											
FINISHES - SEE NOTES											
DIMENSIONS - SEE NOTES											
TOLERANCES - SEE NOTES											
MATERIALS - SEE NOTES											
INSTALLATION - SEE NOTES											
PAINT - SEE NOTES											
GLASS - SEE NOTES											
METALS - SEE NOTES											
WOOD - SEE NOTES											
OTHER - SEE NOTES											
Westinghouse Advanced Energy Systems Division BASMENT FLOOR BUILDING N° 4 WAREHOUSE LARGE PA...											
DATE: 10/1/83 DRAWN BY: D CHECKED BY: 14683 PROJECT NO.: JN-005 SHEET NO.: A											

8 7 6 5 4 3 2 1

LB5100W Low Background Counting System -- Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140123.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

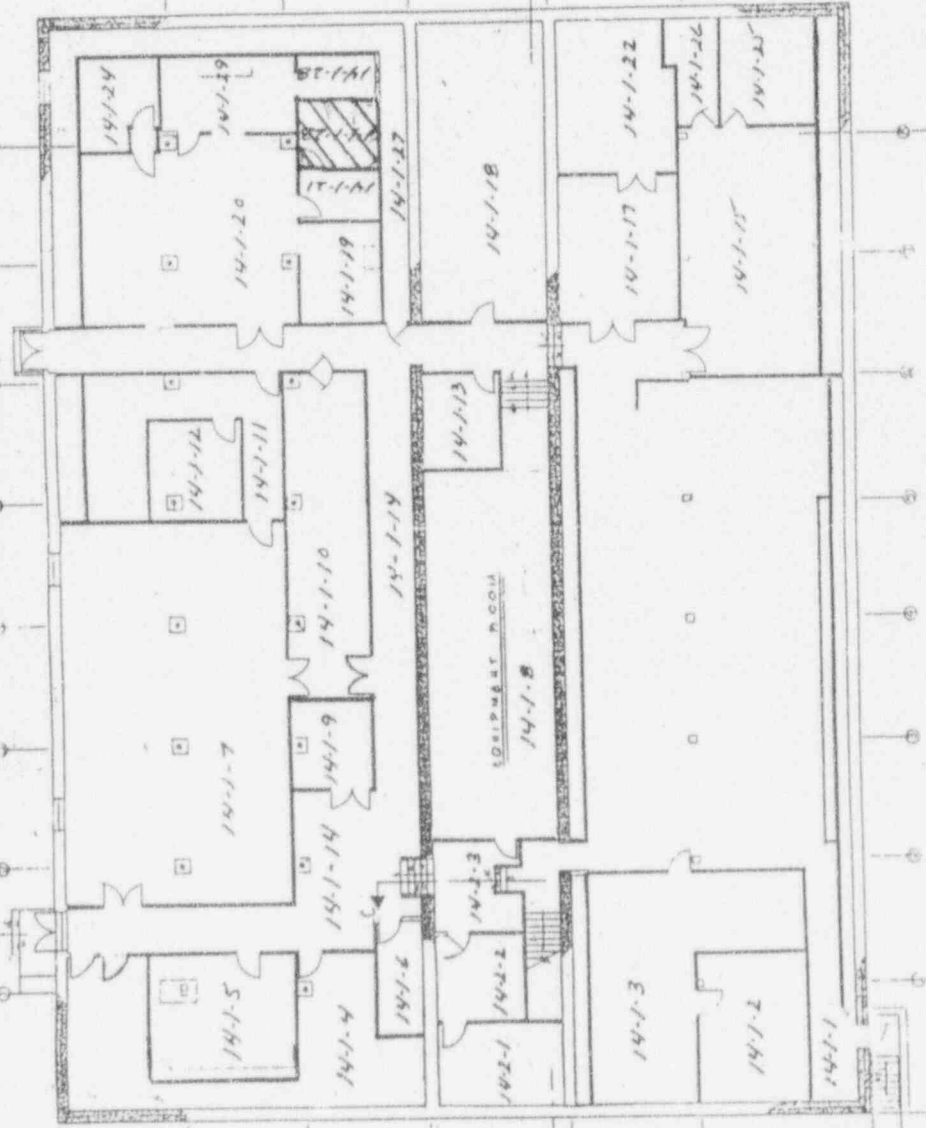
Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
13	-0.149	1.35	<MDA	27.24	-2.82	4.15	<MDA	35.16	0.34	-0.055	-1.40	12/15/92 12:30

BUILDING # 4 BASEMENT I

NORTH
←

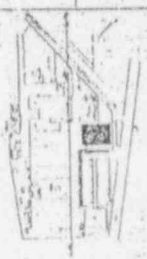
BUILDING
SECTION
JAN-03-90



LEGEND
 [Symbol] BRICK
 [Symbol] CONIC BLOCK EXT
 [Symbol] CONIC BLOCK INT
 [Symbol] DRYWALL & PANELING
 SCALE: FEET
 0 5 10 15 20 25

REV	DATE	BY	CHKD	DESCRIPTION
1				
2				
3				
4				
5				
6				
7				
8				

PROJECT NO.	14683
DATE	JN-005-A
SCALE	1/4" = 1'-0"
PROJECT	WAREHOUSE LARGE PA...
BUILDING	BUILDING # 4
FLOOR	BASEMENT FLOOR
SECTION	
DATE	
BY	
CHKD	
APP'D	
DATE	



LB6100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140124.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/15/92 13:12

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140125.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Applic. Version: Standard

