



Westinghouse
Electric Corporation

Commercial Nuclear
Fuel Division

RS 93-020

Box 355
Pittsburgh Pennsylvania 15230-0355

April 16, 1993

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

Attention: Mr. C. T. Oberg

Subject: Fourth 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 eight 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 Table 1 which lists the titles of the reports which have been and are being submitted.

Westinghouse requests that special consideration be given to an early review of two specific reports which have been submitted. In order to return the site to the owner Westinghouse currently plans to backfill at least portions of the two pits associated with the Monitored Drain Line system. Reports #008 and #016 cover the final radiological survey of these two pits. An early authorization to backfill these pits would permit Westinghouse to schedule this work in a timely manner.

Attached is a short technical note which identifies a discrepancy which has been identified in the calculation of the standard deviation of measurements made for the final radiological survey.

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

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PDR ADOCK 07000997
B PDR

Enclosures



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The Westinghouse Commercial Nuclear Fuel Division — Winner of the 1988 Malcolm Baldrige National Quality Award

LICENSE TERMINATION REPORT

USNRC LICENSE

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	<u>Date Submitted</u>
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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

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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
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REPORT #017 FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 6, (SURVEY SECTION 4), MARCH 11, 1993	4/16/93
REPORT #018 FINAL RADIOLOGICAL SURVEY OF BUILDING NO. 11, (SURVEY SECTION 28I), MARCH 15, 1993	4/16/93
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REPORT #020 FINAL RADIOLOGICAL SURVEY OF THE FIRST FLOOR OF BUILDING NO. 9, (SURVEY SECTION 10), MARCH 17, 1993	4/16/93
REPORT #022 FINAL RADIOLOGICAL SURVEY OF THE SECOND FLOOR OF BUILDING NO. 9, (SURVEY SECTION 28G), MARCH 17, 1993	4/16/93
REPORT #023 FINAL RADIOLOGICAL SURVEY OF THE SECOND FLOOR OF BUILDING NO. 5, (SURVEY SECTION 2), MARCH 30, 1993	4/16/93

REPORT #024 FINAL RADIOLOGICAL SURVEY OF THE THIRD FLOOR OF
BUILDING NO. 5, (SURVEY SECTION 3), MARCH 31, 1993

4/16/93

March 31, 1993
A. J. Nardi

TECHNICAL NOTE

DISCUSSION OF THE CALCULATION OF STANDARD DEVIATION

Each of the Final Radiological Reports presents a statistical summary of the Survey Data in which the Minimum Value, Maximum Value, Average Value and Standard Deviation is calculated for each type of measurement for each unit of a survey section. Report #009 (Appendix D, Page 8.9, equation #8-12) states that the standard deviation will be calculated using the "n-1" method to calculate an unbiased standard deviation for a sample. All the calculations presented in the reports use @STD Macro in the Lotus 1-2-3 computer program to calculate the standard deviation. A review of the Lotus documentation indicates that the @STD Macro uses the "n" method to calculate the standard deviation. Thus each value of the standard deviation reported in the reports for this project are low by the ratio:

$$[n/(n-1)]^{1/2}$$

A review calculation of this ratio for all the calculated standard deviations presented in the reports issued to date (through Report #020) indicates that the largest difference would be a 15.5% increase in the value for one standard deviation with all the others having less than a 10% increase in value. The average increase is 1.6% for the 354 values for the standard deviations presented in these reports.

Based on this review, the following steps will be taken:

- 1) No change will be made in the method for calculation of the standard deviation for individual reports so there will be no confusion over which formula was used.
- 2) A discussion of this issue will be presented in the final summary report to document the standard deviation calculated by both methods.

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE PIT IN BUILDING NUMBER 9
(SURVEY SECTION 9)

MARCH 10, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #016

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LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE PIT IN BUILDING NUMBER 9
(SURVEY SECTION 9)

MARCH 10, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #016

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FINAL RADIOLOGICAL SURVEY
OF THE PIT IN BUILDING NUMBER 9
(SURVEY SECTION 9)

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Appendix D - Radiological Survey Data Sheets For Floor Drain Removal and Core Borings	

FINAL RADIOLOGICAL SURVEY
OF THE PIT IN BUILDING NUMBER 9

(Survey Section 9)

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 pit (or basement level) of Building Number 9 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 first and second floors of Building 9 will be documented in other reports.

Background

This pit was part of the Monitored Drain Line (MDL) System that has been removed. (Report #002 provides information concerning the removal of the MDL piping that terminated at the tanks which had been located in this pit). Figure 1 shows the general location of this pit within Building #9 on the site. The pit is an integral part of Building #9 and is the only portion of the building located below grade. It is sometimes referred to as the basement level for the building. Physically the pit is 40'4" long (12.3 meters) by 19'11" wide (6.1 meters) by 20'4" deep (6.2 meters). The walls and floors of the pit are reinforced concrete. During operations, three tanks (approximately 1800 gallons each) and the associated piping, valves, pumps, filters, etc. were

located in the pit. All suspect water collected on the site by the MDL system eventually reported to the tanks in the pit for treatment and analysis prior to discharge to the storm sewer. Water flow into the pit was by gravity flow and the discharge was by pumping.

The ground water level in this area of the site is at about 6 or 7 feet below grade which was above the level of the inlet piping of the MDL system to the pit and well above the floor level of the pit. The structural condition of the walls and floors of the pit was excellent with no indication of foundation cracks. There was a small continuous inflow of groundwater to the pit which was primarily due to leaks in pipes associated with groundwater drainage. All water on the floor of the pit was collected by two floor drains which connected to a floor sump via buried piping. A sump pump was used to return the water to the holding tanks. In later years, while there was no work with radioactive material, the sump pump was piped to discharge directly to the storm sewer since only ground water was entering the sump.

Cleanup of the pit was minimal in nature. A preliminary survey (see Report #006) did indicate localized contamination in one corner which was confirmed by later surveys. The tanks and all associated piping and equipment were removed from the pit for appropriate disposal. The structures external to the tanks and pipes were cleaned, surveyed and released. The tanks, piping, pumps, etc. were packaged as appropriate for transport to licensed operations for disposal. The surfaces of pit were washed down and then a radiological survey was conducted.

One corner (the southwest corner) of the pit was found to have fixed contamination levels that were elevated for both alpha and beta/gamma radiation readings although the levels were below the acceptance criteria. This corner had a small area which was diked by a concrete curb and had water treatment equipment (i.e., filter banks) located within the diked areas. The concrete surface within this diked area was removed to further reduce the fixed activity levels.

The floor drain system was dug up because of the difficulty of performing an adequate survey of the buried piping. This piping was actually encased in the thick concrete floor rather than being beneath the floor. After removal of the floor drain piping, a survey was conducted and samples taken for Analytical Laboratory analysis by gamma spectrometry. The drain system was then replaced by new piping and the floor surface restored. The hydraulic pressure of the groundwater is such that it has not been possible to completely seal the joint between the old and new concrete and groundwater leakage continues.

It was also decided to take subsurface soil samples beneath the pit floor. Since there were no structural cracks to guide a sampling program, a pattern of 13 sample locations were identified and core borings were made through the concrete floor. Samples were taken of the subsurface material and the core bore holes were then patched. In retrospect, the hydraulic pressure of the groundwater is so high that it is impossible to conceive of how any contaminated water spilled within the pit could have reached the subsurface since any leakage would be into the pit.

A sample of the accumulated sludge in the floor sump was taken for gamma spectroscopy analysis. Based on the results, the sump was cleaned out and the sludge was packaged for disposal.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the general location of the Pit within Building 9 on the site. The pit has been designated as Survey Section 9 (see Report #009). Appendix A incorporates the final radiological survey data sheets including the post-decon survey of the southeast corner of the pit after removal of the surface of the concrete. Table 1 presents the final survey data with all the results converted, as appropriate, to the units necessary for comparison against the radiological acceptance criteria. For that portion of the floor that underwent surface removal as a decontamination step, only the final survey results are included in the Table. A statistical analysis is included at the end of Table 1 to determine if the acceptance criteria have been met at the desired degree of confidence. The scan survey data in Table 1 represents a 100% scan of the floor surface since each scan around a survey point covered an area of about 1 square meter and the grid pattern selected was a 1 meter by 1 meter grid. Therefore no separate table of scan survey data is required.

An earlier survey of the floor was conducted during October 1992 and these results are included in Appendix B. However, since this early floor survey information was not in the same format as recent surveys, and it was decided to conduct some decontamination work, the floor survey was repeated. One difference is that the early survey included floor scans for alpha radiation which was not included in the later survey. In addition, the radiological survey data for gamma dose rate at 1 meter, beta-gamma dose rate on contact and the smear surveys for removable alpha and beta radiation were not repeated. Therefore, that survey data in Appendix B represents valid information not included in Table 1 which will be incorporated in the overall review. Table 2 presents an overall summary of the combined radiological survey data from Tables 1 and B1 for this survey unit.

Samples from subsurface media were taken for two purposes:

- 1) Samples taken from below the floor drain piping after removal of the drain piping. These samples are primarily chipped concrete since the drain line was encased in the concrete floor and the removal process did not go deep enough to penetrate the bottom of the concrete floor slab.
- 2) Subsurface samples taken after removing a core boring from the floor slab.

The analytical laboratory report sheets for these samples are included in Appendix C. Information regarding the location of these samples is included in Appendix D. Table 3 presents a summary of the analytical results for the measurement U^{235} in soil (pCi/gram). A statistical analysis is included at the end of the Table to determine if the acceptance criteria have been met at the desired degree of confidence. One initial sample (designated as 382-N/A-26) was initially found to exceed the working criteria of 1 pCi/gram for U-235 in the sample. This sample location is at the end of the floor drain system at the southeast corner of the pit where the surface concrete was found to be elevated in radiation readings. A confirmatory sample (designated as 398-N/A-26) taken at the same location did not indicate any contamination. It is probable that the initial sample included some concrete chips from the surface and therefore was not representative of the surface beneath the pipe.

Current Status

Building 9 is an occupied building. It is anticipated that use of portions of this building will continue throughout the project. The north end of the pit includes the below grade portion of a large material testing machine that is periodically used. Current plans are to fill in the major portion of the pit as part of the effort to restore the site to an acceptable condition to return the site to the owner. The portion of the pit which houses the material testing equipment would probably remain in the current condition.

Conclusions

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

GENERAL LOCATION OF PIT IN BUILDING #9

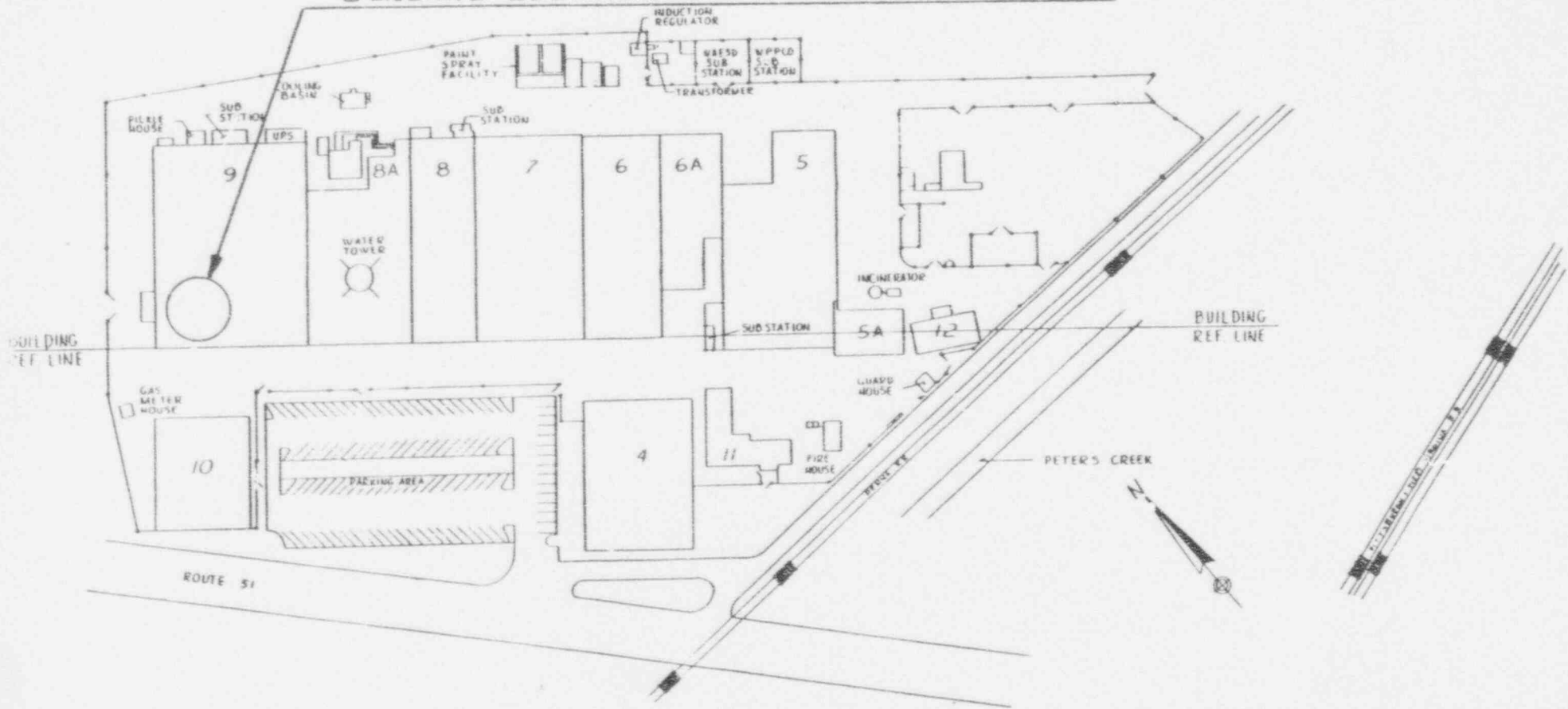


FIGURE 1
SITE PLOT PLAN

REV	DATE	DESCRIPTION	DATE	DESCRIPTION	REVISION	DESCRIPTION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED			CONTRACT NO.		Westinghouse Advanced Energy Systems Division	
DIMENSIONS ARE PER UNLESS NOTED			DATE OF ISSUE		Pittsburgh, Pennsylvania	
TOLERANCES - SEE DETAIL			DRAWN		W.A.E.S.D. LARGE PA	
FINISHES - SEE DETAIL			CHECKED		DATE	
MATERIALS - SEE DETAIL			DATE		SCALE	
COLORS - SEE DETAIL			DATE		BY	
TEXT - SEE DETAIL			DATE		BY	
NOTES - SEE DETAIL			DATE		BY	
PROVISIONS			DATE		BY	
DRAWING CODE NO.			DATE		BY	
D			14683		JNO 30	
SCALE			BY		BY	

TABLE 1
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 9 PIT (SECTION 9, UNIT 1)

LOCATION DESCRIPTION	LOC. CODE	GAMMA SURVEY		BETA/GAMMA SURVEY		SCAN RESULTS		SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
		AT 1 METER	ON CONTACT	MAXIMUM ALPHA	AVERAGE ALPHA	MAXIMUM BETA	AVERAGE 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	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²
? Floor-Concrete ? 1-A ? 1, -1 9-1-1								31.2	-34.4	12.2	-46.4		
? " ? 1-B ? 2, -1 9-1-1								-92.7	-186.3	6.1	-210.3		
? " ? 1-C ? 3, -1 9-1-1								135.9	101.5	17.1	80.0		
? " ? 1-D ? 4, -1 9-1-1								47.2	-26.4	19.5	50.4		
? " ? 2-A ? 1, -2 9-1-1								-9.6	-50.4	7.3	-49.6		
? " ? 2-B ? 2, -2 9-1-1								-2.4	-58.4	9.8	-47.2		
? " ? 2-C ? 3, -2 9-1-1								272.6	149.5	13.4	-46.4		
? " ? 2-D ? 4, -2 9-1-1								179.9	85.6	24.4	95.1		
? " ? 2-E ? 5, -2 9-1-1								131.1	61.6	9.8	100.7		
? " ? 3-A ? 1 3 9-1-1								-43.2	-122.3	7.3	-56.8		
? " ? 3-B ? 2, -3 9-1-1								-23.2	-114.3	11.0	-48.0		
? " ? 3-C ? 3, -3 9-1-1								223.1	69.6	8.5	167.1		
? " ? 3-D ? 4, -3 9-1-1								91.9	53.6	4.9	-49.6		
? " ? 3-E ? 5, -3 9-1-1								123.9	65.6	17.1	63.2		
? Floor-Concrete ? 4-A ? 1, -4 9-1-1								36.0	-10.4	12.2	29.6		
? " ? 4-B ? 2, -4 9-1-1								177.5	61.6	17.1	111.1		
? " ? 4-C ? 3, -4 9-1-1								184.7	77.6	18.3	118.3		
? " ? 4-D ? 4, -4 9-1-1								259.9	141.5	8.5	127.9		
? " ? 4-E ? 5, -4 9-1-1								62.4	21.6	17.1	51.2		
? " ? 5-A ? 1, -5 9-1-1								237.5	125.5	15.9	139.1		
? " ? 5-B ? 2, -5 9-1-1								143.1	101.5	17.1	77.6		
? " ? 5-C ? 3, -5 9-1-1								121.5	77.6	19.5	139.1		
? " ? 5-D ? 4, -5 9-1-1								207.1	77.6	15.9	79.2		
? " ? 5-E ? 5, -5 9-1-1								119.1	101.5	18.3	179.9		
? " ? 6-A ? 1, -6 9-1-1								167.9	117.5	24.4	116.7		
? " ? 6-B ? 2, -6 9-1-1								128.7	85.6	23.2	136.7		
? " ? 6-C ? 3, -6 9-1-1								139.1	5.6	19.5	9.6		
? " ? 6-D ? 4, -6 9-1-1								52.8	-34.4	17.1	-11.2		
? " ? 6-E ? 5, -6 9-1-1								42.4	-2.4	29.3	24.0		
? Floor-Concrete ? 7-A ? 1, -7 9-1-1								51.2	-2.4	33.0	-8.0		
? " ? 7-B ? 2, -7 9-1-1								41.6	-2.4	29.3	31.2		
? " ? 7-C ? 3, -7 9-1-1								130.3	53.6	36.6	78.4		
? " ? 7-D ? 4, -7 9-1-1								242.3	93.5	30.5	99.1		
? " ? 7-E ? 5, -7 9-1-1								218.3	69.6	36.6	65.6		
? " ? 8-A ? 1, -8 9-1-1								25.6	-10.4	19.5	-3.2		

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 9 PIT (SECTION 9, UNIT 1)

LOCATION DESCRIPTION	LOC. CODE	GAMMA SURVEY		BETA/GAMMA SURVEY		SCAN RESULTS		SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY			
		21 METER	ON CONTACT	MAXIMUM ALPHA	AVERAGE ALPHA	MAXIMUM BETA	AVERAGE 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	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²		
?	"	?	8-B	?	2, -8	[9-1-1]				179.1	93.5	20.8	70.4		
?	"	?	8-C	?	3, -8	[9-1-1]				158.3	117.5	31.8	88.7		
?	"	?	8-D	?	4, -8	[9-1-1]				153.5	109.5	25.6	117.5		
?	"	?	8-E	?	5, -8	[9-1-1]				183.9	85.6	22.0	102.3		
?	"	?	9-A	?	1, -9	[9-1-1]				147.1	53.6	35.4	68.0		
?	"	?	9-B	?	2, -9	[9-1-1]				142.3	69.6	61.1	92.7		
?	"	?	9-C	?	3, -9	[9-1-1]				91.1	29.6	34.2	121.5		
?	"	?	9-D	?	4, -9	[9-1-1]				93.5	45.6	12.2	15.2		
?	"	?	9-E	?	5, -9	[9-1-1]				131.9	61.6	13.4	14.4		
?	Floor-Cement	?	10-A	?	1, -10	[9-1-1]				85.6	53.6	29.3	127.1		
?	"	?	10-B	?	2, -10	[9-1-1]				136.7	61.6	4.9	67.2		
?	"	?	10-C	?	3, -10	[9-1-1]				104.7	45.6	11.0	-8.8		
?	"	?	10-D	?	4, -10	[9-1-1]				159.9	69.6	3.7	104.7		
?	"	?	10-E *	?	5, -10	[9-1-1]				155.1	61.6	78.2	75.2		
?	"	?	11-A	?	1, -11	[9-1-1]				115.9	69.6	24.4	81.6		
?	"	?	11-B	?	2, -11	[9-1-1]				157.5	69.6	40.3	46.4		
?	"	?	11-C	?	3, -11	[9-1-1]				128.7	45.6	74.5	147.1		
?	"	?	11-D	?	4, -11	[9-1-1]				131.1	53.6	57.4	52.8		
?	"	?	11-E *	?	5, -11	[9-1-1]				101.5	-18.4	40.3	71.2		
?	"	?	12-A	?	1, -12	[9-1-1]				134.3	69.6	34.2	56.0		
?	"	?	12-B	?	2, -12	[9-1-1]				70.4	53.6	24.4	35.2		
?	"	?	12-C	?	3, -12	[9-1-1]				104.7	21.6	35.4	-4.8		
?	"	?	12-D	?	4, -12	[9-1-1]				68.0	-58.4	17.1	-35.2		
?	Floor-Concrete	?	12-E *	?	5, -12	[9-1-1]				51.2	-34.4	28.1	-46.4		
NOTE: * REFERS TO POST DECON RESULTS															
?	South Wall	?	2, -4	?	N/A	[9-1-1]				116.4	2.9	13.0	-5.8	-0.26	-2.49
?	"	?	4, -4	?	"	[9-1-1]				131.0	32.0	26.0	2.9	-0.26	3.59
?	"	?	6, -4	?	"	[9-1-1]				305.6	-637.3	4.3	192.1	-0.26	3.41
?	West Wall	?	2, -4	?	"	[9-1-1]				229.9	104.8	0.0	-23.3	-0.26	3.41
?	"	?	4, -4	?	"	[9-1-1]				119.3	-26.2	0.0	-46.6	-0.26	-2.49
?	"	?	6, -4	?	"	[9-1-1]				235.7	-84.4	8.7	-55.3	-0.26	-2.49
?	"	?	8, -4	?	"	[9-1-1]				128.0	2.9	4.3	-11.6	-0.26	9.66
?	"	?	10, -4	?	"	[9-1-1]				139.7	-26.2	13.0	-40.7	-0.26	3.59
?	"	?	12, -4	?	"	[9-1-1]				87.3	-26.2	0.0	-40.7	-0.26	-2.49
?	North Wall	?	2, -4	?	"	[9-1-1]				125.1	61.1	4.3	-55.3	-0.26	-2.49

TABLE 1
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 9 PIT (SECTION 9, UNIT 1)

LOCATION DESCRIPTION	LOC. CODE	GAMMA SURVEY @1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY		
				MAXIMUM ALPHA	AVERAGE ALPHA	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	
"	"	? 4, -4	? "	9-1-1			104.8	-26.2	8.7	8.7	-0.26	-2.49
"	"	? 6, -4	? "	9-1-1			192.1	-55.3	13.0	40.7	-0.26	-2.49
East Wall	"	? 2, -4	? "	9-1-1			119.3	-113.5	4.3	-125.1	-0.26	-2.49
"	"	? 4, -4	? "	9-1-1			174.6	-26.2	8.7	-64.0	-0.26	3.59
"	"	? 6, -4	? "	9-1-1			-17.5	-142.6	8.7	-84.4	-0.26	-2.49
East Wall	"	? 8, -4	? N/A	9-1-1			227.0	-26.2	8.7	-90.2	-0.26	-2.49
"	"	? 10, -4	? "	9-1-1			235.7	61.1	4.3	-52.4	-0.26	-2.49
"	"	? 12, -4	? "	9-1-1			151.3	2.9	0.0	-29.1	-0.26	-2.49
South Wall	"	? 1, -2	? "	9-1-1			139.7	-26.2	47.6	34.9	-0.26	-2.49
"	"	? 3, -2	? "	9-1-1			-78.6	-142.6	21.7	-55.3	-0.26	3.59
"	"	? 5, -2	? "	9-1-1			2.9	-200.8	34.6	-17.5	-0.26	-2.49
West Wall	"	? 1, -2	? "	9-1-1			224.1	-26.2	30.3	-64.0	-0.26	-2.49
"	"	? 3, -2	? "	9-1-1			398.7	61.1	8.7	195.0	-0.26	-2.49
"	"	? 5, -2	? "	9-1-1			40.7	-113.5	17.3	29.1	-0.26	-2.49
"	"	? 7, -2	? "	9-1-1			23.3	-142.6	13.0	-55.3	-0.26	-2.49
"	"	? 9, -2	? "	9-1-1			291.0	90.2	8.7	-58.2	-0.26	-2.49
"	"	? 11, -2	? "	9-1-1			261.9	2.9	13.0	-34.9	-0.26	-2.49
North Wall	"	? 1, -2	? "	9-1-1			436.5	177.5	8.7	-78.6	-0.26	-2.49
"	"	? 3, -2	? "	9-1-1			2.9	-113.5	26.0	-133.9	-0.26	-2.49
"	"	? 5, -2	? "	9-1-1			-72.8	-171.7	34.6	-5.8	-0.26	-2.49
East Wall	"	? 1, -2	? N/A	9-1-1			363.8	61.1	17.3	-64.0	-0.26	-2.49
"	"	? 3, -2	? "	9-1-1			331.7	2.9	17.3	-58.2	15.28	-2.49
"	"	? 5, -2	? "	9-1-1			0.0	-113.5	17.3	-61.1	7.74	-2.49
"	"	? 7, -2	? "	9-1-1			360.8	-26.2	103.9	49.5	-0.26	-2.49
"	"	? 9, -2	? "	9-1-1			5.8	-84.4	13.0	-8.7	-0.26	-2.49
"	"	? 11, -2	? "	9-1-1			238.6	61.1	26.0	-43.7	-0.26	3.41
South Wall	"	? 1, -5	? "	9-1-1			206.6	61.1	30.3	34.9	-0.26	3.59
"	"	? 3, -5	? "	9-1-1			259.0	-26.2	21.7	-29.1	-0.26	2.49
"	"	? 5, -5	? "	9-1-1			323.0	-84.4	13.0	-72.8	-0.26	3.41
West Wall	"	? 1, -5	? "	9-1-1			90.2	-113.5	4.3	-11.6	-0.26	3.41
"	"	? 3, -5	? "	9-1-1			215.3	90.2	21.7	-2.9	-0.26	9.31
"	"	? 5, -5	? "	9-1-1			192.1	61.1	30.3	-75.7	-0.26	-2.49
"	"	? 7, -5	? "	9-1-1			101.9	-113.5	26.0	-55.3	-0.26	-2.49
"	"	? 9, -5	? "	9-1-1			174.6	32.0	13.0	8.7	-0.26	3.41
"	"	? 11, -5	? "	9-1-1			87.3	-113.5	13.0	34.9	-0.26	3.59

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 9 PIT (SECTION 9, UNIT 1)

LOCATION DESCRIPTION	LOC. CODE	GAMMA SURVEY @1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		SCAN RESULTS		TOTAL FIXED ACTIVITY		IMMOVABLE ACTIVITY		
				MAXIMUM ALPHA	AVERAGE ALPHA	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	
? North Wall	? 1, -5 ? N/A	9-1-1					-20.4	-142.6	8.7	-32.0	-0.26	-2.49
? "	? 3, -5 ? "	9-1-1					49.5	-84.4	13.0	-55.3	-0.26	-2.49
? "	? 5, -5 ? "	9-1-1					17.5	-171.7	13.0	-180.4	-0.26	-2.49
? East Wall	? 1, -5 ? "	9-1-1					293.9	90.2	13.0	-93.1	-0.26	3.59
? "	? 3, -5 ? "	9-1-1					259.0	90.2	26.0	-2.9	-0.26	3.41
? "	? 5, -5 ? "	9-1-1					90.2	-142.6	8.7	-75.7	-0.26	-2.49
? "	? 7, -5 ? "	9-1-1					189.2	61.1	30.3	-17.5	-0.26	9.31
? "	? 9, -5 ? "	9-1-1					-14.6	-142.6	21.7	-23.3	-0.26	-2.49
? "	? 11, -5 ? "	9-1-1					192.1	2.9	8.7	96.0	-0.26	3.59

STATISTICAL
ANALYSISSEE APPENDIX B, TABLE B1
FOR ADDITIONAL DATASEE APPENDIX B, TABLE B1
FOR ADDITIONAL DATA

NUMBER OF SAMPLES					113	113	113	113	54	54
MINIMUM					-92.7	-637.3	0.00	-210.28	-0.26	-2.49
MAXIMUM					436.5	177.5	103.92	194.97	15.28	9.66
AVERAGE					135.6	0.9	20.29	14.08	0.17	-0.16
STANDARD DEVIATION					101.9	103.4	15.95	78.43	2.34	3.53
LIMIT	15	0.200	15,000	5,000	5,000	5,000	1,000	1,000	1,000	1,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:					1.660	1.660	1.660	1.660	1.676	1.676
DATA TEST PARAMETER					151.52	17.04	22.78	26.32	0.71	0.64
"NUMBER OF SAMPLES" FACTOR					47.74	48.34	61.43	12.57	427.55	283.32
DOES DATA SATISFY LIMIT CRITERIA?					YES	YES	YES	YES	YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?					YES	YES	YES	YES	YES	YES

TABLE 2
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 9 - BUILDING 9, PIT)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** SURVEY TYPE = GAMMA DOSERATE AT 1 METER FROM SURFACE						
09 -1A	60	6.600	8.200	7.650	0.420	MicroR/hour
** Subtotal **	60					
** SURVEY TYPE = AVERAGE - ALPHA SCAN OF SURFACE NEAR SURVEY POINT						
09 -1A	60	-39.500	266.200	5.000	44.000	DPM/100 cm ²
** Subtotal **	60					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
09 -1A	59	0.008	0.026	0.015	0.004	MilliRem/hour
** Subtotal **	59					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
09 -1	113	-92.700	436.500	135.600	101.900	DPM/100 cm ²
** Subtotal **	113					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
09 -1	113	-637.300	177.500	0.900	103.400	DPM/100 cm ²
** Subtotal **	113					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
09 -1	113	0.000	103.920	20.290	15.950	DPM/100 cm ²
** Subtotal **	113					
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
09 -1	113	-210.280	194.970	14.080	78.430	DPM/100 cm ²
** Subtotal **	113					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
09 -1	54	-0.260	15.280	0.170	2.340	DPM/100 cm ²
09 -1A	60	-1.070	8.110	0.770	3.120	DPM/100 cm ²
** Subtotal **	114					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
09 -1	54	-2.490	9.660	-0.160	3.530	DPM/100 cm ²
09 -1A	60	-83.080	91.220	12.780	44.330	DPM/100 cm ²
** Subtotal **	114					

TABLE 2
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 9 - BUILDING 9, PIT)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** SURVEY TYPE = MAXIMUM - ALPHA SCAN OF SURFACE NEAR SURVEY POINT						
09 -1A	60	-33.100	425.500	32.600	60.100	DPM/100 cm ²
** Subtotal **	60					
*** Total ***	919					

TABLE 3
SOIL SAMPLE RESULTS - BUILDING 9 PIT

PROJECT ID	LABATORY SAMPLE #	DESCRIPTION	GAMMA SPEC ANALYSIS U-235 pCi/gram
378-N/A-00	92-2406	FLOOR DRAIN - END AT SUMP	<3.10E-01
379-N/A/06	92-2407	FLOOR DRAIN - RANDOM SAMPLE	<2.40E-01
380-N/A-14	92-2408	FLOOR DRAIN - JOINT	<3.40E-01
381-N/A-22	92-2409	FLOOR DRAIN - RANDOM SAMPLE	<3.37E-01
382-N/A-26	92-2410	FLOOR DRAIN - DRAIN CAP	1.50E+00
383-N/A-00	92-2411	FLOOR DRAIN - END AT SUMP	<2.10E-01
384-N/A-06	92-2412	FLOOR DRAIN - JOINT	<3.60E-01
385-N/A-08	92-2413	FLOOR DRAIN - JOINT	<2.50E-01
386-N/A-10	92-2414	FLOOR DRAIN - DRAIN CAP	<3.40E-01
389-L-39	92-2489	CORE BORE SAMPLE	<3.60E-01
390-M-31	92-2490	CORE BORE SAMPLE	2.20E-01
391-E-31	92-2491	CORE BORE SAMPLE	2.52E-01
392-A-22	92-2492	CORE BORE SAMPLE	<2.60E-01
393-J-21	92-2493	CORE BORE SAMPLE	<3.50E-01
394-M-13	92-2494	CORE BORE SAMPLE	2.18E-01
395-E-12	92-2495	CORE BORE SAMPLE	<3.40E-01
396-B-2	92-2496	CORE BORE SAMPLE	<3.00E-01
398-N/A-26	92-2498	FLOOR DRAIN - DRAIN (FOLLOW UP)	<3.00E-01
399-T-40	92-2499	CORE BORE SAMPLE	2.56E-01
400-B-39	92-2500	CORE BORE SAMPLE	<3.10E-01
401-T-24	92-2501	CORE BORE SAMPLE	<2.60E-01
402-T-7	92-2502	CORE BORE SAMPLE	3.76E-01
403-K-2	92-2503	CORE BORE SAMPLE	<2.50E-01
=====			
STASTICAL ANALYSIS			
NUMBER OF SAMPLES			23
MINIMUM			2.10E-01
MAXIMUM			1.50E+00
AVERAGE			3.45E-01
STANDARD DEVIATION			2.51E-01
LIMIT			1.00E+00
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:			1.669
DATA TEST PARAMETER			0.43
"NUMBER OF SAMPLES" FACTOR			2.61
DOES DATA SATISFY LIMIT CRITERIA?			YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?			YES
ANALYSIS OF SAMPLE TAKEN FROM FLOOR SUMP			
517	92-2977	SUMP PUMP SLUDGE	1.76E+00

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS FOR PIT

REPORT #016

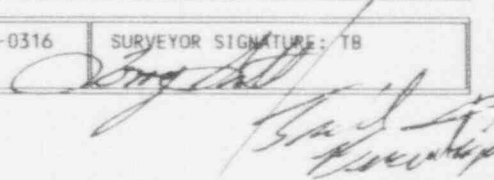
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	ESP2:					ESP2:			
	ESP2:					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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1313

SURVEY DATE: 3/2/93
COUNT DATE: N/A

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
		TENN: 13295	49.9%	2.0
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	Original GRID Locator	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-Concrete	1-A	1, -1	N/A	N/A	1352	1270	14	1255	N/A	N/A	See Survey
"	1-B	2, -1	"	"	1197	1080	9	1050	"	"	Survey Number 9-003
"	1-C	3, -1	"	"	1483	1440	18	1413	"	"	For Gamma, Beta/Gamma
"	1-D	4, -1	"	"	1372	1280	20	1376	"	"	& Smear Data.
"	2-A	1, -2	"	"	1301	1250	10	1251	"	"	"
"	2-B	2, -2	"	"	1310	1240	12	1254	"	"	"
"	2-C	3, -2	"	"	1654	1500	15	1255	"	"	"
"	2-D	4, -2	"	"	1538	1420	24	1432	"	"	"
"	2-E	5, -2	"	"	1477	1390	12	1439	"	"	"
"	3-A	1 -3	"	"	1259	1160	10	1242	"	"	"
"	3-B	2, -3	"	"	1284	1170	13	1253	"	"	"
"	3-C	3, -3	"	"	1592	1400	11	1522	"	"	"
"	3-D	4, -3	"	"	1428	1380	8	1251	"	"	"
"	3-E	5, -3	"	"	1468	1395	18	1392	"	"	"

FORM SERIAL #: 9-005 (Survey Section - Sequential survey #)	LOCATION # 9-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0316	SURVEYOR SIGNATURE: TB 
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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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1313

SURVEY DATE: 3/2/93
 COUNT DATE: N/A

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	ORM7: 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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	Original GRID Locator	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-Concrete	4-A	1, -4	N/A	N/A	1358	1300	14	1350	N/A	N/A	See Survey # 9-003
"	4-B	2, -4	"	"	1535	1390	18	1452	"	"	"
"	4-C	3, -4	"	"	1544	1410	19	1461	"	"	"
"	4-D	4, -4	"	"	1638	1490	11	1473	"	"	"
"	4-E	5, -4	"	"	1391	1340	18	1377	"	"	"
"	5-A	1, -5	"	"	1610	1470	17	1487	"	"	"
"	5-B	2, -5	"	"	1492	1440	18	1410	"	"	"
"	5-C	3, -5	"	"	1465	1410	20	1487	"	"	"
"	5-D	4, -5	"	"	1572	1410	17	1412	"	"	"
"	5-E	5, -5	"	"	1462	1440	19	1538	"	"	"
"	6-A	1, -6	"	"	1523	1460	24	1459	"	"	"
"	6-B	2, -6	"	"	1474	1420	23	1484	"	"	"
"	6-C	3, -6	"	"	1487	1320	20	1325	"	"	"
"	6-D	4, -6	"	"	1379	1270	18	1299	"	"	"
"	6-E	5, -6	"	"	1366	1310	28	1343	"	"	"

FORM SERIAL #: 9-005 (Survey Section - Sequential survey #)
 LOCATION # 9-1-1 (Survey Section - Unit # - Sub Unit #)
 SURVEY CLASSIFICATION: IV (Group I, II, III, IV)
 DISK FILE CODE: FDS-0317
 SURVEYOR SIGNATURE: TB

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1313

SURVEY DATE: 3/2/93
COUNT DATE: N/A

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	Original GRID Locator	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-Concrete	7-A	1, -7	N/A	N/A	1377	1310	31	1303	N/A	M/A	See Survey # 9-003
"	7-B	2, -7	"	"	1365	1310	28	1352	"	"	"
"	7-C	3, -7	"	"	1476	1380	34	1411	"	"	"
"	7-D	4, -7	"	"	1616	1430	29	1437	"	"	"
"	7-E	5, -7	"	"	1586	1400	34	1395	"	"	"
"	8-A	1, -8	"	"	1345	1300	20	1309	"	"	"
"	8-B	2, -8	"	"	1537	1430	21	1401	"	"	"
"	8-C	3, -8	"	"	1511	1460	30	1424	"	"	"
"	8-D	4, -8	"	"	1505	1450	25	1460	"	"	"
"	8-E	5, -8	"	"	1543	1420	22	1441	"	"	"
"	9-A	1, -9	"	"	1497	1380	33	1398	"	"	"
"	9-B	2, -9	"	"	1491	1400	54	1429	"	"	"
"	9-C	3, -9	"	"	1427	1350	32	1465	"	"	"
"	9-D	4, -9	"	"	1430	1370	14	1332	"	"	"
"	9-E	5, -9	"	"	1478	1390	15	1331	"	"	"

FORM SERIAL #: 9-005 (Survey Section - Sequential survey #)	LOCATION # 9-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0318	SURVEYOR SIGNATURE: TB
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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			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1313

SURVEY DATE: 3/2/93
COUNT DATE: N/A

(*)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

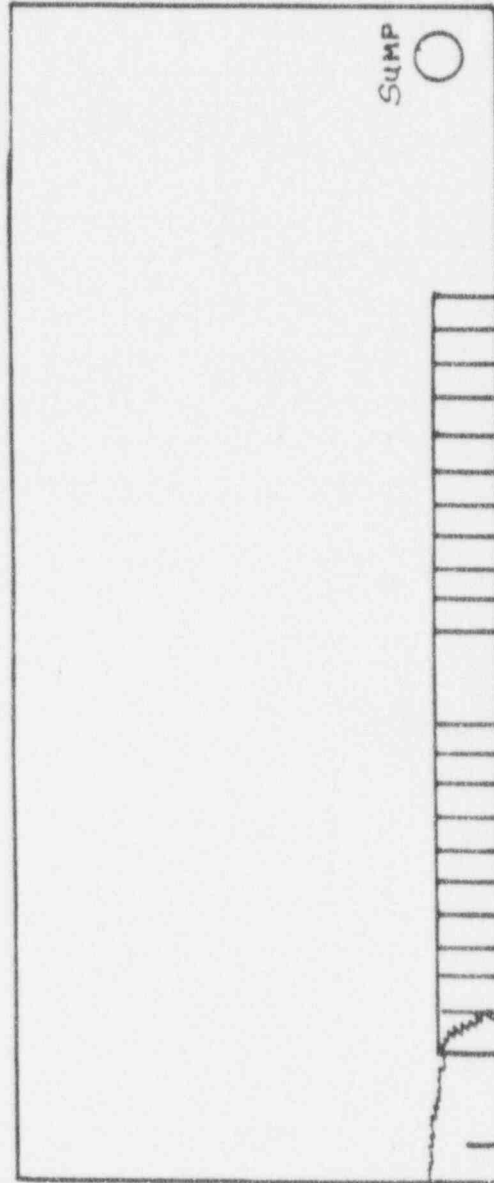
(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	Original GRID Locator	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-Cement	10-A	1, -10	N/A	N/A	1420	1380	28	1472	N/A	N/A	See Survey #9-003
"	10-B	2, -10	"	"	1484	1390	8	1397	"	"	"
"	10-C	3, -10	"	"	1444	1370	13	1302	"	"	"
"	10-D	4, -10	"	"	1513	1400	7	1444	"	"	"
"	10-E	5, -10	"	"	2024	1870	12	1968	"	"	Area to be Deconned
"	11-A	1, -11	"	"	1458	1400	24	1415	"	"	See Survey #9-003
"	11-B	2, -11	"	"	1510	1400	37	1371	"	"	"
"	11-C	3, -11	"	"	1474	1370	65	1497	"	"	"
"	11-D	4, -11	"	"	1477	1380	51	1379	"	"	"
"	11-E	5, -11	"	"	3103	2100	101	1952	"	"	Area to be Deconned
"	12-A	1, -12	"	"	1481	1400	32	1383	"	"	See Survey #9-003
"	12-B	2, -12	"	"	1401	1380	24	1357	"	"	"
"	12-C	3, -12	"	"	1444	1340	33	1307	"	"	"
"	12-D	4, -12	"	"	1398	1240	18	1269	"	"	"
"	12-E	5, -12	"	"	3043	2500	83	2457	"	"	Area to be Deconned

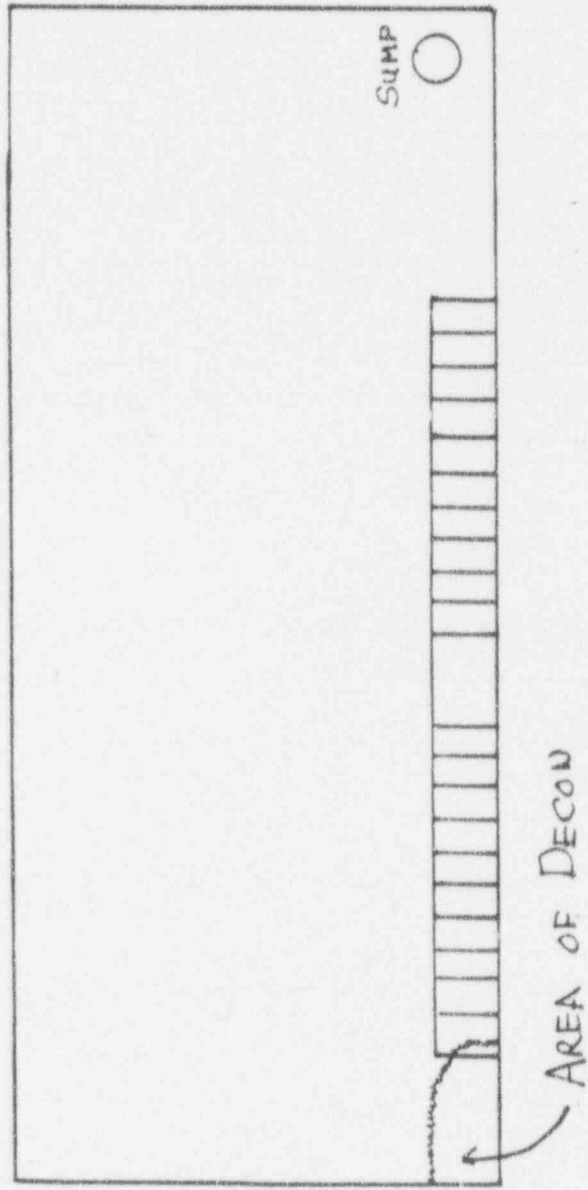
FORM SERIAL #: 9-005 (Survey Section - Sequential survey #)	LOCATION # 9-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0319	SURVEYOR SIGNATURE: TB
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[Handwritten Signature]