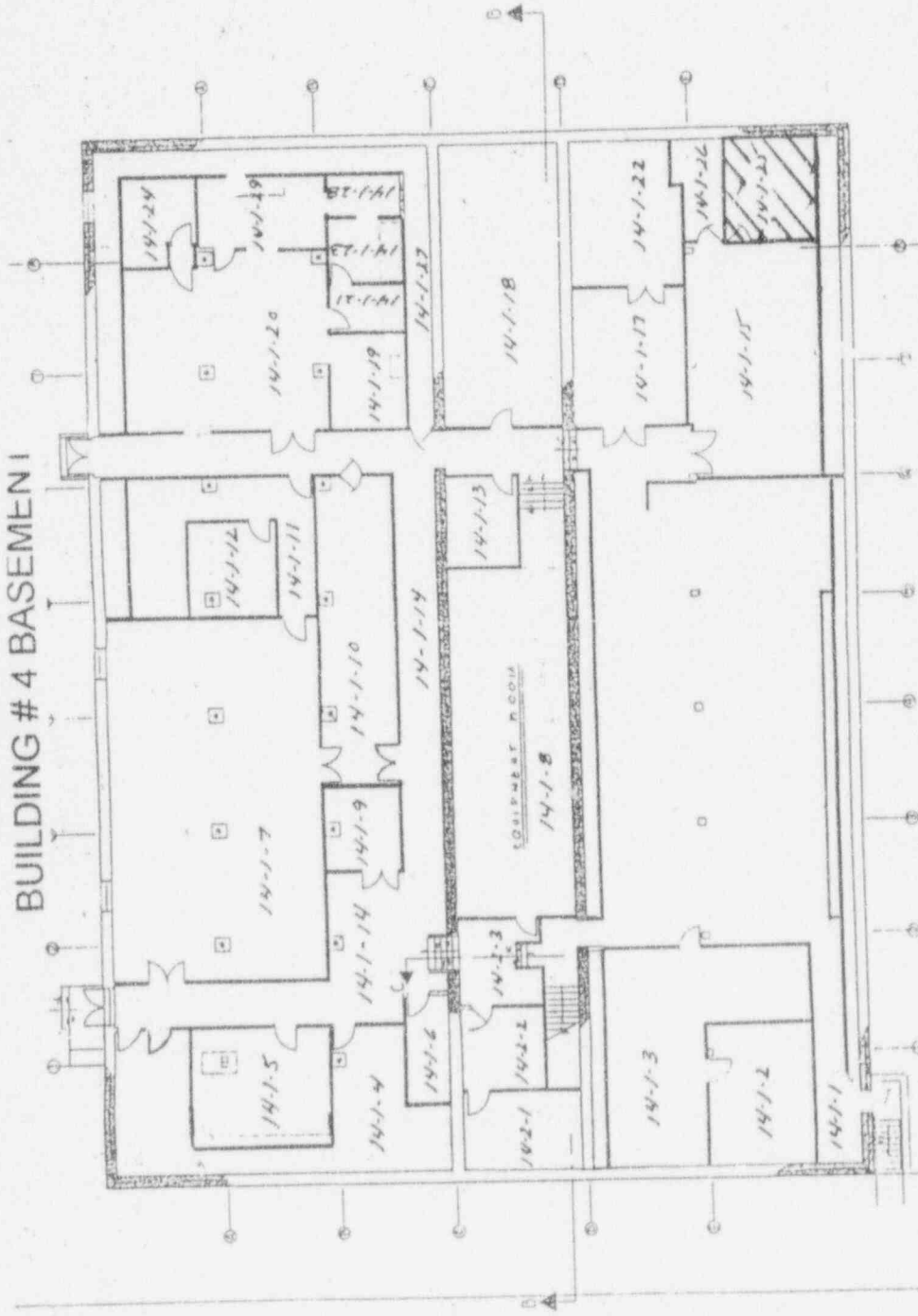
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 13:13

BUILDING # 4 BASEMENT 1

NORTH



LEGEND
 [Symbol] BRICK
 [Symbol] CONC BLOCK EXT
 [Symbol] CONC BLOCK INT
 [Symbol] DRYWALL & PANELING
 SCALE - FEET
 0 5 10 20 25

SYMBOL	DESCRIPTION
[Symbol]	BRICK
[Symbol]	CONC BLOCK EXT
[Symbol]	CONC BLOCK INT
[Symbol]	DRYWALL & PANELING

DATE	BY	DESCRIPTION
14-1-26	JN	REVISED
14-1-25	JN	REVISED
14-1-24	JN	REVISED
14-1-23	JN	REVISED
14-1-22	JN	REVISED
14-1-21	JN	REVISED
14-1-20	JN	REVISED
14-1-19	JN	REVISED
14-1-18	JN	REVISED
14-1-17	JN	REVISED
14-1-16	JN	REVISED
14-1-15	JN	REVISED
14-1-14	JN	REVISED
14-1-13	JN	REVISED
14-1-12	JN	REVISED
14-1-11	JN	REVISED
14-1-10	JN	REVISED
14-1-9	JN	REVISED
14-1-8	JN	REVISED
14-1-7	JN	REVISED
14-1-6	JN	REVISED
14-1-5	JN	REVISED
14-1-4	JN	REVISED
14-1-3	JN	REVISED
14-1-2	JN	REVISED
14-1-1	JN	REVISED

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION
 Pittsburgh, Pennsylvania

BASMENT FLOOR
 BUILDING N° 4
 WAREHOUSE LARGE PA

DATE: JUN 05 1980
 DRAWING NO: 14683
 PROJECT NO: JN-005

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140128.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

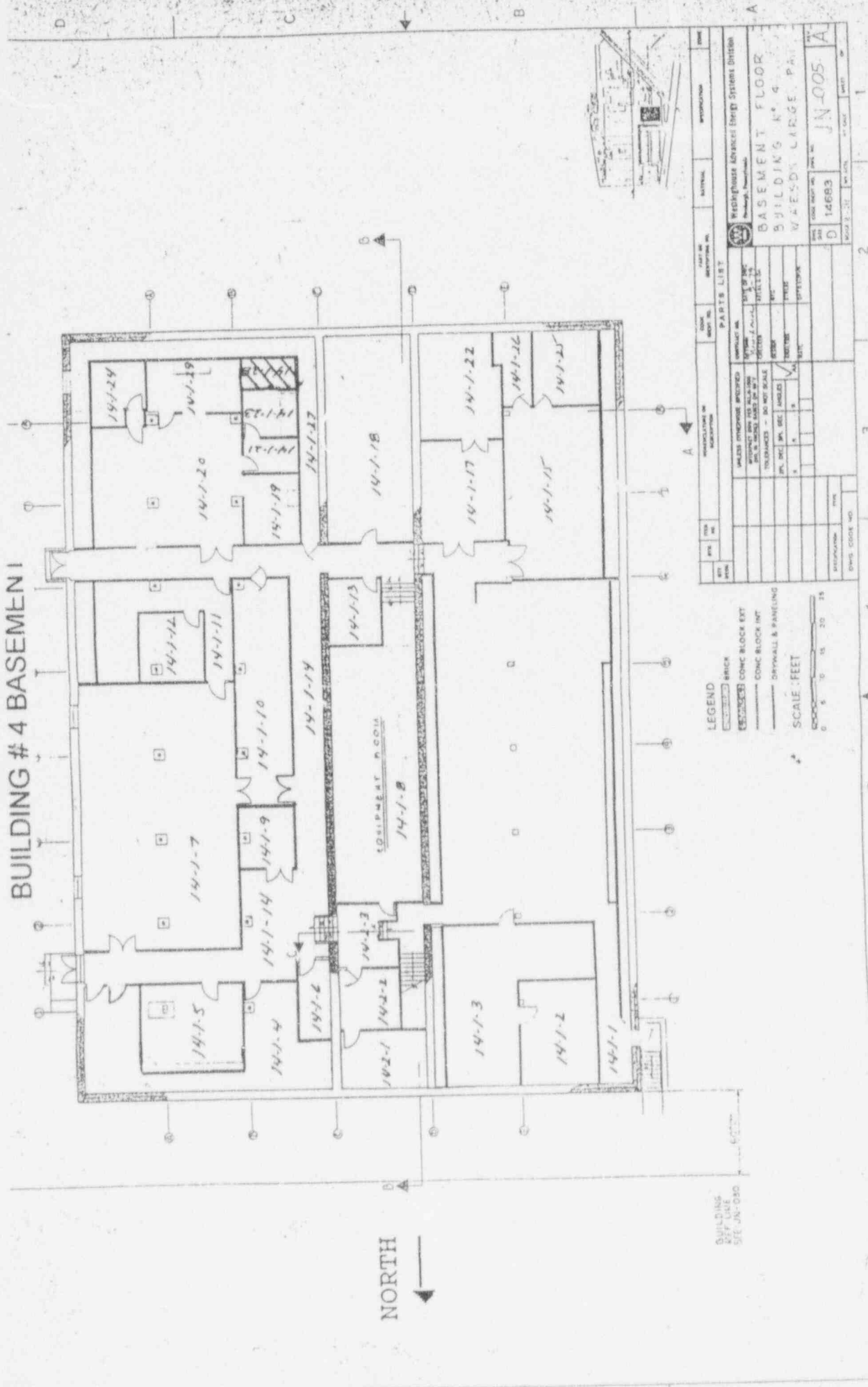
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: pc210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
3	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/15/92 13:14

BUILDING # 4 BASEMENT I



NORTH
←

QUANTITY
BY DATE
SEE JAN-030

LEGEND
 [Symbol] BRICK
 [Symbol] CONC BLOCK EXT
 [Symbol] CONC BLOCK INT
 [Symbol] SPPWALL & PANELING
 SCALE - FEET
 0 5 10 15 20 25

NO	QTY	UNIT	DESCRIPTION	MARKING	MANUFACTURE OR SOURCE	DATE	BY	CHKD
PARTS LIST								
ALLIED PRODUCTS INCORPORATED 1000 W. 10TH AVE. S.W. MINNAPOLIS, MN 55408 TEL: 612-338-1111								
PARTS LIST 14-1-1-1 14-1-1-2 14-1-1-3 14-1-1-4 14-1-1-5 14-1-1-6 14-1-1-7 14-1-1-8 14-1-1-9 14-1-1-10 14-1-1-11 14-1-1-12 14-1-1-13 14-1-1-14 14-1-1-15 14-1-1-16 14-1-1-17 14-1-1-18 14-1-1-19 14-1-1-20 14-1-1-21 14-1-1-22 14-1-1-23 14-1-1-24 14-1-1-25								
REPLICASE Advanced Energy Systems Division BUILDING # 4 WAREHOUSE LARGE PARTS D 14683 JN-005-A								

LB5100W Low Background Counting System – Smear Analysis

Date: 12/15/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140129.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

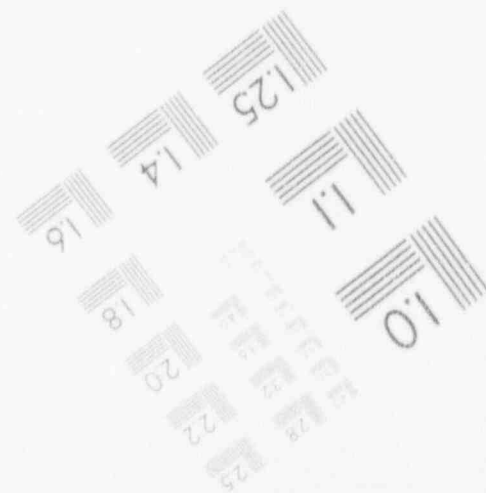
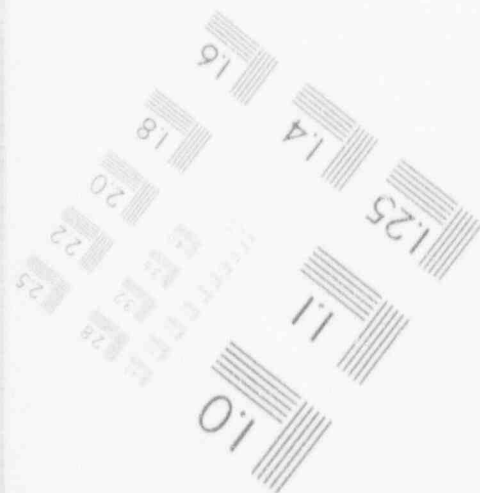
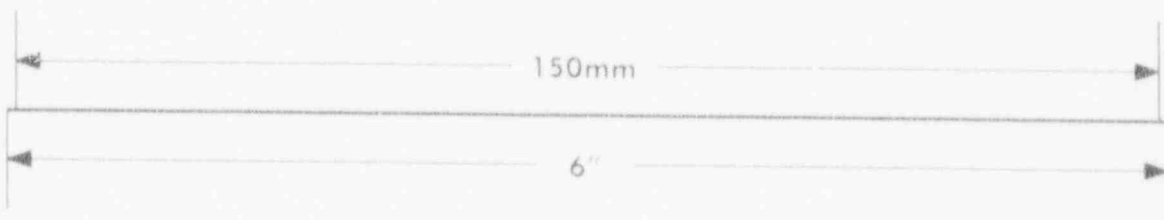
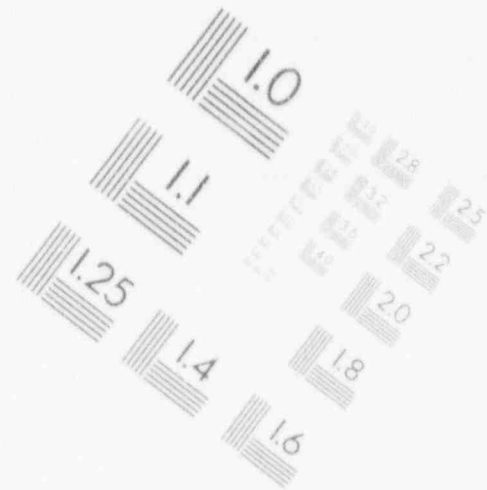
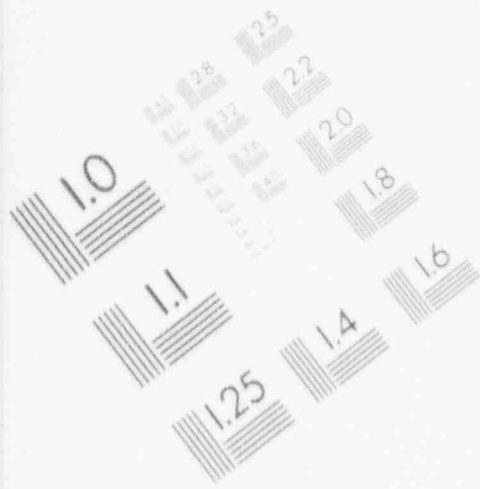
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/15/92 13:15