Building 9 Pit



Building 9 Pit



(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	249
	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: 2/22/93
COUNT DATE: 2/25/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	
South Wall	2, -4	N/A	N/A	N/A	289	250	3	247	-0.264	-2.49	
"	4, -4	"	"	"	294	260	6	250	-0.264	3.59	
"	6, -4	"	"	"	354	30	1	315	-0.264	3.41	
West Wall	2, -4	"	"	"	328	285	0	241	-0.264	3.41	
"	4, -4	"	"	"	290	240	0	233	-0.264	-2.49	
"	6, -4	"	"	"	330	220	2	230	-0.264	-2.49	
"	8, -4	"	"	"	293	250	1	245	-0.264	9.66	
"	10, -4	"	"	"	297	240	3	235	-0.264	3.59	
"	12, -4	"	"	"	279	240	0	235	-0.264	-2.49	
North Wall	2, -4	"	"	"	292	270	1	230	-0.264	-2.49	
"	4, -4	"	"	"	285	240	2	252	-0.264	-2.49	
"	6, -4	"	"	"	315	230	3	263	-0.264	-2.49	
East Wall	2, -4	"	"	"	290	210	1	206	-0.264	-2.49	
"	4, -4	"	"	"	309	240	2	227	-0.264	3.59	
"	6, -4	"	"	"	243	200	2	220	-0.264	-2.49	

FORM SERIAL #: 9-004 (Survey Section - Sequential survey #)	LOCATION # 9-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0286	SURVEYOR SIGNATURE: <i>[Signature]</i> /TB
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DECOMMISSIONING FIELD DATA SHEET

SURVEY TYPE: Walls - Upper & Lower

(*)IF USED	ALPHA SURVEY EQUIPMENT			BETA SURVEY EQUIPMENT			(*)IF USED	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	*	249
	ESP2:1601-L	23.1%	4.33	ESP2:1588-L	34.3%	2.91		
	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: 2/22/93
COUNT DATE: 2/25/93

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

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			BKG
	INST: S/N	EFF	C.F.	
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
(*)IF USED	COUNTING EQUIPMENT (BETA)			BKG
	INST: S/N	EFF	C.F.	
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East Wall	8, -5	N/A	N/A	N/A	327	240	2	218	-0.264	-2.49	
"	10, -4	"	"	"	330	270	1	231	-0.264	-2.49	
"	12, -4	"	"	"	301	250	0	239	-0.264	-2.49	
South Wall	1, -2	"	"	"	297	240	11	261	-0.264	-2.49	
"	3, -2	"	"	"	222	200	5	230	-0.264	3.59	
"	5, -2	"	"	"	250	180	8	243	-0.264	-2.49	
West Wall	1, -2	"	"	"	326	240	7	227	-0.264	-2.49	
"	3, -2	"	"	"	386	270	2	316	-0.264	-2.49	
"	5, -2	"	"	"	263	210	4	259	-0.264	-2.49	
"	7, -2	"	"	"	257	200	3	230	-0.264	-2.49	
"	9, -2	"	"	"	349	280	2	229	-0.264	-2.49	
"	11, -2	"	"	"	339	250	3	237	-0.264	-2.49	
North Wall	1, -2	"	"	"	399	310	2	222	-0.264	-2.49	
"	3, -2	"	"	"	250	210	6	203	-0.264	-2.49	
"	5, -2	"	"	"	224	190	8	247	-0.264	-2.49	

FORM SERIAL #: 9-004
(Survey Section - Sequential survey #)

LOCATION # 9-1-1
(Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: IV
(Group I, II, III, IV)

DISK FILE CODE: FDS-0287

SURVEYOR SIGNATURE: *[Signature]*

(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	249
	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: 2/25/93
 COUNT DATE: 2/25/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	1, -2	N/A	N/A	N/A	374	270	4	227	-0.264	-2.49	
"	3, -2	"	"	"	363	250	4	229	15.276	-2.49	
"	5, -2	"	"	"	249	210	4	228	7.741	-2.49	
"	7, -2	"	"	"	373	240	24	266	-0.264	-2.49	
"	9, -2	"	"	"	251	220	3	246	-0.264	-2.49	
"	11, -2	"	"	"	331	270	6	234	-0.264	3.41	
South Wall	1, -5	"	"	"	320	270	7	261	-0.264	3.59	
"	3, -5	"	"	"	338	240	5	239	-0.264	-2.49	
"	5, -5	"	"	"	360	220	3	224	-0.264	3.41	
West Wall	1, -5	"	"	"	280	210	1	245	-0.264	3.41	
"	3, -5	"	"	"	323	280	5	248	-0.264	9.31	
"	5, -5	"	"	"	315	270	7	223	-0.264	-2.49	
"	7, -5	"	"	"	284	210	6	230	-0.264	-2.49	
"	9, -5	"	"	"	309	260	3	252	-0.264	3.41	
"	11, -5	"	"	"	279	210	3	261	-0.264	3.59	

FORM SERIAL #: 9-004 (Survey Section - Sequential survey #)
 LOCATION # 9-1-1 (Survey Section - Unit # - Sub Unit #)
 SURVEY CLASSIFICATION: IV (Group I, II, III, IV)
 DISK FILE CODE: FDS-0288
 SURVEYOR SIGNATURE: TS/TB *[Signature]*


(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	249
	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: 2/25/93
COUNT DATE: 2/25/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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.		SNEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North Wall	1, -5	N/A	N/A	N/A	242	200	2	238	-0.264	-2.49	
"	3, -5	"	"	"	266	220	3	230	-0.264	-2.49	
"	5, -5	"	"	"	255	190	3	187	-0.264	-2.49	
East Wall	1, -5	"	"	"	350	280	3	217	-0.264	3.59	
"	3, -5	"	"	"	338	280	6	248	-0.264	3.41	
"	5, -5	"	"	"	280	200	2	223	-0.264	-2.49	
"	7, -5	"	"	"	314	270	7	243	-0.264	9.31	
"	9, -5	"	"	"	244	200	5	241	-0.264	-2.49	
"	11, -5	"	"	"	315	250	2	282	-0.264	3.59	

FORM SERIAL #: 9-004 (Survey Section - Sequential survey #)	LOCATION # 9-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0289	SURVEYOR SIGNATURE: TS/TR 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 2/25/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\000101.XLD
 Batch Ended: 2/25/93 10:57
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: es137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 9-1-1 Building 9 MDL Tank pit walls upper and lower

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion (DD)
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
1	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:29
2	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/25/93 10:30
3	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/25/93 10:30
4	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/25/93 10:31
5	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/25/93 10:31
6	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/25/93 10:32
7	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	2/25/93 10:32
8	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/25/93 10:33
9	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:33
10	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	2/25/93 10:34
11	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:34
12	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:35
13	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/25/93 10:35
14	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/25/93 10:36
15	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/25/93 10:37
16	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:37
17	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:38
18	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:38
19	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:39
20	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/25/93 10:39
21	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:40
22	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/25/93 10:40
23	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:41
24	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/25/93 10:41

LB5100W Low Background Counting System – Smear Analysis

Date: 2/25/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\090101.XLD
 Batch Ended: 2/25/93 10:57
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: pu219ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.89%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB-9-1-1 Building 9 MDL Tank pit walls, upper and lower.

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
25	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/25/93 10:42
26	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/25/93 10:42
27	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/25/93 10:43
28	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/25/93 10:43
29	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:44
30	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/25/93 10:44
31	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:45
32	15.276	11.11	At AL	28.10	2.49	3.87	<MDA	33.88	0.34	5.782	1.24	2/25/93 10:45
33	7.741	8.17	At AL	28.84	2.49	3.93	<MDA	34.63	0.33	2.930	1.24	2/25/93 10:46
34	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:46
35	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:47
36	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/25/93 10:47
37	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/25/93 10:48
38	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:48
39	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/25/93 10:49
40	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/25/93 10:49
41	0.264	1.60	<MDA	28.10	8.31	9.20	<AL	33.88	0.34	-0.100	4.64	2/25/93 10:50
42	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:50
43	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:51
44	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/25/93 10:51
45	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/25/93 10:52
46	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:52
47	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/25/93 10:53
48	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/25/93 10:53

LB5100W Low Background Counting System – Smear Analysis

Date: 2/25/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\090101.XLD
 Batch Ended: 2/25/93 10:57
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

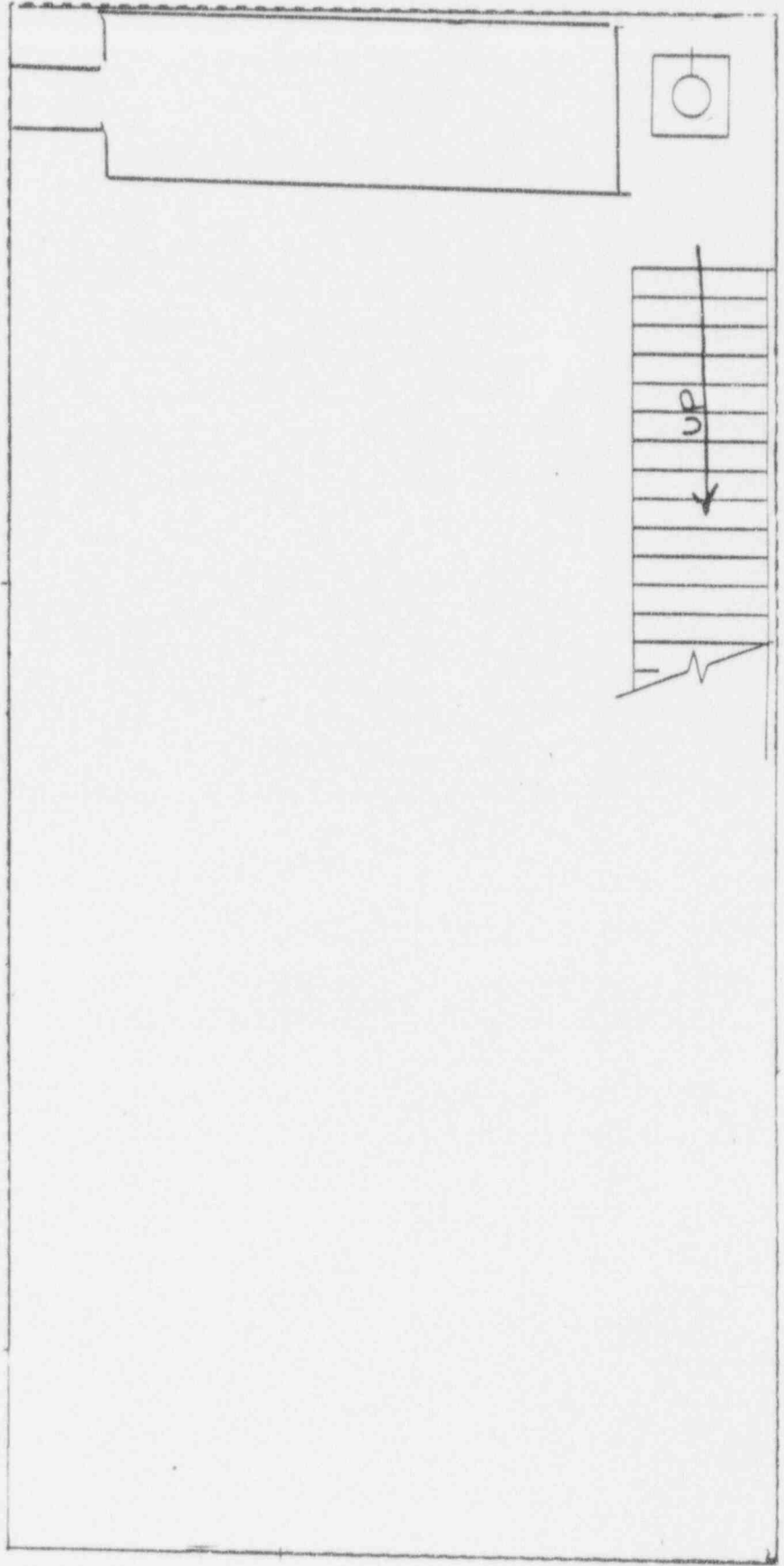
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB-9-1-1 Building 9 MDL Tank pit walls, upper and lower

Corner	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
49	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/25/93 10:54
50	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/25/93 10:55
51	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/25/93 10:55
12	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	2/25/93 10:56
53	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/25/93 10:56
54	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/25/93 10:57

BUILDING #9 PIT (DETAILS)

SURVEY SECTION 9-1 CLASSIFICATION 4



PLAN

APPENDIX B

INITIAL RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR OF PIT

TABLE B1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 9 PIT FLOOR -ORIGINAL SURVEY (SECTION 9, UNIT 1A)

LOCATION DESCRIPTION	LOC. CODE	GAMMA SURVEY		BETA/GAMMA SURVEY		SCAN RESULTS		SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
		at 1 METER	ON CONTACT	MAXIMUM ALPHA	AVERAGE ALPHA	MAXIMUM BETA	AVERAGE 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	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	
? 9 ? PIT ? 1-A	9-1-1	7.2	0.008	49.7	-14.0	-185.3	-357.8	-45.9	-323.3	-1.07	-36.60		
? " ? " ? 1-B	9-1-1	7.1	0.009	36.9	-26.8	73.3	-142.2	-52.2	-469.8	-1.07	-13.36		
? " ? " ? 1-C	9-1-1	6.9	0.019	24.2	113.4	418.1	73.3	-45.9	-4.3	-1.07	21.50		
? " ? " ? 1-D	9-1-1	6.7	0.015	126.1	-1.3	418.1	245.7	-52.2	60.3	-1.07	9.88		
? " ? " ? 1-E	9-1-1	7		55.4	18.5	187.6	-134.0	-3.7	53.6	-1.07	21.50		
? " ? " ? 2-A	9-1-1	7.1	0.020	-1.3	-20.4	-99.1	-444.0	-52.2	-271.6	-1.07	-13.36		
? " ? " ? 2-B	9-1-1	7	0.014	-7.6	-20.4	418.1	30.2	-52.2	-310.3	-1.07	21.50		
? " ? " ? 2-C	9-1-1	7	0.012	-20.4	-39.5	245.7	73.3	-45.9	69.0	-1.07	-48.22		
? " ? " ? 2-D	9-1-1	6.6	0.016	-14.0	-39.5	159.5	-12.9	-33.1	-189.7	5.05	-36.60		
? " ? " ? 2-E	9-1-1	6.8	0.017	25.8	3.7	241.2	26.8	-3.7	-2.7	-1.07	9.88		
? " ? " ? 3-A	9-1-1	7.3	0.009	56.1	30.6	159.5	-99.1	-52.2	-172.4	-1.07	67.98		
? " ? " ? 3-B	9-1-1	7.2	0.008	36.9	17.8	461.2	245.7	-33.1	-219.8	-1.07	79.60		
? " ? " ? 3-C	9-1-1	7.1	0.011	17.8	-20.4	504.3	159.5	-52.2	-172.4	-1.07	-83.08		
? " ? " ? 3-D	9-1-1	7.5	0.009	30.6	-14.0	73.3	-228.4	-45.9	-64.7	8.11	-48.22		
? " ? " ? 3-E	9-1-1	7.4	0.013	56.1	43.3	418.1	116.4	-52.2	0.0	-1.07	-24.98		
? " ? " ? 4-A	9-1-1	7.9	0.020	-20.4	-33.1	-12.9	-185.3	-45.9	-250.0	-1.07	91.22		
? " ? " ? 4-B	9-1-1	8	0.012	17.8	-14.0	202.6	-56.0	-33.1	-51.7	1.99	-83.08		
? " ? " ? 4-C	9-1-1	8.1	0.015	-7.6	-20.4	461.2	245.7	-52.2	30.2	-1.07	-36.60		
? " ? " ? 4-D	9-1-1	7.4	0.014	43.3	-1.3	202.6	-12.9	-52.2	-73.3	8.11	-13.36		
? " ? " ? 4-E	9-1-1	7.4	0.023	14.8	7.4	187.6	-53.6	-3.7	112.6	-1.07	-36.60		
? " ? " ? 5-A	9-1-1	8.1	0.011	-7.6	-20.4	202.6	30.2	-45.9	-38.8	-1.07	33.12		
? " ? " ? 5-B	9-1-1	8	0.012	30.6	11.5	159.5	-12.9	-33.1	21.6	5.05	21.50		
? 9 ? PIT ? 5-C	9-1-1	8.1	0.011	-14.0	-26.8	418.1	245.7	24.2	-232.8	1.99	-24.98		
? " ? " ? 5-D	9-1-1	7.7	0.016	56.1	11.5	461.2	202.6	-45.9	-90.5	-1.07	9.88		
? " ? " ? 5-E	9-1-1	7.5	0.012	11.5	-14.0	418.1	245.7	-45.9	-56.0	-1.07	21.50		
? " ? " ? 6-A	9-1-1	8.1	0.013	-33.1	-39.5	245.7	-56.0	24.2	-314.7	-1.07	-59.84		
? " ? " ? 6-B	9-1-1	8.2	0.017	36.9	17.8	331.9	159.5	24.2	-293.1	8.11	-36.60		

TABLE B1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 9 PIT FLOOR -ORIGINAL SURVEY (SECTION 9, UNIT 1A)

LOCATION DESCRIPTION	LOC. CODE	GAMMA SURVEY		BETA/GAMMA SURVEY		SCAN RESULTS		SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
		@1 METER	ON CONTACT	MAXIMUM ALPHA	AVERAGE ALPHA	MAXIMUM BETA	AVERAGE 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	dpm/100cm ²	dpm/100cm ²	dpm/100cm ²	
? " ? " ? 6-C	9-1-1	7.7	0.017	-14.0	-26.8	245.7	-56.0	-52.2	81.9	-1.07	-13.36		
? " ? " ? 6-D	9-1-1	7.6	0.020	49.7	30.6	547.4	331.9	-45.9	38.8	-1.07	9.88		
? " ? " ? 6-E	9-1-1	7.9	0.023	30.6	5.1	-12.9	-99.1	-1.3	-306.0	5.05	79.60		
? " ? " ? 7-A	9-1-1	8	0.015	-14.0	-26.8	331.9	73.3	36.9	-293.1	-1.07	56.36		
? " ? " ? 7-B	9-1-1	7.7	0.016	-20.4	-33.1	288.8	30.2	24.2	-219.8	-1.07	21.50		
? " ? " ? 7-C	9-1-1	7.8	0.018	17.8	-1.3	418.1	116.4	-1.3	-237.1	5.05	9.88		
? " ? " ? 7-D	9-1-1	8	0.026	107.0	62.4	245.7	-56.0	-52.2	60.3	1.99	79.60		
? " ? " ? 7-E	9-1-1	7.5	0.021	30.6	11.5	202.6	-12.9	-52.2	-133.6	-1.07	21.50		
? " ? " ? 8-A	9-1-1	7.7	0.009	94.3	62.4	245.7	-12.9	-1.3	-357.8	-1.07	-1.74		
? " ? " ? 8-B	9-1-1	8	0.012	5.1	-7.6	461.2	288.8	49.7	-400.9	-1.07	-36.60		
? " ? " ? 8-C	9-1-1	7.7	0.013	5.1	-14.0	375.0	375.0	-1.3	-357.8	-1.07	79.60		
? " ? " ? 8-D	9-1-1	8.2	0.014	24.2	-7.6	159.5	-12.9	-52.2	-133.6	-1.07	33.12		
? " ? " ? 8-E	9-1-1	7.5	0.022	17.8	5.1	-142.2	-357.8	-45.9	-69.0	-1.07	21.50		
? " ? " ? 9-A	9-1-1	8	0.013	17.8	-1.3	504.3	288.8	36.9	-185.3	-1.07	67.98		
? " ? " ? 9-B	9-1-1	8.1	0.011	49.7	17.8	375.0	202.6	11.5	-271.6	-1.07	9.88		
? " ? " ? 9-C	9-1-1	7.9	0.019	17.8	5.1	73.3	-99.1	-39.5	30.2	-1.07	79.60		
? " ? " ? 9-D	9-1-1	8	0.015	17.8	-7.6	73.3	-142.2	-52.2	0.0	8.11	9.88		
? 9-A ? PIT ? 9-E	9-1-1	7.6	0.011	48.0	25.8	241.2	53.6	-3.7	648.6	5.05	-24.98		
? " ? " ? 10-A	9-1-1	7.6	0.016	24.2	-14.0	762.9	547.4	24.2	530.2	-1.07	56.36		
? " ? " ? 10-B	9-1-1	8	0.018	5.1	-20.4	288.8	116.4	-26.8	418.1	5.05	79.60		
? " ? " ? 10-C	9-1-1	7.9	0.010	-1.3	-20.4	375.0	202.6	-39.5	-64.7	-1.07	9.88		
? " ? " ? 10-D	9-1-1	8.1	0.022	36.9	5.1	-12.9	-185.3	-26.8	56.0	-1.07	-24.98		
? " ? " ? 10-E	9-1-1	8.2	0.017	81.5	17.8	3650.9	418.1	113.4	3530.2	5.05	56.36		
? " ? " ? 11-A	9-1-1	7.7	0.013	56.1	30.6	159.5	-12.9	-14.0	150.9	-1.07	79.60		
? " ? " ? 11-B	9-1-1	8.2	0.018	11.5	-1.3	719.8	504.3	-26.8	288.8	5.05	9.88		
? " ? " ? 11-C	9-1-1	8	0.022	49.7	30.6	245.7	73.3	-14.0	306.0	-1.07	56.36		
? " ? " ? 11-D	9-1-1	7.6	0.011	24.2	-1.3	202.6	-12.9	24.2	47.4	-1.07	21.50		

TABLE B1
ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING 9 PIT FLOOR -ORIGINAL SURVEY (SECTION 9, UNIT 1A)

LOCATION DESCRIPTION	LOC. CODE	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
		@1 METER	ON CONTACT	MAXIMUM ALPHA	AVERAGE ALPHA	MAXIMUM BETA	AVERAGE 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	dpm/100cm ²	dpm/100cm ²
? " ? " ? 11-E	9-1-1	7.4	0.015	75.2	43.3	4728.4	3866.4	11.5	926.7	8.11	-24.98
? " ? " ? 12-A	9-1-1	7.8	0.011	24.2	-1.3	633.6	202.6	-20.4	456.9	-1.07	-1.74
? " ? " ? 12-B	9-1-1	7.6	0.017	-9.7	11.5	741.4	762.9	5.1	323.3	5.05	-36.60
? " ? " ? 12-C	9-1-1	7.6	0.016	-1.3	-26.8	633.6	418.1	17.8	426.7	-1.07	33.12
? " ? " ? 12-D	9-1-1	8	0.019	11.5	-26.8	633.6	418.1	17.8	422.4	-1.07	79.60
? " ? " ? 12-E	9-1-1	8.1	0.023	425.5	266.2	7745.7	6021.6	11.5	866.4	-1.07	56.36

STATISTICAL ANALYSIS

NUMBER OF SAMPLES	60	59	60	60	THIS DATA NOT USED FOR FINAL ANALYSIS				60	60
MINIMUM	6.60	0.008	-33.1	-39.5	SEE TABLE 1 FOR SURVEY RESULTS				-1.07	-83.08
MAXIMUM	8.20	0.026	425.5	266.2					8.11	91.22
AVERAGE	7.65	0.015	32.6	5.0					0.77	12.78
STANDARD DEVIATION	0.42	0.004	60.1	44.0					3.12	44.33
LIMIT	15	0.200	15,000	5,000	5,000	5,000	1,000	1,000	1,000	1,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	1.672	1.672	1.672	1.672					1.672	1.672
DATA TEST PARAMETER	7.74	0.02	45.61	14.53					1.44	22.35
"NUMBER OF SAMPLES" FACTOR	17.56	42.51	248.97	113.64					320.21	22.27
DOES DATA SATISFY LIMIT CRITERIA?	YES	YES	YES	YES					YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES	YES	YES	YES					YES	YES

(* notes use of ESP) FLOOR MONITOR

	GAMMA	BETA/GAMMA	ALPHA	BETA	ALPHA	BETA
INSTRUMENT:	R/S	ESP-2	ESP-2	ESP-2	LUOLUM	LUOLUM
S/N:	L-2088	1522	1517	1510	91943	91943
EFFICIENCY:	N/A	N/A	27.1 %	37.3 %	15.7%	23.2%
CORR. FAC.:	N/A	N/A	3.69	2.68		
BACKGROUND:	8.0 uR/hr	.013mr/hr	1 cpm	370 cpm	8.2 cpm	403 cpm

COUNTING EQUIPMENT					
COUNTER#	ALPHA			BETA	
	TENNELEC	ALPHA 3	TENNELEC	GM 2	
BKG.	CPM	.35 CPM	CPM	26.3 CPM	
EFF.	%	32.7 %	%	17.2 %	
C.F.		3.06		5.81	

SURVEY DATE:	10/05/92
SURVEY TIME:	
COUNT DATE:	10/07/92
COUNT TIME:	

LOCATION OR BUILDING	FLOOR	GRID 1 X 1 meter	GAMMA @ 1 M uR/hr	BETA/GAMMA CONT.mr/hr	SCAN CONTACT GROSS CPM				CONTACT GROSS CPM/100cm2		SMEAR LEVELS IN CPM/100cm2	
					MAX ALPHA	AVG ALPHA	MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA
9	PIT	1-A	7.2	.008	16	6	360	320	1	328	0	20
"	"	1-B	7.1	.009	14	4	420	370	0	294	0	24
"	"	1-C	6.9	.019	12	26	500	420	1	402	3	30
"	"	1-D	6.7	.015	28	8	500	460	0	417	0	28
"	"	1-E	7.0	N/A	* 16	* 6	* 440	* 320	* 1	* 390	0	30
"	"	2-A	7.1	.020	8	5	380	300	0	340	0	24
"	"	2-B	7.0	.014	7	5	500	410	0	331	0	30
"	"	2-C	7.0	.012	5	2	460	420	1	419	0	18
"	"	2-D	6.6	.016	6	2	440	400	3	359	2	20
"	"	2-E	6.8	.017	* 8	* 2	* 460	* 380	* 3	* 369	0	28
"	"	3-A	7.3	.009	17	13	440	380	0	363	0	38
"	"	3-B	7.2	.008	14	11	510	460	3	352	0	40
"	"	3-C	7.1	.011	11	5	520	440	0	363	0	12
"	"	3-D	7.5	.009	13	6	420	350	1	388	3	18
"	"	3-E	7.4	.013	17	15	500	430	0	403	0	22
"	"	4-A	7.9	.020	5	3	400	360	1	345	0	42
"	"	4-B	8.0	.012	11	6	450	390	3	391	1	12
"	"	4-C	8.1	.015	7	5	510	460	0	410	0	20
"	"	4-D	7.4	.014	15	8	450	400	0	386	3	24
"	"	4-E	7.4	.023	* 5	* 3	* 440	* 350	* 0	* 412	0	20
"	"	5-A	8.1	.011	7	5	450	410	1	394	0	32
"	"	5-B	8.0	.012	13	10	440	400	3	408	2	30

(* NOTES USE OF ESP) FLOOR MONITOR

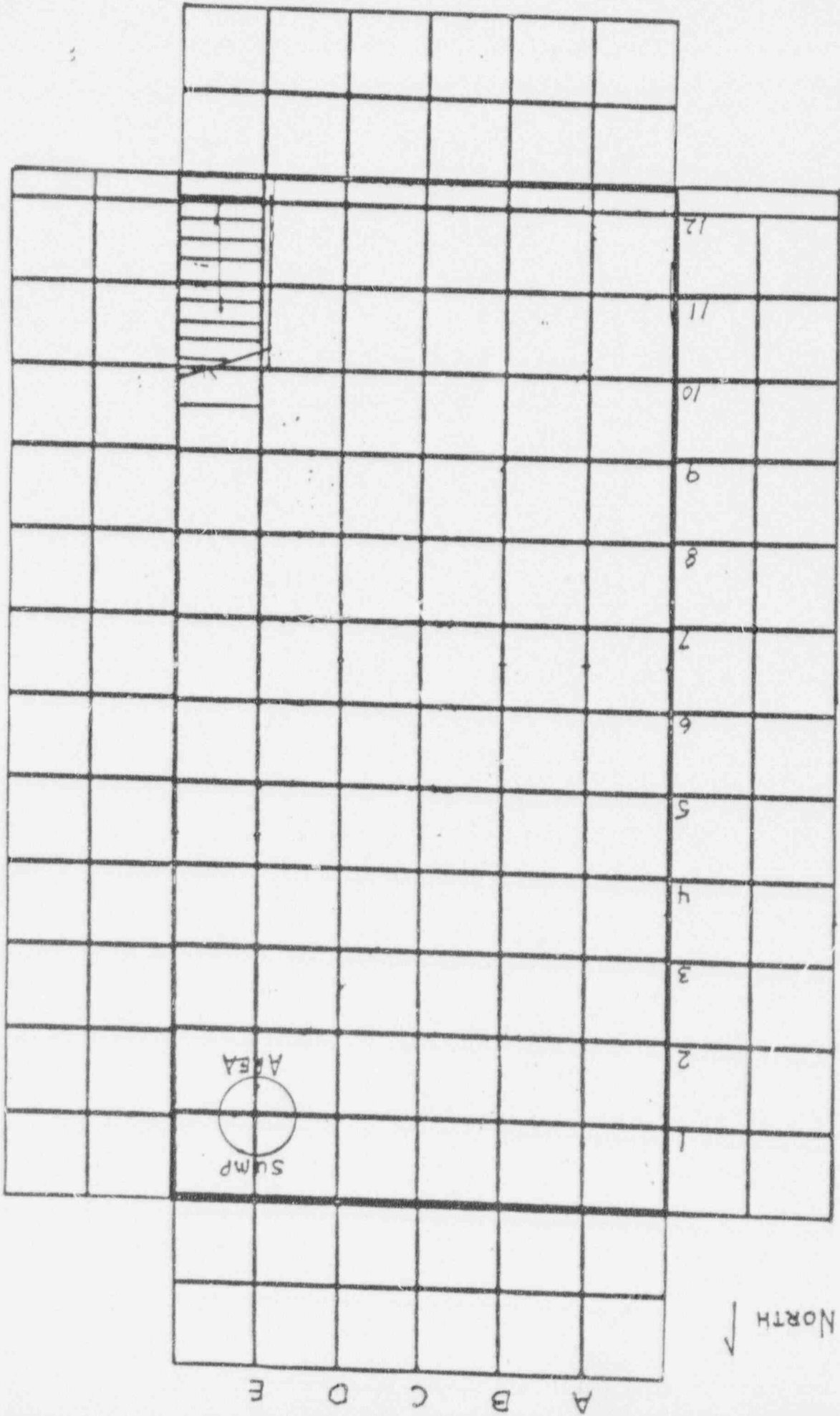
	GAMMA	BETA/GAMMA	ALPHA	BETA	ALPHA	BETA
INSTRUMENT:	R/S	ESP-2	ESP-2	ESP-2	LUDLUM	LUDLUM
S/N:	L-2088	1522	1517	1510	91943	91943
EFFICIENCY:	N/A	N/A	27.1 %	37.3 %	15.7%	23.2%
CORR. FAC.:	N/A	N/A	3.69	2.68		
BACKGROUND:	8.0 uR/hr	.013 mr/hr	1 cpm	370 cpm	8.2 cpm	403 cpm

COUNTING EQUIPMENT					
COUNTER#	ALPHA			BETA	
	TENNELEC	ALPHA 3	TENNELEC	GM 2	
BKG.		.35 CPM		26.3 CPM	
EFF.	%	17.2 %	%	32.7 %	
C.F.		3.06		5.81	

SURVEY DATE:	10/05/92
SURVEY TIME:	
COUNT DATE:	10/07/92
COUNT TIME:	

LOCATION OR BUILDING	FLOOR	GRID 1 X 1 Meter	GAMMA @ 1 M uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM				CONTACT GROSS CPM/100cm2		SMEAR LEVELS IN CPM/100cm2	
					MAX ALPHA	AVG ALPHA	MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA
9	PIT	5-C	8.1	.011	6	4	500	460	12	349	1	22
"	"	5-D	7.7	.016	17	10	510	450	1	382	0	28
"	"	5-E	7.5	.012	10	6	500	460	1	390	0	30
"	"	6-A	8.1	.013	3	2	460	390	12	330	0	16
"	"	6-B	8.2	.017	14	11	480	440	12	335	3	20
"	"	6-C	7.7	.017	6	4	460	390	0	422	0	24
"	"	6-D	7.6	.020	16	13	530	480	1	412	0	28
"	"	6-E	7.9	.023	13	9	400	380	8	332	2	40
"	"	7-A	8.0	.015	6	4	480	420	14	335	0	36
"	"	7-B	7.7	.016	5	3	470	410	12	352	0	30
"	"	7-C	7.8	.018	11	8	500	430	8	348	2	28
"	"	7-D	8.0	.026	25	18	460	390	0	417	1	40
"	"	7-E	7.5	.021	13	10	450	400	0	372	0	30
"	"	8-A	7.7	.009	23	18	460	400	8	320	0	26
"	"	8-B	8.0	.012	9	7	510	470	16	310	0	20
"	"	8-C	7.7	.013	9	6	490	490	8	320	0	40
"	"	8-D	8.2	.014	12	7	440	400	0	372	0	32
"	"	8-E	7.5	.022	11	9	370	320	1	387	0	30
"	"	9-A	8.0	.013	11	8	520	470	14	360	0	38
"	"	9-B	8.1	.011	16	11	490	450	10	340	0	28
"	"	9-C	7.9	.019	11	9	420	380	2	410	0	40
"	"	9-D	8.0	.015	11	7	420	370	0	403	3	28

BUILDING 9 TANK PIT



APPENDIX C

ANALYTICAL LABORATORY REPORT SHEETS

REPORT

Westinghouse Electric Corporation
Advanced Programs - Analytical Laboratory
Waltz Mill Site

Reques # 14793

TO: Larry Smith/Joe Nardi
Environmental & Regulatory Services
Westinghouse Electric Corporation

Received: 1/3/92
Reported: 1/10/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (@ Aug 7, 1992)

Originator ID	Lab.Spl#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
378	92-2406	<3.1E-01	
379	92-2407	<2.4E-01	
380	92-2408	<3.4E-01	
381	92-2409	3.37E-01	+/- 2.4E-01
382	92-2410	1.50E+00	+/- 3.2E-01
383	92-2411	<2.1E-01	
384	92-2412	<3.6E-01	
385	92-2413	<2.5E-01	
386	92-2414	<3.4E-01	

Remarks: Gamma Spectrometry Analysis for U-235

References: Request# 14793
Procedures: A-524
Analyst: WTF, MRK, TRK

Approved: 

REPORT

Westinghouse Electric Corporation
Advanced Programs - Analytical Laboratory
Waltz Mill Site

Request# 14812

TO: Larry Smith/Joe Nardi
Environmental & Regulatory Services
Westinghouse Electric Corporation

Received: 3/11/92
Reported: 3/18/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (8 Aug 11, 1992)

Originator ID	Lab.Spl#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
389	92-2489	<3.6E-01	
390	92-2490	2.20E-01	+/- 1.6E-01
391	92-2491	2.52E-01	+/- 8.9E-02
392	92-2492	<2.6E-01	
393	92-2493	<3.5E-01	
394	92-2494	2.18E-01	+/- 1.9E-01
395	92-2495	<3.4E-01	
396	92-2496	<3.0E-01	
397	92-2497	<3.7E-01	

Remarks: Gamma Spectrometry Analysis for U-235

References: Request# 14812
Procedures: A-524
Analyst: WTF, MRK, TRK

Approved: 

Westinghouse Electric Corporation
 Advanced Programs - Analytical Laboratory
 Waltz Mill Site

REPORT

Reques # 14813

TO: Larry Smith/Joe Nardi
 Environmental & Regulatory Services
 Westinghouse Electric Corporation

Received: 3/12/92
 Reported: 3/25/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (@ Aug 12, 1992)

Originator ID	Lab.Sp1#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
398	92-2498	<3.0E-01	
399	92-2499	2.56E-01	+/- 2.3E-01
400	92-2500	<3.1E-01	
401	92-2501	<2.6E-01	
402	92-2502	3.76E-01	+/- 2.2E-01
403	92-2503	<2.5E-01	

Remarks: Gamma Spectrometry Analysis for U-235

References: Request# 14813
 Procedures: A-524
 Analyst: WTF, MRK, TRK

Approved: Mark Kucharski

Westinghouse Electric Corporation
Advanced Programs - Analytical Laboratory
Waltz Mill Site

REPORT

Request # 14903

TO: Larry Smith/Joe Nardi
Environmental & Regulatory Services
Westinghouse Electric Corporation

Received: 10/14/92
Reported: 10/16/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (Ø October 14, 1992)

Originator ID	Lab.Spl#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
517	92-2977	1.76E+00 +/-	2.5E-01

Remarks: Gamma Spectrometry Analysis for U-235
Liquid fraction decanted - soil fraction analyzed

References: Request# 14903
Procedures: A-524
Analyst: WTF, MRK, TRK, DZ

Approved: *Waltz Smith*

APPENDIX D

RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR DRAIN

REMOVAL AND CORE BORINGS

BACKFILL REQUEST/AUTHORIZATION

To be completed by requestor:

- 1) Describe the specific section of the excavation to be backfilled under this request (include map where possible):

BLOG 9 FLOOR DRAINS
AND CORE BORING CEMENT WORK

- 2) Describe results of gamma surveys (attach copies of survey forms as appropriate):

SEE ATTACHED

- 3) Describe analysis results of soil samples (attach copies of analysis results as appropriate):

SEE ATTACHED

- 4) Note any special considerations:

Requested by: Jerry St Date: 8-20-92

Authorization:

Authorization to backfill the above described excavation is:

Approved

Not Approved

Comments: #

Signature: A Joseph Vardi Date: 8/20/92

M.D.L. TRENCH SOIL SAMPLE LOG

Sample Number Derived By: (See Bottom of Form)

Sample Number	Date	Notes	Sample Number	Date	Notes	Sample Number	Date	Notes
331-15A-80	7/15/92	CUT	353 - - C	7/20/92	DEBRIS IN PARKING LOT	375 - 21 - 10	7/29/92	JOINT
332-15C-02	7/15/92	Flow valve	354 - - D	7/29/92	DEBRIS IN PARKING LOT	376 - 21 - 8		CUT
333-15E-03	7/15/92	CUT JOINT	355 - - E	7/29/92	DEBRIS IN PARKING LOT	377 - 21 - 6	7/29/92	JOINT
334-15C-03	7/15/92	DUPLICATE SAMPLE of 333	356 - - F	7/29/92	DEBRIS IN PARKING LOT	378 - 21 - 9 00	8/3/92	FLOOR DRAIN END
335-23 - 11	7/16/92	END	357 - - G	7/29/92	DEBRIS IN PARKING LOT	379 - - 06	8/3/92	RANDOM
336-23 - 7	7/14/92	JOINT	358 - - H			380 - - 14		JOINT
337-23 - 6.5	7/14/92	JOINT	359 - - I			381 - - 22		RANDOM
338-23 - 1.5	7/14/92	JOINT	360 - - J			382 - - 26		DRAIN CAP
339-23 - 00	7/16/92	BEGINNING 'Y'	361 - - K			383 - - 00		END
340-23-A-01	7/14/92	JOINT	362 - - L			384 - - 06		JOINT
341-23A-00	7/14/92	ELL	363 - - M			385 - - 08		JOINT
342-23-B 01	7/14/92	JOINT	364 - - N			386 - - 10	8-3-92	DRAIN CAP
343-23-B 02	7/14/92	ELL	365 - - O			387 - 20 - 123	8-7-92	Follow up JOINT
344-23-C 00	7/14/92	ELL	366 - - P			388 - 20 - 121	8-7-92	Follow up CUT
345-23-C-03	7/14/92	JOINT	367 - 20 - 92	7/29/92	RANDOM	389 - L - 39	8-11-92	CURE JOINTS
346 - 24 -	7/20/92	CONCRETE PIT PIPE CRACK REPAIR	368 - 20 - 102			390 - M - 31		
347 - -	7/24/92	*PIT SCOUR IN DRAIN	369 - 20 - 106			391 - E - 31		
348 - 16 - --	7/24/92	TRENCH DIRT OIL CONTAMINATED IN DRAIN	370 - 20 - 116			392 - A - 22		
349 - -	7/24/92	PIT SCOUR IN DRAIN	371 - 20 - 123			393 - J - 21		
350 - -	7/24/92	TRENCH DIRT OIL CONTAMINATED IN DRAIN	372 - 20 - 124			394 - M - 13		
351 - - A	7/20/92	DEBRIS IN PARKING LOT	373 - 20 - 126			395 - E - 12		
352 - - B	7/20/92	DEBRIS IN PARKING LOT	374 - 21 - 14	7/29/92	JOINT	396 - B - 2		

Sequence Starting With 001 - M.D.L. Section Number - Sample Point Distance (In feet from north or east Reference Zero Feet)

M.D.L. TRENCH SOIL SAMPLE LOG

Sample Number Derived By: (See Bottom of Form)

Sample Number	Date	Notes	Sample Number	Date	Notes	Sample Number	Date	Notes
397-9-10'	8/11/92	S-W RANDOM	-	-		-	-	
398-009-26'	8/12/92	PULL UP SURVEY DRAW CAP	-	-		-	-	
399-T-40'		CORE BORINGS	-	-		-	-	
400-B-39'			-	-		-	-	
401-T-24'			-	-		-	-	
402-T-7'			-	-		-	-	
403-X-2'	↓	↓	-	-		-	-	
404-25-00'	8/14/92	ELL	-	-		-	-	
405-25-04'		CUT	-	-		-	-	
406-26-00'		ELL	-	-		-	-	
407-27-02'		JOINT	-	-		-	-	
408-27-04'		CUT	-	-		-	-	
409-28-00'		ELL	-	-		-	-	
410-28-10'			-	-		-	-	
411-28-12'	↓	PENETRATED PIPE AREA	-	-		-	-	
412-29-0'	8/14/92	BEGINNING ELL	-	-		-	-	
413-9-13'	8/17/92	SOUTH TO NORTH JOINT	-	-		-	-	
414-9-26'	8/19/92	SOUTH TO NORTH TEE	-	-		-	-	
-			-	-		-	-	
-			-	-		-	-	
-			-	-		-	-	
-			-	-		-	-	

Sequence Starting With 001 - M.D.L. Section Number - Sample Point Distance (In feet from north or east Reference Zero Feet)

Westinghouse Electric Corporation
 Advanced Programs - Analytical Laboratory
 Waltz Mill Site

REPORT

Reques # 14793

TO: Larry Smith/Joe Nardi
 Environmental & Regulatory Services
 Westinghouse Electric Corporation

Received: 1/3/92
 Reported: 1/10/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (Ø Aug 7, 1992)

Originator ID	Lab.Spl#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
378	92-2406	<3.1E-01	
379	92-2407	<2.4E-01	
380	92-2408	<3.4E-01	
381	92-2409	3.37E-01	+/- 2.4E-01
382	92-2410	1.50E+00	+/- 3.2E-01
383	92-2411	<2.1E-01	
34	92-2412	<3.6E-01	
385	92-2413	<2.5E-01	
386	92-2414	<3.4E-01	

FLOOR DRAIN NORTH TO SOUTH

FLOOR DRAIN EAST TO WEST

REMOVED CONCRETE AT DRAIN CAP AT 26' MARK.