2

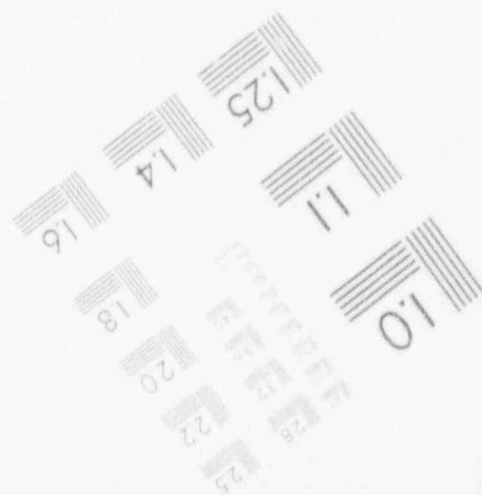
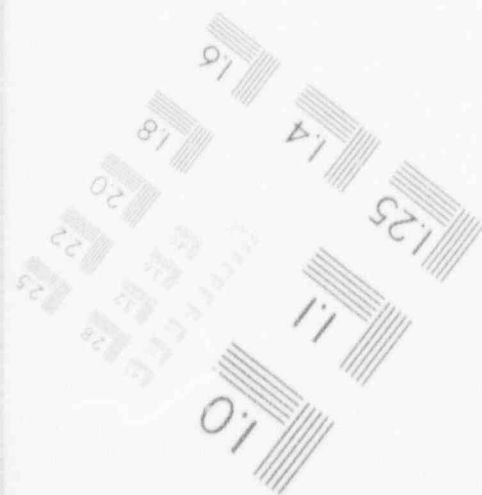
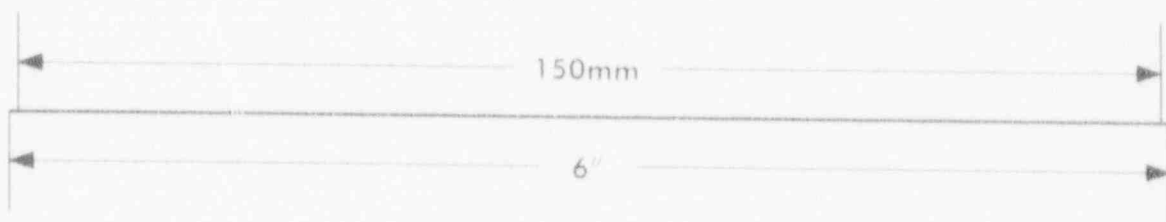
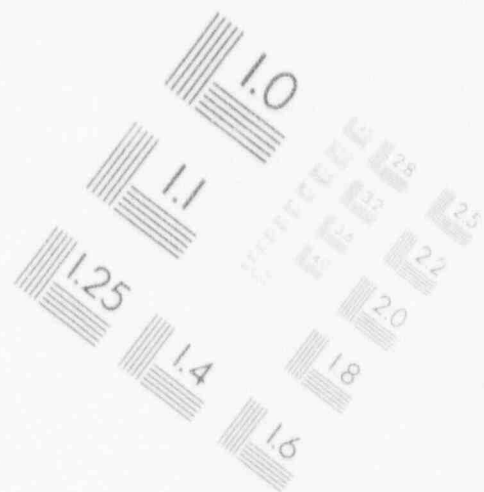
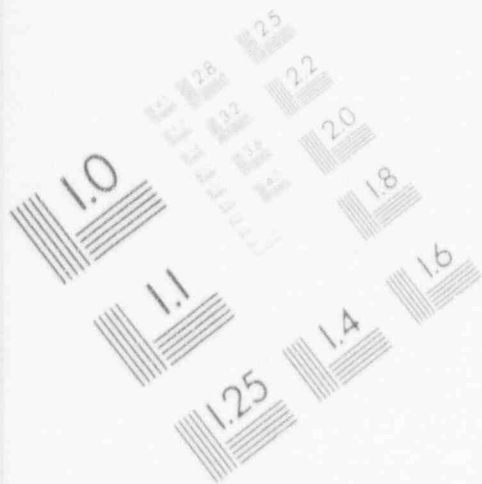
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

2

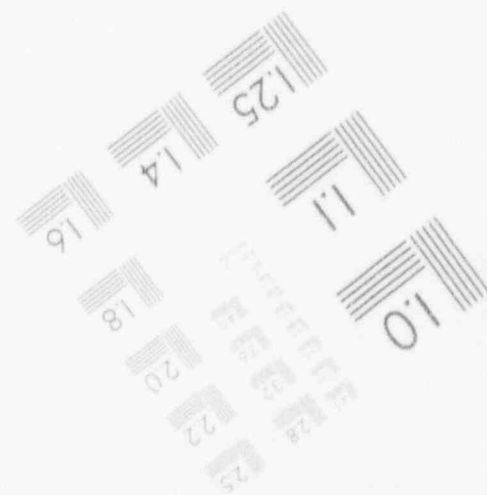
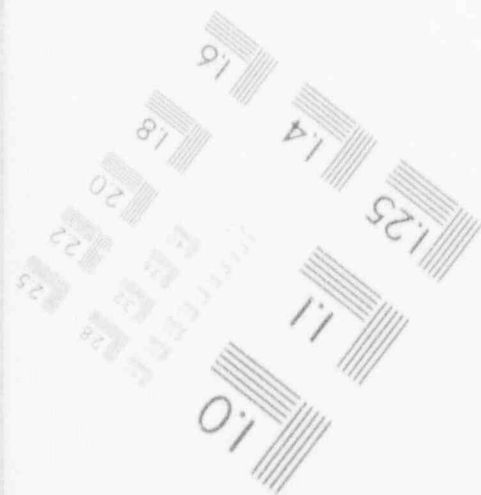
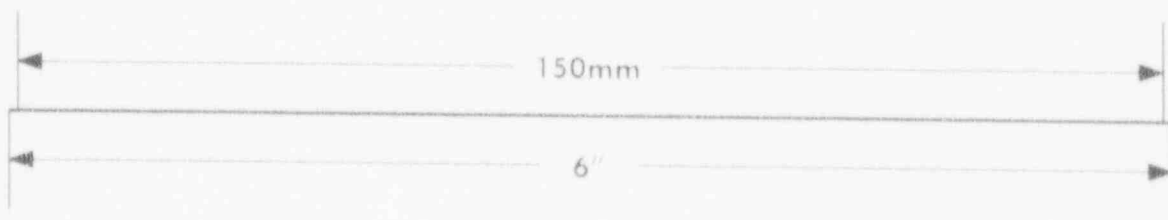
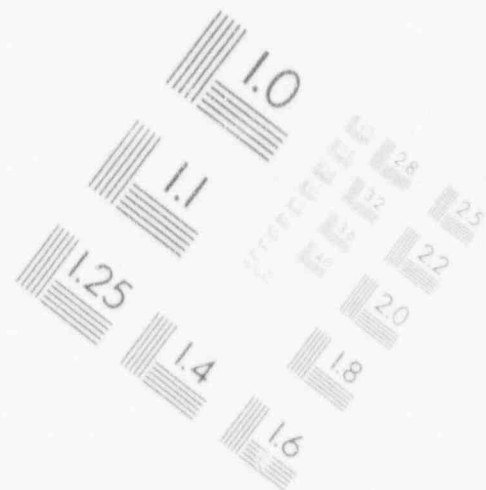
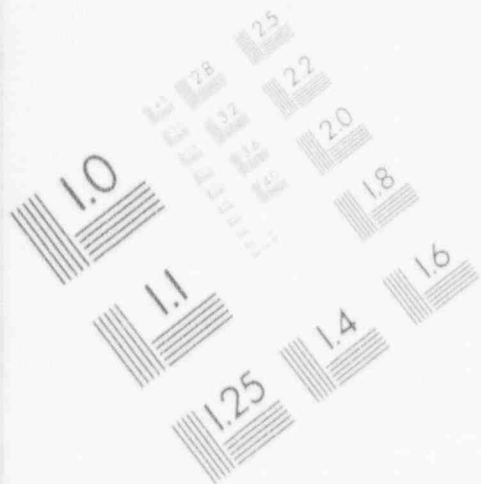
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