FOLLOW UP SAMPLING OF MORE CEMENT TO BE CHIPPED AWAY AT SAME LOCATION

SAMPLE # 398

Remarks: Gamma Spectrometry Analysis for U-235

References: Request# 14793
 Procedures: A-524
 Analyst: WTF, MRK, TRK

Approved: Mark Kanchosh

REPORT

Westinghouse Electric Corporation
Advanced Programs - Analytical Laboratory
Waltz Mill Site

Request # 14813

TO: Larry Smith/Joe Nardi
Environmental & Regulatory Services
Westinghouse Electric Corporation

Received: 3/12/92
Reported: 3/20/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (@ Aug 12, 1992)

Originator ID	Lab.Spl#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
398	92-2498	<3.0E-01	Follow up sample of suspect sample # 382.

Remarks: Gamma Spectrometry Analysis for U-235

References: Request# 14813
Procedures: A-524
Analyst: WTF, MRK, TRK

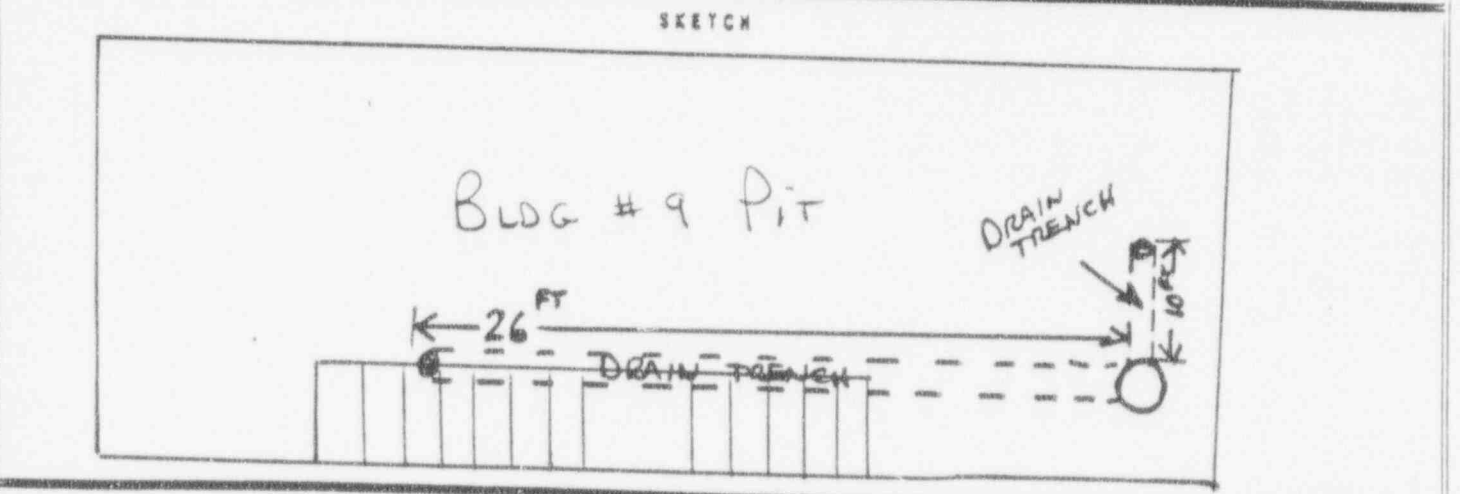
Approved: 



SURVEY TYPE: ROUTINE SPECIAL RWP (RWP #) SURVEY DATE: 8-3-92
 LOCATION: SURVEY SECTION #: 9 BLDG 9 FLOOR DRAIN SURVEY TIME: 0800
 INSTRUMENT: PRS-1 SERIAL # 346 PROBE TYPE: SPA-3
 INSTRUMENT: SERIAL # PROBE TYPE:

DESCRIPTION OF SURVEY

@ Ft. Mark	Count Rate	@ Ft. Mark	Count Rate	@ Ft. Mark	Count Rate
00' END	11360	18	10634		
02	11530	20	10668		
04' RANDOM	11216	22 Joint	10428		
06	11618	24	10634		
08	11722	26 DRAIN CAP	10848		
10	11444				
12	11364				
14 Joint	10532				
16	10218				



REMARKS

This section of floor drain runs N-S
 This is a Post Removal Survey

H. P. SIGNATURE: J. D. Miller
 DATE: 8-3-92



SURVEY TYPE: ROUTINE SPECIAL RWP (RWP #) SURVEY DATE: 8-3-92
 LOCATION: SURVEY SECTION #: 9 RD 9 Floor Drain SURVEY TIME: 0800
 INSTRUMENT: PRS-1 SERIAL # 346 PROBE TYPE: SPA-3
 INSTRUMENT: SERIAL # PROBE TYPE:

DESCRIPTION OF SURVEY

@ Ft. Mark	Count Rate	@ Ft. Mark	Count Rate	@ Ft. Mark	Count Rate
00 END	11004				
02	10920				
04	10962				
06 Joint	10620				
08 Joint	10774				
10 END Drain	10402				

SKETCH

REMARKS

This Section of Floor Drain Runs E-W
 This is A Post Removal Survey

H.P. SIGNATURE L. D. Lister DATE: 8-3-92



SURVEY TYPE: ROUTINE SPECIAL RWP (RWP #) SURVEY DATE: 8-18-92
LOCATION: BLOC 9 PIT SURVEY SECTION #9 FLOOR DRAIN TRENCH SURVEY TIME: 1900
INSTRUMENT: E520 SERIAL # 5242 PROBE TYPE: THIN WINDOW
INSTRUMENT: SERIAL # PROBE TYPE:

DESCRIPTION OF SURVEY

CONTACT BETA SURVEY WITH THIN WINDOW PROBE.

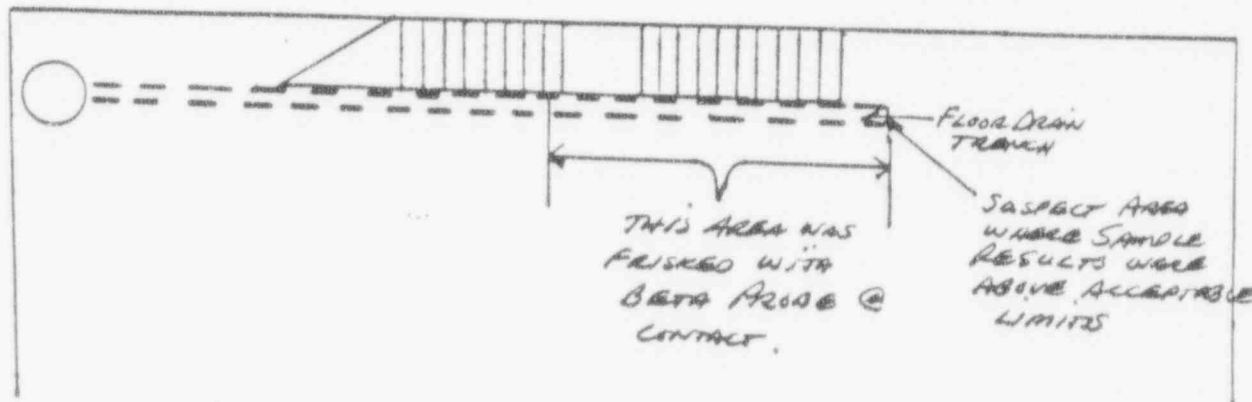
HIGHEST CONTACT LEVELS: 246 DPM NET

CORRECTION FACTOR: 4.93

EFF: 20.3 %

BKG: 148 DPM

SKETCH



REMARKS

Area indicated above frisked to ensure no significant levels did exist. As soon as follow up analytical results are in, the trench can be re cemented.

H.P. SIGNATURE

DATE: 8-17-92

M.D.L. TRENCH SOIL SAMPLE LOG

Sample Number Derived By: (See Bottom of Form)

PAGE 6

Sample Number	Date	Notes	Sample Number	Date	Notes	Sample Number	Date	Notes
331-15A-80	7/15/92	CUT	353 - - C	7/20/92	DEBRIS IN PARKING LOT	375-21-10	7/20/92	JOINT
332-15C-02	7/15/92	Flow VALVE	354 - - D	7/20/92	DEBRIS IN PARKING LOT	376-21-8		CUT
333-15E-03	7/15/92	CUT JOINT	355 - - E	7/20/92	DEBRIS IN PARKING LOT	377-21-6	7/20/92	JOINT
334-15C-03	7/15/92	DUPLICATE SAMPLE of 333	356 - - F	7/20/92	DEBRIS IN PARKING LOT	378-21-9 00	8/3/92	FLOOR DRAIN END
335-23-11	7/14/92	END	357 - - G	7/29/92	DEBRIS IN PARKING LOT	379 - - 06	8/3/92	RANDOM
336-23-7	7/14/92	JOINT	358 - - H			380 - - 14		JOINT
337-23-6.5	7/14/92	JOINT	359 - - I			381 - - 22		RANDOM
338-23-1.5	7/14/92	JOINT	360 - - J			382 - - 26		DRAIN CAP
339-23-00	7/14/92	BEGINNING 'Y'	361 - - K			383 - - 00		END
340-23-A-01	7/14/92	JOINT	362 - - L			384 - - 06		JOINT
341-23A-00	7/14/92	ELL	363 - - M			385 - - 08		JOINT
342-23-B 01	7/14/92	JOINT	364 - - N			386 - - 10	8-3-92	DRAIN CAP
343-23-B 02	7/14/92	ELL	365 - - O			387-20-123	8-7-92	Follow up JOINT
344-23-C 00	7/14/92	ELL	366 - - P			388-20-21	8-7-92	Follow up CUT
345-23-C-03	7/14/92	JOINT	367-20-92	7/29/92	RANDOM	389-L-39	8/11/92	CORE POINTS
346-24-	7/20/92	Continued pit pipe across main	368-20-102		JOINT	390-M-31		
347-	7/24/92	PIT SOURCE IN DRAIN	369-20-106		CUT	391-E-31		
348-16-	7/24/92	TRENCH DIRT OIL CONTAMINATED IN DRAIN	370-20-116		RANDOM	392-A-22		
349-	7/24/92	PIT SOURCE IN DRAIN	371-20-123		JOINT	393-J-21		
350-	7/24/92	TRENCH DIRT OIL CONTAMINATED IN DRAIN	372-20-124		CUT	394-M-13		
351 - - A	7/20/92	DEBRIS IN PARKING LOT	373-20-126		END ELL	395-E-12		
352 - - B	7/20/92	DEBRIS IN PARKING LOT	374-21-14	7/20/92	JOINT	396-B-2		

Sequence Starting With 001 - M.D.L. Section Number - Sample Point Distance (In feet from north or east Reference Zero Feet)

M.D.L. TRENCH SOIL SAMPLE LOG

PAGE 7

Sample Number Derived By: (See Bottom of Form)

Sample Number	Date	Notes	Sample Number	Date	Notes	Sample Number	Date	Notes
397-9-10'	8/11/92	S-N RANDOM	-	-		-	-	
398-209-26'	8/12/92	FOLLOW UP SURVEY DRAIN CAP	-	-		-	-	
399-T-40'		CORE BORINGS	-	-		-	-	
400-B-39'			-	-		-	-	
401-T-24'			-	-		-	-	
402-T-7'			-	-		-	-	
403-X-2'			-	-		-	-	
404-25-00'	8/14/92	ELL	-	-		-	-	
405-25-04'		CUT	-	-		-	-	
406-26-00'		ELL	-	-		-	-	
407-27-02'		JOINT	-	-		-	-	
408-27-04'		CUT	-	-		-	-	
409-28-00'		ELL	-	-		-	-	
410-28-10'			-	-		-	-	
411-28-12'		PENETRATED PIPE AREA	-	-		-	-	
412-29-0'	8/14/92	BEGINNING ELL	-	-		-	-	
413-9-13'	8/17/92	SOUTH TO NORTH JOINT	-	-		-	-	
414-9-26'	8/19/92	SOUTH TO NORTH TEE	-	-		-	-	
415-8-25'	8/24/92	WEST TO EAST JOINT	-	-		-	-	
416-25-4'	8/25/92	DIRT REMOVED FOR DISPOSAL	-	-		-	-	
417-25-4'	8/25/92	TRENCH AFTER DIRT WAS REMOVED	-	-		-	-	
-			-	-		-	-	

Sequence Starting With 001 - M.D.L. Section Number - Sample Point Distance (In feet from north or east Reference Zero Feet)

REPORT

Westinghouse Electric Corporation
Advanced Programs - Analytical Laboratory
Waltz Mill Site

Request# 14812

TO: Larry Smith/Joe Nardi
Environmental & Regulatory Services
Westinghouse Electric Corporation

Received: 8/11/92
Reported: 8/18/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (@ Aug 11, 1992)

Originator ID	Lab.Spl#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
389	92-2489	<3.6E-01	
390	92-2490	2.20E-01	+/- 1.6E-01
391	92-2491	2.52E-01	+/- 8.9E-02
392	92-2492	<2.6E-01	
393	92-2493	<3.5E-01	
394	92-2494	2.18E-01	+/- 1.9E-01
5	92-2495	<3.4E-01	
396	92-2496	<3.0E-01	
397	92-2497	<3.7E-01	

*Coal
Basins
Bldg 9
PIT*

Remarks: Gamma Spectrometry Analysis for U-235

References: Request# 14812
Procedures: A-524
Analyst: WTF, MRK, TRK

Approved: Mark Havelka

Westinghouse Electric Corporation
Advanced Programs - Analytical Laboratory
Waltz Mill Site

REPORT

Reques.# 14813

TO: Larry Smith/Joe Nardi
Environmental & Regulatory Services
Westinghouse Electric Corporation

Received: 3/12/92
Reported: 3/25/92

[RESULTS OF ANALYSIS]

GAMMA SPECTROMETRY ANALYSIS (8 Aug 12, 1992)

Originator ID	Lab.Spl#	U-235 (Wet Basis)	
		pCi/gram	2 sigma
398	92-2498	<3.0E-01	
399	92-2499	2.56E-01	+/- 2.3E-01
400	92-2500	<3.1E-01	
401	92-2501	<2.6E-01	
402	92-2502	3.76E-01	+/- 2.2E-01
403	92-2503	<2.5E-01	

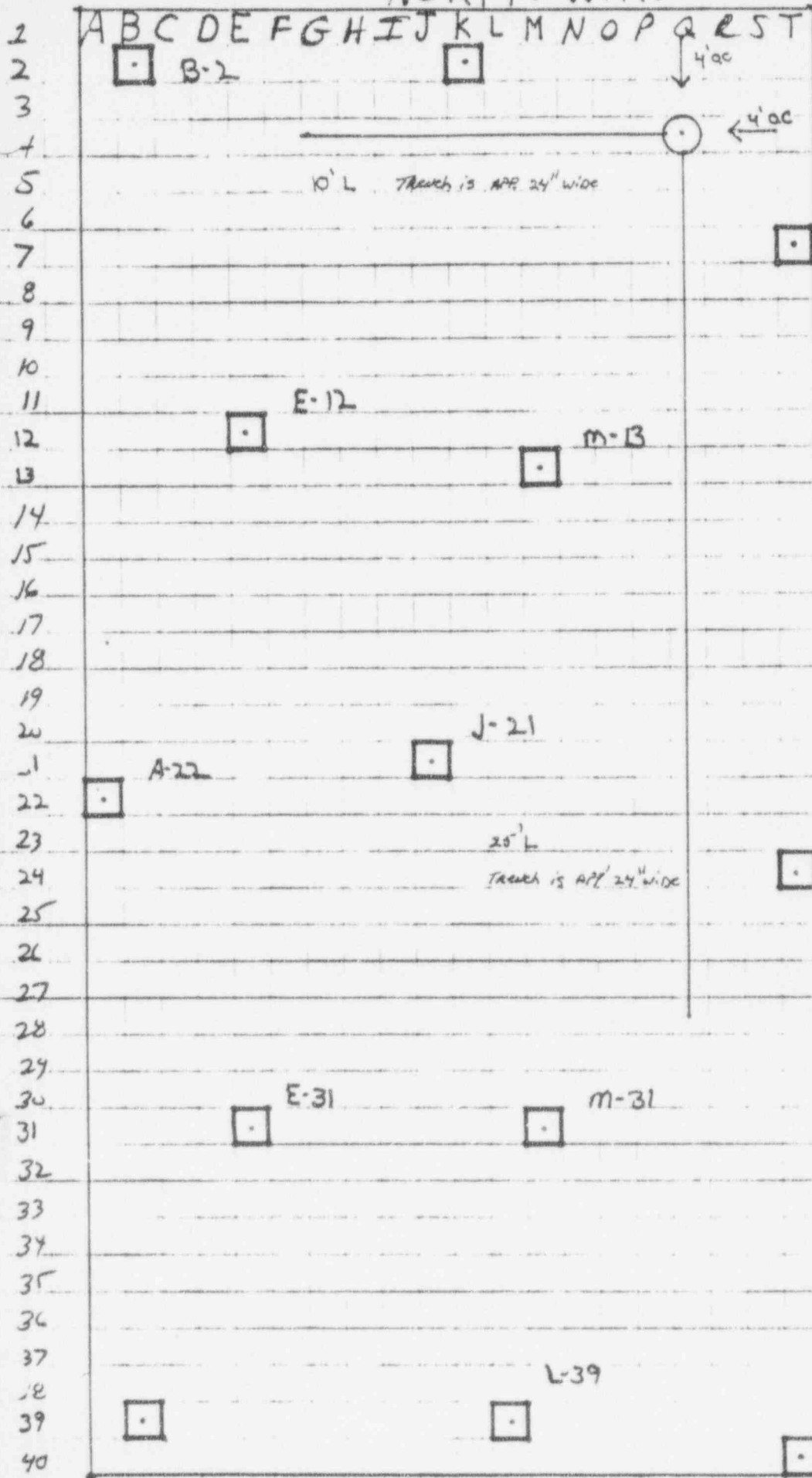
BLOC 9
CORE
BORINGS

Remarks: Gamma Spectrometry Analysis for U-235

References: Request# 14813
Procedures: A-524
Analyst: WTF, MRK, TRK

Approved: Mark Kautski

NORTH WALL



RANDOM CORE SAMPLES.

BLD #9 TANK PITT

KEY:

1 Block = 1 FT

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 6

(SURVEY SECTION 4)

MARCH 11, 1993

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

REPORT #017

"OFFICIAL RECORD COPY" MAR 10

117646

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 6
(SURVEY SECTION 4)

MARCH 11, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #017

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FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 6
(SURVEY SECTION 4)

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Appendix C - Radiological Survey Data Sheets For Unit 3	
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FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 6
(Survey Section 4)

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 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

Survey information for the second floor of Building 6 (Survey Section 5) is documented in Report #019.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 6 on the site. Figure 2 presents the floor plan for the first floor 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. Table 1 presents a summary of the assigned classification. Historically, only the back portion of the building was known to have involved the use of radioactive material. The front portion of the building had not been used for radioactive material as far as was known. It was administratively decided however to designate the front portion as Class 3 rather than a lower classification.

Appendices A through E incorporate all of the radiological survey data sheets for each of the five survey units. Tables 2 through 6 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. One measurement does not meet the statistical test for Unit 4 (Table 5). As for other locations, the measurement of gamma dose rate at 1 meter shows elevated readings in the restroom. These higher readings are apparently due to the natural composition of the tile and fixtures. No further action has been taken.

Appendix F incorporates the radiological survey data sheets for portions of the ventilation system ductwork. Table 7 presents the survey data for these ventilation systems 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 Table 7 to determine if the acceptance criteria have been met at the desired degree of confidence.

Table 9 presents a summary of the statistical information from Tables 1 through 7.

Floor scans of portions of each area were also conducted. Appendix G contains the radiological data survey sheets for these floor scans. Table 8 presents the results of the floor scan data in units directly comparable with the applicable acceptance criteria.

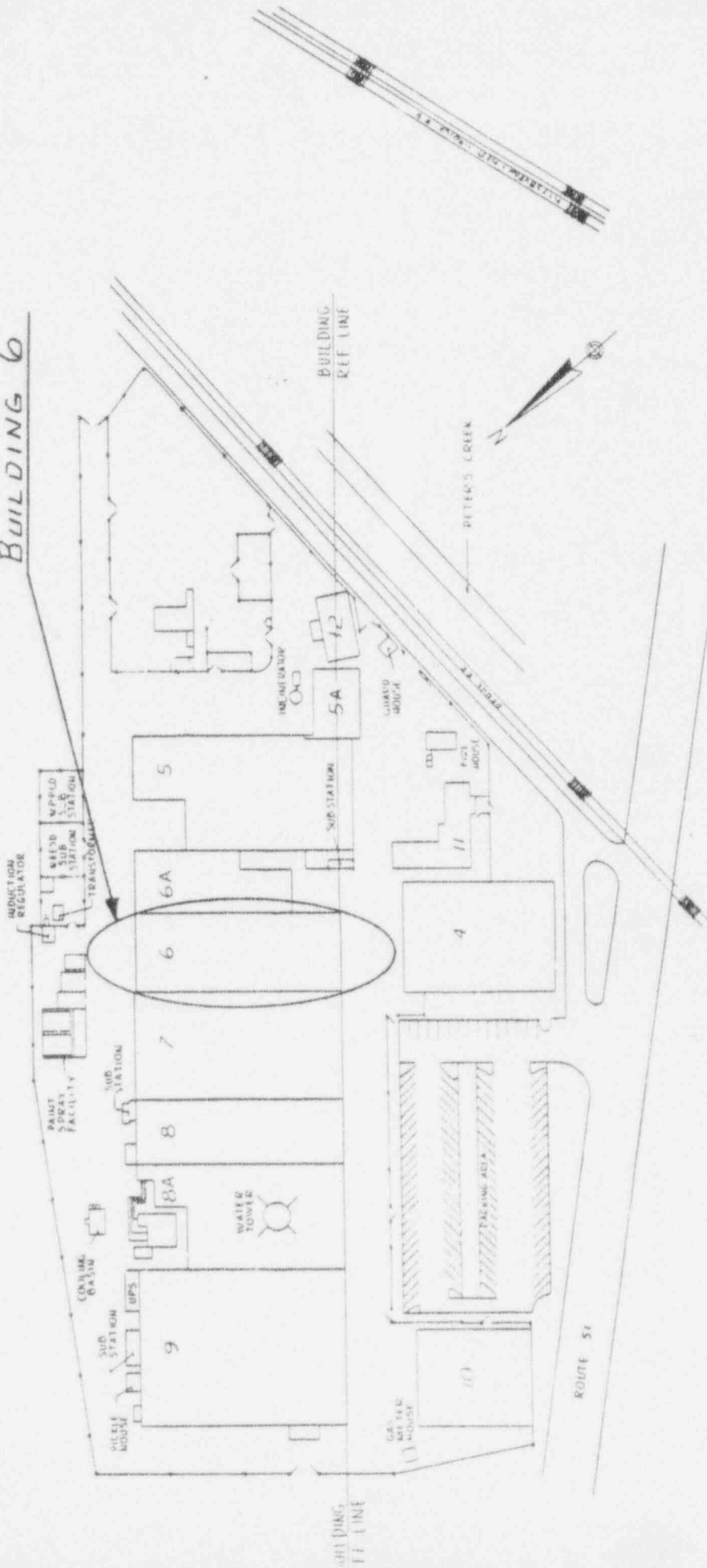
Current Status

Building 6 is a partially occupied area. It is anticipated that use of this building will continue throughout the project. 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 with the exception of the gamma dose rate at 1 meter as discussed above. Therefore, this area of this 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 in this report, as there is no further use of radioactive material on the site.

BUILDING 6



SHEET NO.	DATE	REVISIONS	PARTS LIST			PROJECT INFORMATION	
			NO.	DESCRIPTION	QTY	UNIT	
			DESIGN: <u>VAESD</u> DATE: <u>14663</u>		PROJECT: <u>V A E S D L A R G E P A</u> SHEET: <u>JN030</u>		
			CONTRACT NO. <u> </u> DATE OF ORDER <u> </u> SCALE: <u> </u>		CONTRACTOR: <u> </u> ENGINEER: <u> </u>		

FIGURE 1
SITE PLOT PLAN

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

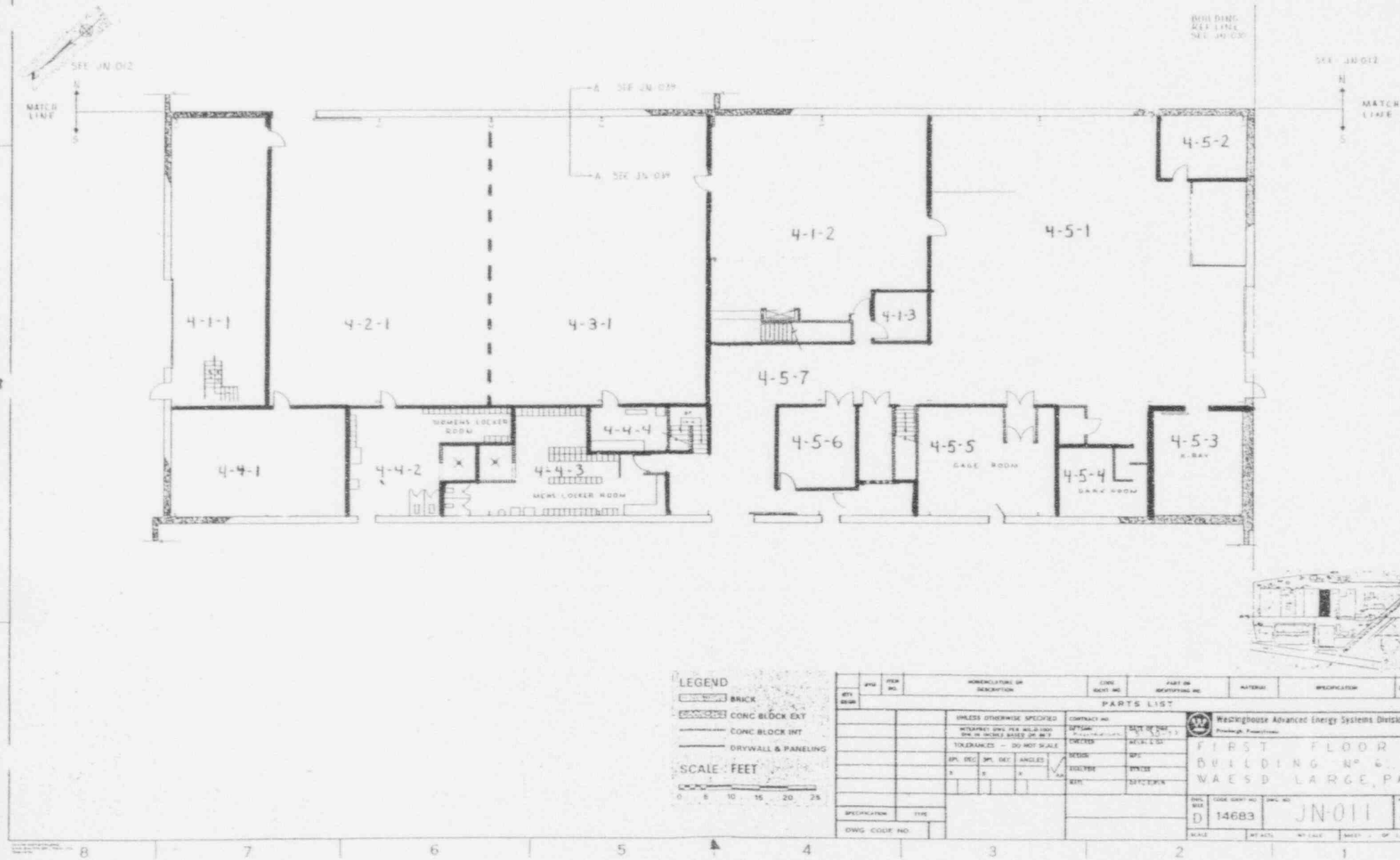


FIGURE 2
FLOOR PLAN - BUILDING 6 FIRST FLOOR

TABLE 1

SURVEY CLASSIFICATION FOR THE FIRST FLOOR OF BUILDING 7

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

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 1)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)	
?	?	?	REF POINT	CODE									
?	South Wall	?	A	?	2, -5	4-1-1		323.0	157.1	-4.3	346.3	-0.26	9.66
?	"	"	"	?	4, -5	4-1-1		622.7	302.6	0.0	241.5	-0.26	9.66
?	"	?	"	?	6, -5	4-1-1		416.1	229.9	-4.3	229.9	-0.26	-2.49
?	"	?	"	?	8, -5	4-1-1		422.0	157.1	-8.7	98.9	-0.26	3.59
?	"	?	"	?	10, -5	4-1-1		680.9	157.1	-8.7	98.9	-0.26	-2.49
?	"	?	"	?	12, -5	4-1-1		261.9	40.7	0.0	107.7	-0.26	-2.49
?	"	?	"	?	14, -5	4-1-1		395.8	157.1	-4.3	171.7	-0.26	-2.49
?	"	?	"	?	16, -5	4-1-1		422.0	186.2	0.0	259.0	-0.26	9.66
?	West Wall	?	"	?	4, -5	4-1-1		328.8	69.8	0.0	131.0	-0.26	-2.49
?	East Wall	?	"	?	5, -5	4-1-1		523.8	302.6	-4.3	491.8	-0.26	-2.49
?	North Wall	?	N/A	?	2, -1.7	4-1-1		384.1	157.1	8.7	448.1	-0.26	-2.49
?	Door Roll	?	"	?	4, -1.7	4-1-1		448.1	11.6	4.3	-69.8	-0.26	-2.49
?	"	?	"	?	6, -1.7	4-1-1		477.2	302.6	4.3	-52.4	-0.26	-2.49
?	North Wall	?	"	?	10, -1.7	4-1-1		512.2	360.8	4.3	314.3	-0.26	-2.49
?	"	?	"	?	12, -1.7	4-1-1		430.7	302.6	0.0	407.4	-0.26	-2.49
?	"	?	"	?	14, -1.7	4-1-1		785.7	520.9	13.0	430.7	-0.26	3.59
?	"	?	"	?	16, -1.7	4-1-1		611.1	448.1	99.6	611.1	-0.26	3.41
?	South Wall	?	"	?	2, -2	4-1-1		512.2	375.4	-8.7	311.4	-0.26	-2.49
?	"	?	"	?	4, -2	4-1-1		422.0	331.7	-8.7	389.9	-0.26	3.41
?	"	?	"	?	6, -1.7	4-1-1		375.4	215.3	8.7	203.7	-0.26	9.66
?	"	?	"	?	8, -1.7	4-1-1		419.0	419.0	-8.7	229.9	-0.26	-2.49
?	"	?	"	?	10, -1.7	4-1-1		317.2	273.5	0.0	244.4	-0.26	9.66
?	Furnace Plenum Top	?	"	?	N/A	4-1-1		235.7	11.6	-8.7	-23.3	-0.26	-2.49
?	Top of Vent Out Pot	?	"	?	"	4-1-1		398.7	11.6	-4.3	244.4	-0.26	9.66
?	"	?	"	?	"	4-1-1		244.4	84.4	-4.3	136.8	-0.26	-2.49
?	Top of Vent	?	N/A	?	N/A	4-1-1		323.0	11.6	-4.3	78.6	-0.26	-2.49
?	"	?	"	?	"	4-1-1		261.9	84.4	4.3	34.9	-0.26	3.59
?	"	?	"	?	"	4-1-1		392.9	84.4	8.7	49.5	-0.26	3.59
?	"	?	"	?	"	4-1-1		232.8	-75.7	0.0	-90.2	-0.26	-2.49
?	"	?	"	?	"	4-1-1		142.6	-61.1	-4.3	-58.2	-0.26	-2.49
?	"	?	"	?	"	4-1-1		160.1	11.6	4.3	-20.4	-0.26	3.59

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 1)

?	?	?	X, Y	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY		
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA	
?	?	?	REF POINT	CODE	@1 METER (microR/hr)	ON CONTACT (mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	
?	"	?	"	"	4-1-1		174.6	11.6	0.0	8.7	-0.26	-2.49	
?	"	?	"	"	4-1-1		119.3	-61.1	-4.3	122.2	-0.26	3.59	
?	"	?	"	"	4-1-1		96.0	40.7	-8.7	75.7	-0.26	-2.49	
?	South Wall	?	"	12, -1.7	4-1-1		224.1	11.6	4.3	334.7	-0.26	-2.49	
?	"	?	"	14, -1.7	4-1-1		320.1	186.2	-4.3	227.0	-0.26	-2.49	
?	"	?	"	16, -1.7	4-1-1		273.5	157.1	-8.7	253.2	-0.27	-2.49	
?	Floor Tile	?	N/A	2, -2	4-1-2	9	0.020	31.2	-31.2	2.4	9.6	-0.26	3.41
?	"	?	"	4, -2	4-1-2	8	0.010	-26.4	-47.2	9.8	-55.2	-0.26	3.59
?	"	?	"	6, -2	4-1-2	10	0.010	22.4	-11.2	1.2	-17.6	-0.26	-2.49
?	"	?	"	8, -2	4-1-2	10	0.010	44.8	8.8	0.0	16.8	-0.26	3.59
?	"	?	"	10, -2	4-1-2	9	0.010	-36.8	-51.2	6.1	-34.4	-0.26	9.66
?	"	?	"	10, -4	4-1-2	10	0.010	55.2	-31.2	0.0	-22.4	-0.26	3.41
?	"	?	"	8, -4	4-1-2	9	0.010	56.0	-31.2	3.7	-57.6	-0.26	-2.49
?	"	?	"	6, -4	4-1-2	7	0.010	-60.8	-91.1	0.0	-107.1	7.74	-2.49
?	"	?	"	4, -4	4-1-2	8	0.010	-40.8	-91.1	1.2	-80.0	-0.26	-2.49
?	"	?	"	2, -4	4-1-2	9	0.010	97.5	28.8	1.2	-28.0	-0.26	-2.49
?	"	?	"	2, -6	4-1-2	8	0.010	-13.6	-71.2	2.4	-15.2	-0.26	-2.49
?	"	?	"	4, -6	4-1-2	7	0.010	-85.6	-151.1	1.2	-114.3	-0.26	3.59
?	"	?	"	6, -6	4-1-2	7	0.010	-58.4	-71.2	2.4	-91.1	-0.26	-2.49
?	"	?	"	8, -6	4-1-2	8	0.010	20.0	-31.2	6.1	-52.0	-0.26	-2.49
?	"	?	"	10, -6	4-1-2	10	0.010	-44.0	-71.2	2.4	-123.1	-0.26	3.41
?	Floor Tile	?	N/A	10, -8	4-1-2	9	0.010	13.6	-31.2	6.1	-26.4	-0.26	-2.49
?	"	?	"	8, -8	4-1-2	7	0.010	-12.0	-31.2	0.0	-60.0	-0.26	-2.49
?	"	?	"	6, -8	4-1-2	7	0.020	-2.4	-31.2	4.9	-52.8	-0.26	-2.49
?	"	?	"	4, -8	4-1-2	8	0.010	-16.8	-51.2	0.0	-43.2	-0.26	3.59
?	"	?	"	2, -8	4-1-2	9	0.010	38.4	-11.2	9.8	25.6	-0.26	3.41
?	Ceiling	?	N/A	2, -2	4-1-2			119.3	-104.8	4.3	52.4	-0.26	-2.49
?	"	?	"	2, -4	4-1-2			256.1	69.8	34.6	-40.7	-0.26	-2.49
?	"	?	"	2, -6	4-1-2			107.7	-61.1	13.0	-17.5	7.74	3.59
?	Elevator shaft floor?	?	N/A	N/A	4-1-2			497.6	273.5	26.0	419.0	-0.26	3.59
?	"	?	"	"	4-1-2			547.1	302.6	52.0	430.7	-0.26	3.41

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 2)

?	?	?	X, Y	LOCATION	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY			
					SURVEY	SURVEY	MAXIMUM	AVERAGE	ALPHA	BETA	ALPHA	BETA		
?	SURFACE DESCRIPTION	?	REF	?	@1 METER	ON CONTACT	BETA	BETA	ALPHA	BETA	ALPHA	BETA		
?	?	?	POINT	?	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)		
?	Tile Floor	?	N/A	?	2, -2	4-2-1	8	0.010	155.9	120.9	0.0	0.0	-0.26	-2.49
?	"	?	"	?	2, -4	4-2-1	9	0.010	67.7	37.3	0.0	36.5	-0.26	-2.49
?	"	?	"	?	2, -6	4-2-1	8	0.010	81.4	37.3	5.6	95.8	-0.26	-2.48
?	"	?	"	?	2, -8	4-2-1	8	0.010	157.4	98.1	0.0	63.9	-0.26	-2.49
?	"	?	"	?	2, -10	4-2-1	8	0.010	198.5	170.3	9.0	61.6	-0.26	-2.49
?	"	?	"	?	2, -12	4-2-1	8	0.010	129.3	98.1	3.4	92.0	-0.26	-2.49
?	"	?	"	?	4, -2	4-2-1	8	0.010	70.7	37.3	9.0	25.9	2.38	5.53
?	"	?	"	?	6, -4	4-2-1	8	0.010	51.7	6.8	6.8	25.1	-0.26	-2.49
?	"	?	"	?	8, -4	4-2-1	8	0.010	128.5	105.7	-6.8	96.6	-0.26	-2.49
?	"	?	"	?	10, -4	4-2-1	8	0.010	228.9	113.3	-11.3	44.1	-0.26	-2.49
?	"	?	"	?	10, -2	4-2-1	8	0.010	159.7	82.9	1.1	89.0	-0.26	-2.49
?	"	?	"	?	12, -2	4-2-1	8	0.010	144.5	120.9	-4.5	90.5	-0.26	3.59
?	"	?	"	?	16, -2	4-2-1	8	0.010	83.6	29.7	5.6	104.2	-0.26	-2.49
?	"	?	"	?	16, -4	4-2-1	8	0.010	175.6	132.3	-11.3	153.6	-0.26	-2.49
?	"	?	"	?	16, -12	4-2-1	8	0.010	151.3	75.3	-9.0	140.7	-0.26	-2.49
?	Tile Floor	?	N/A	?	4, -8	4-2-1	8	0.010	145.2	113.3	6.8	51.7	-0.26	-2.49
?	"	?	"	?	6, -8	4-2-1	8	0.010	101.9	90.5	9.0	70.0	-0.26	-2.49
?	"	?	"	?	8, -8	4-2-1	8	0.010	149.8	94.3	-6.8	92.8	-0.26	-2.49
?	"	?	"	?	16, -8	4-2-1	8	0.010	155.1	113.3	1.1	113.3	-0.26	3.59
?	"	?	"	?	8, -12	4-2-1	8	0.010	119.4	82.9	-4.5	95.0	-0.26	3.41
?	"	?	"	?	6, -12	4-2-1	8	0.010	216.7	105.7	7.9	4.6	-0.26	-2.49
?	"	?	"	?	10, -8	4-2-1	8	0.010	198.5	151.3	11.3	250.2	-0.26	-2.49
?	"	?	"	?	10, -10	4-2-1	8	0.010	280.6	227.4	-1.1	304.1	-0.26	-2.49
?	"	?	"	?	12, -10	4-2-1	8	0.010	337.6	303.4	2.3	348.2	7.74	-2.49
?	"	?	"	?	14, -10	4-2-1	8	0.010	253.2	189.3	2.3	155.1	-0.26	-2.49
?	"	?	"	?	14, -12	4-2-1	8	0.010	217.5	181.7	1.1	113.3	-0.26	-2.49
?	"	?	"	?	14, -8	4-2-1	8	0.010	115.6	82.9	3.4	149.0	-0.26	9.31
?	"	?	"	?	14, -6	4-2-1	8	0.010	155.9	113.3	2.3	78.3	-0.26	-2.49
?	"	?	"	?	14, -4	4-2-1	8	0.010	120.9	56.3	-2.3	91.2	-0.26	-2.49
?	"	?	"	?	14, -2	4-2-1	8	0.010	106.5	56.3	-1.1	126.2	-0.26	-2.49
?	North Wall	?	N/A	?	2, -5	4-2-1			244.4	75.7	0.0	189.2	-0.26	-2.49

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 2)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE								
?	"	"	8, -5	4-2-1			96.0	-69.8	-4.3	209.5	-0.26	3.41
?	"	"	14, -5	4-2-1			352.1	104.8	-4.3	154.2	-0.26	-2.49
?	East Wall	"	4, -5	4-2-1			675.1	413.2	0.0	518.0	-0.26	3.59
?	North Wall	N/A	10, -1	4-2-1			128.0	-23.3	-8.7	139.7	-0.26	3.59
?	On Top Vent (N)	"	10, -2	4-2-1			407.4	20.4	4.3	-17.5	-0.26	9.66
?	On Top Vent (N)	"	10, -3	4-2-1			183.3	-8.7	-4.3	-26.2	-0.26	3.59
?	Overhead Beams	"	10, -4	4-2-1			113.5	20.4	13.0	-8.7	-0.26	-2.49
?	"	"	12, -4	4-2-1			131.0	-8.7	-4.3	-43.7	-0.26	5.53
?	"	"	8, -4	4-2-1			-29.1	-154.2	0.0	-78.6	-0.26	-2.49
?	"	"	6, -4	4-2-1			125.1	-96.0	-4.3	-136.8	-0.26	3.41
?	"	"	4, -4	4-2-1			20.4	-37.8	4.3	20.4	-0.26	-2.49
?	"	"	2, -4	4-2-1			296.8	78.6	0.0	-43.7	-0.26	-2.49
?	West Wall	"	20, -2.5	4-2-1			160.1	20.4	-8.7	119.3	-0.26	-2.49
?	On Top of Vent (W)	"	20, -3	4-2-1			20.4	-96.0	-8.7	90.2	-0.26	-2.49
?	Overhead Beams	"	8, -8	4-2-1			-98.9	-154.2	8.7	-26.2	-0.26	-2.49
?	"	"	6, -8	4-2-1			131.0	-66.9	17.3	-78.6	-0.26	-2.49
?	"	"	4, -8	4-2-1			78.6	-23.3	-4.3	-23.3	-0.26	-2.49
?	"	"	2, -8	4-2-1			98.9	-66.9	8.7	-55.3	-0.26	3.59
?	Overhead Beams	N/A	2, -6	4-2-1			439.4	195.0	4.3	-26.2	-0.26	3.59
?	West Wall	"	16, -2.5	4-2-1			247.4	78.6	0.0	200.8	-0.26	-2.49
?	Top of Vent (W)	"	16, -3	4-2-1			288.1	107.7	0.0	125.1	-0.26	-2.49
?	Overhead beams	"	6, -10	4-2-1			58.2	-125.1	-4.3	-11.6	-0.26	-2.49
?	"	"	8, -10	4-2-1			282.3	136.8	-4.3	-107.7	-0.26	9.31
?	"	"	4, -10	4-2-1			104.8	20.4	0.0	87.3	-0.26	-2.49
?	"	"	2, -10	4-2-1			439.4	136.8	0.0	-17.5	-0.26	-2.49
?	West Wall	"	14, -2.5	4-2-1			395.8	49.5	-4.3	163.0	-0.26	-2.49
?	Top of Vent (W)	"	14, -3	4-2-1			261.9	122.2	4.3	23.3	-0.26	3.41
?	"	"	6, -11	4-2-1			369.6	195.0	-4.3	-32.0	-0.26	-2.49
?	"	"	6, -12	4-2-1			20.4	-168.8	0.0	-52.4	-0.26	-2.49
?	"	"	8, -12	4-2-1			253.2	-96.0	4.3	5.8	-0.26	3.59
?	East Wall	"	10, -2	4-2-1			480.2	261.9	-4.3	43.7	-0.26	-2.49

TABLE 4

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 3)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	?	?	REF POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	East Wall	? 14, -5	? N/A	4-3-1			704.2	454.0	-4.3	398.7	-0.26	-2.49
?	"	? 16, -5	? "	4-3-1			628.6	279.4	4.3	468.5	-0.26	-2.49
?	"	? 20, -5	? "	4-3-1			404.5	163.0	13.0	305.6	-0.26	-2.49
?	South Wall	? 2, -5	? "	4-3-1			602.4	163.0	0.0	113.5	-0.26	3.59
?	"	? 10, -5	? "	4-3-1			459.8	104.8	0.0	221.2	-0.26	-2.49
?	Tiled Floor	? 2, -14	? N/A	4-3-1	10	0.010	84.4	-48.7	4.5	-118.6	-0.26	5.53
?	"	? 2, -16	? "	4-3-1	11	0.010	16.0	-67.7	-5.8	-108.0	-0.26	-2.49
?	"	? 2, -18	? "	4-3-1	10	0.010	8.4	-29.7	6.8	-44.1	-0.26	-2.49
?	"	? 2, -20	? "	4-3-1	9	0.010	16.0	-37.3	12.4	-20.5	-0.26	-2.49
?	"	? 2, -22	? "	4-3-1	11	0.010	-48.7	-105.7	3.4	-78.3	-0.26	-2.49
?	"	? 2, -24	? "	4-3-1	11	0.010	-10.6	-67.7	4.5	-81.4	-0.26	-2.49
?	"	? 4, -14	? "	4-3-1	9	0.020	46.4	-29.7	16.9	-57.8	-0.26	3.41
?	"	? 4, -18	? "	4-3-1	11	0.010	84.4	8.4	3.4	-21.3	-0.26	-2.49
?	"	? 4, -20	? "	4-3-1	10	0.010	65.4	-67.7	2.3	-99.6	-0.26	-2.49
?	"	? 4, -22	? "	4-3-1	9	0.010	-10.6	-86.7	-4.5	-69.2	-0.26	3.41
?	"	? 6, -14	? "	4-3-1	9	0.010	-6.8	-29.7	5.6	-11.4	-0.26	3.59
?	"	? 6, -20	? "	4-3-1	9	0.010	-6.8	-86.7	-5.6	-108.7	-0.26	-2.49
?	"	? 6, -22	? "	4-3-1	10	0.020	-20.5	-75.3	16.9	-74.5	-0.26	-2.49
?	"	? 8, -20	? "	4-3-1	10	0.010	-9.9	-48.7	0.0	-93.5	-0.26	-2.49
?	"	? 8, -22	? "	4-3-1	10	0.010	46.4	-67.7	0.0	-78.3	-0.26	-2.49
?	Tiled Floor	? 10, -22	? N/A	4-3-1	10	0.020	-29.7	-67.7	-11.3	-50.9	-0.26	-2.49
?	"	? 4, -24	? "	4-3-1	10	0.010	2.3	-67.7	7.9	-71.5	-0.26	-2.49
?	"	? 6, -24	? "	4-3-1	12	0.020	-3.0	-48.7	-11.3	-16.7	-0.26	3.41
?	"	? 8, -24	? "	4-3-1	9	0.020	-25.9	-60.1	0.0	-74.5	-0.26	-2.49
?	"	? 10, -24	? "	4-3-1	9	0.010	-48.7	-67.7	-6.8	-72.2	-0.26	3.41
?	"	? 12, -24	? "	4-3-1	12	0.010	-83.6	-124.7	12.4	-73.8	-0.26	-2.49
?	"	? 14, -24	? "	4-3-1	14	0.010	27.4	0.8	-3.4	27.4	-0.26	-2.49
?	"	? 16, -24	? "	4-3-1	18	0.020	70.0	-67.7	6.8	64.6	-0.26	-2.49
?	"	? 16, -22	? "	4-3-1	15	0.020	92.0	65.4	-10.2	118.6	-0.26	-2.49
?	"	? 16, -20	? "	4-3-1	16	0.020	72.2	46.4	-1.1	90.5	-0.26	-2.49
?	"	? 16, -18	? "	4-3-1	13	0.020	46.4	8.4	4.5	47.9	-0.26	3.59

TABLE 4

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 3)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	?	?	REF POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	"	? 16, -15	"	4-3-1	17	0.010	145.2	84.4	-7.9	76.0	-0.26	-2.49
?	"	? 16, -14	"	4-3-1	15	0.010	130.0	103.4	4.5	117.9	-0.26	-2.49
?	Ceiling Beam	? N/A	? 2, -14	4-3-1			433.6	238.6	4.3	69.8	-0.26	-2.49
?	"	? "	? 4, -14	4-3-1			163.0	5.8	8.7	8.7	-0.26	3.59
?	"	? "	? 6, -14	4-3-1			413.2	64.0	8.7	14.6	-0.26	-2.49
?	"	? "	? 8, -14	4-3-1			309.1	93.1	4.3	87.3	-0.26	-2.49
?	West Wall	? "	? 10, 02	4-3-1			480.0	180.4	8.7	299.7	-0.26	-2.49
?	Vent - Top	? @ 10 m.	?	4-3-1			416.1	151.3	4.3	87.3	-0.26	3.41
?	Ceiling Beam	? N/A	? 2, -16	4-3-1			299.7	180.4	8.7	11.6	7.74	3.59
?	"	? "	? 4, -16	4-3-1			107.1	-23.3	17.3	26.2	-0.26	3.59
?	"	? "	? 6, -16	4-3-1			93.1	20.4	13.0	101.9	-0.26	-2.49
?	"	? "	? 8, -16	4-3-1			174.6	64.0	8.7	84.4	-0.26	9.31
?	Light Fixture	? "	? 3, -17	4-3-1			477.2	296.8	4.3	154.2	-0.26	-2.49
?	West Wall	? "	? 8, -3	4-3-1			643.1	384.1	8.7	352.1	-0.26	-2.49
?	Ceiling	? "	? 10, -18	4-3-1			209.5	186.2	4.3	131.0	-0.26	3.59
?	"	? "	? 12, -18	4-3-1			247.4	122.2	17.3	52.4	-0.26	-2.49
?	"	? "	? 8, -18	4-3-1			500.5	151.3	8.7	131.0	-0.26	-2.49
?	Ceiling	? N/A	? 6, -18	4-3-1			247.4	151.3	8.7	43.7	-0.26	-2.49
?	"	? "	? 4, -18	4-3-1			282.3	180.4	0.0	142.6	-0.26	9.31
?	"	? "	? 2, -18	4-3-1			296.8	64.0	8.7	116.4	-0.26	-2.49
?	Vent - Top	? "	? N/A	4-3-1			311.4	180.4	4.3	203.7	-0.26	-2.49
?	Light Fixture	? "	? 10, -20	4-3-1			293.9	165.9	4.3	78.6	-0.26	-2.49
?	Ceiling	? "	? 8, -20	4-3-1			375.4	122.2	13.0	151.3	-0.26	-2.49
?	"	? "	? 6, -20	4-3-1			142.6	5.8	4.3	93.1	-0.26	-2.49
?	Light Fixture	? "	? 4, -20	4-3-1			267.7	64.0	0.0	96.0	-0.26	3.59
?	"	? "	? 2, -20	4-3-1			454.0	238.6	13.0	131.0	-0.26	-2.49
?	Top of Vent	? @ 4 m.	? N/A	4-3-1			119.3	-81.5	0.0	180.4	-0.26	9.31
?	Ceiling Beam	? N/A	? 10, -22	4-3-1			215.3	5.8	4.3	128.0	-0.26	-2.49
?	"	? "	? 8, -22	4-3-1			256.1	64.0	8.7	119.3	-0.26	-2.49
?	"	? "	? 6, -22	4-3-1			183.3	93.1	21.7	43.7	-0.26	-2.49
?	"	? "	? 2, -22	4-3-1			378.3	180.4	17.3	40.7	-0.26	9.66

TABLE 5

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 4)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	Upper Surfaces	N/A	1, -2	4-4-1			151.3	75.7	-4.3	61.1	-0.26	3.59
?	Ceiling	"	1, -4	4-4-1			163.0	75.7	4.3	55.3	-0.26	-2.49
?	"	"	1, -6	4-4-1			110.6	-11.6	4.3	-8.7	-0.26	3.41
?	"	"	1, -8	4-4-1			101.9	-11.6	8.7	-14.6	-0.26	3.41
?	"	"	3, -2	4-4-1			165.9	46.6	-4.3	11.6	-0.26	-2.49
?	"	"	3, -4	4-4-1			227.0	75.7	-4.3	78.6	-0.26	-2.49
?	"	"	3, -6	4-4-1			78.6	2.9	13.0	-5.8	-0.26	9.66
?	"	"	3, -8	4-4-1			101.9	17.5	4.3	20.4	-0.26	-2.49
?	"	"	5, -6	4-4-1			69.8	-11.6	13.0	-34.9	-0.26	9.31
?	West Wall	N/A	2, -1.1	4-4-1			529.6	75.7	4.3	221.2	-0.26	-2.49
?	"	"	4, -1.1	4-4-1			355.0	163.0	-4.3	288.1	-0.26	-2.49
?	"	"	6, -1.1	4-4-1			515.1	355.0	-4.3	360.8	-0.26	-2.49
?	"	"	8, -1.1	4-4-1			692.6	279.4	4.3	282.3	-0.26	3.41
?	North Wall	"	2, -1.1	4-4-1			695.5	221.2	0.0	305.6	-0.26	-2.49
?	"	"	4, -1.1	4-4-1			279.4	163.0	0.0	273.5	-0.26	-2.49
?	Floor Tile	"	5, -6	4-4-1	8	0.010	-99.6	-142.9	10.2	-127.7	-0.16	-2.49
?	"	"	3, -6	4-4-1	8	0.010	-43.3	-55.5	1.1	-77.6	-0.26	-2.49
?	Concrete	"	3, -4	4-4-1	9	0.010	-141.4	-177.2	2.3	-123.9	-0.26	3.59
?	"	"	3, -2	4-4-1	9	0.010	131.5	70.0	-13.5	-30.4	-0.26	3.41
?	"	"	1, -2	4-4-1	15	0.020	225.8	214.4	11.3	207.6	-0.26	-2.49
?	"	"	1, -4	4-4-1	10	0.010	222.0	168.8	-9.0	92.0	-0.26	-2.49
?	"	"	1, -6	4-4-1	10	0.010	171.1	115.6	0.0	114.8	-0.26	3.41
?	"	"	1, -8	4-4-1	11	0.010	169.6	108.0	4.5	130.8	-0.26	3.59
?	"	"	3, -8	4-4-1	10	0.010	-106.5	62.4	-2.3	-37.3	-0.26	-2.49
?	North Wall	N/A	2, -7	4-4-2			366.7	253.2	-4.3	154.2	-0.26	3.41
?	"	"	4, -7	4-4-2			241.5	165.9	0.0	43.7	-0.26	-2.49
?	East Wall	"	4, -7	4-4-2			384.1	238.6	-4.3	-8.7	-0.26	9.66
?	"	"	6, -7	4-4-2			302.6	195.0	0.0	-8.7	-0.26	9.31
?	"	"	8, -7	4-4-2			369.6	174.6	0.0	195.0	-0.26	-2.49
?	South Wall	"	2, -7	4-4-2			544.2	165.9	0.0	244.4	-0.26	-2.49
?	Cement Floor	"	2, -2	4-4-2	13	0.010	317.1	228.1	3.4	299.6	-0.26	-2.49

TABLE 5

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 4)

?	?	?	X,Y	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM	AVERAGE	ALPHA	BETA	ALPHA	BETA
?	SURFACE DESCRIPTION	GRID	REF	CODE	@1 METER	ON CONTACT	BETA	BETA	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	?	?	POINT		(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	"	?	2, -4	4-4-2	15	0.020	362.7	304.1	5.6	283.6	-0.26	-2.49
?	"	?	4, -4	4-4-2	13	0.020	441.0	361.2	0.0	319.4	-0.26	-2.49
?	"	?	4, -2	4-4-2	13	0.010	327.0	304.1	-1.1	285.9	-0.26	3.59
?	Ceiling	?	2, -2	4-4-2			-49.5	-119.3	13.0	-49.5	-0.26	3.41
?	"	?	2, -4	4-4-2			-46.6	-177.5	13.0	-107.7	-0.26	9.66
?	"	?	4, -2	4-4-2			171.7	-61.1	4.3	40.7	-0.26	-2.49
?	"	?	4, -4	4-4-2			-5.8	-119.3	0.0	-90.2	-0.26	-2.49
?	East Wall	?	2, 0	4-4-2			314.3	26.2	0.0	-17.5	-0.26	-2.49
?	South Wall (2)	?	2, 0	4-4-2			422.0	-2.9	8.7	-23.3	-0.26	-2.49
?	West Wall (3)	?	2, 0	4-4-2			593.6	317.2	13.0	288.1	-0.26	-2.49
?	West Wall	?	N/A	4-4-3			439.4	320.1	0.0	323.0	-0.26	-2.49
?	East Wall	?	2, -4	4-4-3			285.2	43.7	21.7	142.6	-0.26	-2.49
?	Tile Floor	?	2, -4	4-4-3	11	0.010	125.5	68.4	2.3	114.1	-0.26	-2.49
?	"	?	2, -6	4-4-3	13	0.020	178.7	159.7	-4.5	113.3	-0.26	-2.49
?	"	?	2, -8	4-4-3	13	0.010	247.9	190.1	7.9	111.0	-0.26	3.59
?	"	?	2, -10	4-4-3	15	0.010	168.0	136.9	5.6	123.9	-0.26	-2.49
?	"	?	4, -6	4-4-3	12	0.020	121.7	98.8	1.1	104.2	-0.26	3.59
?	Rest Room Shower	?	Center	4-4-3	25	0.020	438.0	395.4		453.2		
?	Shower Wall	?	Corner	4-4-3	30	0.020						
?	West Wall	?	2, 0	4-4-3			500.5	55.3	8.7	177.5	-0.26	3.41
?	"	?	4, 0	4-4-3			259.0	26.2	0.0	163.0	-0.26	-2.49
?	"	?	6, 0	4-4-3			209.5	-2.9	13.0	197.9	-0.26	9.31
?	North Wall	?	2, 0	4-4-3			40.7	-61.1	4.3	8.7	-0.26	3.59
?	"	?	4, 0	4-4-3			110.6	-90.2	8.7	32.0	-0.26	-2.49
?	"	?	6, 0	4-4-3			157.1	-61.1	4.3	14.6	-0.26	9.66
?	East Wall (2)	?	2, 0	4-4-3			90.2	-90.2	0.0	66.9	-0.26	3.59
?	"	?	4, 0	4-4-3			-17.5	-90.2	0.0	-14.6	-0.26	-2.49
?	South Wall (1)	?	2, 0	4-4-3			180.4	-61.1	0.0	61.1	-0.26	-2.49
?	Ceiling	?	2, -10	4-4-3			-23.3	-148.4	0.0	-72.8	-0.26	3.41
?	"	?	2, -8	4-4-3			157.1	-32.0	8.7	-209.5	-0.26	3.59
?	"	?	2, -6	4-4-3			401.6	142.6	0.0	-84.4	-0.26	-2.49

TABLE 6

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 5)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE								
?	Floor Tile	? N/A	? 2, -2	4-5-1	10	0.010	106.3	30.4	-6.1	0.0	-0.26	9.31
?	"	"	? 2, -4	4-5-1	10	0.010	-16.0	-57.6	-1.2	-69.6	-0.26	7.54
?	"	"	? 2, -8	4-5-1	10	0.015	110.3	38.4	-2.4	51.2	-0.26	3.59
?	"	"	? 2, -12	4-5-1	10	0.010	-15.2	-117.5	-4.9	-59.2	-0.26	-2.49
?	"	"	? 4, -12	4-5-1	10	0.010	-52.8	-73.6	-1.2	-55.2	-0.26	-2.49
?	"	"	? 6, -12	4-5-1	9	0.015	-93.5	-117.5	-2.4	-60.8	-0.26	3.41
?	"	"	? 10, -12	4-5-1	10	0.010	45.6	-17.6	-4.9	-2.4	-0.26	-2.49
?	"	"	? 10, -14	4-5-1	11	0.010	31.2	2.4	-1.2	8.8	-0.26	3.40
?	"	"	? 12, -14	4-5-1	9	0.010	60.8	22.4	1.2	50.4	-0.26	9.66
?	"	"	? 12, -10	4-5-1	10	0.010	89.5	62.4	-1.2	24.0	-0.26	3.41
?	"	"	? 12, -6	4-5-1	11	0.020	166.3	42.4	1.2	108.7	-0.26	-2.49
?	"	"	? 12, -4	4-5-1	11	0.015	59.2	22.4	-3.7	56.0	-0.26	9.66
?	"	"	? 14, -4	4-5-1	11	0.010	14.4	-37.6	-1.2	-3.2	-0.26	3.59
?	"	"	? 14, -2	4-5-1	9	0.010	29.6	-25.6	0.0	22.4	-0.26	-2.49
?	"	"	? 12, -2	4-5-1	11	0.010	91.1	38.4	0.0	36.8	-0.26	-2.49
?	Floor Tile	? N/A	? 10, -2	4-5-1	13	0.020	88.7	22.4	-3.7	36.8	-0.26	-2.49
?	"	"	? 8, -2	4-5-1	11	0.010	51.2	-17.6	0.0	2.4	-0.26	-2.49
?	"	"	? 6, -2	4-5-1	10	0.010	42.4	-17.6	3.7	23.2	-0.26	-2.49
?	North Wall	"	? 12, -5	4-5-1			131.0	23.3	13.0	34.9	-0.26	3.59
?	"	"	? 16, -5	4-5-1			285.2	52.4	0.0	195.0	-0.26	-2.49
?	East wall	"	? 8, -5	4-5-1			311.4	-34.9	8.7	101.9	-0.26	-2.49
?	"	"	? 10, -5	4-5-1			305.6	-5.8	8.7	66.9	-0.26	-2.49
?	South Wall	"	? 2, -5	4-5-1			325.9	96.0	4.3	75.7	-0.26	3.59
?	"	"	? 4, -5	4-5-1			276.5	168.8	13.0	148.4	-0.26	9.66
?	Crane Rail	? N/A	? 14, -2	4-5-1			424.9	148.4	8.7	29.1	-0.26	-2.49
?	"	"	? 12, -2	4-5-1			49.5	-119.3	17.3	-72.8	-0.26	-2.49
?	"	"	? 10, -2	4-5-1			37.8	-177.5	4.3	-314.3	-0.26	-2.49
?	Light Fixture	"	? 8, -2	4-5-1			119.3	-75.7	4.3	-98.9	-0.26	9.31
?	Beam	"	? 6, -2	4-5-1			680.9	84.4	0.0	-11.6	-0.26	-2.49

TABLE 6

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 5)

?	?	?	X, Y	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	?	?	REF POINT	CODE	@1 METER (microR/hr)	ON CONTACT (mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	"	"	4, -2	4-5-1			81.5	-17.5	0.0	49.5	-0.26	-2.49
?	Light Fixture	"	2, -2	4-5-1			20.4	-119.3	0.0	-72.8	-0.26	-2.49
?	Ventilation	"	@ 15.6 m.	4-5-1			323.0	200.8	8.7	133.9	-0.26	-2.49
?	Crane Rail	"	14, -4	4-5-1			104.8	11.6	0.0	40.7	-0.26	-2.49
?	Light Fixture	"	12, -4	4-5-1			398.7	128.0	4.3	46.6	-0.26	3.59
?	"	"	10, -4	4-5-1			183.3	40.7	8.7	-84.4	-0.26	-2.49
?	Beam	"	8, -4	4-5-1			203.7	-32.0	4.3	-101.9	-0.26	3.59
?	"	"	6, -4	4-5-1			215.3	11.6	0.0	-119.3	-0.26	-2.49
?	Light Fixture	"	4, -4	4-5-1			133.9	40.7	4.3	69.8	-0.26	-2.49
?	"	"	2, -4	4-5-1			445.2	84.4	0.0	61.1	-0.26	3.59
?	Ventilation	@ 13.6 m.	N/A	4-5-1			314.3	84.4	4.3	98.9	-0.26	-2.49
?	Light Fixture	N/A	12, -6	4-5-1			331.7	128.0	0.0	163.0	7.51	-2.49
?	"	"	12, -8	4-5-1			293.9	55.3	4.3	154.2	-0.26	3.59
?	Beam	"	12, -10	4-5-1			325.9	84.4	4.3	34.9	-0.26	-2.49
?	Light Fixture	"	12, -12	4-5-1			193.3	98.9	0.0	52.4	-0.26	-2.49
?	"	"	12, -14	4-5-1			587.8	273.5	0.0	183.3	-0.26	-2.49
?	"	"	10, -6	4-5-1			614.0	317.2	0.0	317.2	-0.26	-2.49
?	"	"	10, -8	4-5-1			334.7	171.7	0.0	299.7	-0.26	-2.49
?	Beam	"	10, -10	4-5-1			55.3	-46.6	4.3	-58.2	-0.26	9.66
?	Light Fixture	"	10, -12	4-5-1			148.4	98.9	4.3	192.1	-0.26	-2.49
?	"	"	10, -14	4-5-1			433.6	331.7	4.3	308.5	-0.26	9.31
?	Ventilation	"	@ 5.6 m.	4-5-1			29.1	-46.6	13.0	81.5	-0.26	3.41
?	Light Fixture	"	2, -12	4-5-1			454.0	302.6	13.0	349.2	-0.26	3.59
?	"	"	4, -12	4-5-1			398.7	215.3	8.7	229.9	-0.26	-2.49
?	"	"	6, -12	4-5-1			497.6	325.9	4.3	349.2	-0.26	-2.49
?	East Wall	N/A	2, -5	4-5-2			451.1	314.3	4.3	293.9	-0.26	3.41
?	"	"	4, -5	4-5-2			215.3	168.8	8.7	346.3	-0.26	-2.49
?	South Wall	"	2, -5	4-5-2			407.4	23.3	21.7	151.3	-0.26	-2.49
?	East Wall	N/A	2, -1.2	4-5-3			168.8	-49.5	4.3	-46.6	-0.26	3.41

TABLE 6

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, FIRST FLOOR (SECTION 4, UNIT 5)

?	?	?	X, Y	LOCATION	?	GRID	REF	POINT	CODE	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
										SURVEY	SURVEY	MAXIMUM	AVERAGE	ALPHA	BETA	ALPHA	BETA
?	?	?	?	?	?	?	?	?	?	@1 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)
?	South Wall	?	"	?	2, -1.2	4-5-3						323.0	23.3	13.0	-2.9	-0.26	-2.49
?	"	?	"	?	4, -1.2	4-5-3						442.3	96.0	4.3	154.2	-0.26	9.66
?	West Wall	?	"	?	2, -1.2	4-5-3						221.2	-34.9	13.0	61.1	-0.26	-2.49
?	"	?	"	?	4, -1.2	4-5-3						357.9	23.3	8.7	66.9	-0.26	3.41
?	North Wall	?	"	?	2, -1.2	4-5-3						136.8	-34.9	21.7	75.7	-0.26	-2.49
?	"	?	"	?	4, -1.2	4-5-3						133.9	23.3	13.0	125.1	-0.26	-2.49
?	North Wall	?	2, -.4	?	N/A	4-5-6						389.9	133.9	8.7	55.3	-0.26	-2.49
?	"	?	4, -.4	?	"	4-5-6						209.5	17.5	13.0	78.6	-0.26	-2.49
?	West Wall	?	2, -.4	?	"	4-5-6						-8.7	-98.9	8.7	183.3	-0.26	9.66
?	South Wall	?	2, -.4	?	"	4-5-6						389.9	133.9	-4.3	131.0	7.51	-2.49
?	"	?	4, -.4	?	"	4-5-6						395.8	215.3	8.7	131.0	-0.26	-2.49
?	North Wall (1)	?	N/A	?	2, -.4	4-5-7						451.1	250.3	4.3	261.9	2.38	11.55
?	" (2)	?	"	?	2, -.4	4-5-7						439.4	192.1	-8.7	154.2	-0.26	-2.49
?	East Wall (1)	?	"	?	2, -.4	4-5-7						288.1	75.7	8.7	276.5	-0.26	-2.49
?	" (2)	?	"	?	6, -1.3	4-5-7						250.3	104.8	13.0	171.7	-0.26	-2.49
?	"	?	"	?	8, -1.3	4-5-7						107.4	133.9	-4.3	128.0	-0.26	-2.49
?	"	?	"	?	10, -1.3	4-5-7						328.8	75.7	-4.3	183.3	-0.26	-2.49
?	West Wall (2)	?	"	?	2, -1.3	4-5-7						320.1	17.5	4.3	285.2	-0.26	3.53
?	"	?	"	?	4, -1.3	4-5-7						250.3	75.7	8.7	180.4	-0.26	3.59
?	"	?	"	?	6, -1.3	4-5-7						46.6	-128.0	0.0	-116.4	-0.26	3.59
?	"	?	"	?	8, -1.3	4-5-7						430.7	192.1	-4.3	337.6	-0.26	3.59
?	East Wall (3)	?	"	?	2, -.4	4-5-7						296.8	221.2	0.0	419.0	-0.26	9.66
?	West Wall (1)	?	"	?	2, -.4	4-5-7						398.7	308.5	0.0	331.7	-0.26	3.41
?	"	?	"	?	4, -.4	4-5-7						439.4	250.3	-8.7	279.4	-0.26	-2.49
?	Floor	?	"	?	?, -2	4-5-7				11	0.010	208.3	182.5	-6.8	146.0	-0.26	-2.49
?	"	?	"	?	2, -4	4-5-7				9	0.020	197.7	152.1	15.8	144.5	-0.26	3.59
?	Tile Floor	?	N/A	?	4, -4	4-5-7				10	0.020	149.0	83.6	14.7	141.4	-0.26	9.66
?	"	?	"	?	8, -4	4-5-7				10	0.010	92.0	49.4	1.1	40.3	-0.26	9.66
?	"	?	"	?	8, -8	4-5-7				9	0.020	161.2	129.3	-4.5	114.8	-0.26	3.41

TABLE 7

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, VENTILATION SYSTEMS (SECTION 4)

?	?	?	X, Y	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	?	?	REF POINT	CODE	@1 METER (microR/hr)	ON CONTACT (nR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	South Wall (R)	?	N/A	?	N/A	4-2-1	20.4	-66.9	13.0	17.5	-0.26	9.31
?	West Wall #6	?	"	?	"	4-2-1	90.2	20.4	-8.7	32.0	-0.26	-2.49
?	" #5	?	"	?	"	4-2-1	183.3	49.5	-4.3	49.5	-0.26	-2.49
?	Vent 3 (W)	?	N/A	?	N/A	4-3-1	75.7	-72.8	0.0	26.2	-0.26	-2.49
?	" 1 (W)	?	"	?	"	4-3-1	451.1	276.5	4.3	69.8	7.51	-2.49
?	" 2 (S)	?	"	?	"	4-3-1	195.0	-14.6	-4.3	145.5	-0.26	-2.49
?	Louver #2	?	N/A	?	@ 5.6 m.	4-5-1	232.8	104.8	4.3	-66.9	-0.26	3.59
?	Louver #5	?	"	?	@ 13.6 m.	4-5-1	212.4	104.8	4.3	-34.9	-0.26	-2.49
?	Louver #6	?	"	?	@ 15.6 m.	4-5-1	628.6	177.5	8.7	55.3	-0.26	3.41

STATISTICAL
ANALYSIS

NUMBER OF SAMPLES	9	9	9	9	9
MINIMUM	20.4	-72.8	-8.7	-66.9	-0.26
MAXIMUM	628.6	276.5	13.0	145.5	7.51
AVERAGE	232.2	64.3	1.9	32.7	0.60
STANDARD DEVIATION	182.2	108.3	6.5	57.4	2.44
LIMIT	15,000	5,000	5,000	5,000	1,000
FACTOR FOR COMPARISON OF SURVEY DATA @95% CONFIDENCE:	1.860	1.860	1.860	1.860	1.860
DATA TEST PARAMETER	345.10	131.46	5.95	68.25	2.11
"NUMBER OF SAMPLES" FACTOR	81.06	45.59	770.05	86.52	409.28
DOES DATA SATISFY LIMIT CRITERIA?	YES	YES	YES	YES	YES
WERE AN ADEQUATE NUMBER OF SAMPLES TAKEN?	YES	YES	YES	YES	YES

TABLE 8

SUMMARY OF RADIOLOGICAL SCAN DATA

LOCATION CODE	SURFACE DESCRIPTION	EST % SCANNED	BETA SCAN SURVEY		ACCEPTANCE CRITERIA		UNITS	% OF ACCEPTANCE CRITERIA	
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE		MAXIMUM	AVERAGE
4-1-1	TILE	30%	290	153	15,000	5,000	DPM/100 cm ²	1.93%	3.05%
4-1-2	TILE	80%	106	-31	15,000	5,000	DPM/100 cm ²	0.71%	-0.62%
4-2-1	TILE	50%	154	23	15,000	5,000	DPM/100 cm ²	1.03%	0.46%
4-3-1	TILE	50%	84	-15	15,000	5,000	DPM/100 cm ²	0.56%	-0.30%
4-3-1	BENEATH ATMOSPHERE OVEN	80%	535	274	15,000	5,000	DPM/100 cm ²	3.57%	5.47%
4-3-1	BENEATH ATMOSPHERE OVEN	80%	567	303	15,000	5,000	DPM/100 cm ²	3.78%	6.05%
4-3-1	BENEATH ATMOSPHERE OVEN	80%	614	404	15,000	5,000	DPM/100 cm ²	4.09%	8.09%
4-4-1	TILE	60%	177	-28	15,000	5,000	DPM/100 cm ²	1.18%	-0.56%
4-4-2	TILE	75%	213	76	15,000	5,000	DPM/100 cm ²	1.42%	1.52%
4-4-3	TILE	50%	84	49	15,000	5,000	DPM/100 cm ²	0.56%	0.99%
4-4-4	TILE	70%	-61	-99	15,000	5,000	DPM/100 cm ²	-0.41%	-1.98%
4-5-1	TILE	60%	52	16	15,000	5,000	DPM/100 cm ²	0.35%	0.32%
4-5-7	TILE	90%	119	24	15,000	5,000	DPM/100 cm ²	0.79%	0.49%

TABLE 9
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 4 - BUILDING 6, 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						
04 -1	20	7.000	10.000	8.450	1.070	MicroR/hour
04 -2	30	8.000	9.000	8.030	0.180	MicroR/hour
04 -3	28	9.000	18.000	11.390	2.600	MicroR/hour
04 -4	22	8.000	30.000	12.770	5.200	MicroR/hour
04 -5	23	9.000	13.000	10.220	0.930	MicroR/hour
** Subtotal **	123					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
04 -1	20	0.010	0.020	0.011	0.003	MilliRem/hour
04 -2	30	0.010	0.010	0.010	0.000	MilliRem/hour
04 -3	28	0.010	0.020	0.013	0.005	MilliRem/hour
04 -4	22	0.010	0.020	0.013	0.005	MilliRem/hour
04 -5	23	0.010	0.020	0.013	0.004	MilliRem/hour
** Subtotal **	123					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
04 -1	71	-85.600	910.800	281.300	235.900	DPM/100 cm ²
04 -2	64	-98.900	675.100	184.800	131.300	DPM/100 cm ²
04 -3	63	-83.600	704.200	198.800	199.100	DPM/100 cm ²
04 -4	68	-141.400	695.500	224.500	190.500	DPM/100 cm ²
04 -5	91	-93.500	680.900	232.600	164.600	DPM/100 cm ²
04 -6	9	20.400	628.600	232.200	182.200	DPM/100 cm ²
** Subtotal **	366					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
04 -1	71	-151.100	622.700	114.800	173.700	DPM/100 cm ²
04 -2	64	-168.800	413.200	62.800	109.400	DPM/100 cm ²
04 -3	63	-124.700	454.000	60.300	124.400	DPM/100 cm ²
04 -4	68	-177.500	442.300	80.500	150.600	DPM/100 cm ²
04 -5	91	-177.500	331.700	70.400	115.000	DPM/100 cm ²
04 -6	9	-72.800	276.500	64.300	108.300	DPM/100 cm ²
** Subtotal **	366					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
04 -1	71	-8.700	99.600	3.500	16.100	DPM/100 cm ²
04 -2	64	-11.300	17.300	0.300	6.000	DPM/100 cm ²
04 -3	63	-11.300	21.700	5.000	7.500	DPM/100 cm ²
04 -4	67	-13.500	21.700	2.300	6.600	DPM/100 cm ²
04 -5	91	-8.700	21.700	4.000	6.700	DPM/100 cm ²
04 -6	9	-8.700	13.000	1.900	6.500	DPM/100 cm ²
** Subtotal **						

TABLE 9
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 4 - BUILDING 6, FIRST FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
365						
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
04 -1	71	-123.100	611.100	128.000	182.100	DPM/100 cm ²
04 -2	64	-136.800	518.000	76.100	117.000	DPM/100 cm ²
04 -3	63	-118.600	468.500	62.200	125.300	DPM/100 cm ²
04 -4	68	-209.500	453.200	90.700	147.000	DPM/100 cm ²
04 -5	91	-314.300	419.000	89.600	136.900	DPM/100 cm ²
04 -6	9	-66.900	145.500	32.700	57.400	DPM/100 cm ²
** Subtotal **						
366						
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
04 -1	71	-0.270	7.740	-0.040	1.320	DPM/100 cm ²
04 -2	64	-0.260	7.740	-0.100	1.040	DPM/100 cm ²
04 -3	63	-0.260	7.740	-0.140	1.000	DPM/100 cm ²
04 -4	67	-0.260	-0.160	-0.260	0.010	DPM/100 cm ²
04 -5	91	-0.260	7.510	0.020	1.410	DPM/100 cm ²
04 -6	9	-0.260	7.510	0.600	2.440	DPM/100 cm ²
** Subtotal **						
365						
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
04 -1	71	-2.490	9.660	0.320	4.040	DPM/100 cm ²
04 -2	64	-2.490	9.660	-0.460	3.450	DPM/100 cm ²
04 -3	63	-2.490	9.660	-0.370	3.600	DPM/100 cm ²
04 -4	67	-2.490	9.660	0.640	4.190	DPM/100 cm ²
04 -5	91	-2.490	11.550	0.950	4.490	DPM/100 cm ²
04 -6	9	-2.490	9.310	0.150	4.060	DPM/100 cm ²
** Subtotal **						
365						
*** Total ***						
2439						

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	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	246
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/4/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
South Wall	N/A	2, -5	N/A	N/A	357	300	1	365	-0.264	9.66	Block
"	"	4, -5	"	"	460	350	2	329	-0.264	9.66	"
"	"	6, -5	"	"	389	325	1	325	-0.264	-2.49	"
"	"	8, -5	"	"	391	300	0	280	-0.264	3.59	"
"	"	10, -5	"	"	480	300	0	280	-0.264	-2.49	"
"	"	12, -5	"	"	336	260	2	283	-0.264	-2.49	"
"	"	14, -5	"	"	382	300	1	305	-0.264	-2.49	"
"	"	16, -5	"	"	391	310	2	335	-0.264	9.66	"
West Wall	"	4, -5	"	"	359	270	2	291	-0.264	-2.49	"
East Wall	"	5, -5	"	"	426	350	1	415	-0.264	-2.49	Brick

FORM SERIAL #: 4-036 (Survey Section - Sequential survey #)	LOCATION # 4-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0308	SURVEYOR SIGNATURE: TS/LS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040101.XLD
 Batch Ended: 3/4/93 15:24
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: 00210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

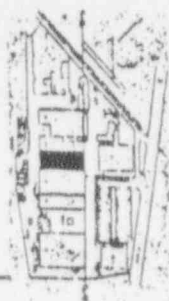
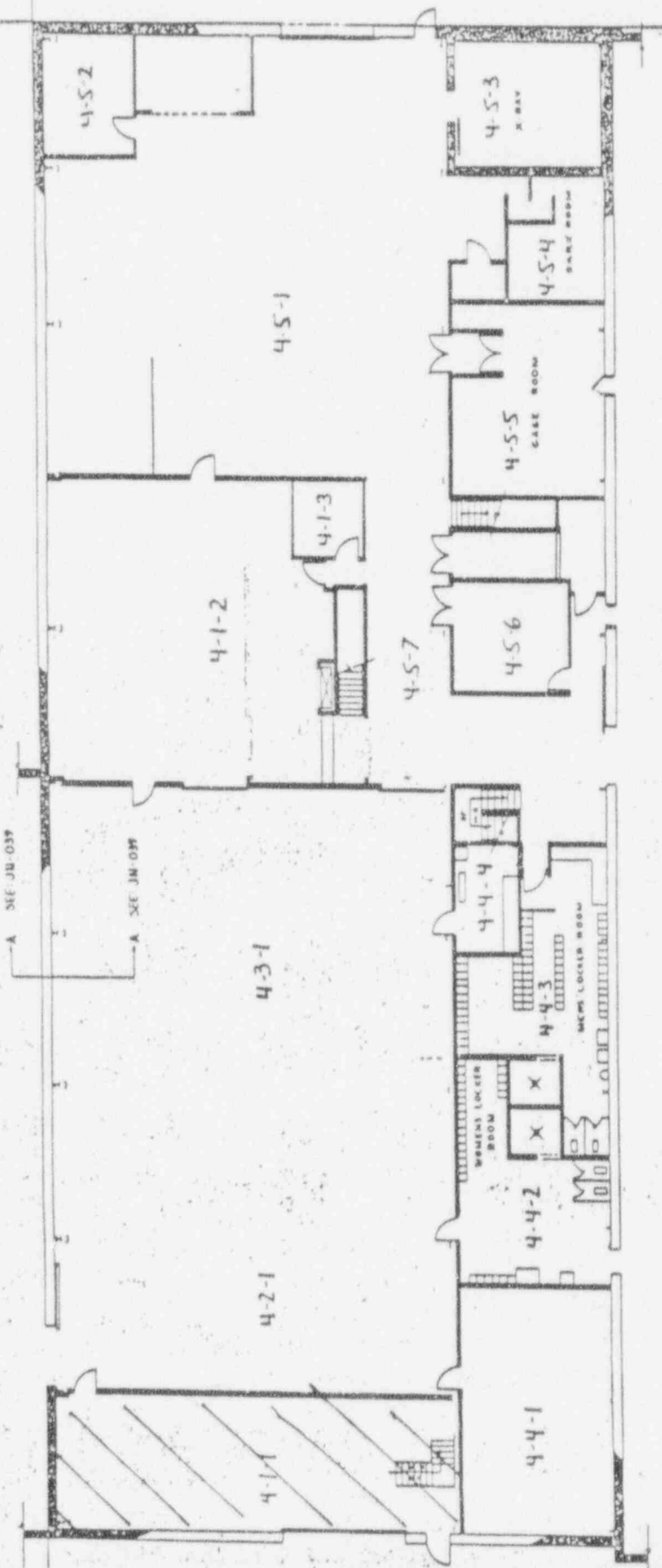
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-1-1 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				
42	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	3/4/93 15:20
43	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	3/4/93 15:20
44	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:21
45	-0.264	1.63	<MDA	28.84	3.58	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 15:21
46	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:22
47	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:22
48	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:22
49	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/4/93 15:23
50	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:24
51	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:24

SEE JM-012
 N
 MATCH
 LINE
 S

BUILDING
 BUT DANE
 SEE JM-030



REV	DATE	DESCRIPTION	BY	CHECKED

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

PARTS LIST	

SCHEDULES SPECIFIED	

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

LEGEND

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

SCALE FEET

0 5 10 15 20 25

Wright-House Advanced Energy Systems Division
 BUILDING NO. 6
 WAESD LARGE, PA
 JN-011 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	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	246
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/4/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -1.7	N/A	N/A	378	300	4	400	-0.264	-2.49	Brick
Door Roll	"	4, -1.7	"	"	400	250	3	222	-0.264	-2.49	Metal Roll Up
"	"	6, -1.7	"	"	410	350	3	228	-0.264	-2.49	"
North Wall	"	10, -1.7	"	"	422	370	3	354	-0.264	-2.49	Brick
"	"	12, -1.7	"	"	394	350	2	386	-0.264	-2.49	"
"	"	14, -1.7	"	"	516	425	5	394	-0.264	3.59	"
"	"	16, -1.7	"	"	456	400	25	456	-0.264	3.41	"
South Wall	"	2, -2	"	"	422	375	0	353	-0.264	-2.49	"
"	"	4, -2	"	"	391	360	0	380	-0.264	3.41	"
"	"	6, -1.7	"	"	357	320	4	316	-0.264	9.66	"
"	"	8, -1.7	"	"	480	390	0	325	-0.264	-2.49	"
"	"	10, -1.7	"	"	355	340	2	330	-0.264	9.66	"
Furnace Plenum Top	"	N/A	"	"	327	250	0	238	-0.264	-2.49	"
Top of Vent Out Pot	"	"	"	"	383	250	1	330	-0.264	9.66	"
"	"	"	"	"	330	275	1	293	-0.264	-2.49	"

FORM SERIAL #: 4-035 (Survey Section - Sequential survey #)	LOCATION # 4-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0306	SURVEYOR SIGNATURE: TS/LS 
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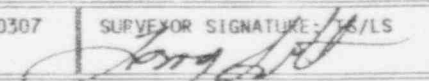
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	246
	ESP2:					ESP2:			
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/4/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
Top of Vent	N/A	N/A	N/A	N/A	357	250	1	273	-0.264	-2.49	Steel
"	"	"	"	"	336	275	3	258	-0.264	3.59	"
"	"	"	"	"	381	275	4	263	-0.264	3.59	"
"	"	"	"	"	326	220	2	215	-0.264	-2.49	"
"	"	"	"	"	295	225	1	226	-0.264	-2.49	"
"	"	"	"	"	301	250	3	239	-0.264	3.59	"
"	"	"	"	"	306	250	2	249	-0.264	-2.49	"
"	"	"	"	"	287	225	1	288	-0.264	3.59	"
"	"	"	"	"	279	260	0	272	-0.264	-2.49	"
South Wall	"	12, -1.7	"	"	323	250	3	361	-0.264	-2.49	Block
"	"	14, -1.7	"	"	356	310	1	324	-0.264	-2.49	"
"	"	16, -1.7	"	"	340	300	0	333	-0.265	-2.49	"

FORM SERIAL #: 4-035 (Survey Section - Sequential survey #)	LOCATION # 4-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0307	SUPERVISOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\041010\UP_XLD
 Batch Ended: 3/4/93 15:12
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137-ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

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

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOI
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
1	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 14:58
2	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 14:59
3	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:00
4	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:00
5	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:01
6	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 15:01
7	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/4/93 15:02
8	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:02
9	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/4/93 15:03
10	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/4/93 15:03
11	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:04
12	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/4/93 15:04
13	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:05
14	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/4/93 15:05
15	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:06
16	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:06
17	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 15:07
18	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 15:07
19	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:08
20	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:08
21	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 15:09
22	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:09
23	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 15:10
24	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:10
25	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:11

LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\040101UP.XLD
 Batch Ended: 3/4/93 15:12
 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: 14.35
 Application Revision: 2
 Application Version: Standard