2

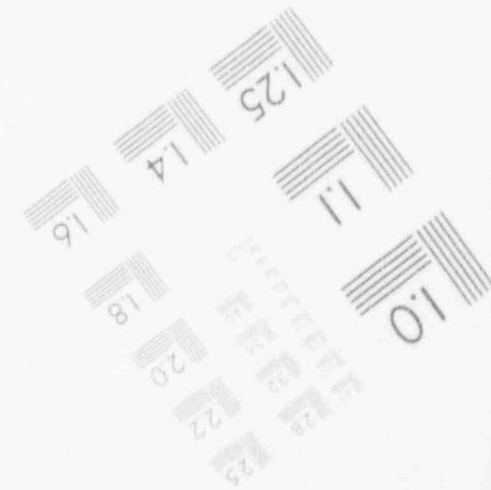
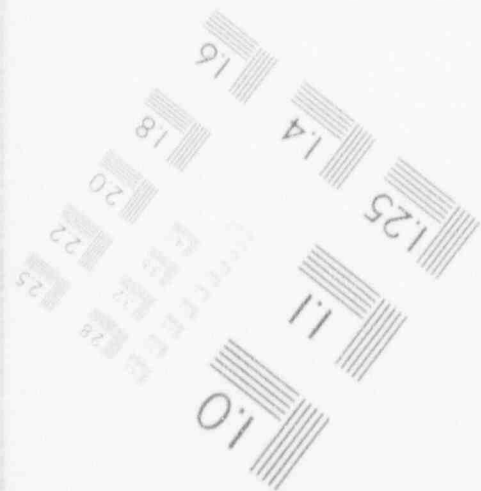
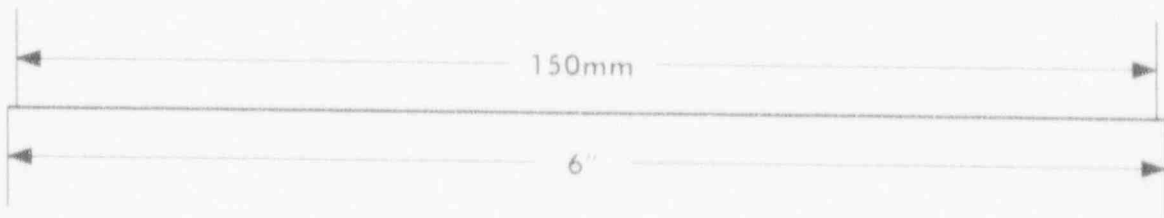
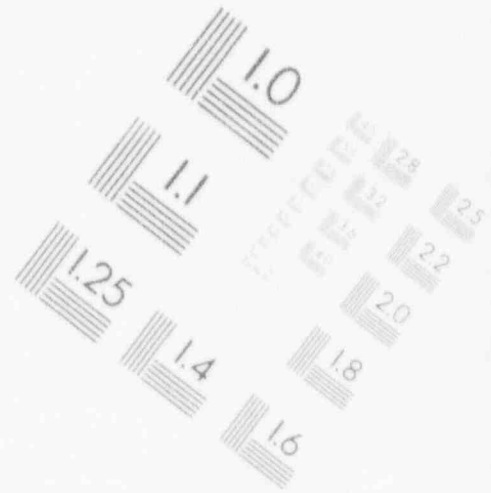
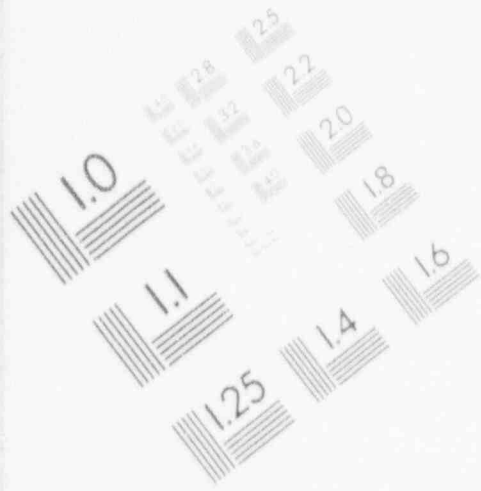
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

2

IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 2

REPORT #015

DECOMMISSIONING FIELD DATA SHEET


(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	160
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	20.4%	4.9	42	*	FLMON:91943	30.3%	3.3	1318

SURVEY DATE: 1/18/93
COUNT DATE: 1/18/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.015 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor - Concrete	2, -2	N/A	13	.015	1383	1330	66	1400	-0.149	3.10	Floor Monitor used for
"	4, -2	"	12	.013	1492	1420	61	1504	-0.149	-2.82	scans & 1 min. counts
North Wall	2, -1	"	N/A	N/A	184	150	0	169	-0.149	9.03	ESP-2's
"	4, -1	"	"	"	173	140	0	167	-0.149	-2.82	"
East Wall - Brick	2, -1	"	"	"	269	220	.999	281	-0.149	-2.82	"
West Wall - Brick	2, -1	"	"	"	268	230	0	226	-0.149	-2.82	"
"	2, +1	"	"	"	295	250	.999	223	-0.149	-2.82	"
Pipe #1 @ North Wall	4, -1	"	"	"	228	180	3	118	-0.149	-2.82	"
Pipe #2 fr. N. Wall	4.1, -2	"	"	"	240	180	.999	152	-0.149	-2.82	"

FORM SERIAL #: 14.025 (Survey Section - Sequential survey #)	LOCATION # 14-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: II (Group I, II, III, IV)	DISK FILE CODE: FDS-0169	SURVEYOR SIGNATURE: 
---	---	---	--------------------------	--

LB5100W Low Background Counting System – Smear Analysis

Date: 1/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140201.XLD
 Batch Ended: 1/18/93 11:48
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