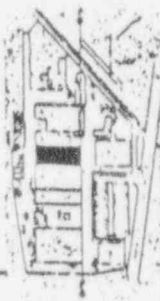
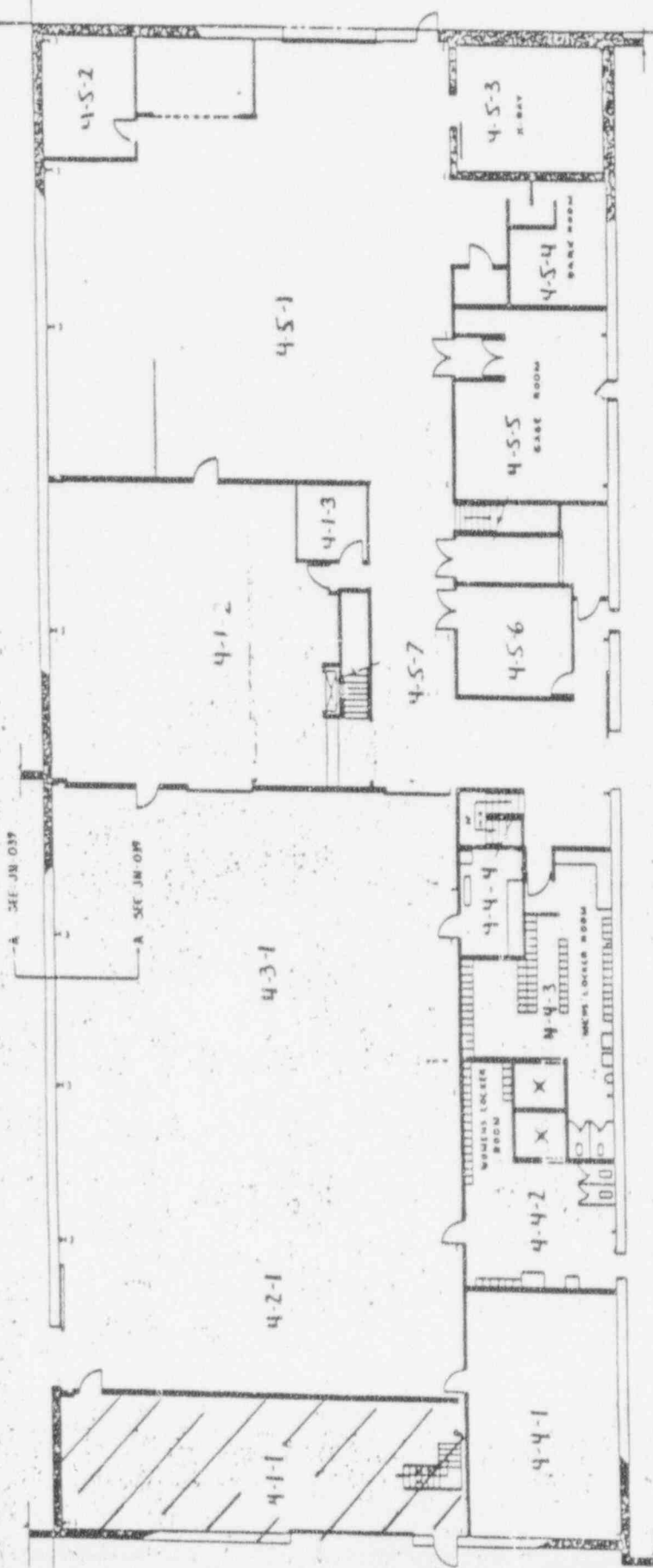
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB-4-1-1 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	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/4/93 15:11
27	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/4/93 15:12

SEE JN-012
N
S

RIGHT HAND
LEFT HAND
SEE JN-030



LEGEND
 CONCRETE
 BRICK
 CONCRETE BLOCK
 CONCRETE BLOCK EXT
 CONCRETE BLOCK INT
 GYPSUM BOARD & PAPERING
 SCALE: FEET
 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

REV	DATE	DESCRIPTION	BY	CHKD	APP'D	NOTED	REVISED	NO. SHEETS	TOTAL SHEETS	PROJECT NO.	DESCRIPTION	DATE

NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL

NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION
FIRST FLOOR
BUILDING N° 6
WAESD, LARGO, PA

DATE: 1/11/78
 DRAWING NO: D 14683
 SHEET NO: JN-011
 TOTAL SHEETS: 1

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			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1239

SURVEY DATE: 3/3/93
COUNT DATE: 3/3/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
	*	TENN: 13295	49.9%	2.0
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -2	9	.02	1278	1200	6	1251	-0.264	3.41	
"	"	4, -2	8	.01	1206	1180	12	1170	-0.264	3.59	
"	"	6, -2	10	.01	1267	1225	5	1217	-0.264	-2.49	
"	"	8, -2	10	.01	1295	1250	4	1260	-0.264	3.59	
"	"	10, -2	9	.01	1193	1175	9	1196	-0.264	9.66	
"	"	10, -4	10	.01	1308	1200	4	1211	-0.264	3.41	
"	"	8, -4	9	.01	1309	1200	7	1167	-0.264	-2.49	
"	"	6, -4	7	.01	1163	1125	4	1105	7.741	-2.49	
"	"	4, -4	8	.01	1188	1125	5	1139	-0.264	-2.49	
"	"	2, -4	9	.01	1361	1275	5	1204	-0.264	-2.49	
"	"	2, -6	8	.01	1222	1150	6	1220	-0.264	-2.49	
"	"	4, -6	7	.01	1132	1050	5	1096	-0.264	3.59	
"	"	6, -6	7	.01	1166	1150	6	1125	-0.264	-2.49	
"	"	8, -6	8	.01	1264	1200	9	1174	-0.264	-2.49	
"	"	10, -6	10	.01	1184	1150	6	1085	-0.264	3.41	

FORM SERIAL #: 4-031 (Survey Section - Sequential survey #)	LOCATION # 4-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0300	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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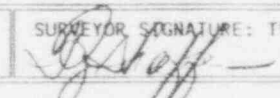
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	ESP2:					ESP2:			
	ESP2:					E520: 5242	23.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245			
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1239

SURVEY DATE: 3/3/93
COUNT DATE: 3/3/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	10, -8	9	.01	1256	1200	9	1206	-0.264	-2.49	
"	"	8, -8	7	.01	1224	1200	4	1164	-0.264	-2.49	
"	"	6, -8	7	.02	1236	1200	8	1173	-0.264	-2.49	
"	"	4, -8	8	.01	1218	1175	4	1185	-0.264	3.59	
"	"	2, -8	9	.01	1287	1225	12	1271	-0.264	3.41	

FORM SERIAL #: 4-031 (Survey Section - Sequential survey #)	LOCATION # 4-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0301	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency for file: po21rad-

Alpha Efficiency: 37.89%

Alpha to Beta Crossstalk: 4.92%

Alpha Background (CFR): 0.1

Beta efficiency for file: cs137-54-

Beta Efficiency: 49.88%

Beta into Alpha Crossstalk: 0.36%

Beta Background (CFR): 1.24

Alpha activity action level (LPM): 10.00

Beta activity action level (LPM): 200.00

Certainty level for MDA and flags: 95.00%

High Voltage Setting: 14.6

Application Revision: 2

Application Version: Standard

Date: 3/3/93

Counting Unit id: 1

Data file name: CALTEX3100H1040102.XID

Batch Ended: 3/3/93 14:52

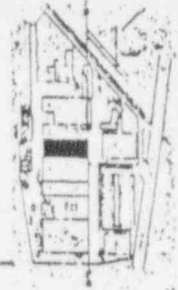
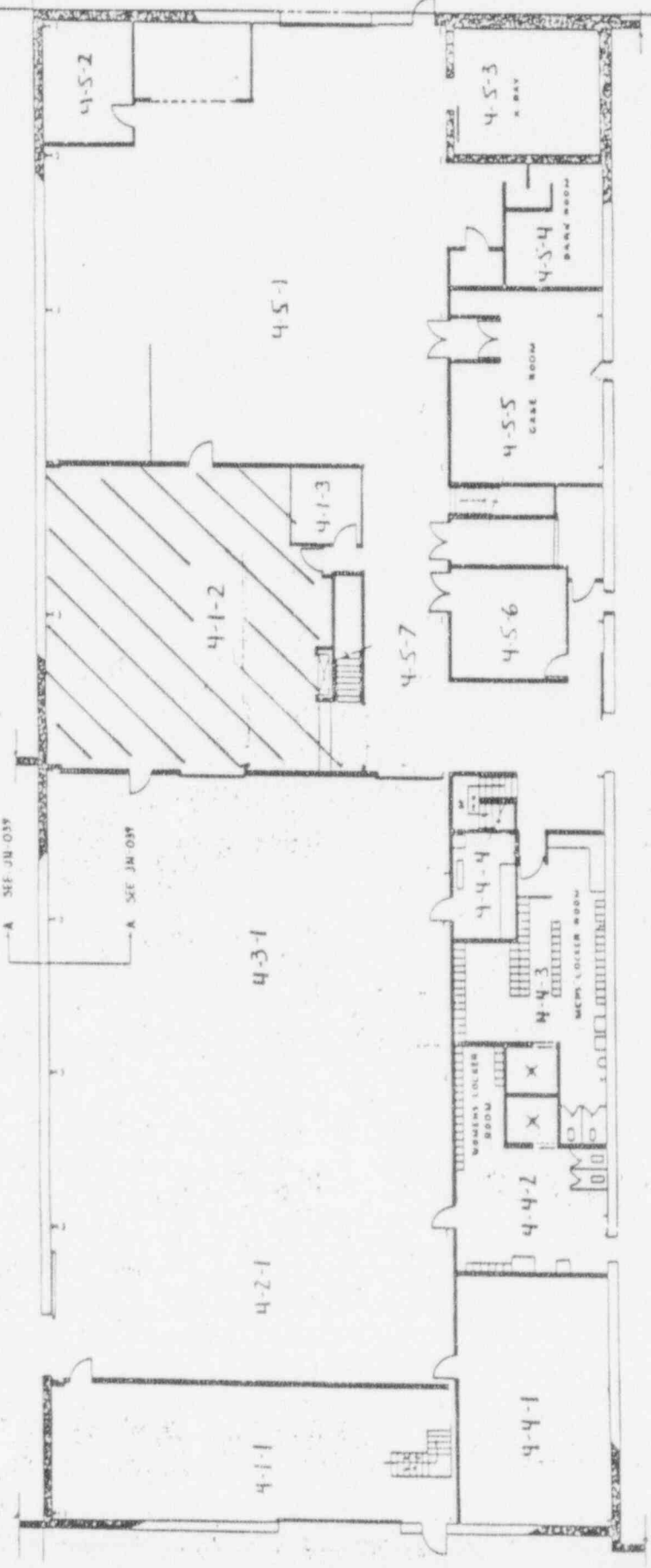
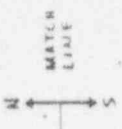
Crossstalk Correction: Not Applied

Batch ID: LJS FLORES & WALLS

Count	Alpha Activity				Beta Activity				Count time (min)	Alpha CFR	Beta CFR	Completion TCD
	DPM	n	flags	MDA	DPM	n	flags	MDA				
1	0.264	1.63	<MDA	26.84	3.41	7.96	<MDA	33.88	0.34	0.100	1.70	3/3/93 14:43
2	0.264	1.63	<MDA	26.84	3.59	7.74	<MDA	34.63	0.33	0.100	1.70	3/3/93 14:43
3	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/3/93 14:44
4	0.264	1.63	<MDA	26.84	3.59	7.74	<MDA	34.63	0.33	0.100	1.70	3/3/93 14:44
5	0.264	1.63	<MDA	26.84	9.86	9.45	<AL	34.63	0.33	0.100	4.62	3/3/93 14:45
6	0.264	1.63	<MDA	26.84	3.41	7.96	<MDA	33.88	0.34	0.100	1.70	3/3/93 14:45
7	0.264	1.63	<MDA	26.84	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/3/93 14:46
8	7.741	6.17	At AL	26.84	2.49	3.93	<MDA	34.63	0.33	2.000	1.24	3/3/93 14:46
9	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/3/93 14:47
10	0.264	1.63	<MDA	26.84	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/3/93 14:47
11	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/3/93 14:48
12	0.264	1.63	<MDA	26.84	3.59	7.74	<MDA	34.63	0.33	0.100	1.70	3/3/93 14:48
13	0.264	1.63	<MDA	26.84	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/3/93 14:49
14	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/3/93 14:49
15	0.264	1.63	<MDA	26.84	3.41	7.96	<MDA	33.88	0.34	0.100	1.70	3/3/93 14:50
16	0.264	1.63	<MDA	26.84	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/3/93 14:50
17	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/3/93 14:51
18	0.264	1.63	<MDA	26.84	2.49	3.87	<MDA	34.63	0.33	0.100	1.24	3/3/93 14:51
19	0.264	1.63	<MDA	26.84	3.59	7.74	<MDA	34.63	0.33	0.100	1.70	3/3/93 14:52
20	0.264	1.63	<MDA	26.84	3.41	7.96	<MDA	33.88	0.34	0.100	1.70	3/3/93 14:52

BUILDING REF LINE
SEE JN 030

SEE JN 012



<p>LEGEND</p> <p>CONCRETE CORNER BLOCK CORNER BLOCK EXT CORNER BLOCK INT DRYWALL & PANELING</p>		<p>SCALE: FEET</p> <p>0 5 10 15 20 25</p>	
<p>PARTS LIST</p> <p>CONTRACT NO. JN 030 19</p> <p>DATE: 11-1-53</p> <p>REVISIONS - DO NOT SCALE</p> <p>NO. OF SHEETS 19</p> <p>SHEET NO. 19</p> <p>DATE: 11-1-53</p>		<p>CONTRACT NO. JN 030 19</p> <p>DATE: 11-1-53</p> <p>REVISIONS - DO NOT SCALE</p> <p>NO. OF SHEETS 19</p> <p>SHEET NO. 19</p> <p>DATE: 11-1-53</p>	
<p>WESTINGHOUSE Advanced Energy Systems Division Pittsburgh, Pennsylvania</p>			
<p>FIRST FLOOR</p> <p>BUILDING N° 6</p> <p>WAESD LARGE, PA</p>		<p>CONTRACT NO. JN 030 19</p> <p>DATE: 11-1-53</p> <p>REVISIONS - DO NOT SCALE</p> <p>NO. OF SHEETS 19</p> <p>SHEET NO. 19</p> <p>DATE: 11-1-53</p>	
<p>D 14683</p>		<p>JN 011 A</p>	


(*)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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	256
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/4/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	2, -2	N/A	N/A	297	220	2	274	-0.264	-2.49	
"	"	2, -4	"	"	344	280	9	242	-0.264	-2.49	
"	"	2, -6	"	"	293	235	4	250	7.741	3.59	

FORM SERIAL #: 4-037 (Survey Section - Sequential survey #)	LOCATION # 4-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0309	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040102UP.XLD
 Batch Ended: 3/4/93 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: 1435
 Application Revision: 2
 Application Version: Standard

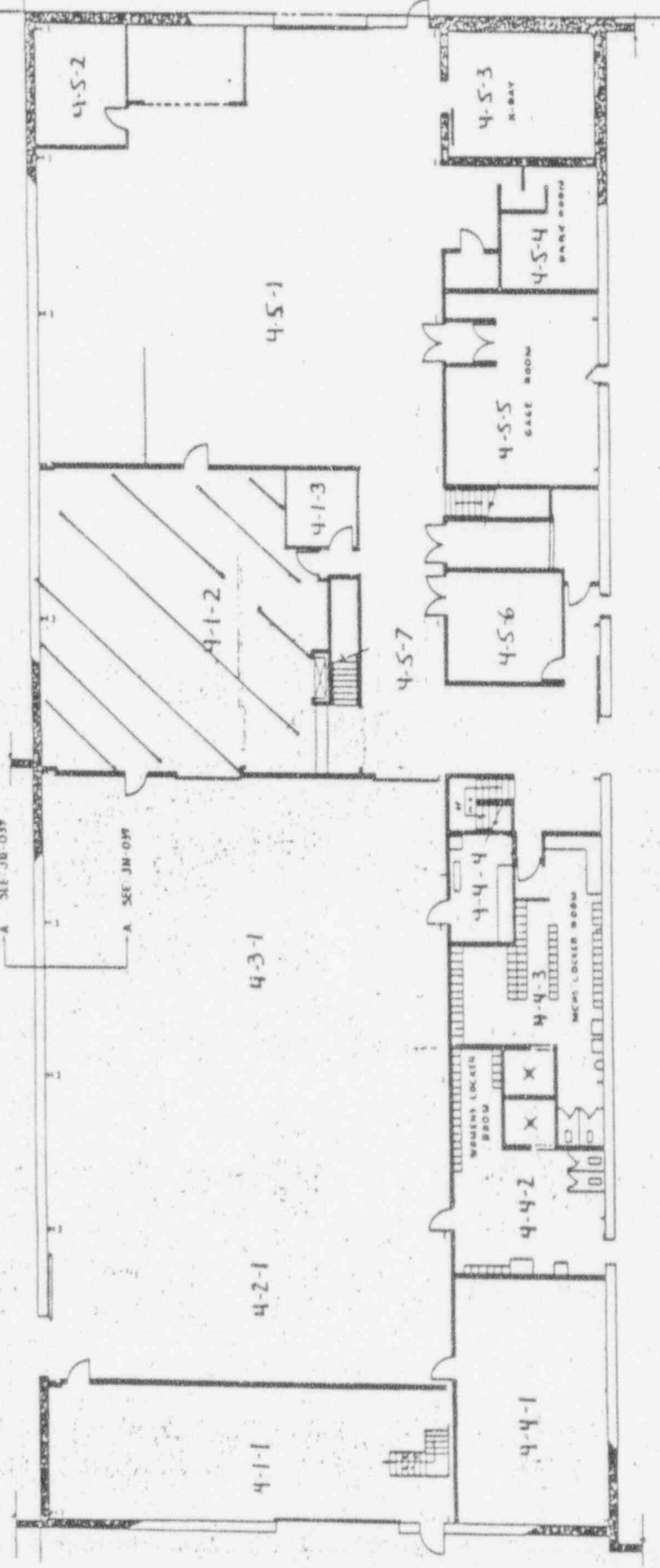
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-1-2 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion T/D
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
28	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:12
29	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:13
30	7.741	8.17	At AL	28.84	3.59	7.24	<MDA	34.63	0.33	2.930	1.79	3/4/93 15:13

BUILDING
REF LINE
SEE JN-030

SEE: JM-012



A SEE JB-03P

A SEE JM-03P

N
S
MATCH
LINE

LEGEND

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

SCALE FEET

DATE	DWG. NO.	PROJECT NO.	REVISION	DATE	BY	CHK'D	APP'D.
PARTS LIST							
NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL		
1	WOOD DOOR						
2	WOOD WINDOW						
3	WOOD CASE						
4	WOOD TRIM						
5	WOOD STAIR						
6	WOOD FLOOR						
7	WOOD CEILING						
8	WOOD ROOF						
9	WOOD SILL						
10	WOOD TRIM						
11	WOOD CASE						
12	WOOD TRIM						
13	WOOD CASE						
14	WOOD TRIM						
15	WOOD CASE						
16	WOOD TRIM						
17	WOOD CASE						
18	WOOD TRIM						
19	WOOD CASE						
20	WOOD TRIM						
21	WOOD CASE						
22	WOOD TRIM						
23	WOOD CASE						
24	WOOD TRIM						
25	WOOD CASE						
26	WOOD TRIM						
27	WOOD CASE						
28	WOOD TRIM						
29	WOOD CASE						
30	WOOD TRIM						

CONTRACT NO. JN-011-A

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION

PROJECT NO. D 14683

FIRST FLOOR

BUILDING N° 6

WAESD LARGEL, PA

DATE: 10/20/74

SCALE: 1/4" = 1'-0"

7 6 5 4 3 2 1

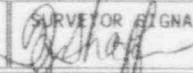
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	256
	ESP2:					ESP2:			
	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	18.8%	5.5			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/4/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
Elevator shaft floor	N/A	N/A	N/A	N/A	427	350	7	400	-0.264	3.59	Left
"	"	"	"	"	444	360	13	404	-0.264	3.41	Middle
"	"	"	"	"	452	390	10	356	-0.264	-2.49	Right
Shaft back wall	"	"	"	"	461	360	3	380	-0.264	-2.49	@ .5 Meters
"	"	"	"	"	406	370	8	381	-0.264	-2.49	@ 1 Meter
"	"	"	"	"	569	470	5	330	-0.264	-2.49	@ 1.5 Meters
Shaft front wall	"	"	"	"	404	360	2	383	-0.264	-2.49	@ 2 Meters
Trolley - Floor	"	"	"	"	368	280	3	273	-0.264	-2.49	
" Wall	"	"	"	"	303	260	4	253	-0.264	-2.49	
Top of Trolley	"	"	"	"	480	360	9	319	-0.264	-2.49	
Back Wall - Top	"	"	"	"	429	340	1	368	-0.264	-2.49	

FORM SERIAL #: 4-038 (Survey Section - Sequential survey #)	LOCATION # 4-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0310	SURVEY SIGNATURE: TS/TB 
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040102EL.XLD
 Batch Ended: 3/4/93 15:19
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - elevator and shaft in 4-1-2

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
31	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 15:14
32	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/4/93 15:15
33	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:15
34	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:16
35	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:16
36	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:17
37	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:17
38	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:18
39	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 15:18
40	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:19
41	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 15:19

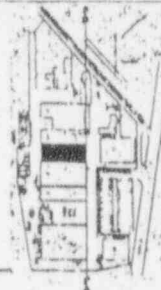
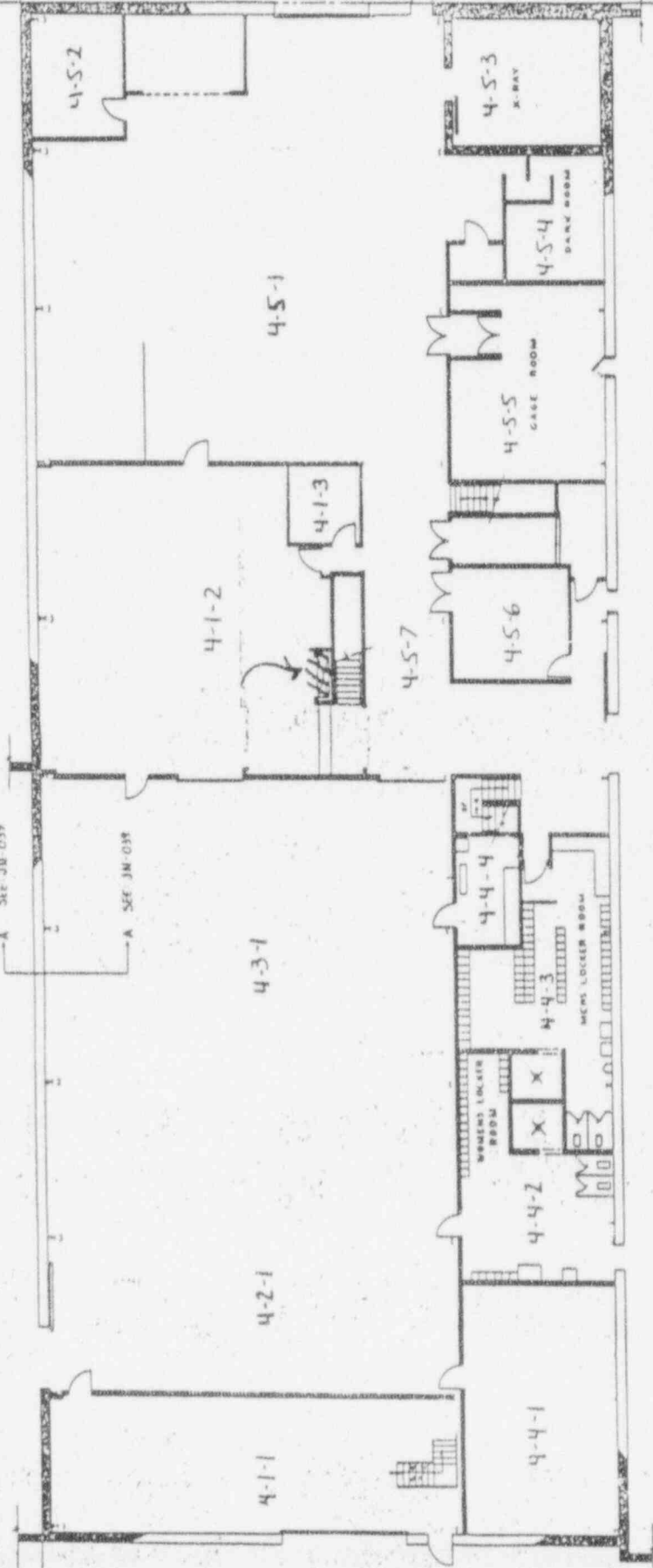
SEE JM-012

N
M
S
MATCH LINE

BUILDING REF. LINE SEE JM-030

A SEE JB-039

A SEE JM-038



LEGEND

BRICK
CONCRETE
CORNIC BLOCK EXT
CORNIC BLOCK INT
DRYWALL & PANELING

SCALE FEET

0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHECKED	DATE	SCALE	PROJECT NO.	SHEET NO.	TOTAL SHEETS						
PARTS LIST															
UNLESS OTHERWISE SPECIFIED, MATERIALS TO BE USED SHALL BE AS SHOWN ON THIS DRAWING.															
TOLERANCES - DO NOT SCALE															
FIN. DEC.	FIN. DEC.	FIN. DEC.	FIN. DEC.	FIN. DEC.	FIN. DEC.	FIN. DEC.	FIN. DEC.	FIN. DEC.	FIN. DEC.						
1	2	3	4	5	6	7	8	9	10						
<table border="1"> <tr> <td>CONTRACT NO.</td> <td>DATE</td> <td>SCALE</td> </tr> <tr> <td>14683</td> <td>5-8-79</td> <td>1/8" = 1'-0"</td> </tr> </table>										CONTRACT NO.	DATE	SCALE	14683	5-8-79	1/8" = 1'-0"
CONTRACT NO.	DATE	SCALE													
14683	5-8-79	1/8" = 1'-0"													
<table border="1"> <tr> <td>PROJECT NO.</td> <td>SHEET NO.</td> <td>TOTAL SHEETS</td> </tr> <tr> <td>JN-011</td> <td>1</td> <td>1</td> </tr> </table>										PROJECT NO.	SHEET NO.	TOTAL SHEETS	JN-011	1	1
PROJECT NO.	SHEET NO.	TOTAL SHEETS													
JN-011	1	1													
<table border="1"> <tr> <td>CONTRACTOR</td> <td>DATE</td> <td>SCALE</td> </tr> <tr> <td>Westhouse Advanced Inter Systems Division</td> <td>5-8-79</td> <td>1/8" = 1'-0"</td> </tr> </table>										CONTRACTOR	DATE	SCALE	Westhouse Advanced Inter Systems Division	5-8-79	1/8" = 1'-0"
CONTRACTOR	DATE	SCALE													
Westhouse Advanced Inter Systems Division	5-8-79	1/8" = 1'-0"													
<table border="1"> <tr> <td>BUILDING NO.</td> <td>PROJECT NO.</td> <td>SCALE</td> </tr> <tr> <td>6</td> <td>JN-011</td> <td>1/8" = 1'-0"</td> </tr> </table>										BUILDING NO.	PROJECT NO.	SCALE	6	JN-011	1/8" = 1'-0"
BUILDING NO.	PROJECT NO.	SCALE													
6	JN-011	1/8" = 1'-0"													
<table border="1"> <tr> <td>PROJECT NO.</td> <td>SHEET NO.</td> <td>TOTAL SHEETS</td> </tr> <tr> <td>JN-011</td> <td>1</td> <td>1</td> </tr> </table>										PROJECT NO.	SHEET NO.	TOTAL SHEETS	JN-011	1	1
PROJECT NO.	SHEET NO.	TOTAL SHEETS													
JN-011	1	1													

7 6 5 4 3 2 1

APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR 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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	1201

SURVEY DATE: 2/23/93
 COUNT DATE: 2/23/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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 Floor	N/A	2, -2	8	.01	1406	1360	50	1201	-0.264	-2.49	Floor monitor used for
"	"	2, -4	9	.01	1290	1250	50	1249	-0.264	-2.49	scans & one minute
"	"	2, -6	8	.01	1308	1250	55	1327	-0.264	-2.48	counts.
"	"	2, -8	8	.01	1408	1330	50	1285	-0.264	-2.49	"
"	"	2, -10	8	.01	1462	1425	58	1282	-0.264	-2.49	"
"	"	2, -12	8	.01	1371	1330	53	1322	-0.264	-2.49	"
"	"	4, -2	8	.01	1294	1250	58	1235	2.378	5.53	"
"	"	6, -4	8	.01	1269	1210	56	1234	-0.264	-2.49	"
"	"	8, -4	8	.01	1370	1340	44	1328	-0.264	-2.49	"
"	"	10, -4	8	.01	1502	1350	40	1259	0.264	-2.49	"
"	"	10, -2	8	.01	1411	1310	51	1318	-0.264	-2.49	"
"	"	12, -2	8	.01	1391	1360	46	1320	-0.264	3.59	"
"	"	16, -2	8	.01	1311	1240	55	1338	-0.264	-2.49	"
"	"	16, -4	8	.01	1432	1375	40	1403	-0.264	-2.49	"
"	"	16, -12	8	.01	1400	1300	42	1386	-0.264	-2.49	"

FORM SERIAL #: 4-007 LOCATION # 4-2-1 SURVEY CLASSIFICATION: IV DISK FILE CODE: FDS-0267 SURVEYOR SIGNATURE: TS
 (Survey Section - Sequential survey #) (Survey Section - Unit # - Sub Unit #) (Group I, II, III, IV)

T. Shoyffe

DECOMMISSIONING FIELD DATA SHEET

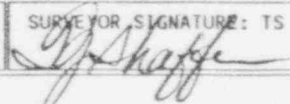
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	ESP2:					ESP2:			
	ESP2:					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	1201

SURVEY DATE: 2/23/93
COUNT DATE: 2/23/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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 Floor	N/A	4, -8	8	.01	1392	1350	56	1269	-0.264	-2.49	Floor monitor used for scans & one minute counts.
"	"	6, -8	8	.01	1335	1320	58	1293	-0.264	-2.49	
"	"	8, -8	8	.01	1398	1325	44	1323	-0.264	-2.49	
"	"	16, -8	8	.01	1405	1350	51	1350	-0.264	3.59	
"	"	8, -12	8	.01	1358	1310	46	1326	-0.264	3.41	
"	"	6, -12	8	.01	1486	1340	57	1207	-0.264	-2.49	
"	"	10, -8	8	.01	1462	1400	60	1530	-0.264	-2.49	
"	"	10, -10	8	.01	1570	1500	49	1601	-0.264	-2.49	
"	"	12, -10	8	.01	1645	1600	52	1659	7.741	-2.49	
"	"	14, -10	8	.01	1534	1450	52	1405	-0.264	-2.49	
"	"	14, -12	8	.01	1487	1440	51	1350	-0.264	-2.49	
"	"	14, -8	8	.01	1353	1310	53	1397	-0.264	9.31	
"	"	14, -6	8	.01	1406	1350	52	1304	-0.264	-2.49	
"	"	14, -4	8	.01	1360	1275	48	1321	-0.264	-2.49	
"	"	14, -2	8	.01	1341	1275	49	1367	-0.264	-2.49	

FORM SERIAL #: 4-007 (Survey Section - Sequential survey #)	LOCATION # 4-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0268	SURVEYOR SIGNATURE: TS 
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DECOMMISSIONING FIELD DATA SHEET

(*)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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	244
	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: 2/23/93
COUNT DATE: 2/23/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/W	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	ES20: 5242	mr/hr
	ES20: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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, -5	N/A	N/A	328	270	1	309	-0.264	-2.49	Lower Surfaces
"	"	8, -5	"	"	277	220	0	316	-0.264	3.41	"
"	"	14, -5	"	"	365	280	0	297	-0.264	-2.49	"
East Wall	"	4, -5	"	"	476	386	1	422	-0.264	3.59	Brick Wall

FORM SERIAL #: 4-007 (Survey Section - Sequential survey #)	LOCATION # 4-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0269	SURVEYOR SIGNATURE: LS/TB
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT11040\201F1.XLD
 Batch Ended: 2/23/93 15:26
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-2-1 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
16	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:07
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:08
18	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:08
19	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:09
20	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:09
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:10
22	2.378	2.80	<AL	11.27	5.53	4.60	<AL	15.88	1.00	0.900	2.76	2/23/93 15:11
23	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:12
24	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:12
25	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:13
26	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:13
27	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/23/93 15:14
28	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:14
29	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:15
30	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:15
31	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:16
32	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:16
33	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:17
34	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/23/93 15:17
35	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 15:18
36	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:18
37	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:19
38	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:19
39	7.741	8.17	At AL	28.84	-2.49	3.93	<MDA	34.63	0.33	2.930	-1.24	2/23/93 15:20
40	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:20

LB5100W Low Background Counting System – Smear Analysis

Date: 2/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040201FL.XLD
 Batch Ended: 2/23/93 15:26
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210.ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137.ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB 4-2-1 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
41	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:21
42	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	2/23/93 15:21
43	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:22
44	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:22
45	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:23
46	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:23
47	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 15:24
48	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:24
49	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/23/93 15:25
50	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.70	2/23/93 15:26
51	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:26

SURVEY POINT NOT NEEDED

LB5100W Low Background Counting System – Smear Analysis

Date: 2/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040201.XLD
 Batch Ended: 2/23/93 14:41
 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: 1435

Application Revision: 2
 Application Version: Standard

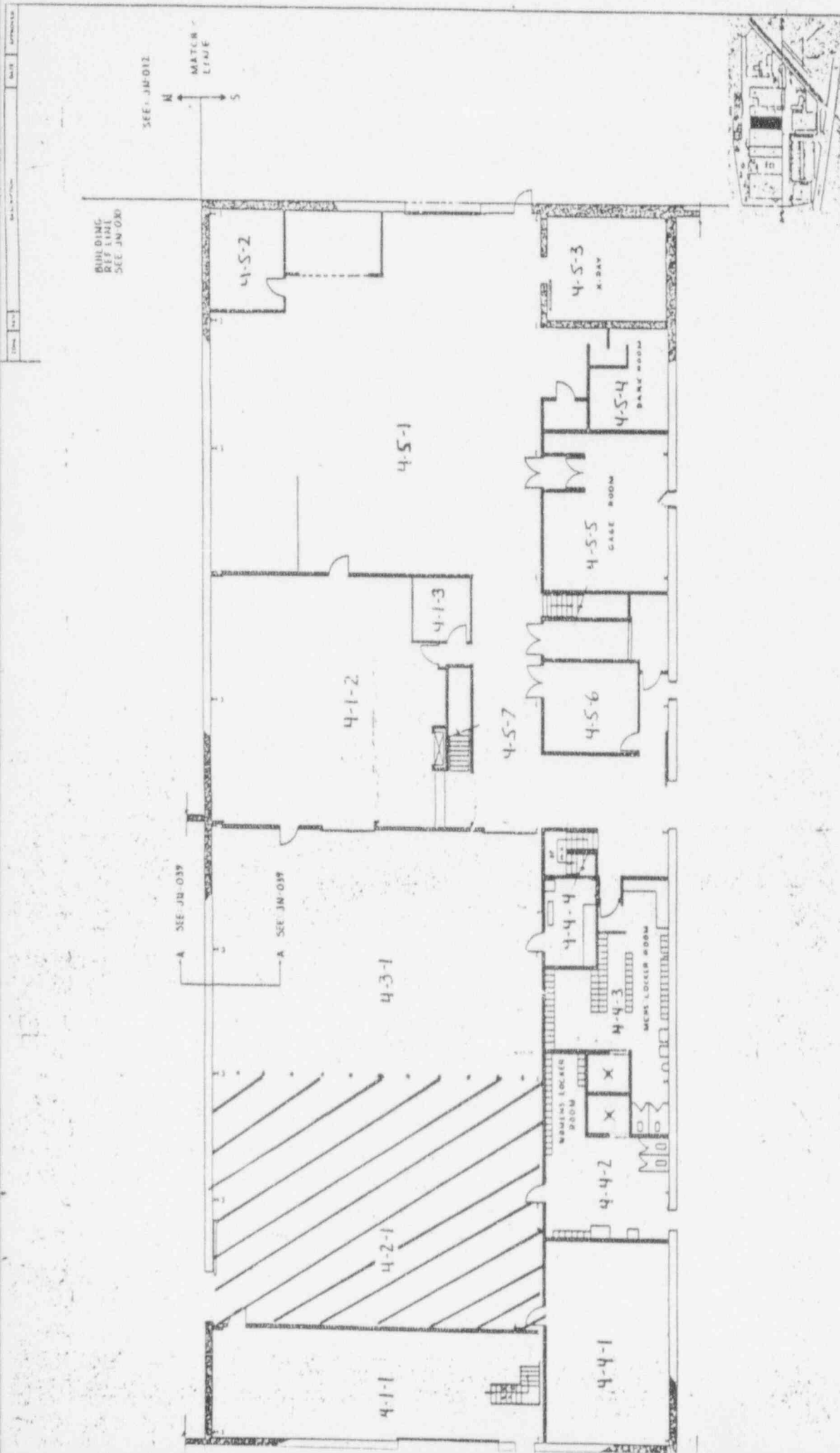
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4 2 1 walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 14:39
11	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 14:40
12	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/23/93 14:40
13	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 14:41

SMears NOT NEEDED



NO.	QTY.	DESCRIPTION	UNIT	PRICE	TOTAL
PARTS LIST					
1	1	CONCRETE	SQ. YD.		
2	1	CEILING	SQ. YD.		
3	1	FLOORING	SQ. YD.		
4	1	PAINT	SQ. YD.		
5	1	GLASS	SQ. FT.		
6	1	WOOD	SQ. FT.		
7	1	IRON	WT.		
8	1	COPPER	WT.		
9	1	ZINC	WT.		
10	1	LEAD	WT.		
11	1	STEEL	WT.		
12	1	ALUMINUM	WT.		
13	1	BRASS	WT.		
14	1	COPPER	WT.		
15	1	ZINC	WT.		
16	1	LEAD	WT.		
17	1	STEEL	WT.		
18	1	ALUMINUM	WT.		
19	1	BRASS	WT.		
20	1	COPPER	WT.		
21	1	ZINC	WT.		
22	1	LEAD	WT.		
23	1	STEEL	WT.		
24	1	ALUMINUM	WT.		
25	1	BRASS	WT.		
26	1	COPPER	WT.		
27	1	ZINC	WT.		
28	1	LEAD	WT.		
29	1	STEEL	WT.		
30	1	ALUMINUM	WT.		
31	1	BRASS	WT.		
32	1	COPPER	WT.		
33	1	ZINC	WT.		
34	1	LEAD	WT.		
35	1	STEEL	WT.		
36	1	ALUMINUM	WT.		
37	1	BRASS	WT.		
38	1	COPPER	WT.		
39	1	ZINC	WT.		
40	1	LEAD	WT.		
41	1	STEEL	WT.		
42	1	ALUMINUM	WT.		
43	1	BRASS	WT.		
44	1	COPPER	WT.		
45	1	ZINC	WT.		
46	1	LEAD	WT.		
47	1	STEEL	WT.		
48	1	ALUMINUM	WT.		
49	1	BRASS	WT.		
50	1	COPPER	WT.		
51	1	ZINC	WT.		
52	1	LEAD	WT.		
53	1	STEEL	WT.		
54	1	ALUMINUM	WT.		
55	1	BRASS	WT.		
56	1	COPPER	WT.		
57	1	ZINC	WT.		
58	1	LEAD	WT.		
59	1	STEEL	WT.		
60	1	ALUMINUM	WT.		
61	1	BRASS	WT.		
62	1	COPPER	WT.		
63	1	ZINC	WT.		
64	1	LEAD	WT.		
65	1	STEEL	WT.		
66	1	ALUMINUM	WT.		
67	1	BRASS	WT.		
68	1	COPPER	WT.		
69	1	ZINC	WT.		
70	1	LEAD	WT.		
71	1	STEEL	WT.		
72	1	ALUMINUM	WT.		
73	1	BRASS	WT.		
74	1	COPPER	WT.		
75	1	ZINC	WT.		
76	1	LEAD	WT.		
77	1	STEEL	WT.		
78	1	ALUMINUM	WT.		
79	1	BRASS	WT.		
80	1	COPPER	WT.		
81	1	ZINC	WT.		
82	1	LEAD	WT.		
83	1	STEEL	WT.		
84	1	ALUMINUM	WT.		
85	1	BRASS	WT.		
86	1	COPPER	WT.		
87	1	ZINC	WT.		
88	1	LEAD	WT.		
89	1	STEEL	WT.		
90	1	ALUMINUM	WT.		
91	1	BRASS	WT.		
92	1	COPPER	WT.		
93	1	ZINC	WT.		
94	1	LEAD	WT.		
95	1	STEEL	WT.		
96	1	ALUMINUM	WT.		
97	1	BRASS	WT.		
98	1	COPPER	WT.		
99	1	ZINC	WT.		
100	1	LEAD	WT.		

LEGEND

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

SCALE: FEET

0 5 10 15 20 25

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION
 PHILADELPHIA, PENNSYLVANIA

FIRST FLOOR

BUILDING N° 6

WAESD LARGE, PA.

DATE: JN-011
 DRAWN BY: D
 CHECKED BY: 14683
 PROJECT NO.: JN-011
 SHEET NO.: 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	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	233
	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: 2/25/93
COUNT DATE: 3/1/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	10, -1	N/A	N/A	277	225	0	281	-0.264	3.59	
On Top Vent (N)	"	10, -2	"	"	373	240	3	227	-0.264	9.66	
On Top Vent (N)	"	10, -3	"	"	296	230	1	224	-0.264	3.59	
Overhead Beams	"	10, -4	"	"	272	240	5	230	-0.264	-2.49	
"	"	12, -4	"	"	278	230	1	218	-0.264	5.53	
"	"	8, -4	"	"	223	180	2	206	-0.264	-2.49	
"	"	6, -4	"	"	276	200	1	186	-0.264	3.41	
"	"	4, -4	"	"	240	220	3	240	-0.264	-2.49	
"	"	2, -4	"	"	335	260	2	218	-0.264	-2.49	
West Wall	"	20, -2.5	"	"	288	240	0	274	-0.264	-2.49	
On Top of Vent (W)	"	20, -3	"	"	240	200	0	264	-0.264	-2.49	
Overhead Beams	"	8, -8	"	"	199	180	4	224	-0.264	-2.49	
"	"	6, -8	"	"	278	210	6	206	-0.264	-2.49	
"	"	4, -8	"	"	260	225	1	225	-0.264	-2.49	
"	"	2, -8	"	"	267	210	4	214	-0.264	3.59	

FORM SERIAL #: 4-022 (Survey Section - Sequential survey #)	LOCATION # 4-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0290	SURVEYOR SIGNATURE: JS/TR <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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	233
	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: 2/25/93
COUNT DATE: 3/01/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
Overhead Beams	N/A	2, -6	N/A	N/A	384	300	3	224	-0.264	3.59	
West Wall	"	16, -2.5	"	"	318	260	2	302	-0.264	-2.49	
Top of Vent (W)	"	16, -3	"	"	332	270	2	276	-0.264	-2.49	
Overhead beams	"	6, -10	"	"	253	190	1	229	-0.264	-2.49	
"	"	8, -10	"	"	330	280	1	196	-0.264	9.31	
"	"	4, -10	"	"	269	240	2	263	-0.264	-2.49	
"	"	2, -10	"	"	384	280	2	227	-0.264	-2.49	
West Wall	"	14, -2.5	"	"	369	250	1	289	-0.264	-2.49	
Top of Vent (W)	"	14, -3	"	"	323	275	3	241	-0.264	3.41	
"	"	6, -11	"	"	360	300	1	222	-0.264	-2.49	
"	"	6, -12	"	"	240	175	2	215	-0.264	-2.49	
"	"	8, -12	"	"	320	200	3	235	-0.264	3.59	
East Wall	"	10, -2	"	"	398	323	1	248	-0.264	-2.49	
Top of Crane Beam	"	10, -3	"	"	331	250	1	375	-0.264	3.41	
Top of Vent (E)	"	10, -3	"	"	270	200	1	231	-0.264	-2.49	

FORM SERIAL #: 4-022 (Survey Section - Sequential survey #)	LOCATION # 4-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0291	SURVEYOR SIGNATURE: TS/IB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/26/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\040201UP.XLD
 Batch Ended: 3/1/93 11:11
 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: 1435

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Application Revision: 2
 Application Version: Standard

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-2-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TIME
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
8	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/1/93 10:55
9	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	3/1/93 10:56
10	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/1/93 10:56
11	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/1/93 10:57
12	0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	1.00	-0.100	2.76	3/1/93 10:58
13	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/1/93 10:59
14	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/1/93 10:59
15	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/1/93 11:00
16	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:00
17	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/1/93 11:01
18	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/1/93 11:01
19	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/1/93 11:02
20	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:02
21	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/1/93 11:03
22	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/1/93 11:03
23	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/1/93 11:04
24	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:04
25	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:05
26	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:05
27	0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/1/93 11:06
28	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:06
29	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:07
30	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/1/93 11:07
31	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/1/93 11:08

LB5100W Low Background Counting System – Smear Analysis

Date: 2/26/93
 Counting Unit id: 1
 Data file name: C:\LBXI\UNIT1\040201UP.XLD
 Batch Ended: 3/1/93 11:11
 Crosstalk Correction: Not Applied

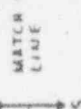
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty Level for MDA and flags: 95.00%
 High Voltage Setting: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

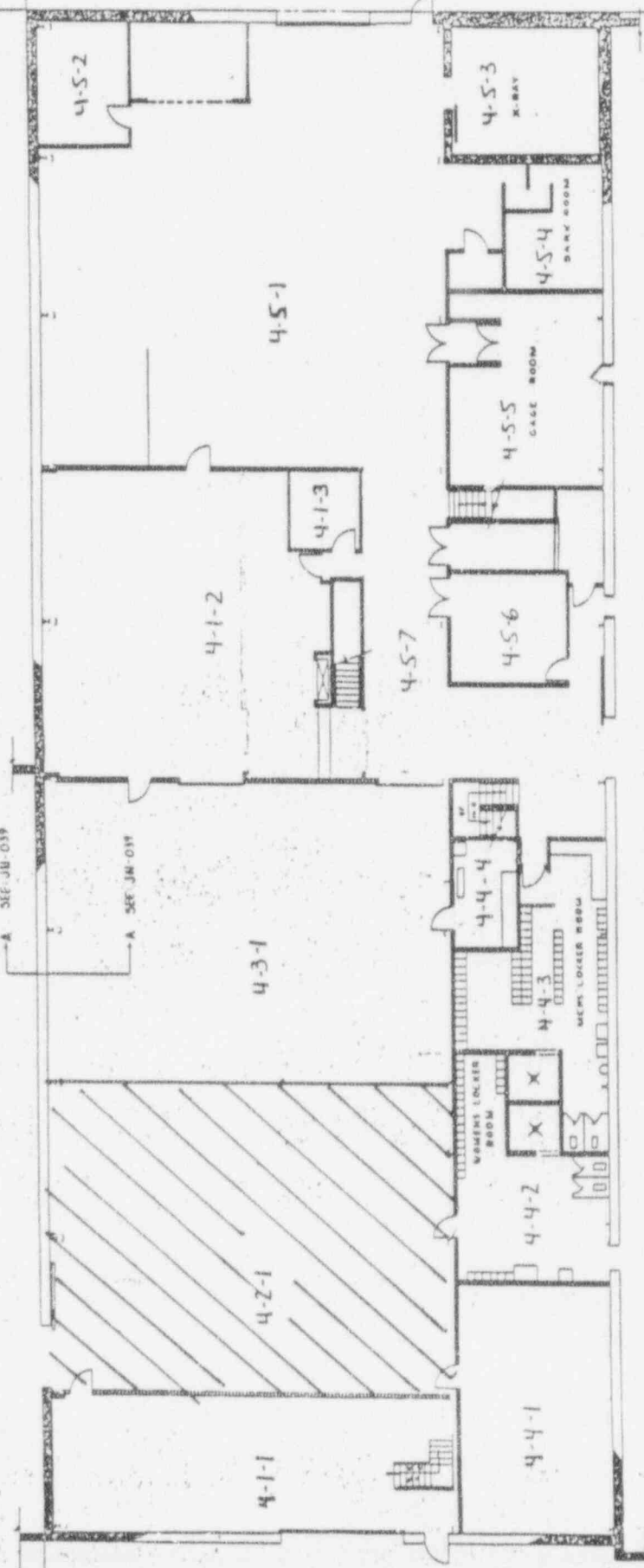
Batch id: TSB - 4-2-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
32	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/1/93 11:08
33	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/1/93 11:09
34	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/1/93 11:09
35	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/1/93 11:10
36	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/1/93 11:10
37	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/1/93 11:11

SEE JM-012



BUILDING REF LINE SEE JN-000



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

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

PARTS LIST		DESCRIPTION	
1	WOOD	DOOR	4-1-1
2	WOOD	WINDOW	4-1-2
3	WOOD	STAIR	4-1-3
4	WOOD	STAIR	4-2-1
5	WOOD	STAIR	4-3-1
6	WOOD	STAIR	4-4-1
7	WOOD	STAIR	4-4-2
8	WOOD	STAIR	4-4-3
9	WOOD	STAIR	4-4-4
10	WOOD	STAIR	4-5-1
11	WOOD	STAIR	4-5-2
12	WOOD	STAIR	4-5-3
13	WOOD	STAIR	4-5-4
14	WOOD	STAIR	4-5-5
15	WOOD	STAIR	4-5-6
16	WOOD	STAIR	4-5-7
17	WOOD	STAIR	4-5-8
18	WOOD	STAIR	4-5-9
19	WOOD	STAIR	4-5-10
20	WOOD	STAIR	4-5-11
21	WOOD	STAIR	4-5-12
22	WOOD	STAIR	4-5-13
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24	WOOD	STAIR	4-5-15
25	WOOD	STAIR	4-5-16
26	WOOD	STAIR	4-5-17
27	WOOD	STAIR	4-5-18
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29	WOOD	STAIR	4-5-20
30	WOOD	STAIR	4-5-21
31	WOOD	STAIR	4-5-22
32	WOOD	STAIR	4-5-23
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34	WOOD	STAIR	4-5-25
35	WOOD	STAIR	4-5-26
36	WOOD	STAIR	4-5-27
37	WOOD	STAIR	4-5-28
38	WOOD	STAIR	4-5-29
39	WOOD	STAIR	4-5-30
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261	WOOD	STAIR	4-5-252
262	WOOD	STAIR	4-5-253
263	WOOD	STAIR	4-5-254
264	WOOD	STAIR	4-5-255
265	WOOD</		

APPENDIX C

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 3

LB5100W Low Background Counting System – Smear Analysis

Date: 2/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040301.XLD
 Batch Ended: 2/23/93 14:43
 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: 1435

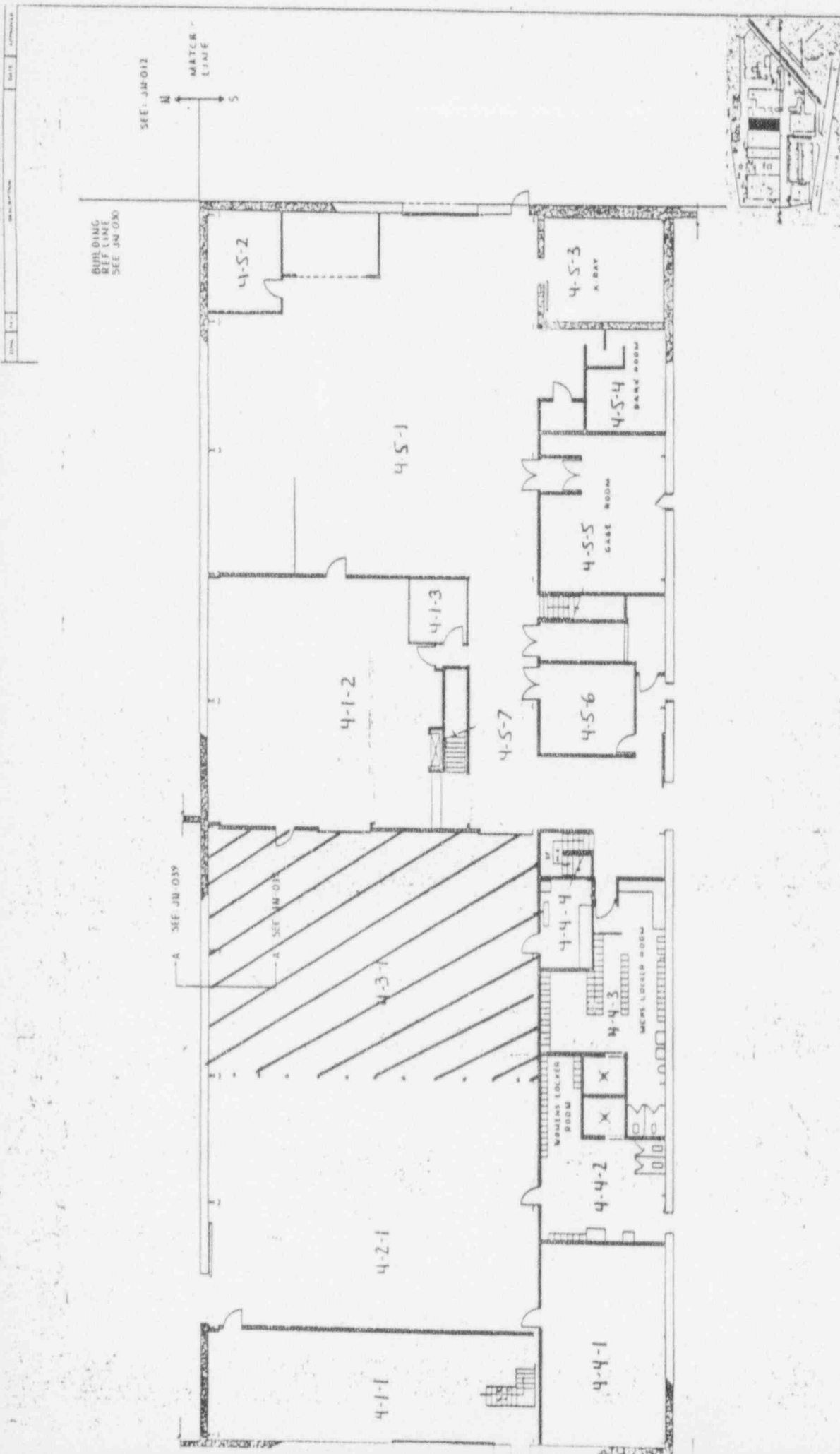
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-3-1 walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
14	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 14:41
15	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 14:42
16	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 14:42
17	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/23/93 14:43
18	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 14:43



SYMBOL	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
PARTS LIST					
1	WALLS - STRENGTHENED REINFORCED CONCRETE	1000	SQ. FT.	1.50	1500.00
2	ROOFING - ASPHALT FLT. SHINGLES	1000	SQ. FT.	1.00	1000.00
3	CEILING - POP	1000	SQ. FT.	0.50	500.00
4	FLOORING - POLISHED CONCRETE	1000	SQ. FT.	0.75	750.00
5	PAINT - INTERIOR	1000	SQ. FT.	0.25	250.00
6	PAINT - EXTERIOR	1000	SQ. FT.	0.50	500.00
7	DOORS - 1/2" SOLID CORE	10	EA.	10.00	100.00
8	WINDOWS - 1/2" GLASS	20	EA.	5.00	100.00
9	STAIRS - 1/2" SOLID CORE	1	EA.	100.00	100.00
10	ELECTRICAL - WIRING	1000	FT.	0.10	100.00
11	MECHANICAL - VENTILATION	1000	CFM	0.10	100.00
12	PLUMBING - PIPING	1000	FT.	0.10	100.00
13	FINISHES - TILE	1000	SQ. FT.	0.50	500.00
14	FINISHES - CARPET	1000	SQ. FT.	0.50	500.00
15	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
16	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
17	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
18	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
19	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
20	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
21	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
22	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
23	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
24	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
25	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
26	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
27	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
28	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
29	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
30	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
31	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
32	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
33	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
34	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
35	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
36	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
37	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
38	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
39	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
40	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
41	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
42	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
43	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
44	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
45	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
46	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
47	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
48	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
49	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
50	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
51	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
52	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
53	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
54	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
55	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
56	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
57	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
58	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
59	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
60	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
61	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
62	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
63	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
64	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
65	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
66	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
67	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
68	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
69	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
70	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
71	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
72	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
73	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
74	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
75	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
76	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
77	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
78	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
79	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
80	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
81	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
82	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
83	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
84	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
85	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
86	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
87	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
88	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
89	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
90	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
91	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
92	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00
93	FINISHES - FLOORING	1000	SQ. FT.	0.75	750.00
94	FINISHES - CEILING	1000	SQ. FT.	0.50	500.00
95	FINISHES - PAINT	1000	SQ. FT.	0.25	250.00
96	FINISHES - GLASS	1000	SQ. FT.	0.50	500.00
97	FINISHES - BRICK	1000	SQ. FT.	0.50	500.00
98	FINISHES - CONCRETE	1000	SQ. FT.	0.75	750.00
99	FINISHES - DRYWALL	1000	SQ. FT.	0.50	500.00
100	FINISHES - PAPERING	1000	SQ. FT.	0.50	500.00

LEGEND

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

SCALE: FEET

0 5 10 15 20 25

PROJECT NO.	14683
DATE	JN-011
SCALE	AS SHOWN
PROJECT	Washhouse Advanced Energy Systems Division
FLOOR	FIRST FLOOR
BUILDING NO.	6
W.A.E.S.D.	LARGE, PA
PROJECT NO.	JN-011
DATE	JN-011
SCALE	AS SHOWN
PROJECT	Washhouse Advanced Energy Systems Division
FLOOR	FIRST FLOOR
BUILDING NO.	6
W.A.E.S.D.	LARGE, PA

DECOMMISSIONING FIELD DATA SHEET

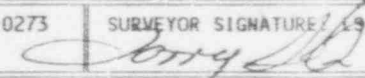
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	ESP2:					ESP2:			
	ESP2:					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	48	*	FLMON:91943	30.3%	3.3	1289

SURVEY DATE: 2/24/93
COUNT DATE: 2/24/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	10 uR/hr
	ES20: 5242	mr/hr
*	ES20: 5245	mr/hr
	ESP2: 1522	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.6%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	
					Tiled Floor	2, -14	N/A	10	.01	1400	
"	2, -16	"	11	.01	1310	1200	42	1147	-0.264	-2.49	
"	2, -18	"	10	.01	1300	1250	54	1231	-0.264	-2.49	
"	2, -20	"	9	.01	1310	1240	59	1262	-0.264	-2.49	
"	2, -22	"	11	.01	1225	1150	51	1186	-0.264	-2.49	
"	2, -24	"	11	.01	1275	1200	52	1182	-0.264	-2.49	
"	4, -14	"	9	.02	1350	1250	63	1213	-0.264	3.41	
"	4, -18	"	11	.01	1400	1300	51	1261	-0.264	-2.49	
"	4, -20	"	10	.01	1375	1200	50	1158	-0.264	-2.49	
"	4, -22	"	9	.01	1275	1175	44	1198	-0.264	3.41	
"	6, -14	"	9	.01	1280	1250	53	1274	-0.264	3.59	
"	6, -20	"	9	.01	1280	1175	43	1146	-0.264	-2.49	
"	6, -22	"	10	.02	1262	1190	63	1191	-0.264	-2.49	
"	8, -20	"	10	.01	1276	1225	48	1166	-0.264	-2.49	
"	8, -22	"	10	.01	1350	1200	48	1186	-0.264	-2.49	

FORM SERIAL #: 4-011 (Survey Section - Sequential survey #)	LOCATION # 4-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0273	SURVEYOR SIGNATURE: 
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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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	1289

SURVEY DATE: 2/24/93
 COUNT DATE: 2/24/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	
Tiled Floor	10, -22	N/A	10	.02	1250	1200	38	1222	-0.264	-2.49	
"	4, -24	"	10	.01	1292	1200	55	1195	-0.264	-2.49	
"	6, -24	"	12	.02	1285	1225	38	1267	-0.264	3.41	
"	8, -24	"	9	.02	1255	1210	48	1191	-0.264	-2.49	
"	10, -24	"	9	.01	1225	1200	42	1194	-0.264	3.41	
"	12, -24	"	12	.01	1179	1125	59	1192	-0.264	-2.49	
"	14, -24	"	14	.01	1325	1290	45	1325	-0.264	-2.49	
"	16, -24	"	18	.02	1381	1200	54	1374	-0.264	-2.49	
"	16, -22	"	15	.02	1410	1375	39	1445	-0.264	-2.49	
"	16, -20	"	16	.02	1384	1350	47	1408	-0.264	-2.49	
"	16, -18	"	13	.02	1350	1300	52	1352	-	3.59	
"	16, -16	"	17	.01	1480	1400	41	1389	-	-2.49	
"	16, -14	"	15	.01	1460	1425	52	1444	-0.264	-2.49	

FORM SERIAL #: 4-012 (Survey Section - Sequential survey #)	LOCATION # 4-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0274	SURVEYOR SIGNATURE: LS
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\040301.XLD
 Batch Ended: 2/24/93 12:51
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-3-1 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	1.00	-0.100	2.76	2/24/93 12:37
2	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:38
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:38
4	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:39
5	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 12:39
6	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:40
7	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 12:40
8	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:41
9	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 12:41
10	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 12:42
11	-0.264	1.63	<MDA	28.84	3.50	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 12:42
12	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:43
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:43
14	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:44
15	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 12:44
16	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:45
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:45
18	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 12:46
19	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:46
20	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 12:47
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 12:47
22	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 12:48
23	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 12:49
24	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 12:49
25	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:50

LB5100W Low Background Counting System – Smear Analysis

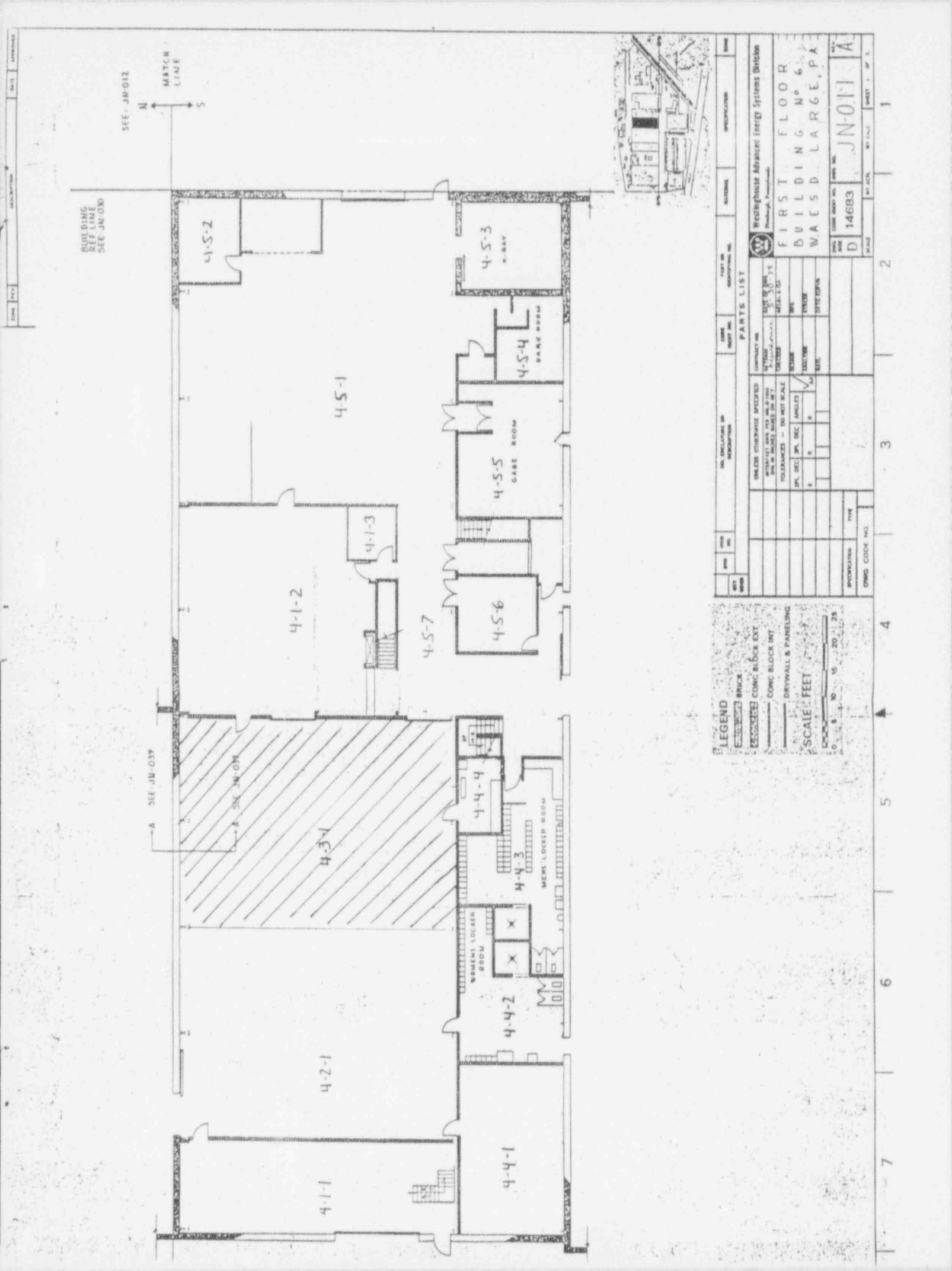
Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040301.XLD
 Batch Ended: 2/24/93 12:51
 Crosstalk Correction: Not Applied

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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4 3 1 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.70	2/24/93 12:50
27	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:51
28	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 12:51



SEE: JN-012

A SEE JN-039

SEE JN-038

BUILDING REF LINE SEE: JN-030

MATCH LINE
N
S



REV.	DATE	DESCRIPTION	BY	CHK.

ITEM NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

CONTRACT NO.	DATE OF ORDER	DATE OF DELIVERY	DELIVERY LOCATION	SHIPMENT NO.	SHIPMENT DATE

DESCRIPTION	TYPE	QTY	UNIT PRICE	TOTAL

LEGEND

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

SCALE: FEET

0 5 10 15 20 25

ITEM NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

CONTRACT NO.	DATE OF ORDER	DATE OF DELIVERY	DELIVERY LOCATION	SHIPMENT NO.	SHIPMENT DATE

DESCRIPTION	TYPE	QTY	UNIT PRICE	TOTAL

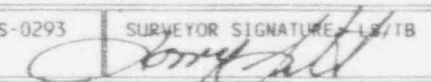
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	218
	ESP2:					ESP2:			
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/01/93
COUNT DATE: 3/02/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	2, -14	N/A	N/A	367	300	1	242	-0.264	-2.49	
"	"	4, -14	"	"	274	220	2	221	-0.264	3.59	
"	"	6, -14	"	"	360	240	2	223	-0.264	-2.49	
"	"	8, -14	"	"	328	250	1	248	-0.264	-2.49	
West Wall	"	10, 02	"	"	385	280	2	321	-0.264	-2.49	
Vent - Top	@ 10 m.		"	"	361	270	1	248	-0.264	3.41	
Ceiling Beam	N/A	2, -16	"	"	321	280	2	222	7.741	3.59	
"	"	4, -16	"	"	255	210	4	227	-0.264	3.59	
"	"	6, -16	"	"	250	225	3	253	-0.264	-2.49	
"	"	8, -16	"	"	278	240	2	247	-0.264	9.31	
Light Fixture	"	3, -17	"	"	382	320	1	271	-0.264	-2.49	
West Wall	"	8, -3	"	"	439	350	2	339	-0.264	-2.49	
Ceiling	"	10, -18	"	"	290	282	1	263	-0.264	3.59	
"	"	12, -18	"	"	303	260	4	236	-0.264	-2.49	
"	"	8, -18	"	"	390	270	2	263	-0.264	-2.49	

FORM SERIAL #: 4-025 (Survey Section - Sequential survey #)	LOCATION # 4-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0293	SURVEYOR SIGNATURE: 
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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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	218
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/01/93
 COUNT DATE: 3/02/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	6, -18	N/A	N/A	303	
"	"	4, -18	"	"	315	280	0	267	-0.264	9.31	
"	"	2, -18	"	"	320	240	2	258	-0.264	-2.49	
Vent - Top	"	N/A	"	"	325	280	1	288	-0.264	-2.49	
Light Fixture	"	10, -20	"	"	319	275	1	245	-0.264	-2.49	
Ceiling	"	8, -20	"	"	347	260	3	270	-0.264	-2.49	
"	"	6, -20	"	"	267	220	1	250	-0.264	-2.49	
Light Fixture	"	4, -20	"	"	310	240	0	251	-0.264	3.59	
"	"	2, -20	"	"	374	300	3	263	-0.264	-2.49	
Top of Vent	@ 4 m.	N/A	"	"	259	190	0	280	-0.264	9.31	
Ceiling Beam	N/A	10, -22	"	"	292	220	1	262	-0.264	-2.49	
"	"	8, -22	"	"	306	240	2	259	-0.264	-2.49	
"	"	6, -22	"	"	281	250	5	233	-0.264	-2.49	
"	"	2, -22	"	"	348	280	4	232	-0.264	9.06	
Light Fixture	"	4, -22	"	"	310	260	4	256	-0.264	-2.49	

FORM SERIAL #: 4-025 (Survey Section - Sequential survey #)	LOCATION # 4-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0294	SURVEYOR SIGNATURE: LS/TB 
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LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CFM): 0.1

Alpha activity action level (DPM): 10.00

Beta activity action level (DPM): 200.00

Confidence level for MDA at flags: 95.00%

High Voltage Setting: 14.3v

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CFM): 1.24

Application Revision: 2

Application Version: Standard

Date: 3/2/93

Counting Unit id: 1

Data file name: C:\BXL\UNIT1\0403011P.XLD

Batch Ended: 3/2/93 8:03

Crosstalk Correction: Not Applied

Batch ID: USB-4-3-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CFM	Beta CFM	Completion TOU
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
26	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/2/93 8:01
27	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/2/93 8:02
28	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/2/93 8:02
29	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/2/93 8:03
30	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/2/93 8:03

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/2/93
 Counting Unit id: 1
 Data file name: C:\EXL\MINT\1040301HP.XLD
 Batch Ended: 3/2/93 8:03
 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: 1435

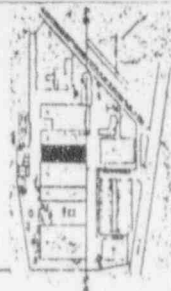
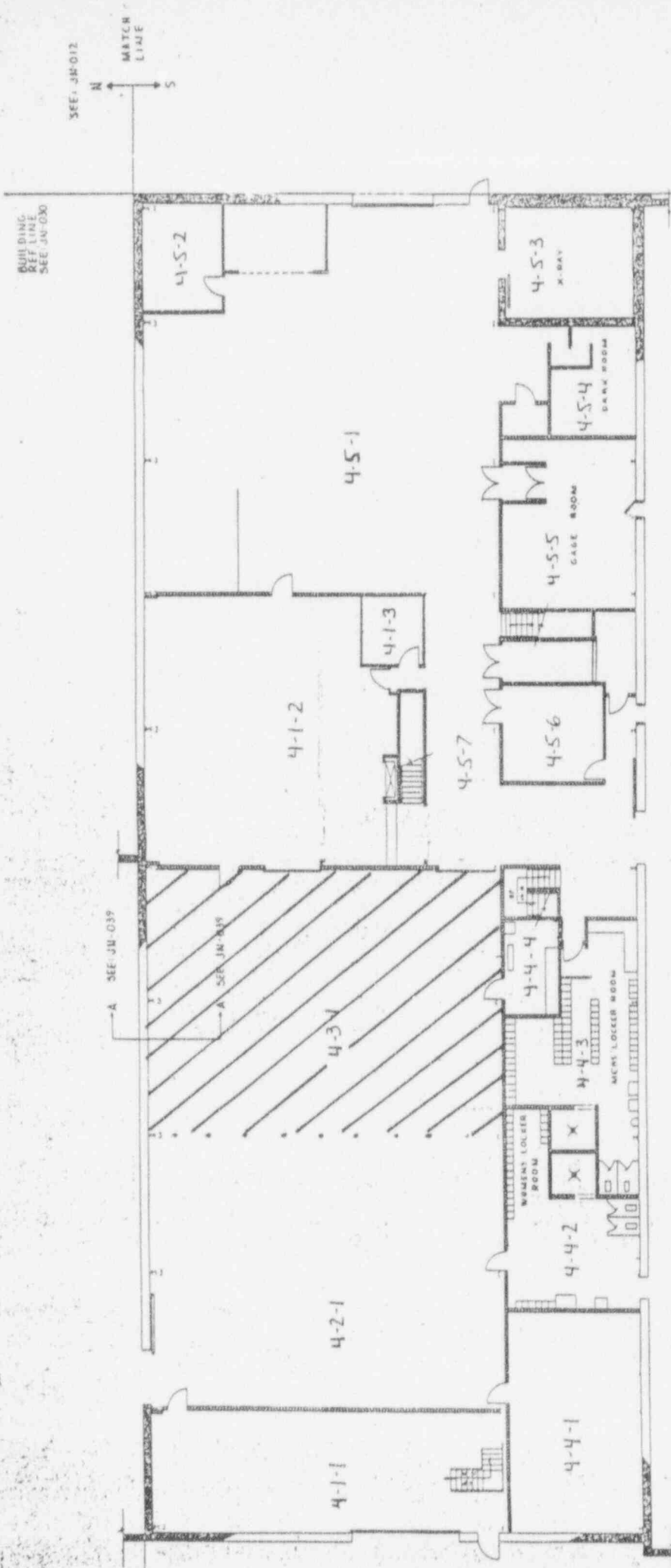
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po2104d
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.89%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB 4-3-1 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	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/2/93 7:49
2	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/2/93 7:49
3	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/2/93 7:50
4	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/2/93 7:50
5	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/2/93 7:51
6	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/2/93 7:51
7	7.741	8.17	At Al	28.84	3.59	7.24	<MDA	34.63	0.33	2.930	1.79	3/2/93 7:52
8	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/2/93 7:52
9	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/2/93 7:53
10	-0.264	1.60	<MDA	28.10	9.31	9.20	<Al	33.88	0.34	-0.100	4.64	3/2/93 7:53
11	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/2/93 7:54
12	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/2/93 7:54
13	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/2/93 7:55
14	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/2/93 7:55
15	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/2/93 7:56
16	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/2/93 7:56
17	-0.264	1.60	<MDA	28.10	9.31	9.20	<Al	33.88	0.34	0.100	4.64	3/2/93 7:57
18	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/2/93 7:57
19	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/2/93 7:58
20	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/2/93 7:58
21	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/2/93 7:59
22	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/2/93 7:59
23	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/2/93 8:00
24	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/2/93 8:00
25	-0.264	1.60	<MDA	28.10	9.31	9.20	<Al	33.88	0.34	0.100	4.64	3/2/93 8:01



DATE	BY	REV.	DESCRIPTION	CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

LEGEND

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

SCALE: FEET

CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

CONTRACT NO.	PROJECT NO.	SECTION NO.	SCALE	DATE

1 2 3 4 5 6 7

APPENDIX D

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 4

DECOMMISSIONING FIELD DATA SHEET

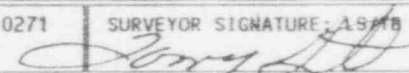
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	244
	ESP2:					ESP2:			
	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 2/23/93
COUNT DATE: 2/23/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	1, -2	N/A	N/A	296	270	0	265	-0.264	3.59	
Ceiling	"	1, -4	"	"	300	270	2	263	-0.264	-2.49	
"	"	1, -6	"	"	282	240	2	241	-0.264	3.41	
"	"	1, -8	"	"	279	240	3	239	-0.264	3.41	
"	"	3, -2	"	"	301	260	0	248	-0.264	-2.49	
"	"	3, -4	"	"	322	270	0	271	-0.264	-2.49	
"	"	3, -6	"	"	271	245	4	242	-0.264	9.66	
"	"	3, -8	"	"	279	250	2	251	-0.264	-2.49	
"	"	5, -6	"	"	268	240	4	232	-0.264	9.31	

FORM SERIAL #: 4-009 (Survey Section - Sequential survey #)	LOCATION # 4-4-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0271	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 2/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040401UP.XLD
 Batch Ended: 2/23/93 14:39
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

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

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/23/93 14:34
2	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 14:35
3	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 14:35
4	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 14:36
5	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/23/93 14:36
6	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 14:37
7	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/23/93 14:38
8	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 14:38
9	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	2/23/93 14:39

DECOMMISSIONING FIELD DATA SHEET

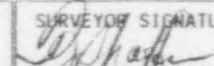
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	244
	ESP2:					ESP2:			
	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	46	*	FLMON:91943	30.3%	3.3	1458

SURVEY DATE: 2/23/93
COUNT DATE: 2/23/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	N/A	2, -1.1	N/A	N/A	426	270	2	320	-0.264	-2.49	Lower Surfaces
"	"	4, -1.1	"	"	366	300	0	343	-0.264	-2.49	"
"	"	6, -1.1	"	"	421	366	0	368	-0.264	-2.49	"
"	"	8, -1.1	"	"	482	340	2	341	-0.264	3.41	"
North Wall	"	2, -1.1	"	"	483	320	1	349	-0.264	-2.49	"
"	"	4, -1.1	"	"	340	300	1	338	-0.264	-2.49	"
Floor Tile	"	5, -6	8	.01	1327	1270	55	1290	-0.164	-2.49	Floor monitor used for
"	"	3, -6	8	.01	1401	1385	47	1356	-0.264	-2.49	scans & 1 minute
Concrete	"	3, -4	9	.01	1272	1225	48	1295	-0.264	3.59	counts
"	"	3, -2	9	.01	1631	1550	34	1418	-0.254	3.41	"
"	"	1, -2	15	.02	1755	1740	56	1731	-0.264	-2.49	"
"	"	1, -4	10	.01	1750	1680	38	1579	-0.264	-2.49	"
"	"	1, -6	10	.01	1683	1610	46	1609	-0.264	3.41	"
"	"	1, -8	11	.01	1681	1600	50	1630	-0.264	3.59	"
"	"	3, -8	10	.01	1598	1540	44	1409	-0.264	-2.49	"

FORM SERIAL #: 4-010 (Survey Section - Sequential survey #)	LOCATION # 4-4-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0272	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

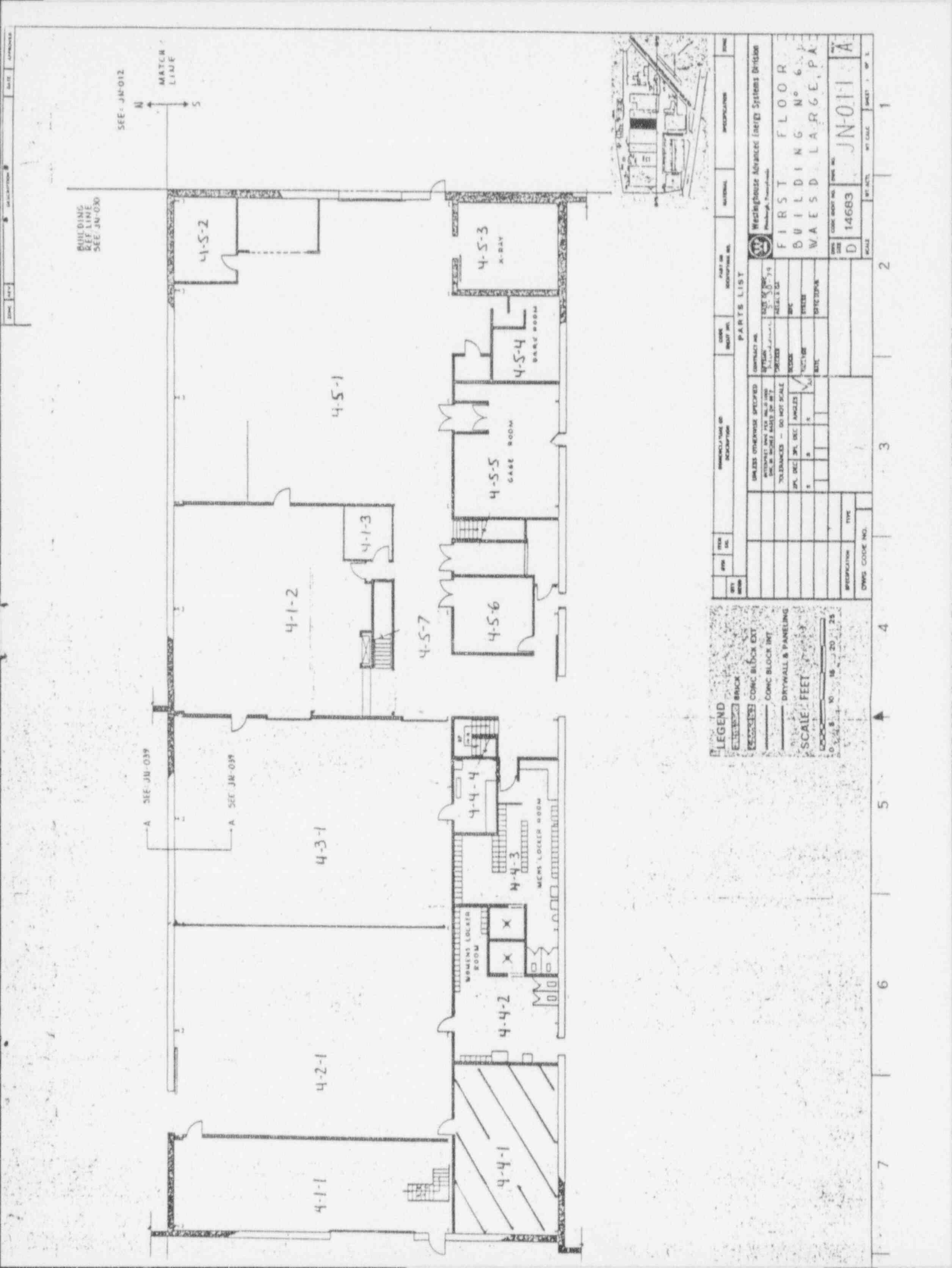
Date: 2/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040401.XLD
 Batch Ended: 2/23/93 15:07
 Crosstalk Correction: Not Applied

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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-4-1 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	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:00
2	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:00
3	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:01
4	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 15:01
5	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:02
6	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:02
7	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:03
8	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:03
9	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/23/93 15:04
10	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 15:04
11	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:05
12	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/23/93 15:05
13	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/23/93 15:06
14	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/23/93 15:06
15	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/23/93 15:07



SEE: JN-012

A SEE JU-039

A SEE JU-039

BUILDING REF LINE SEE JU-030

MATCH LINE



SYMBOL	TYPE	DESCRIPTION	CONTRACT NO.	DATE	BY	CHECKED	DATE	BY	SCALE	DATE	BY
1	WALL	CONCRETE	14683								
2	WALL	BRICK									
3	WALL	CONCRETE									
4	WALL	CONCRETE									
5	WALL	CONCRETE									
6	WALL	CONCRETE									
7	WALL	CONCRETE									
A	WALL	CONCRETE									
B	WALL	CONCRETE									
C	WALL	CONCRETE									

LEGEND

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

SCALE FEET

0 5 10 15 20 24

PARTS LIST

ITEM NO.	QTY.	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	CONCRETE	SQ. YD.		
2	1	BRICK	SQ. YD.		
3	1	CONCRETE	SQ. YD.		
4	1	CONCRETE	SQ. YD.		
5	1	CONCRETE	SQ. YD.		
6	1	CONCRETE	SQ. YD.		
7	1	CONCRETE	SQ. YD.		
A	1	CONCRETE	SQ. YD.		
B	1	CONCRETE	SQ. YD.		
C	1	CONCRETE	SQ. YD.		