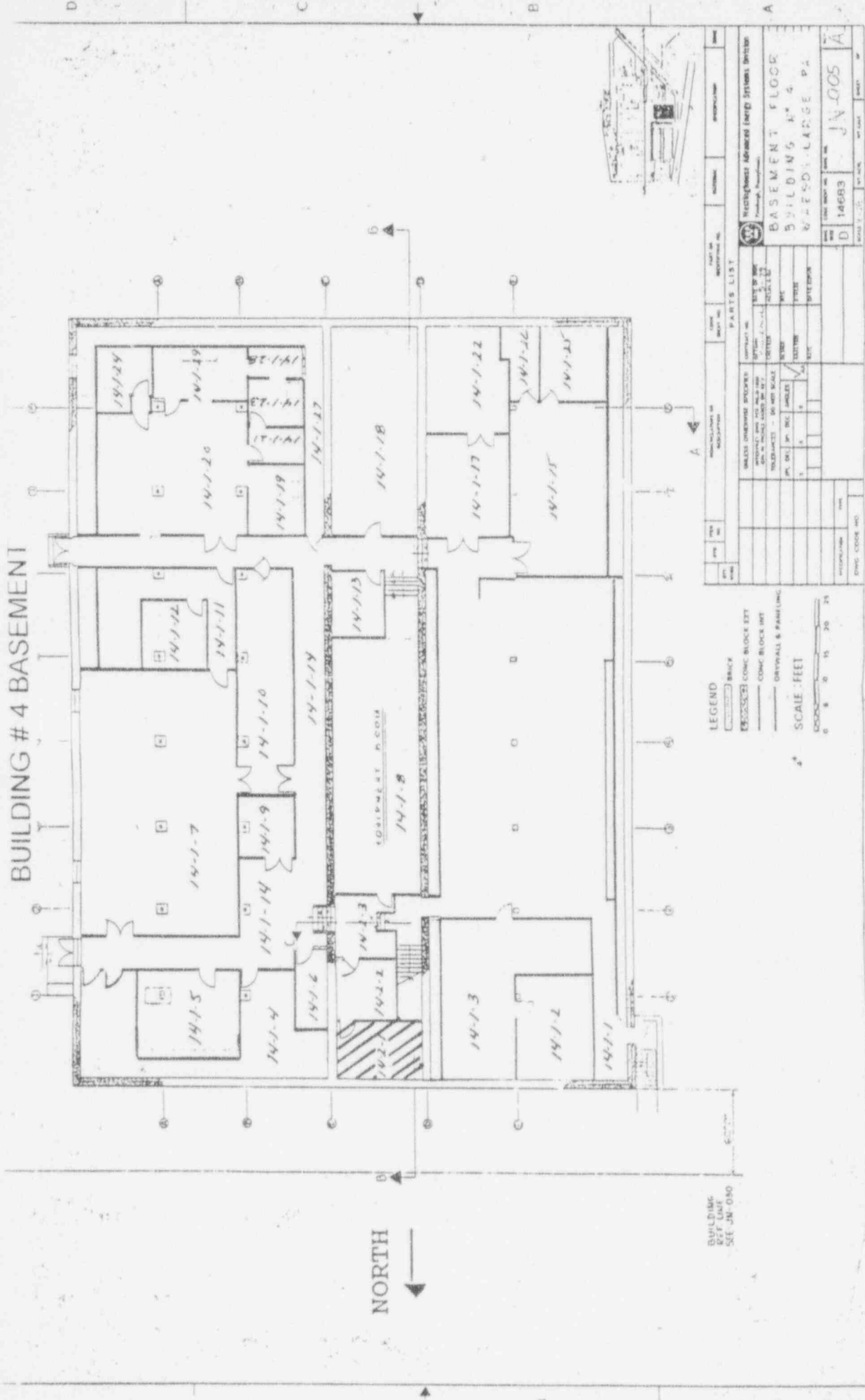
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401345789

Batch ID: TSB - 14-2-1 everything

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 11:44
2	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 11:45
3	-0.149	1.35	<MDA	27.24	8.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/18/93 11:45
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:46
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:46
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:47
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 11:47
8	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 11:48
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:48

BUILDING # 4 BASEMENT



NORTH
←

BASELINE
DEF. UNIT
SEE JN-040

LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] GYPSUM & PARTITION
 [Symbol] SCALE - FEET
 0 5 10 15 20 25

PARTS LIST		REVISIONS	
NO.	DESCRIPTION	DATE	BY
1	BASEMENT FLOOR		
2	BUILDING # 4		
3	WAPESD - LARGE PA		

PROJECT NO.	14683
DRAWING NO.	JN-005 A
DATE	
SCALE	

(*) IF USED	ALPHA SURVEY EQUIPMENT			BETA SURVEY EQUIPMENT		
	INST. S/N	EFF	C.F.	INST. S/N	EFF	C.F.
	ESP2: 1517	21.7%	4.7%	ESP2: 1595	34.2%	2.92
*	ESP2: 1517-L	21.7%	4.60	ESP2: 1595-L	31.3%	3.20
	ESP2:					
	ESP2:					
	ESP2:					
	ASPI: 1891	19.1%	5.23	ES20: 5242	20.3%	4.92
	PAC4G: 4478	18.5%	5.4	ES20: 5245		
				PAC4G: 4478	33.5	3.0
*	FLMON: 91943	20.4%	4.9	FLMON: 91943	30.3%	3.3
						1318

SURVEY DATE:	1/18/93
COUNT DATE:	1/18/93

(*) IF USED	COUNTING EQUIPMENT (ALPHA)			COUNTING EQUIPMENT (BETA)		
	INST. S/N	EFF	C.F.	INST. S/N	EFF	C.F.
*	TENN: 13295	36.9%	2.7	TENN: 13295	49.6%	2.01
	SAC4: 1128	40.5%	2.47	MS-2: 1848	25.0%	4.0
	SAC4: 263	34.3%	2.91	BC-4: 208	17.9%	5.57

(*) IF USED	GAMMA OR BETA/GAMMA EQUIP		vR/hr
	INST. S/N	BKG	
	R/S: L-2088		vR/hr
*	PM7: 234	12	vR/hr
	ES20: 5242		vR/hr
	ES20: 5245		vR/hr
*	ESP2: 1522	.015	vR/hr