Westphouse Advances Energy Systems Division
 BUILDING NO. 6
 WAESD LARGE, PA.
 DRAWING NO. JN-011
 SCALE 1/4" = 1'-0"
 SHEET 1 OF 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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	293
	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	1300

SURVEY DATE: 2/24/93
 COUNT DATE: 2/24/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uP/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	
North Wall	N/A	2, -.7	N/A	N/A	419	380	0	346	-0.264	3.41	ESP's used for scans
"	"	4, -.7	"	"	376	350	1	308	-0.264	-2.49	& one minute counts
East Wall	"	4, -.7	"	"	425	375	0	290	-0.264	9.66	"
"	"	6, -.7	"	"	397	360	1	290	-0.264	9.31	"
"	"	8, -.7	"	"	420	353	1	360	-0.264	-2.49	"
South Wall	"	2, -.7	"	"	480	350	1	377	-0.264	-2.49	"
Cement Floor	"	2, -2	13	.01	1717	1600	53	1694	-0.264	-2.49	Floor Monitor
"	"	2, -4	15	.02	1777	1700	55	1673	-0.264	-2.49	"
"	"	4, -4	13	.02	1880	1775	50	1720	-0.264	-2.49	"
"	"	4, -2	13	.01	1730	1700	49	1676	-0.264	3.59	"

FORM SERIAL #: 4-014 (Survey Section - Sequential survey #)	LOCATION # 4-4-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0276	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040402.XLD
 Batch Created: 2/24/93 11:13
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.09
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.62%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

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

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOB
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 11:08
2	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/24/93 11:09
3	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 11:09
4	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	2/24/93 11:10
5	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/24/93 11:10
6	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/24/93 11:11
7	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/24/93 11:11
8	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/24/93 11:12
9	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/24/93 11:12
10	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 11:13

LB5100W Low Background Counting System – Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040402UP.XLD
 Batch Ended: 2/24/93 15:32
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-4-2 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	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 15:29
2	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 15:30
3	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 15:30
4	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:31
5	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 15:31
6	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:32
7	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:32

DECOMMISSIONING FIELD DATA SHEET

SURVEY TYPE:

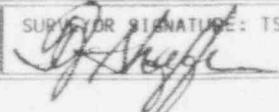
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	310
	ESP2:					ESP2:			
	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	1130

SURVEY DATE: 2/24/93
 COUNT DATE: 2/24/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	
West Wall	N/A	8, -.4	N/A	N/A	461	420	1	421	-0.264	-2.49	ESP's used for scans &
East Wall	"	2, -.4	"	"	408	325	6	359	-0.264	-2.49	1 minut counts - Block
Tile Floor	"	2, -.4	11	.01	1295	1220	50	1280	-0.264	-2.49	Floor monitor used for
"	"	2, -.6	13	.02	1365	1340	44	1279	-0.264	-2.49	scans & 1 minute counts
"	"	2, -.8	13	.01	1456	1380	55	1276	-0.264	3.59	"
"	"	2, -10	15	.01	1351	1310	53	1293	-0.264	-2.49	"
"	"	4, -.6	12	.02	1290	1260	49	1267	-0.264	3.59	"
Rest Room Shower	"	Center	25	.02	1706	1650	N/A	1726	N/A	N/A	Floor
Shower Wall	"	Corner	30	.02	N/A	N/A	N/A	N/A	N/A	N/A	"

FORM SERIAL #: 4-018 (Survey Section - Sequential survey #)	LOCATION # 4-4-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0281	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040403.XLD
 Batch Ended: 2/24/93 12:55
 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: 1435
 Application Revision: 2
 Application Version: Standard

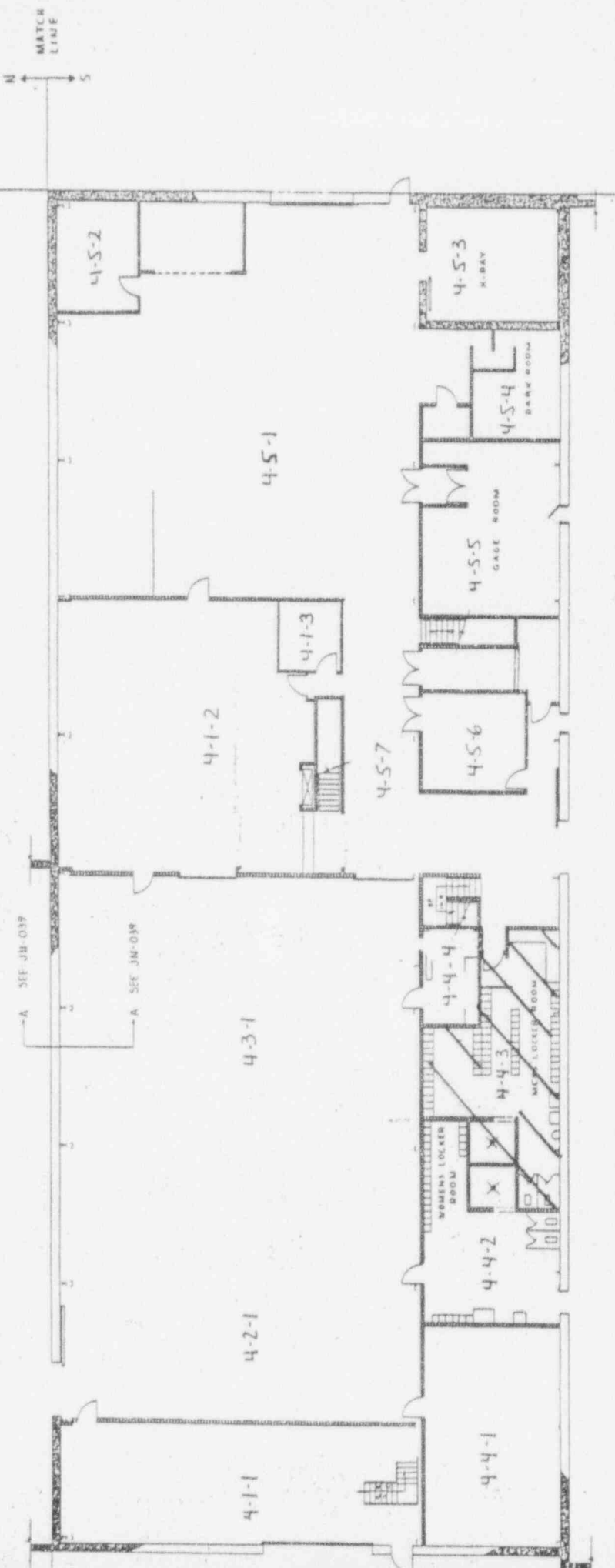
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-4-3 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				
29	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/24/93 12:52
30	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/24/93 12:52
31	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/24/93 12:53
32	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/24/93 12:53
33	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/24/93 12:54
34	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/24/93 12:54
35	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/24/93 12:55

BUILDING REF LINE SEE JM-030

SEE JM-012



REV	BY	DATE	DESCRIPTION	CONTRACT NO.	CONTRACT DATE	CONTRACT TITLE	CONTRACT NO.	CONTRACT DATE	CONTRACT TITLE
1									
2									
3									
4									
5									
6									
7									

REV	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			

REV	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			

LEGEND

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

SCALE: FEET

0 5 10 15 20 25

WESTINGHOUSE Advanced Energy Systems Division
 Pittsburgh, Pennsylvania

FIRST FLOOR
BUILDING N° 6
VAESD LARGE, PA

DATE: 1-683
 DRAWN BY: JN-011
 CHECKED BY: A

SCALE: 1/4" = 1'-0"

SHEET 7 OF 8

(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	301
	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 2/24/93
COUNT DATE: 2/24/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 184B	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	2, 0	N/A	N/A	N/A	473	320	2	362	-0.264	3.41	Brick
"	4, 0	"	"	"	390	310	0	357	-0.264	-2.49	"
"	6, 0	"	"	"	373	300	3	369	-0.264	9.31	"
North Wall	2, 0	"	"	"	315	280	1	304	-0.264	3.59	Block
"	4, 0	"	"	"	339	270	2	312	-0.264	-2.49	"
"	6, 0	"	"	"	355	280	1	306	-0.264	9.66	"
East Wall (2)	2, 0	"	"	"	332	270	0	324	-0.264	3.59	"
"	4, 0	"	"	"	295	270	0	296	-0.264	-2.49	"
South Wall (1)	2, 0	"	"	"	363	280	0	322	-0.264	-2.49	"
Ceiling	2, -10	"	"	"	293	250	0	276	-0.264	3.41	"
"	2, -8	"	"	"	355	290	2	229	-0.264	3.59	"
"	2, -6	"	"	"	439	350	0	272	-0.264	-2.49	"
"	2, -4	"	"	"	305	260	0	267	-0.264	-2.49	"
"	4, -6	"	"	"	303	250	1	258	-0.264	-2.49	"

FORM SERIAL #: 4-020 (Survey Section - Sequential survey #)	LOCATION # 4-4-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0283	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBXI\UNIT1\040403UF.XLD
 Batch Ended: 2/24/93 15:40
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-4-3 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
8	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 15:33
9	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:33
10	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	2/24/93 15:34
11	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 15:34
12	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:35
13	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 15:35
14	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 15:36
15	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 15:36
16	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 15:37
17	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 15:38
18	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 15:38
19	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:39
20	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:39
21	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 15:40

LB5100W Low Background Counting System – Smear Analysis

Date: 2/25/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\040404.XLD
 Batch Ended: 2/24/93 11:15
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4 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				
11	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 11:13
12	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 11:14
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 11:14
14	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 11:15
15	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/24/93 11:15

SEE JN-012
MATCH
LINE

SEE JN-030
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

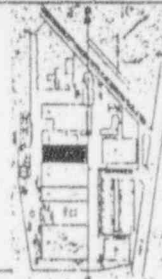
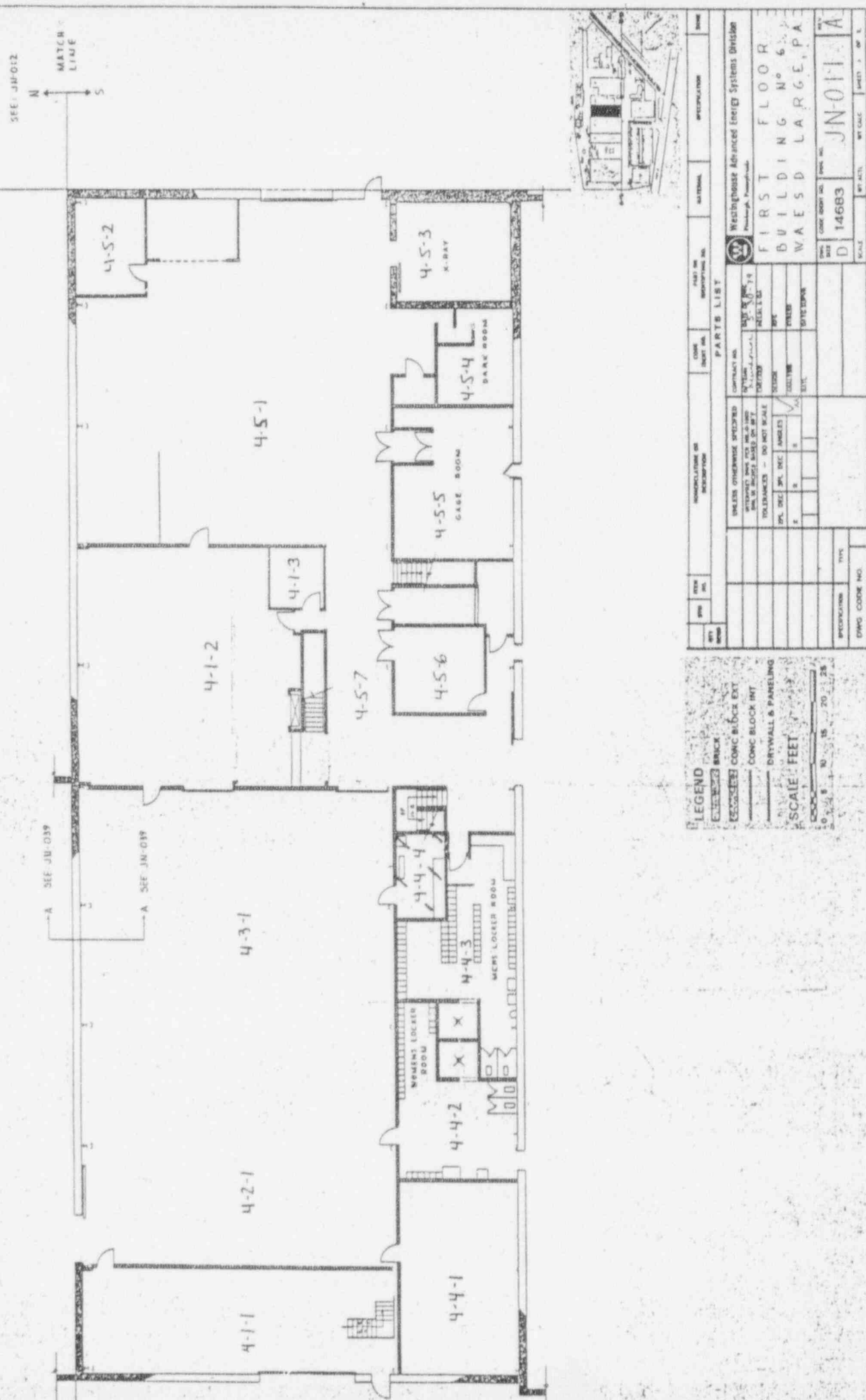
SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE

SEE JN-039
MATCH
LINE



REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

LEGEND

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

SCALE FEET

0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1												

1 2 3 4 5 6 7

APPENDIX E

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT FOR 5

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	7	*	FLMON:91943	28.8%	3.47	1272

SURVEY DATE: 3/02/93
COUNT DATE: 3/03/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -2	10	.01	1405	1310	2	1272	-0.264	9.31	
"	"	2, -4	10	.01	1252	1200	6	1185	-0.264	7.54	
"	"	2, -8	10	.015	1410	1320	5	1336	-0.264	3.59	
"	"	2, -12	10	.01	1253	1125	3	1198	-0.264	-2.49	
"	"	4, -12	10	.01	1206	1180	6	1203	-0.264	-2.49	
"	"	6, -12	9	.015	1155	1125	5	1196	-0.264	3.41	
"	"	10, -12	10	.01	1329	1250	3	1269	-0.264	-2.49	
"	"	10, -14	11	.01	1311	1275	6	1283	-0.264	3.4	
"	"	12, -14	9	.01	1348	1300	8	1335	-0.264	9.66	
"	"	12, -10	10	.01	1384	1350	6	1302	-0.264	3.41	
"	"	12, -6	11	.02	1480	1325	8	1408	-0.264	-2.49	
"	"	12, -4	11	.015	1346	1300	4	1342	-0.264	9.66	
"	"	14, -4	11	.01	1290	1225	6	1268	-0.264	3.59	
"	"	14, -2	9	.01	1309	1240	7	1300	-0.264	-2.49	
"	"	12, -2	11	.01	1386	1320	7	1318	-0.264	-2.49	

FORM SERIAL #: 4-028 (Survey Section - Sequential survey #)	LOCATION # 4-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0296	SURVEYOR SIGNATURE: TS <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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	292
	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	18.8%	5.3	7	*	FLMON:91943	28.8%	3.47	1272

SURVEY DATE: 3/02/93 & 3/03/93
 COUNT DATE: 3/3/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	10, -2	13	.02	1383	1300	4	1318	-0.264	-2.49	Floor monitor used for
"	"	8, -2	11	.01	1336	1250	7	1275	-0.264	-2.49	scans & 1 minute counts
"	"	6, -2	10	.01	1325	1250	10	1301	-0.264	-2.49	"
North Wall	"	12, -5	N/A	N/A	337	300	3	304	-0.264	3.59	ESP's used for scans &
"	"	16, -5	"	"	390	310	0	359	-0.264	-2.49	1 minute counts-Brick
East Wall	"	8, -5	"	"	399	280	2	327	-0.264	-2.49	Block
"	"	10, -5	"	"	397	290	2	315	-0.264	-2.49	Block
South Wall	"	2, -.5	"	"	404	325	1	318	-0.264	3.59	Brick
"	"	4, -.5	"	"	387	350	3	343	-0.264	9.66	"

FORM SERIAL #: 4-028 (Survey Section - Sequential survey #)	LOCATION # 4-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0297	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/3/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\040501.XI.D
 Batch Ended: 3/3/93 9:44
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

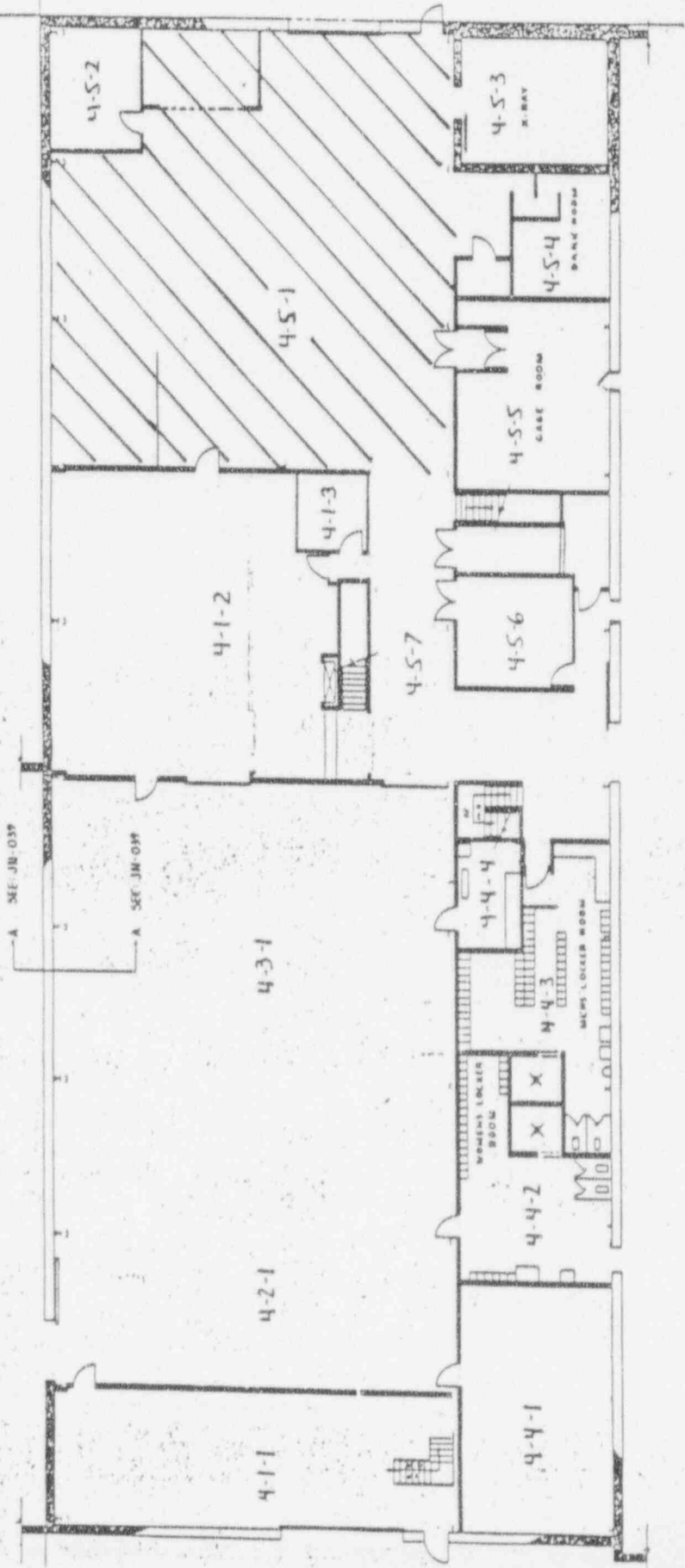
Batch ID: TSB - 4-5-1 walls and floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
1	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/3/93 9:31
2	-0.264	0.93	<MDA	11.27	7.54	5.02	<AL	15.88	1.00	-0.100	3.76	3/3/93 9:32
3	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/3/93 9:32
4	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:33
5	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:33
6	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/3/93 9:34
7	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:34
8	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/3/93 9:35
9	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/3/93 9:35
10	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/3/93 9:36
11	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:36
12	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/3/93 9:37
13	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/3/93 9:37
14	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:38
15	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:38
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:39
17	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:40
18	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:40
19	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/3/93 9:41
20	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:41
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:42
22	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:42
23	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/3/93 9:43
24	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/3/93 9:43
25	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:44

Survey Point NOT NEEDED

BUILDING REF LINE SEE JN-030

SEE JN-012
 N
 MATCH LINE
 S



DATE	REV.	DESCRIPTION	BY	CHK.
PARTS LIST				
CONTRACT NO. JN-012				
PROJECT NO. JN-012				
DRAWING NO. JN-012				
SCALE 1/4" = 1'-0"				
SHEET NO. 1				
TOLERANCES - DO NOT SCALE				
PL.	EL.	SEC.	FIN.	AS-BUILT
SPECIFICATION TYPE				
ENGINE CODE NO.				

LEGEND

BRICK

CONCRETE

CONCRETE BLOCK EXT

CONCRETE BLOCK INT

DRYWALL & PANELING

SCALE FEET

0 5 10 15 20 25

DATE	REV.	DESCRIPTION	BY	CHK.
PARTS LIST				
CONTRACT NO. JN-012				
PROJECT NO. JN-012				
DRAWING NO. JN-012				
SCALE 1/4" = 1'-0"				
SHEET NO. 1				
TOLERANCES - DO NOT SCALE				
PL.	EL.	SEC.	FIN.	AS-BUILT
SPECIFICATION TYPE				
ENGINE CODE NO.				

Westhouser Advanced Energy Systems Division
 FIRST FLOOR
 BUILDING N° 6
 WAESD, LARGE, PA
 JN-012
 D 14683

(*)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: L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	246
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/3/93
COUNT DATE: 3/4/93

(*)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: 152	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
Crane Rail	N/A	14, -2	N/A	N/A	392	297	2	256	-0.264	-2.49	
"	"	12, -2	"	"	263	205	4	221	-0.264	-2.49	
"	"	10, -2	"	"	259	185	1	138	-0.234	-2.49	
Light Fixture	"	8, -2	"	"	287	220	1	212	-0.264	9.31	
Beam	"	6, -2	"	"	480	275	0	242	-0.264	-2.49	
"	"	4, -2	"	"	274	240	0	263	-0.264	-2.49	
Light Fixture	"	2, -2	"	"	253	205	0	221	-0.264	-2.49	
Ventillation	"	@ 15.6 m.	"	"	357	315	2	292	-0.264	-2.49	
Crane Rail	"	14, -4	"	"	282	250	0	260	-0.264	-2.49	
Light Fixture	"	12, -4	"	"	383	290	1	262	-0.264	3.59	
"	"	10, -4	"	"	309	260	2	217	-0.264	-2.49	
Beam	"	8, -4	"	"	316	235	1	211	-0.264	3.59	
"	"	6, -4	"	"	320	250	0	205	-0.264	-2.49	
Light Fixture	"	4, -4	"	"	292	260	1	270	-0.264	-2.49	
"	"	2, -4	"	"	399	275	0	267	-0.264	3.59	

FORM SERIAL #: 4-033 (Survey Section - Sequential survey #)	LOCATION # 4-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0302	SURVEYOR SIGNATURE: MS-118 <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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	246
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/3/93
COUNT DATE: 3/4/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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 IP cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ventilation	@ 13.6 m.	N/A	N/A	N/A	354	275	1	280	-0.264	-2.49	
Light Fixture	N/A	12, -6	"	"	360	290	0	302	7.506	-2.49	
"	"	12, -8	"	"	347	265	1	299	-0.264	3.59	
Beam	"	12, -10	"	"	358	275	1	258	-0.264	-2.49	
Light Fixture	"	12, -12	"	"	309	280	0	264	-0.264	-2.49	
"	"	12, -14	"	"	448	340	0	309	-0.264	-2.49	
"	"	10, -6	"	"	457	355	0	355	-0.264	-2.49	
"	"	10, -8	"	"	361	305	0	349	-0.264	-2.49	
Beam	"	10, -10	"	"	265	230	1	226	-0.264	9.66	
Light Fixture	"	10, -12	"	"	297	280	1	312	-0.264	-2.49	
"	"	10, -14	"	"	395	360	1	352	-0.264	9.31	
Ventilation	@ 5.6 m.	"	"	"	256	230	3	274	-0.264	3.41	
Light Fixture	"	2, -12	"	"	402	350	3	366	-0.264	3.59	
"	"	4, -12	"	"	383	320	2	325	-0.264	-2.49	
"	"	6, -12	"	"	417	358	1	366	-0.264	-2.49	

FORM SERIAL #: 4-033 (Survey Section - Sequential survey #)	LOCATION # 4-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0303	SURVEYOR SIGNATURE: MS/LS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040501UP.XLD
 Batch Ended: 3/4/93 10:29
 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: 14.35

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210a)
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137a)
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: MTS 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	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:14
2	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:14
3	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 10:15
4	0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/4/93 10:16
5	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:16
6	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/4/93 10:17
7	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:17
8	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:18
9	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 10:18
10	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 10:19
11	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:19
12	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 10:20
13	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 10:20
14	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 10:21
15	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 10:21
16	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/4/93 10:22
17	7.506	7.94	AI AL	28.10	2.49	3.87	<MDA	33.88	0.34	2.841	1.24	3/4/93 10:22
18	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 10:23
19	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 10:23
20	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/4/93 10:24
21	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/4/93 10:24
22	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/4/93 10:25
23	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:25
24	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/4/93 10:26
25	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:26

LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 1435

Crosstalk Correction: Not Applied

Date: 3/4/93

Counting Unit id: 1

Data file name: CALBXLWIN110405041P.XLD

Batch Ended: 3/4/93 10:29

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

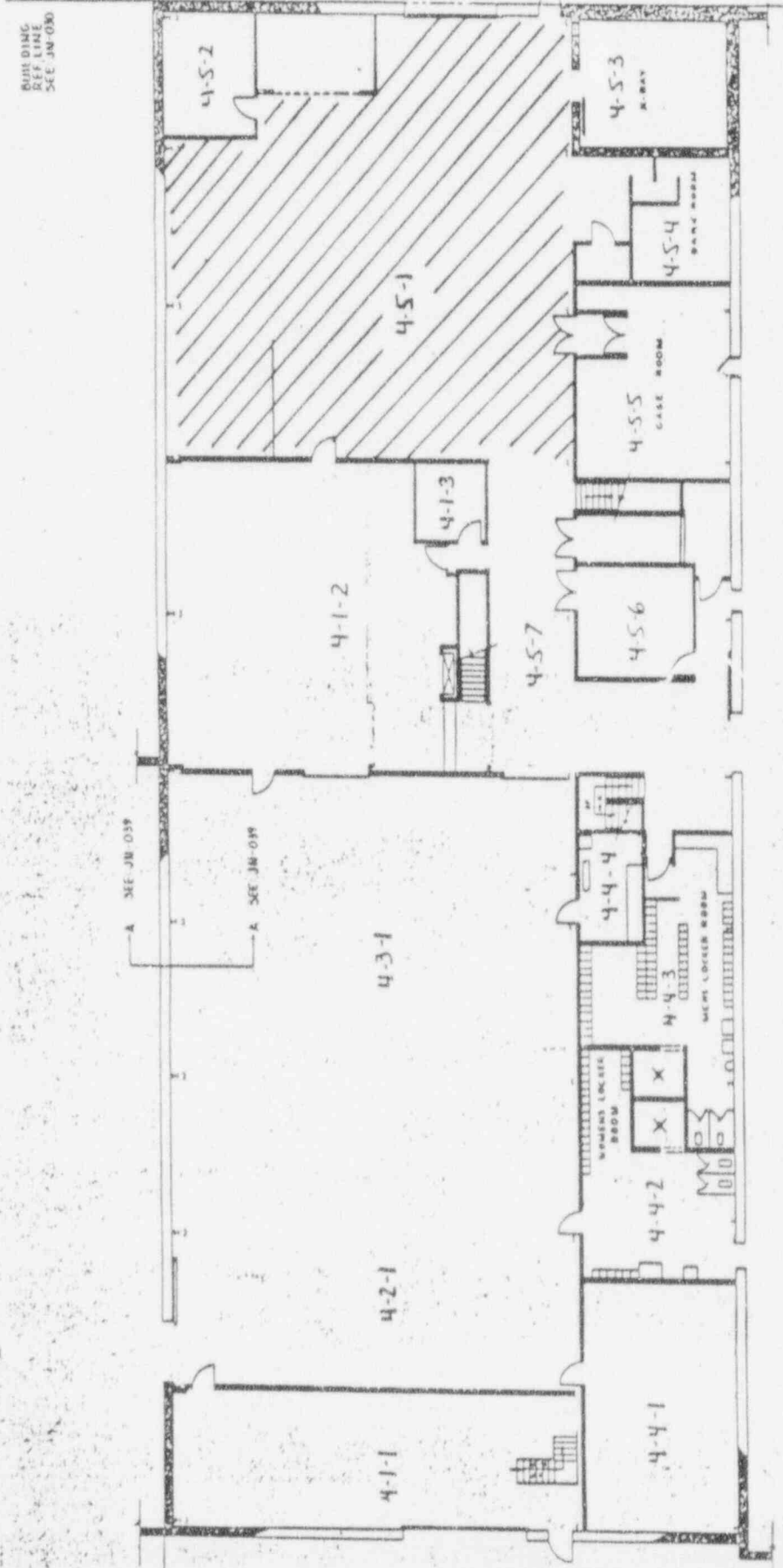
Beta Background (CPM): 1.24

Application Revision: 2

Application Version: Standard

Batch ID: MTS upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion IOD
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
26	0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/4/93 10:27
27	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/4/93 10:27
28	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 10:28
29	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 10:28
30	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:29



NO.	DESCRIPTION	QTY	UNIT	AMOUNT	REMARKS
<p>MISSING REF LINE SEE JM-030</p> <p>SEE JM-012</p> <p>MATCH LINE</p>					
<p>LEGEND</p> <p>CONCRETE</p> <p>BRICK</p> <p>GLASS</p> <p>WOOD</p> <p>PAINT</p> <p>DRYWALL & PANELING</p> <p>SCALE: FEET</p> <p>0 10 20 30</p>					
<p>CONTRACT NO. JM-011</p> <p>DATE: 10/1/71</p> <p>PROJECT: FIRST FLOOR BUILDING NO. 6 MAESD LARGE, PA</p> <p>CONTRACTOR: WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION</p>					
<p>PARTS LIST</p> <p>UNLESS OTHERWISE SPECIFIED</p> <p>ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE</p> <p>ALL DIMENSIONS - DO NOT SCALE</p> <p>FINISHES: SEE SPECIFICATIONS</p> <p>DOOR: 30" x 80" x 1 1/2"</p> <p>WINDOW: 36" x 48" x 1 1/2"</p> <p>CEILING: 8' x 8' x 1 1/2"</p> <p>FLOOR: 4" x 8" x 1 1/2"</p> <p>WALL: 8" x 8" x 1 1/2"</p> <p>ROOF: 4" x 12" x 1 1/2"</p> <p>STAIR: 36" x 48" x 1 1/2"</p> <p>ELEVATION: 1" = 16'</p>					
<p>DRWG. CODE NO. JN-011</p> <p>SCALE: 1/8" = 1'-0"</p> <p>DATE: 10/1/71</p> <p>SHEET: 1 OF 1</p>					

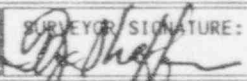
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	292
	ESP2:					ESP2:			
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/3/93
COUNT DATE: 3/3/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -5	N/A	N/A	447	400	1	393	-0.264	3.41	Brick
"	"	4, -5	"	"	366	350	2	411	-0.264	-2.49	"
South Wall	"	2, -5	"	"	432	300	5	344	-0.264	-2.49	"

FORM SERIAL #: 4-029 (Survey Section - Sequential survey #)	LOCATION # 4-5-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0298	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/3/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040502.XLD
 Batch Ended: 3/3/93 9:46
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.80%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-5-2 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				
27	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/3/93 9:45
28	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:45
29	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:46

(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	292
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/3/93
 COUNT DATE: 3/3/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	2, -1.2	N/A	N/A	350	275	1	276	-0.264	3.41	Block
South Wall	"	2, -1.2	"	"	403	300	3	291	-0.264	-2.49	"
"	"	4, -1.2	"	"	444	325	1	345	-0.264	9.66	"
West Wall	"	2, -1.2	"	"	368	280	3	313	-0.264	-2.49	"
"	"	4, -1.2	"	"	415	300	2	315	-0.264	3.41	"
North Wall	"	2, -1.2	"	"	339	280	5	318	-0.264	-2.49	"
"	"	4, -1.2	"	"	338	300	3	335	-0.264	-2.49	"

FORM SERIAL #: 4-030 (Survey Section - Sequential survey #)	LOCATION # 4-5-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0299	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/3/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040503.XL.D
 Batch Ended: 3/3/93 9:49
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-5-3 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				
30	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/3/93 9:46
31	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:47
32	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/3/93 9:47
33	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:48
34	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/3/93 9:48
35	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/3/93 9:49
36	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/3/93 9:49

LB5100W Low Background Counting System – Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040506.XLD
 Batch Ended: 2/24/93 11:17
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4 5-6 walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOI
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
15	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 11:15
16	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 11:16
17	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 11:16
18	7.506	7.94	At AL	28.10	2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	2/24/93 11:17
19	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 11:17

(*)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	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	234
	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	1130

SURVEY DATE: 2/24/93
COUNT DATE: 2/24/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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 (1)	N/A	2, -.4	N/A	N/A	389	320	3	324	2.378	11.55	ESP's used for scans &
" (2)	"	2, -.4	"	"	385	300	0	287	-0.264	-2.49	1 minute counts-Block
East Wall (1)	"	2, -.4	"	"	333	260	4	329	-0.264	-2.49	"
" (2)	"	6, -1.3	"	"	320	270	5	293	-0.264	-2.49	"
"	"	8, -1.3	"	"	374	280	1	278	-0.264	-2.49	"
"	"	10, -1.3	"	"	347	260	1	297	-0.264	-2.49	"
West Wall (2)	"	2, -1.3	"	"	344	240	3	332	-0.264	3.53	"
"	"	4, -1.3	"	"	320	260	4	296	-0.264	3.59	"
"	"	6, -1.3	"	"	250	190	2	194	-0.264	3.59	Steel Beam
"	"	8, -1.3	"	"	382	300	1	350	-0.264	3.59	Concrete Block
East Wall (3)	"	2, -.4	"	"	336	310	2	378	-0.264	9.66	"
West Wall (1)	"	2, -.4	"	"	371	340	2	348	-0.264	3.41	Brick Wall
"	"	4, -.4	"	"	385	320	0	330	-0.264	-2.49	"
Floor	"	2, -2	11	.01	1404	1370	42	1322	-0.264	-2.49	Floor monitor used for
"	"	2, -4	9	.02	1390	1330	62	1320	-0.264	3.59	scans & 1 minute counts

FORM SERIAL #: 4-017 (Survey Section - Sequential survey #)	LOCATION # 4-5-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0279	SURVEYOR SIGNATURE: TR/TB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\040501.XLD
 Batch Ended: 2/24/93 11:28
 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: 1435

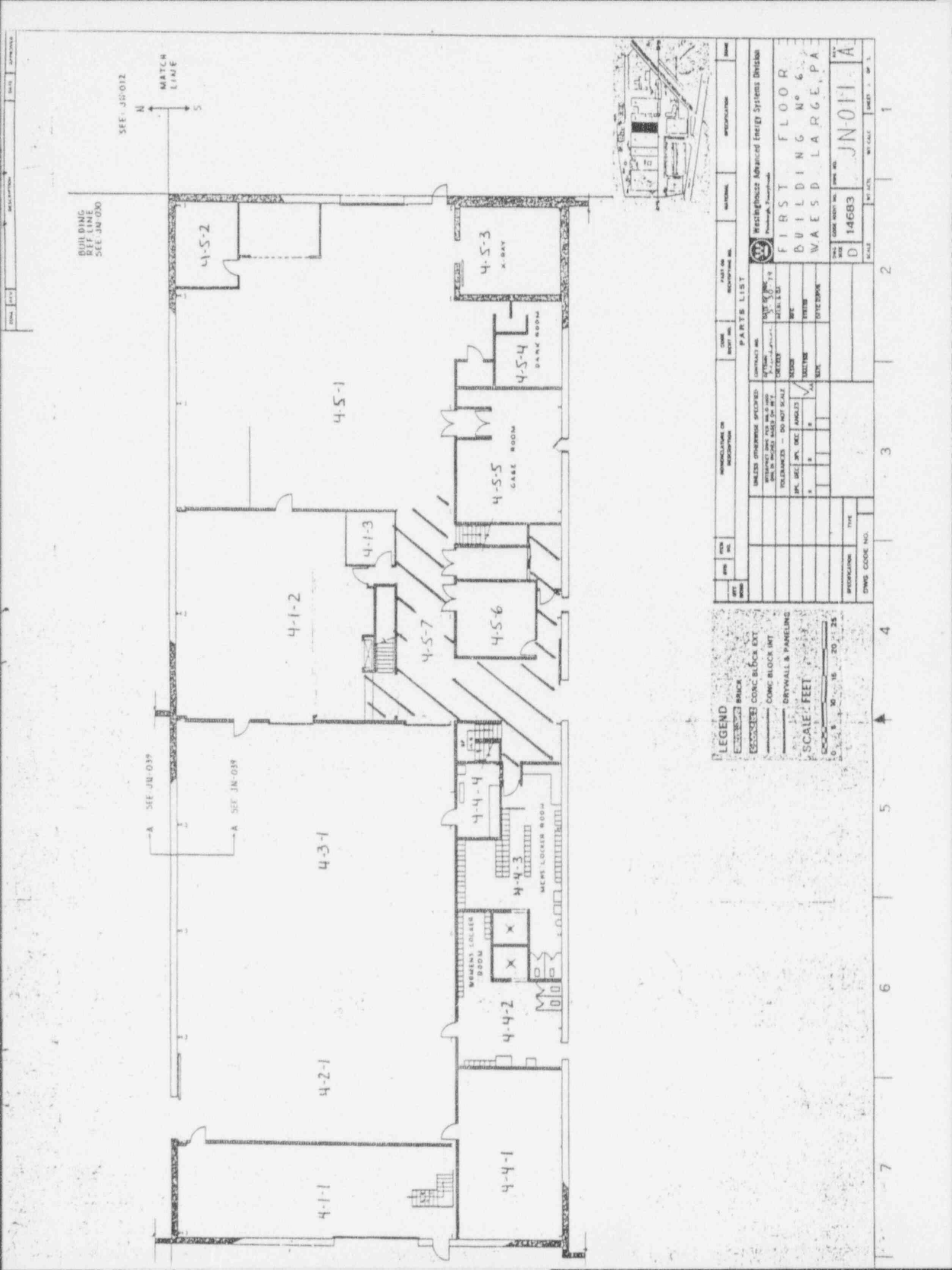
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-5-7 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				
20	2.378	2.80	<AL	11.27	11.55	5.77	<AL	15.88	1.00	0.900	5.76	2/24/93 11:19
21	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/24/93 11:19
22	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 11:20
23	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 11:20
24	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 11:21
25	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 11:21
26	-0.264	0.93	<MDA	11.27	3.53	4.14	<MDA	15.88	1.00	-0.100	1.76	2/24/93 11:22
27	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 11:23
28	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 11:23
29	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 11:24
30	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 11:24
31	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 11:25
32	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/24/93 11:26
33	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/24/93 11:26
34	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 11:27
35	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 11:27
36	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/24/93 11:28
37	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/24/93 11:28



BUILDING REF LINE SEE JN-030

SEE JN-012

SEE JN-039

SEE JN-039

MATCH LINE

LEGEND

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

SCALE: FEET

0 5 10 15 20 25

REV	DATE	DESCRIPTION	BY	CHK

ITEM NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL

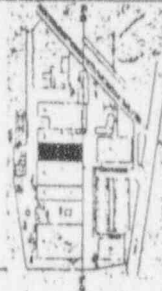
CONTRACT NO.	DATE	PROJECT NO.	DESCRIPTION

UNLESS OTHERWISE SPECIFIED:	CONTRACT NO.
RETAINED DIMS PER PLAN AND DIMS IN BRACKETED DIMS PER PLAN	
TOLERANCES - DO NOT SCALE	
FIN. DIMS PER DIMS IN BRACKETED DIMS PER PLAN	
ANGLES	

DESCRIPTION	TYPE	QTY	UNIT	PRICE	TOTAL

Westinghouse Advanced Energy Systems Division
 FIRST FLOOR
 BUILDING NO. 6
 WAESD LARGE, PA

DWG CODE NO. D 14683
 SHEET NO. JN-011 A



1 2 3 4 5 6 7

1.B5100W Low Background Counting System – Smear Analysis

Date: 2/24/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040507\UP.XLD
 Batch Ended: 2/24/93 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-5-7 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	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/24/93 16:05
3	7.506	7.94	At AL	28.10	-2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	2/24/93 16:05
2	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/24/93 16:06
4	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/24/93 16:06

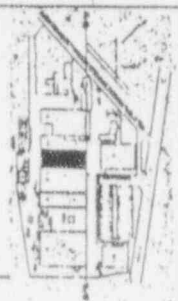
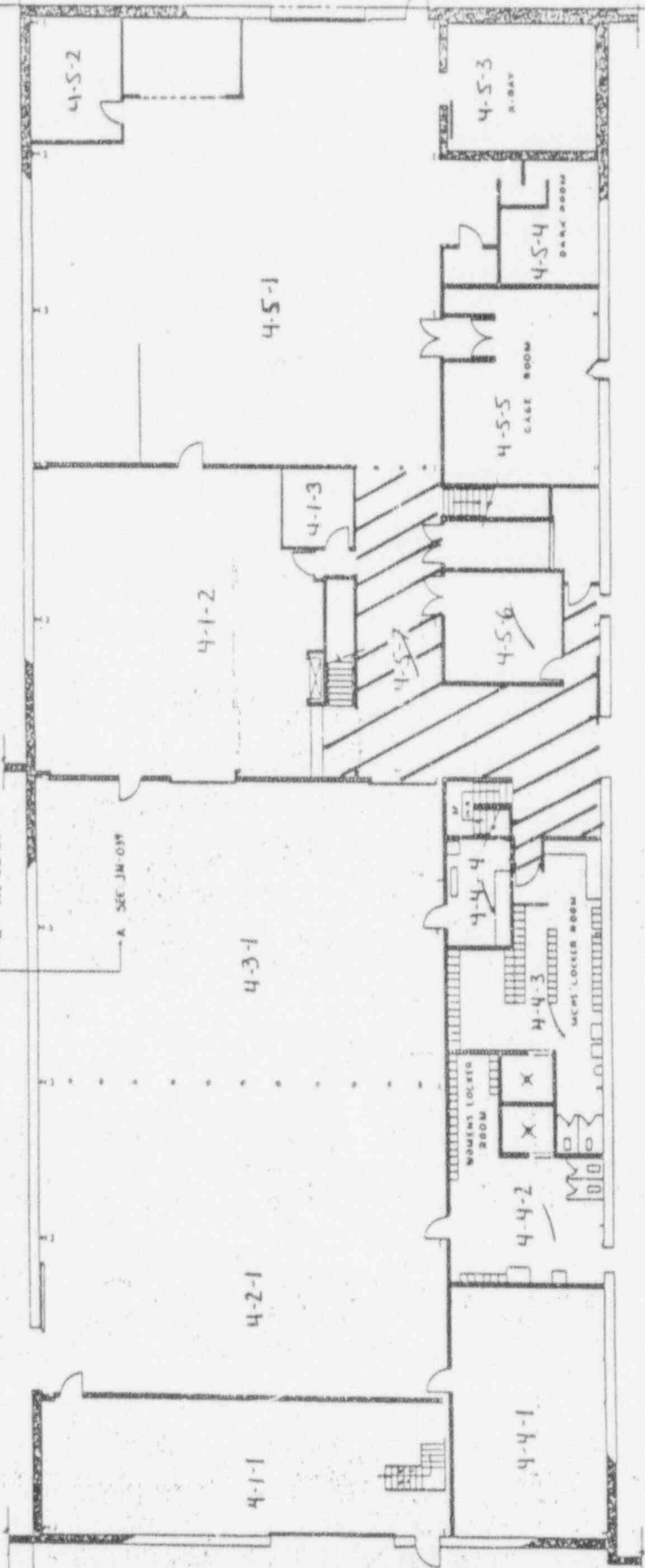
SEE JN-012

N
MATCH
LINE
S

BUILDING
REF LINE
SEE JN-030

A SEE JN-039

A SEE JN-037



LEGEND
 FINISHES: 1. EXT. 2. INT.
 3. PANELING
SCALE 1/4" = 1'-0"
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

REV.	DATE	DESCRIPTION	BY	CHKD.
1				
2				
3				
4				
5				
6				
7				

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

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

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

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

NO.	REV.	DATE	DESCRIPTION
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2			
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7			

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

NO.	REV.	DATE	DESCRIPTION
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2			
3			
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5			
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7			

NO.	REV.	DATE	DESCRIPTION
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3			
4			
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7			

NO.	REV.	DATE	DESCRIPTION
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NO.	REV.	DATE	DESCRIPTION
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NO.	REV.	DATE	DESCRIPTION
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5			
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7			

NO.	REV.	DATE	DESCRIPTION
1			
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7			

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

Westinghouse Advanced Energy Systems Division
 FIRST FLOOR
 BUILDING N° 6
 WAESD LARGE, PA

JN-011
 A

1 2 3 4 5 6 7

APPENDIX F

RADIOLOGICAL SURVEY DATA SHEETS FOR VENTILATION DUCTS

LB5100W Low Background Counting System – Smear Analysis

Date: 2/26/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040201V.XLD
 Batch Ended: 3/1/93 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-2-1 ventilation internals

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
5	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	0.100	4.64	3/1/93 10:54
6	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/1/93 10:54
7	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/1/93 10:55

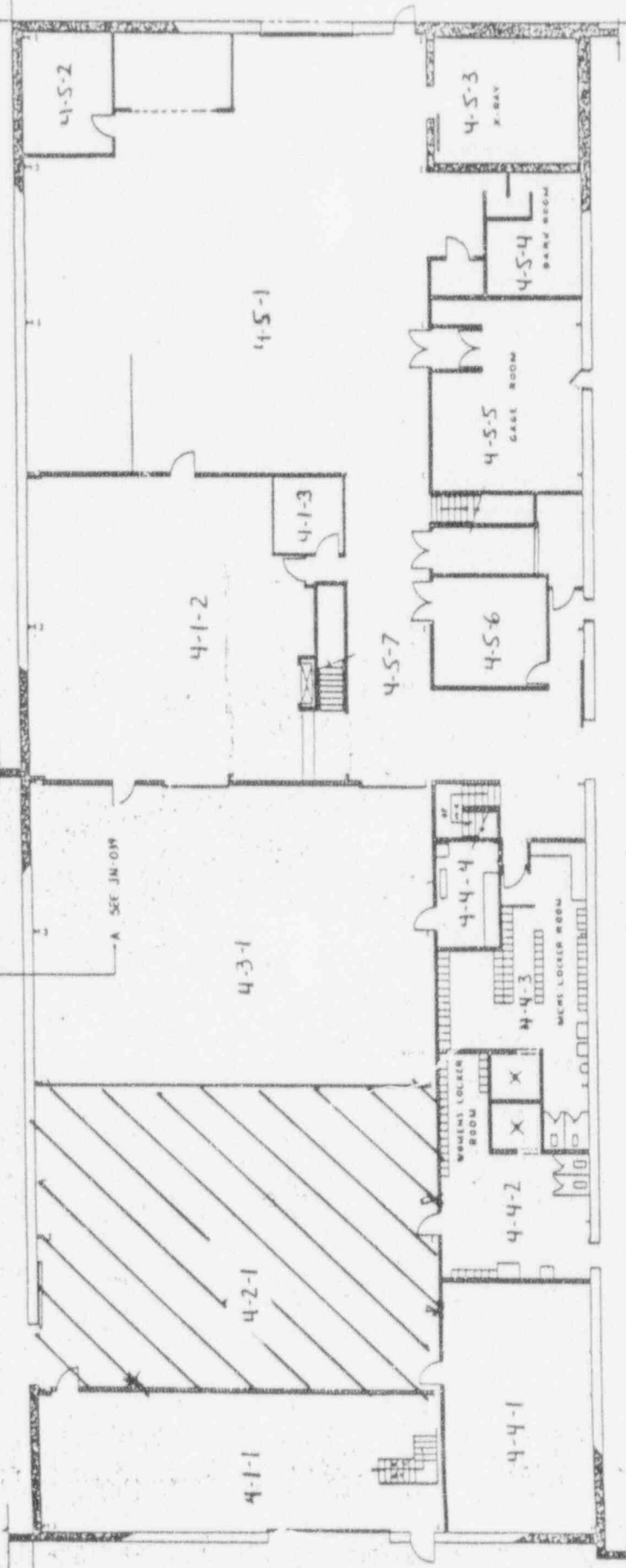
BUILDING REF. LINE SEE JN-030

SEE JN-012

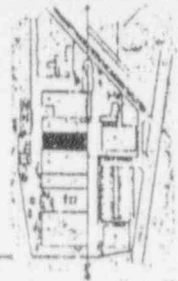
A SEE JU-039

A SEE JN-039

MATCH LINE
N
S



* DENOTES VENTILATION LOWERS



REV	DATE	DESCRIPTION	BY	CHECKED	DATE	DESCRIPTION

CONTRACT NO.	DATE OF CONTRACT	CONTRACT VALUE	CONTRACT TYPE

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL

CONTRACT NO.	DATE OF CONTRACT	CONTRACT VALUE	CONTRACT TYPE

CONTRACT NO.	DATE OF CONTRACT	CONTRACT VALUE	CONTRACT TYPE

LEGEND

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

SCALE: FEET

0 5 10 15 20 25

W Westinghouse Advanced Energy Systems Division
 Pittsburgh, Pa.
FIRST FLOOR
BUILDING N° 6
WAESD LARGE, F1