SURFACE DESCRIPTION	GRID	X Y REF POINT	GAMMA P 1 M, vR/hr	BETA/GAMMA CONT, vR/hr	SCAN CONTACT CROSS CPM		CONTACT CROSS 1 MIN. CT.		SWEAR LEVELS IN CPM/100CM2		COMMENTS
					MAX BETA	AVC S.T.A	ALPHA	BETA	ALPHA	BETA	
Tiled floor	2-2	N/A	12	.016	1241	1200	65	1156	-0.149	3.10	Fleeson used for scans
"	2-4	"	12	.015	1259	1180	51	1155	-0.149	-2.82	1 min counts.
East wall (Brick)	2-1	"	N/A	N/A	238	180	3.0	249	-0.149	-2.82	ESP's used for scans
"	4-1	"	"	"	266	225	2.0	254	8.048	3.28	1 min counts.
West wall (Brick)	2-1	"	"	"	180	135	0	178	-0.149	9.26	"
"	4-1	"	"	"	223	190	0	179	-0.149	3.10	"
"	2-1	"	"	"	471	140	2.0	199	-0.149	-2.82	"
"	4-1	"	"	"	254	210	2.0	193	-0.149	3.28	"
Overhead pipe (HT)	2.2-1	"	"	"	183	140	0	148	-0.149	-2.82	"
"	2.2-4	"	"	"	150	125	2.0	143	-0.149	-2.82	"

FORM SERIAL #: 19-026
 (Survey Section - Sequential survey #)

LOCATION #: 14-2-2
 (Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: II
 (Group I, II, III, IV)

DISK FILE CODE: FOS-0170

SURVEYOR: *[Signature]*

LB5100W Low Background Counting System – Smear Analysis

Date: 1/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140202.XLD
 Batch Ended: 1/18/93 11:54
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

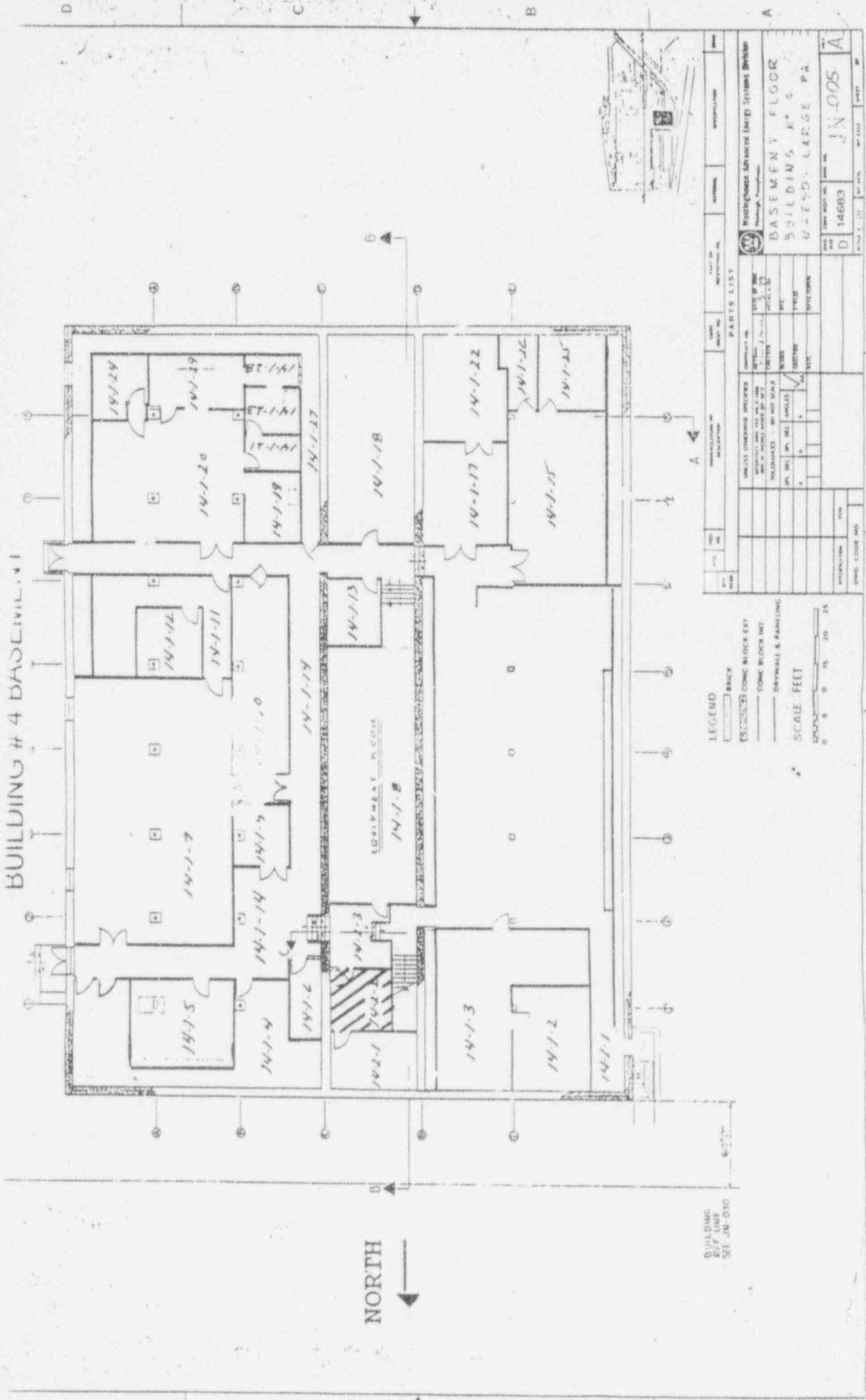
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 14-2 2 everything

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	flags	MDA					
10	-0.149	1.35	<MDA	27.24	3.10	22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 11:49
11	-0.149	1.37	<MDA	27.98	-2.82	19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:49
12	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:50
13	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	1/18/93 11:50
14	-0.149	0.79	<MDA	10.65	9.26	5.49	<AL	16.60	1.00	-0.055	4.60	1/18/93 11:51
15	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 11:52
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:52
17	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/18/93 11:53
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:53
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:54

BUILDING # 4 BASEMENT



NORTH
←

BUILDING
SEE JN-030

LEGEND
 BACK
 CONCRETE BLOCK EXT
 CONCRETE BLOCK INT
 DRYWALL & PANELING
 SCALE - FEET
 0 5 10 15 20 25

PARTS LIST

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	CONCRETE BLOCK EXT				
2	CONCRETE BLOCK INT				
3	DRYWALL & PANELING				

Washington Advances United States Division

BASMENT FLOOR
 BUILDING # 4
 WAFSD - LARGE PA

DATE: 14683
 DRAWN BY: JN-005
 CHECKED BY: A

(#) IF USED	ALPHA SURVEY EQUIPMENT				BKG CPM	(#) IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.				INST: S/N	EFF	C.F.	BKG CPM
	ESP2: 1517	21.1%	4.74			ESP2: 1595	34.2%	2.92		
#	ESP2: 1517-L	21.7%	4.60	0	#	ESP2: 1595-L	31.3%	3.20	160	
	ESP2:					ESP2:				
	ESP2:					ESP2:				
	ESP2:					E520: 5242	20.3%	4.92		
	ASP1: 1891	19.1%	5.23			E520: 5245				
	PAC4G: 4478	18.5%	5.4			PAC4G: 4478	33.5	3.0		
#	FLMON: 91943	20.4%	4.9	42	#	FLMON: 91943	30.3%	3.3	1318	

SURVEY DATE:	1/18/93
COUNT DATE:	1/18/93

(#) IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-208R	uR/hr
#	PRM7: 234	12 uR/hr
	E520: 5242	uR/hr
	E520: 5245	uR/hr
#	ESP2: 1522	.015 uR/hr

(#) IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.5%	2.47	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
(#) IF USED	INST: S/N	EFF	C.F.	BKG
#	TENN: 13295	49.6%	2.01	1.40
	MS-2: 1848	25.0%	4.0	
	BC-4: 208	17.9%	5.57	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA # 1 M. uR/hr	BETA/GAMMA CONT. uR/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor tile	-1, 0	N/A	12	.021	1288	1200	61	1190	-0.149	9.03	Floors used for scans
"	2, 0	"	12	.011	1200	1170	51	1098	-0.149	-2.82	# 1 min counts
"	-1, -2	"	12	.017	1199	1140	48	1126	-0.149	3.28	"
"	2, -2	"	12	.010	1192	1150	40	1122	-0.149	3.28	"
Ceiling	-1, 0	"	N/A	N/A	225	185	5	164	-0.149	-2.82	ESP's used for scans
"	-1, -2	"	"	"	228	170	2.0	208	-0.149	9.39	# 1 min counts
Ceiling (concrete)	2, -2	"	"	"	265	180	5.0	185	-0.149	3.28	"
East wall (brick)	2, -1.2	"	"	"	256	230	6.0	262	-0.149	3.10	"
West wall (block)	2, -1.2	"	"	"	193	160	3.0	157	-0.149	-2.82	"
South wall (brick)	2, -1.2	"	"	"	204	190	3.0	223	-0.149	3.10	"
I-beam on ceiling	.5, -1	"	"	"	171	150	2.0	124	-0.149	-2.82	"
Overhead Pipe #1	2.2, -1	"	"	"	171	135	0	115	-0.149	3.22	"

FORM SERIAL #: 14-027 (Survey Section - Sequential survey #)	LOCATION #: 14-2-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: II (Group I, II, III, IV)	DISK FILE CODE: FDS-D171	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\140203.XLD
 Batch Ended: 1/18/93 12:01
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: .\o210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 14-2-3 everything

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
20	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/18/93 11:54
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:55
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/18/93 11:56
23	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/18/93 11:56
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 11:57
25	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/18/93 11:57
26	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/18/93 11:58
27	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 11:58
28	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/18/93 11:59
29	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/18/93 11:59
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/18/93 12:00
31	-0.149	0.79	<MDA	10.65	3.22	4.24	<MDA	16.60	1.00	-0.055	1.60	1/18/93 12:01

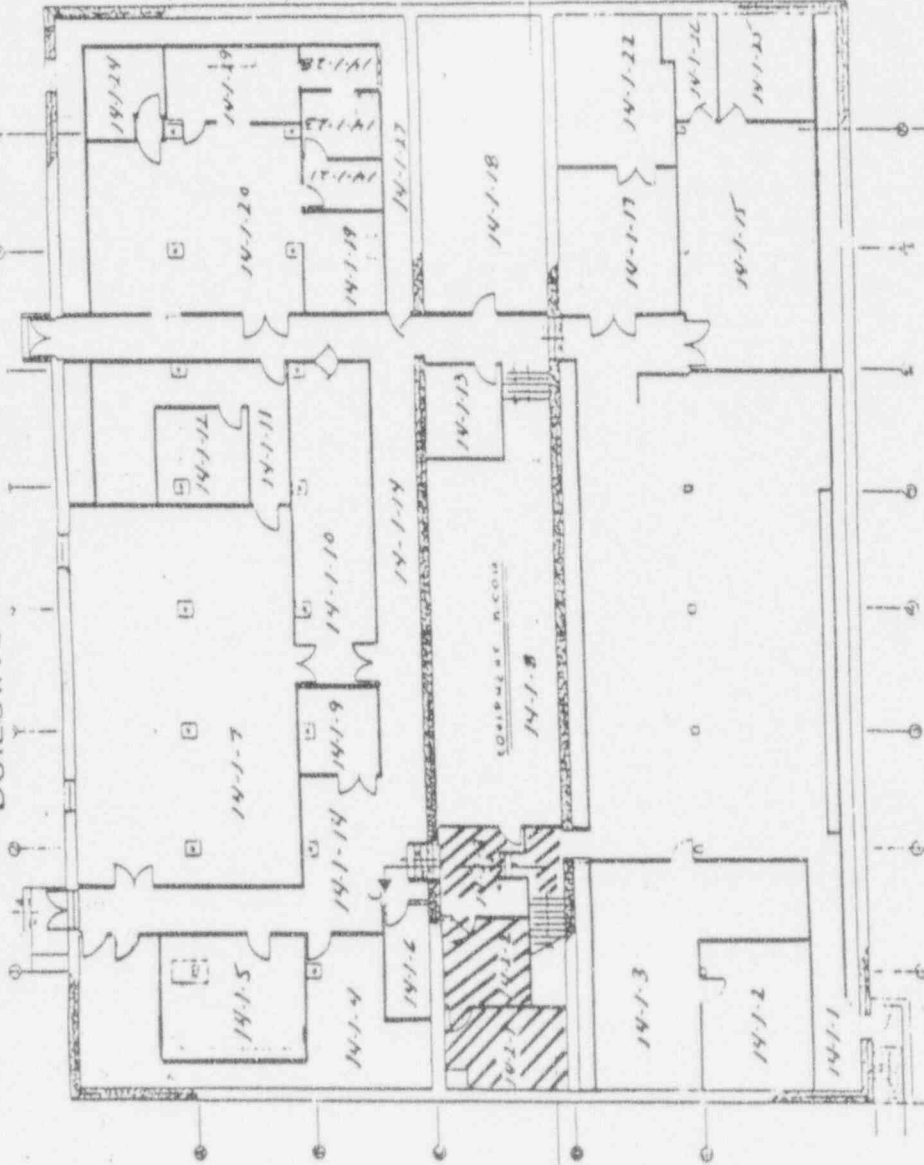
APPENDIX C

RADIOLOGICAL SURVEY DATA SHEETS FOR BETA SCANS OF FLOOR

BUILDING # 4 BASEMENT

NORTH

DUPLICATE
R-F LINE
SEE JM-030



LEGEND

- BACK
- ▨ CONCRETE BLOCK
- ▤ CONCRETE BLOCK W/IT
- ▥ OPTIMIZED & PANELING

SCALE FEET



PARTS LIST

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	CONCRETE BLOCK	100	EA	
2	CONCRETE BLOCK W/IT	50	EA	
3	OPTIMIZED & PANELING	100	SQ FT	

BASEMENT FLOOR
BUILDING # 4
RES-DN LARGE PA

DATE: 11/15/83
DRAWN BY: JN-005