DATE: 10/11/63
 DRAWN: D
 CHECKED: JN-011
 PROJECT: 14683

1 2 3 4 5 6 7


(*) IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		(*) IF USED	BKG CPM
	INST: S/N	EFF	INST: S/N	C.F.		
	ESP2:1517	21.1%	4.74	34.2%	ESP2:1595	2.92
	ESP2:1517-L	21.7%	4.60	31.3%	ESP2:1595-L	3.20
*	ESP2:1601-L	23.1%	4.33	34.3%	ESP2:1588-L	2.91
	ESP2:					
	ESP2:			20.3%	ESP2:	4.92
	ASP1: 1891	19.1%	5.23		ESP2: 5245	
	PAC4G:4478	18.5%	5.4	33.5%	PAC4G:4478	3.0
	FLMON:91943	18.8%	5.3	28.8%	FLMON:91943	3.47

SURVEY DATE: 3/02/93
COUNT DATE: 3/02/93

(*) IF USED	GAMMA OR BETA/GAMMA EQUIP INST: S/N	BKG	UR/hr
	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)		BKG
	INST: S/N	EFF	
*	TENN: 13295	37.8%	2.64
	SAC4: 1128	40.6%	2.46
	SAC4: 263	34.7%	2.88
(*) IF USED	COUNTING EQUIPMENT (BETA)		BKG
	INST: S/N	EFF	
*	TENN: 13295	49.9%	2.0
	MS-2: 1848	26.4%	3.8
	BC-4: 808	16.9%	5.92

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.		SMALLER LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Vent 3 (W)	N/A	N/A	N/A	N/A	256	205	2	239	-0.264	-2.49	
" 1 (W)	"	"	"	"	385	325	3	254	7.506	-2.49	
" 2 (S)	"	"	"	"	297	225	1	280	-0.264	-2.49	
			*								

FORM SERIAL #: 4-027 (Survey Section - Sequential survey #)	LOCATION # 4-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0295	SURVEY SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

3/2/93
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\040301V.XLD
 Batch Ended: 3/2/93 11:39
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 4-3-1 ventilation internals

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/2/93 11:38
2	7.506	7.94	At AL	28.10	-2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	3/2/93 11:39
3	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/2/93 11:39

(*)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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	264
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/4/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
Louver #2	N/A	@ 5.6 m.	N/A	N/A	344	300	2	241	-0.264	3.59	West Wall
Louver #5	"	@ 13.6 m.	"	"	337	300	2	252	-0.264	-2.49	"
Louver #6	"	@ 15.6 m.	"	"	480	325	3	283	-0.264	3.41	"

LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\040501V.XLD
 Batch Ended: 3/4/93 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: MTS ventilation- internal

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
31	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 10:30
32	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 10:30
33	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/4/93 10:31

APPENDIX G

RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR SCANS

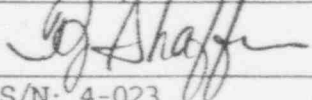
DECOMMISSIONING SURVEY SCAN DATA SHEET

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	1588-L	34.3%		2.91
	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	1345	3.3
	E-520	5242	OOS	OOS	OOS
	E-520	5245	20.5%		4.87

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile	50%	1548	1375	4-2-1	IV	Background 1345
"	50%	1480	1350	4-3-1	IV	" 1370
"	60%	1820	1550	4-4-1	IV	" 1587
"	75%	1880	1700	4-4-2	IV	" 1600
"	50%	1520	1475	4-4-3	IV	" 1410
"	70%	1420	1370	4-4-4	IV	" 1500
"	90%	1524	1400	4-5-7	III	" 1368
"	60%	1523	1475	4-5-1	III	" 1454

REMARKS: SURVEY CLASSIFICATION (Group I, II, III, IV) (Install in column above)	LOCATION CODE DEFINED (Survey Sec - Unit - Subunit) (Install in column above)	SURVEYOR: TS SIGNATURE: 	SURVEY DATE: 2/23/93
		FORM S/N: 4-023 (Survey Section-Sequential #)	DISK FILE CODE: SDS-0023

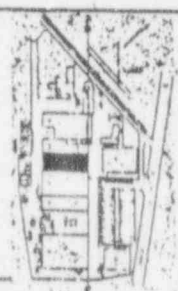
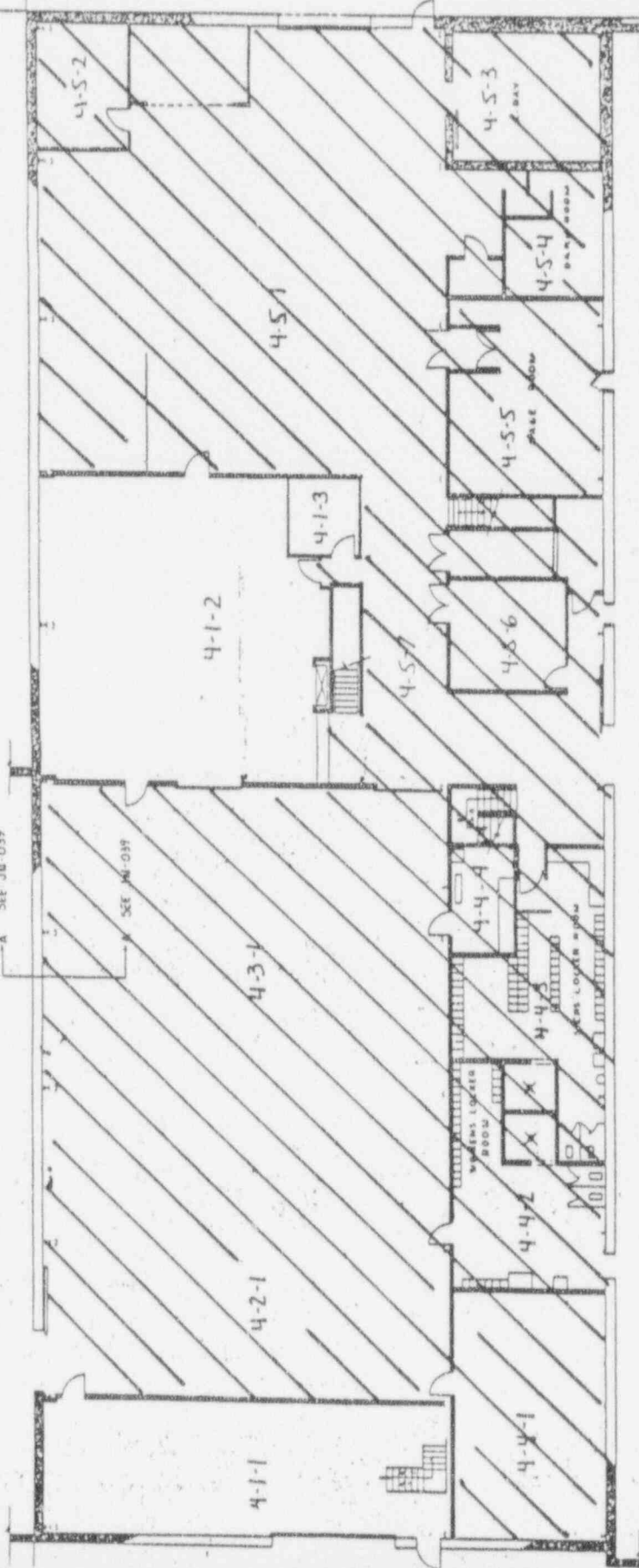
BUILDING REF LINE SEE JN-030

SEE: JM-012

N
MATCH LINE
S

A SEE JU-039

SEE JM-039



REV	DATE	DESCRIPTION	BY	CHK	APP	DATE	DESCRIPTION	BY	CHK	APP
1										
2										
3										
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7										

NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
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NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
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NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
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NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
1						
2						
3						
4						
5						
6						
7						

LEGEND

BRICK
CONCRETE
CORNER BLOCK EXT
CORNER BLOCK INT
DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
1						
2						
3						
4						
5						
6						
7						

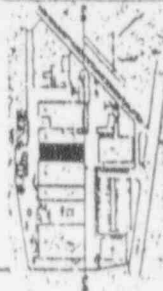
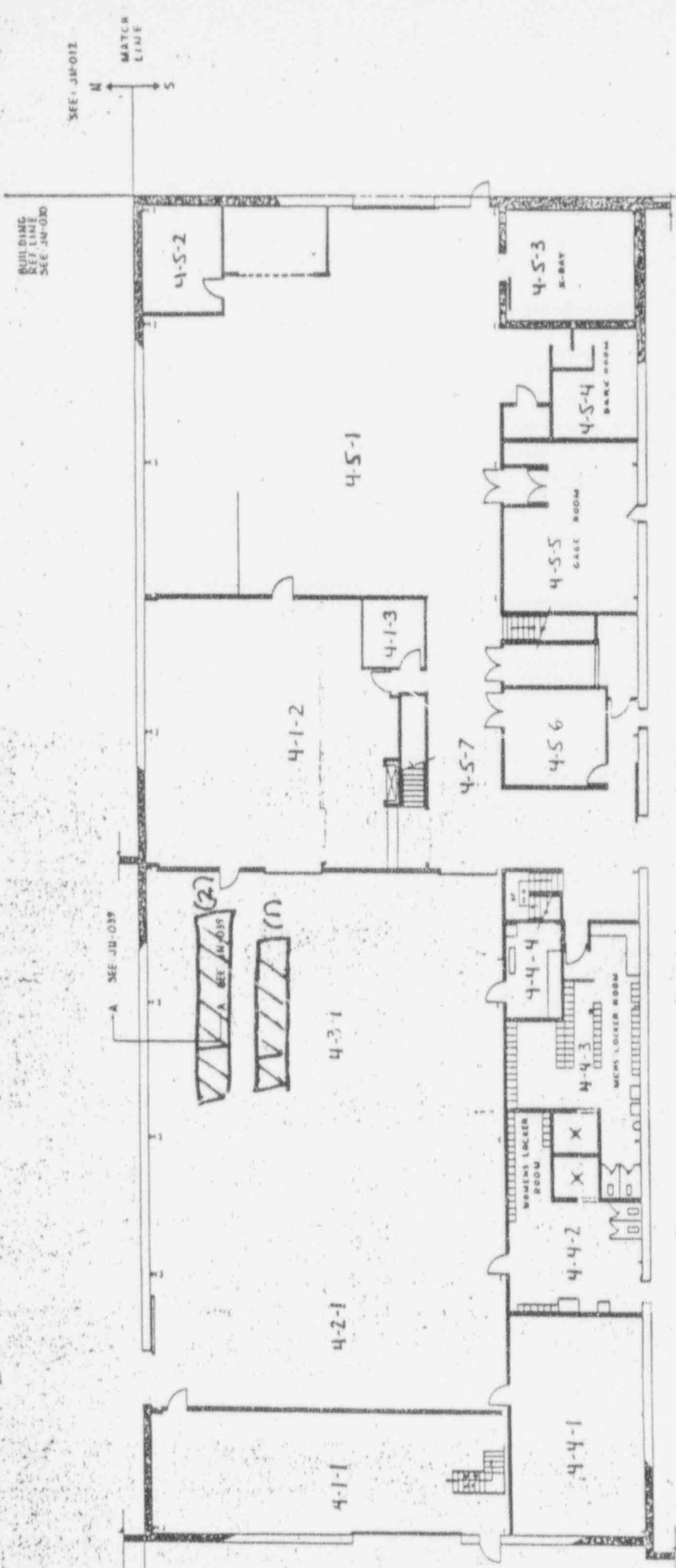
NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
1						
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NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
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7						

NO.	REV.	DATE	DESCRIPTION	BY	CHK	APP.
1						
2						
3						
4						
5						
6						
7						

Wachigaster Advanced Energy Systems Division
FIRST FLOOR
BUILDING N° 6
WAESD LARGE, PA

DATE: JN-011-A
SCALE: 1/4" = 1'-0"
BY: [Signature]
CHECKED: [Signature]



NO.	QTY	DESCRIPTION	UNIT	AMOUNT	PRICE	TOTAL
PARTS LIST						
1	1	CONTRACT NO.	4-5-1			
2	1	CONTRACT NO.	4-5-2			
3	1	CONTRACT NO.	4-5-3			
4	1	CONTRACT NO.	4-5-4			
5	1	CONTRACT NO.	4-5-5			
6	1	CONTRACT NO.	4-5-6			
7	1	CONTRACT NO.	4-5-7			
8	1	CONTRACT NO.	4-5-8			
9	1	CONTRACT NO.	4-5-9			
10	1	CONTRACT NO.	4-5-10			
11	1	CONTRACT NO.	4-5-11			
12	1	CONTRACT NO.	4-5-12			
13	1	CONTRACT NO.	4-5-13			
14	1	CONTRACT NO.	4-5-14			
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96	1	CONTRACT NO.	4-5-96			
97	1	CONTRACT NO.	4-5-97			
98	1	CONTRACT NO.	4-5-98			
99	1	CONTRACT NO.	4-5-99			
100	1	CONTRACT NO.	4-5-100			

LEGEND
 E-3-2 BRICK
 E-3-3 CONCRETE BLOCK EXT
 CONCRETE BLOCK INT
 DRYWALL & PANELING
 SCALE: FEET
 0 5 10 15 20 25

Westinghouse Advanced Energy Systems Division
 Pittsburgh, Pennsylvania
 FIRST FLOOR
 BUILDING N° 6
 WAESD LARGE, PA
 DRAWING NO. JN-011
 DATE 14683
 SCALE 1/4" = 1'-0"

1 2 3 4 5 6 7

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY

OF BUILDING NUMBER 11

(SURVEY SECTION 28I)

MARCH 15, 1993

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

REPORT #018

"OFFICIAL RECORD COPY"

ML 10

117646

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY

OF BUILDING NUMBER 11

(SURVEY SECTION 28I)

MARCH 15, 1993

WESTINGHOUSE ELECTRIC CORPORATION

LARGE, PA

REPORT #018

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ML 10

117646

FINAL RADIOLOGICAL SURVEY
OF BUILDING NUMBER 11
(SURVEY SECTION 28I)

TABLE OF CONTENTS

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

FINAL RADIOLOGICAL SURVEY
OF BUILDING NUMBER 11
(Survey Section 28I)

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 11 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 11 on the site. Figure 2 presents the floor plan for the building. This building has been designated as Survey Section 28I. (See Report #009). In addition, the building was subdivided into two units and subunits as shown on Figure 2. Each area has been assigned a Survey Classification of Class I as defined in Report #009. Historically, there has been no known use of radioactive material in this building.

Appendices A and B incorporate all of the radiological survey data sheets for each of the two survey units. Tables 1 and 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.

Current Status

Building 11 is an occupied area. It is anticipated that use of this building will continue throughout the project. No radioactive material is utilized and no such use is 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 this building to become contaminated after the surveys which have been made and documented in this report as there is no further use of radioactive material on the site.

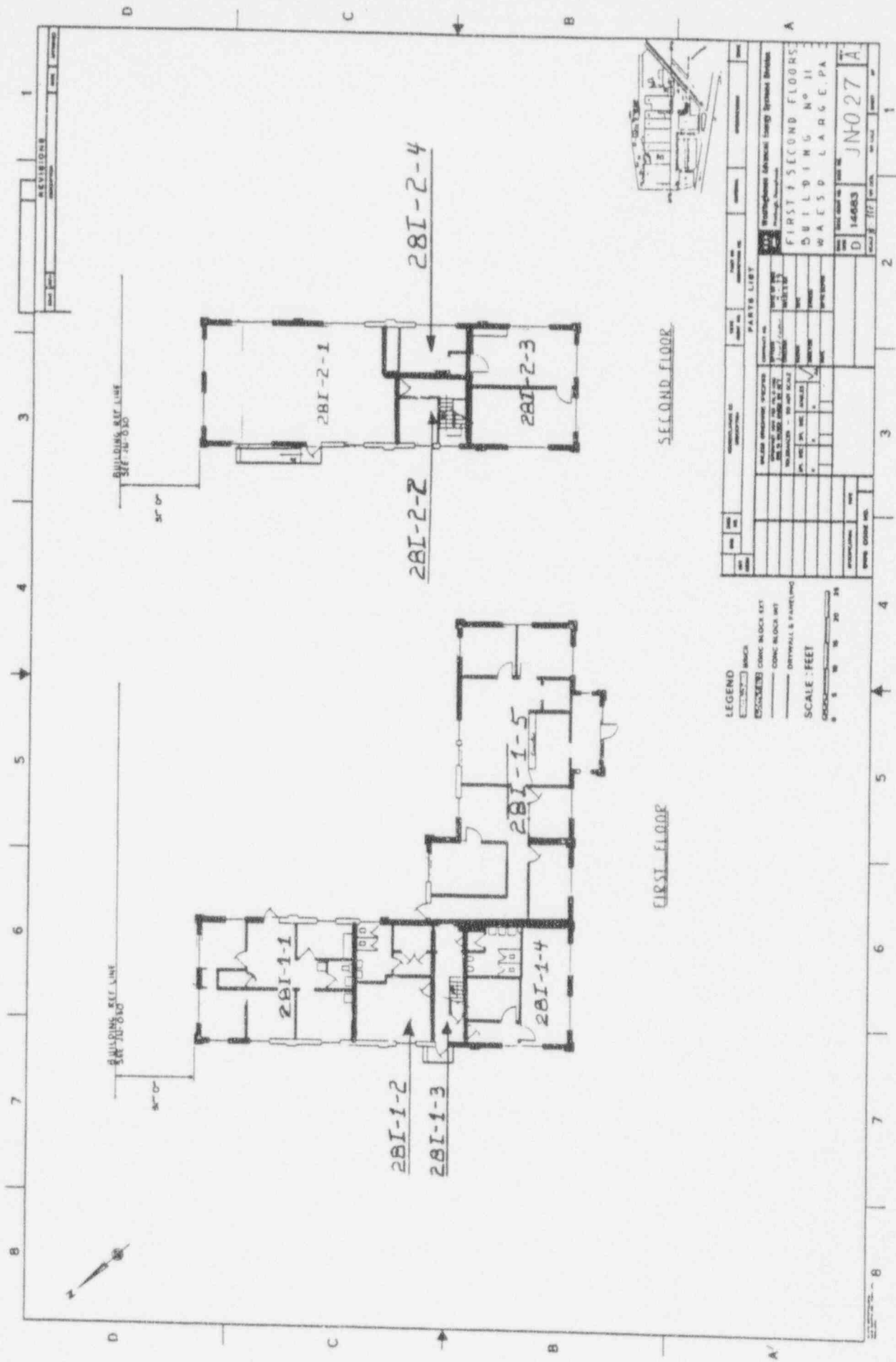


FIGURE 2
FLOOR PLAN - BUILDING 11

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #11 (SECTION 2B1, UNIT 2)

?	?	?	X, Y	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE	@1 METER	ON CONTACT	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	West Wall	N/A	1, -.7	281-2-1	13	0.020	683.9	273.5	4.3	227.0	-0.26	9.21
?	"	"	2, -.7	281-2-1	14	0.010	515.1	389.9	8.7	232.8	-0.26	-2.49
?	"	"	4, -.7	281-2-1	13	0.010	317.2	157.1	17.3	229.9	-0.26	-2.49
?	"	"	6, -.7	281-2-1	13	0.010	474.3	302.6	8.7	229.9	-0.26	-2.49
?	"	"	7, -.7	281-2-1	14	0.010	401.6	157.1	-4.3	340.5	-0.26	3.41
?	"	"	10, -.1	281-2-1	15	0.010	293.9	98.9	8.7	81.5	-0.26	3.59
?	East Wall	"	2, -.1	281-2-1	12	0.020	241.5	98.9	8.7	215.3	-0.26	-2.49
?	"	"	4, -.7	281-2-1	13	0.010	558.7	302.6	13.0	317.2	-0.26	3.41
?	"	"	5, -.7	281-2-1	14	0.010	500.5	273.5	13.0	186.2	-0.26	-2.49
?	"	"	6, -.7	281-2-1	14	0.010	855.5	302.6	-4.3	288.1	-0.26	-2.49
?	"	"	8, -.1	281-2-1	14	0.010	343.4	98.9	17.3	142.6	-0.26	3.59
?	"	"	10, -.7	281-2-1	13	0.010	410.3	215.3	13.0	174.7	-0.26	3.59
?	West Window	"	10, -1.9	281-2-1	15	0.010	1201.8	1030.1	21.7	1111.8	-0.26	-2.49
?	North Window	"	2, -1.9	281-2-1	14	0.010	1559.8	1102.9	39.0	1166.9	-0.26	-2.49
?	East Window	"	2, -1.9	281-2-1	13	0.010	1105.8	739.1	8.7	1015.6	-0.26	3.41
?	West Wall	N/A	10, -.7	281-2-2			296.8	128.0	0.0	116.4	-0.26	-2.49
?	"	"	11, -.1	281-2-2			375.4	98.9	0.0	87.3	-0.26	-2.49
?	"	"	8, -.7	281-2-2			343.4	215.3	4.3	221.2	-0.26	-2.49
?	East Wall	N/A	6, -.7	281-2-3			337.5	157.1	8.7	151.3	-0.26	-2.49
?	"	"	8, -.1	281-2-3			157.1	98.9	4.3	253.2	-0.26	-2.49
?	"	"	10, -.7	281-2-3			512.2	273.5	8.7	264.8	-0.26	3.41
?	South Wall	"	2, -.1	281-2-3			381.2	229.9	21.7	98.9	-0.26	-2.49
?	"	"	3, -.7	281-2-3			477.2	302.6	26.0	206.6	-0.26	3.41
?	"	"	4, -.1	281-2-3			680.9	273.5	21.7	203.7	-0.26	-2.49
?	"	"	6, -.7	281-2-3			494.7	157.1	43.3	165.9	-0.26	-2.49
?	West Wall	"	1, -.7	281-2-3			552.9	302.6	13.0	171.7	-0.26	-2.49
?	"	"	2, -.1	281-2-3			392.9	157.1	17.3	139.7	-0.26	-2.49
?	"	"	4, -.7	281-2-3			122.2	11.6	17.3	148.4	-0.26	-2.49
?	"	"	5, -.7	281-2-3			401.6	229.9	17.3	154.2	-0.26	-2.49
?	East Window	"	8, -1.9	281-2-3			1551.0	1321.1	56.3	1015.6	-0.26	-2.49
?	South Window	"	2, -1.9	281-2-3			1728.5	1393.9	69.3	1059.2	-0.26	3.59

TABLE 3
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 28I - BUILDING 11)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** SURVEY TYPE = GAMMA DOSERATE AT 1 METER FROM SURFACE						
28I-1	36	8.000	14.000	11.220	1.420	MicroR/hour
28I-2	15	12.000	15.000	13.600	0.800	MicroR/hour
** Subtotal **	51					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
28I-1	36	0.010	0.020	0.011	0.003	MilliRem/hour
28I-2	15	0.010	0.020	0.011	0.003	MilliRem/hour
** Subtotal **	51					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
28I-1	36	-26.400	203.900	79.100	50.400	DPM/100 cm ²
28I-2	36	122.200	1850.800	661.300	487.100	DPM/100 cm ²
** Subtotal **	72					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
28I-1	36	-107.900	76.000	5.800	42.900	DPM/100 cm ²
28I-2	36	11.600	1466.600	417.800	429.800	DPM/100 cm ²
** Subtotal **	72					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
28I-1	36	-7.300	20.800	5.700	6.200	DPM/100 cm ²
28I-2	36	-4.300	69.300	18.600	18.000	DPM/100 cm ²
** Subtotal **	72					
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
28I-1	36	-86.400	96.700	16.300	42.800	DPM/100 cm ²
28I-2	36	26.200	1268.800	379.000	373.500	DPM/100 cm ²
** Subtotal **	72					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
28I-1	36	-0.260	7.740	-0.040	1.320	DPM/100 cm ²
28I-2	36	-0.260	7.510	-0.050	1.280	DPM/100 cm ²
** Subtotal **	72					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
28I-1	36	-2.490	9.660	0.990	3.560	DPM/100 cm ²
28I-2	36	-2.490	9.660	0.160	3.840	DPM/100 cm ²
** Subtotal **						

TABLE 3
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 28I - BUILDING 11)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD UNITS DEVIATION
	72				
*** Total ***	534				

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 1

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	11	*	FLMON:91943	28.8%	3.47	1255

SURVEY DATE: 3/10/93
COUNT DATE: 3/10/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/M	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.86	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	4, -4	11	.01	1510	1350	15	1316	-0.264	3.41	
"	"	6, -4	10	.01	1372	1260	16	1238	-0.264	9.31	
"	"	6, -2	13	.01	1466	1290	12	1355	-0.264	-2.49	
"	"	2, -2	11	.015	1352	1240	16	1263	-0.264	-2.49	
"	"	2, -4	12	.01	1374	1290	19	1316	-0.264	-2.49	
"	"	6, -8	10	.01	1367	1280	17	1290	7.741	-2.49	
"	"	2, -8	9	.01	1332	1220	23	1211	-0.264	3.59	
"	"	2, -6	10	.01	1371	1290	21	1283	-0.264	3.59	
"	"	6, -6	11	.01	1342	1280	28	1301	-0.264	9.66	
"	"	4, -6	10	.01	1431	1350	15	1322	-0.264	-2.49	

FORM SERIAL #: 281-001 (Survey Section - Sequential survey #)	LOCATION # 281-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0327	SURVEYOR SIGNATURE: <i>[Signature]</i>
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[Handwritten Signature]

LB5100W Low Background Counting System – Smear Analysis

Date: 3/10/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\2810101.XLD
 Batch Ended: 3/10/93 14:18
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

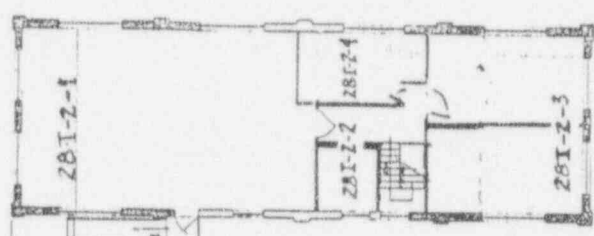
Batch ID: TSB - 281 - 1 - 1 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:14
2	0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	0.100	4.64	3/10/93 14:14
3	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/10/93 14:15
4	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/10/93 14:15
5	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/10/93 14:16
6	7.741	8.17	At AL	28.84	2.49	3.93	<MDA	34.63	0.33	2.930	-1.24	3/10/93 14:16
7	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 14:17
8	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 14:17
9	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	3/10/93 14:18
10	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/10/93 14:18

REVISIONS

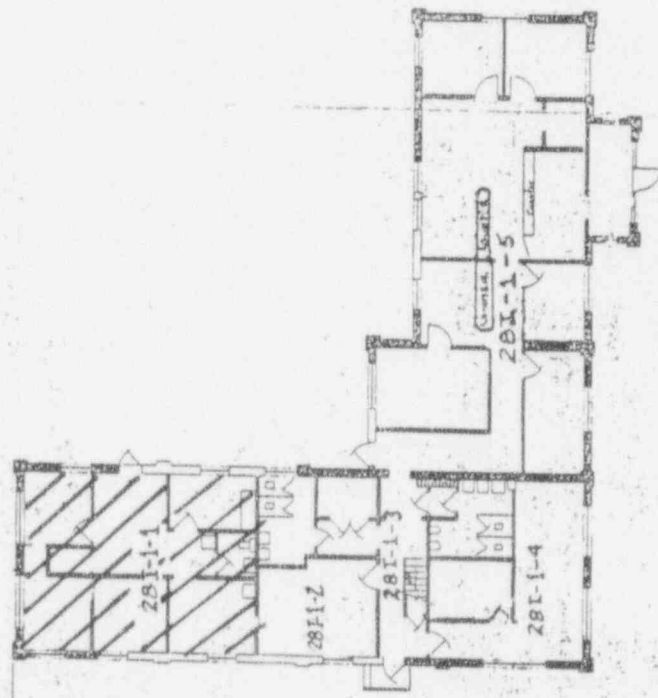
NO.	DATE	DESCRIPTION

BUILDING REF. LINE
SEE 31-0-30



SECOND FLOOR

BUILDING REF. LINE
SEE 31-0-30



FIRST FLOOR

BLDG. II SURVEY 28I-1 & 28I-2
CLASSIFICATION 1



LEGEND
 CONCRETE CONCRETE BLOCK EST.
 CONCRETE BLOCK INT.
 METAL & WOODWORK
 SCALE: FEET
 0 5 10 15 20 25 30 35

DATE	BY	DESCRIPTION

UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE IN FEET AND INCHES
 UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE IN FEET AND INCHES

CONTRACT NO.	DATE OF DRAWING	PROJECT NAME

WASHBURN ENGINEERING SYSTEMS DIVISION
 100 WASHINGTON ST.
 WASHINGTON, D.C. 20004

DATE	NO.	BY	CHKD.

NO. 14663
 JUN 29 1964

(*)IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		(*)IF USED	BETA SURVEY EQUIPMENT	
	INST: S/N	EFF C.F.	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			
	ESP2:1601-L	23.1% 4.33	ESP2:1588-L	34.3% 2.91			
	ESP2:		ESP2:				
	ESP2:		E520: 5242	20.3% 4.92			
	ASP1: 1091	19.1% 5.23	E520: 5245				
	PAC46:4478	18.5% 5.4	PAC46:4478	33.5% 3.0			
*	FLMON: 15	8.8% 5.3	FLMON:91943	28.8% 3.47	*		1255

SURVEY DATE: 3/10/93
COUNT DATE: 3/10/93

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

(*)IF USED	COUNTING EQUIPMENT (ALPHA)		BKG
	INST: S/N	EFF C.F.	
*	TENN: 13295	37.8% 2.64	0.1
	SAC4: 1128	40.6% 2.46	
	SAC4: 263	34.7% 2.88	
COUNTING EQUIPMENT (BETA)			
(*)IF USED	COUNTING EQUIPMENT (BETA)		BKG
	INST: S/N	EFF C.F.	
*	TENN: 13295	49.9% 2.0	1.24
	MS-2: 1848	26.4% 3.8	
	BC-4: 808	16.9% 5.92	

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	BETA	ALPHA	BETA	ALPHA	BETA		
Floor Tile	N/A	2, -2	11	.01	1413	1340	1298	11	11	-0.264	3.41		
"	"	2, -4	11	.01	1301	1260	1197	19	19	-0.264	3.41		

FORM SERIAL #: 281-002 (Survey Section - Sequential survey #)	LOCATION # 281-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0328	SURVEYOR SIGNATURE: <i>[Signature]</i>
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[Handwritten Signature]

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/10/93
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\2810102.XLD
 Batch Ended: 3/10/93 14:19
 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: 1435
 Application Revision: 2
 Application Version: Standard

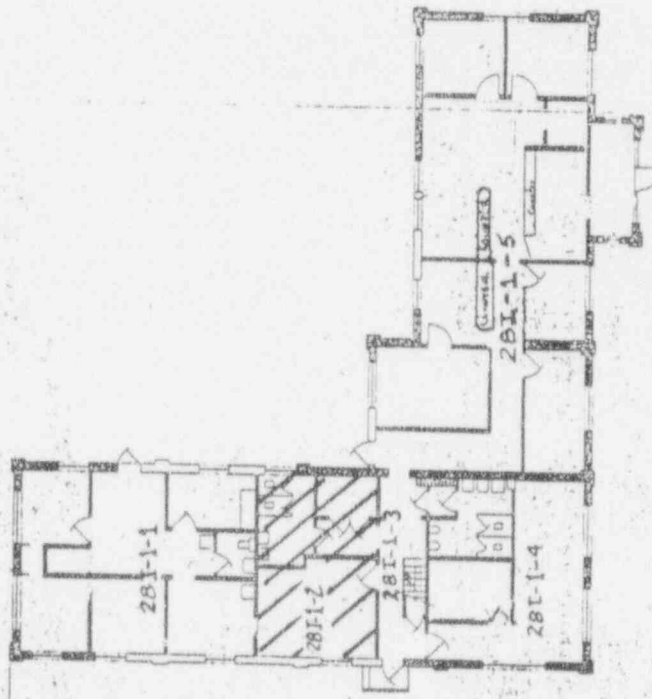
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 281-1-2 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
11	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:19
12	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:19

BUILDING REF LINE
SEE 'JU-030

3'-0"

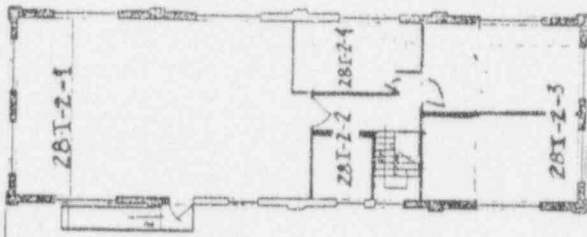


FIRST FLOOR

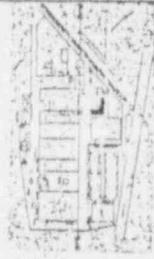
Bldg II SURVEY 28I-1 & 28I-2
CLASSIFICATION I

BUILDING REF LINE
SEE 'JU-030

3'-0"



SECOND FLOOR



LEGEND

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

SCALE FEET

0 5 10 15 20 25 30 35

REV	DATE	DESCRIPTION	BY	CHKD

CONTRACT NO.	CONTRACT DATE	CONTRACT TITLE	CONTRACT VALUE

REV	DATE	DESCRIPTION	BY	CHKD

NO.	DATE	DESCRIPTION	BY	CHKD

NO.	DATE	DESCRIPTION	BY	CHKD

NO.	DATE	DESCRIPTION	BY	CHKD

NO.	DATE	DESCRIPTION	BY	CHKD

NO.	DATE	DESCRIPTION	BY	CHKD

Westinghouse Advanced Energy Systems Division
 FIRST SECOND FLOORS
 BUILDING NO. 28I-1
 W.A.C.S.D. L.A.R.G.E.P.A.

DWG NO. JN024-A
 SCALE 1/4" = 1'-0"
 14683
 DATE 06/01/68

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	11	*	FLMON:91943	28.8%	3.47	1255

SURVEY DATE: 3/10/93
COUNT DATE: 3/10/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	1, -1	9	.01	1278	1170	15	1278	-0.264	-2.49	
"	"	4, -1	8	.01	1232	1160	12	1147	-0.264	-2.49	
"	"	6, -1	9	.01	1222	1120	8	1179	-0.264	-2.49	

FORM SERIAL #: 281-003 (Survey Section - Sequential survey #)	LOCATION # 281-1-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0329	SURVEYOR SIGNATURE: TB/LS
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Handwritten signature: Fred W. ...

LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 1435

Date: 3/10/93

Counting Unit id: 1

Data file name: C:\EXL\UNIT1\2810103.XID

Batch Ended: 3/10/93 14:21

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

Application Version: Standard

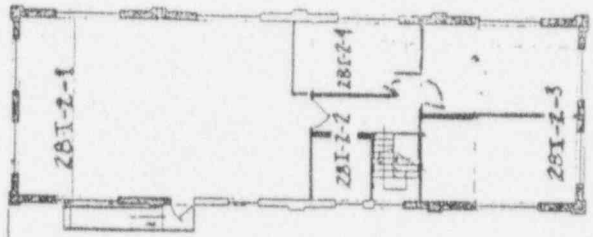
Batch ID: TSB 281-1-3 floor

Carrier	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Correction Factor
	DPM	σ	Flags	MDA	DPM	σ				
13	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-1.24	3/10/93 14:20
14	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-1.24	3/10/93 14:20
15	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-1.24	3/10/93 14:21

REVISIONS

BUILDING REF. LINE
SEE JN 0-50

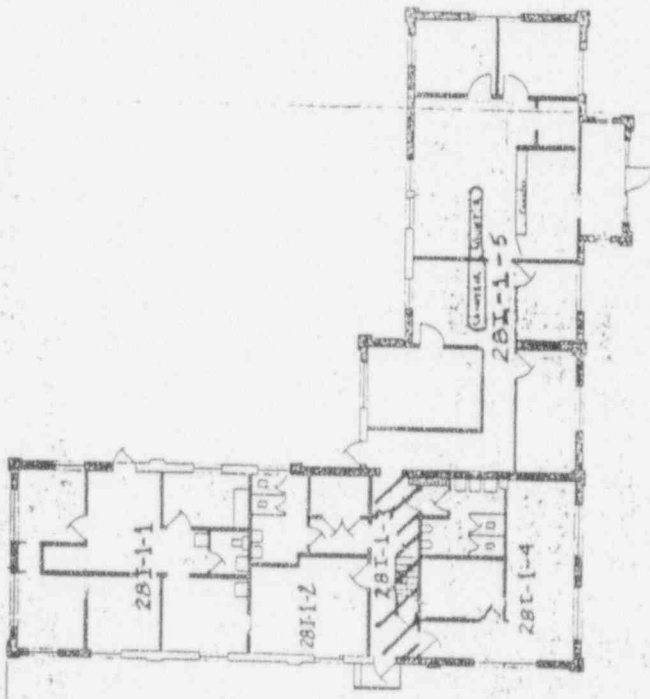
51' 0"



SECOND FLOOR

BUILDING REF. LINE
SEE JN 0-50

51' 0"



FIRST FLOOR

Bldg. II SURVEY 28I-1 & 28I-2
CLASSIFICATION 1



REV.	DATE	BY	CHKD.	DESCRIPTION
D	14683			

DATE	BY	CHKD.	NO.
JUN 24			A

DATE	BY	CHKD.	NO.
JUN 24			A

LEGEND

- CONCRETE BLOCK
- CONCRETE BLOCK EXY
- CONCRETE BLOCK INT
- DRYWALL & PARTITION

SCALE: FEET

0 5 10 15 20 25

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
PARTS LIST					
1	WELLS APPROXIMATE SPECIFIED				
2	CONCRETE BLOCK EXY				
3	CONCRETE BLOCK INT				
4	DRYWALL & PARTITION				

Weldgloss Advanced Energy Systems Division
FIRST & SECOND FLOORS
BUILDING NO. 11
W. A. S. I. D. L. A. R. G. E. P. 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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	11	*	FLMON:91943	28.8%	3.47	1255

SURVEY DATE: 3/10/93
COUNT DATE: 3/10/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
	ES20: 5242	mr/hr
*	ES20: 5245	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	

COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -3	11	.01	1349	1230	9	1204	-0.264	-2.49	
"	"	1, -5	13	.01	1362	1270	7	1295	-0.264	-2.49	
"	"	2, -7	9	.01	1376	1340	5	1331	-0.264	3.41	
"	"	4, -7	12	.01	1477	1330	12	1308	-0.264	3.59	
"	"	6, -7	11	.01	1365	1300	10	1368	-0.264	3.59	
"	"	1, -3	12	.015	1393	1300	7	1303	-0.264	3.59	

FORM SERIAL #: 28 I-004 (Survey Section - Sequential survey #)	LOCATION # 28 I-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0330	SURVEYOR SIGNATURE: TB/LS
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Handwritten signature: Fred Bertolino

LB5100W Low Background Counting System – Smear Analysis

Date: 3/10/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\2810104.XLD
 Batch Ended: 3/10/93 14:24
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: p0210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

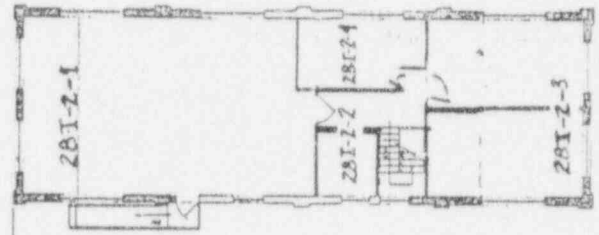
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 281 1-4 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
16	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 14:22
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 14:22
18	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:23
19	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 14:23
20	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 14:24
21	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 14:24

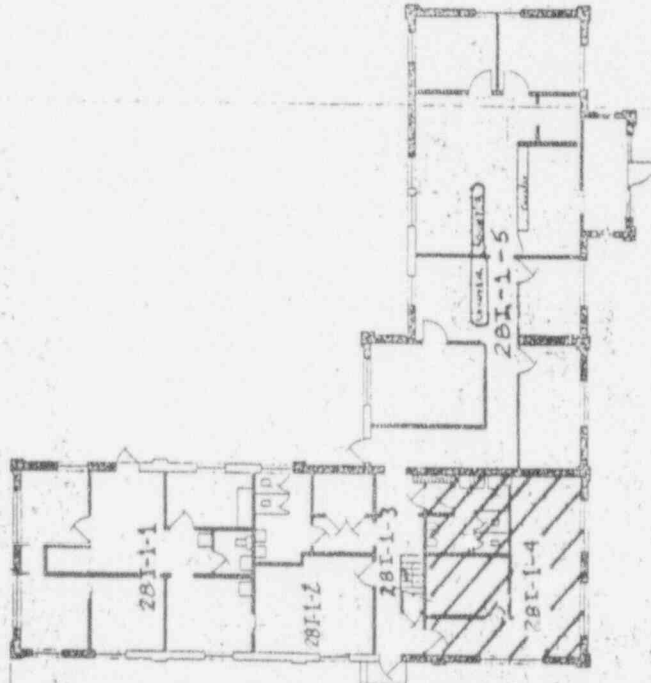
REV.	DATE	REVISIONS

BUILDING REF. LINE
SEE JN-030



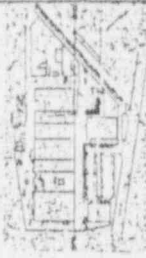
SECOND FLOOR

BUILDING REF. LINE
SEE JN-030



FIRST FLOOR

Bldg II Survey 28I-1 & 28I-2
CLASSIFICATION 1



REV.	DATE	REVISIONS

NO.	DATE	BY	SCALE	NO. DATE	REV.
D	14683			JN024	A

NO.	DATE	BY	SCALE	NO. DATE	REV.
D	14683			JN024	A

NO.	DATE	BY	SCALE	NO. DATE	REV.
D	14683			JN024	A

LEGEND

- BRICK
- CONC BLOCK EXT.
- CONC BLOCK INT.
- DRYWALL & PANELING
- SCALE: FEET
- 0 10 20 30

MADESS INTERIORS INCORPORATED
 1000 W. 10th St. Suite 100
 Lincoln, NE 68502
 (402) 441-1111

WALSH ENGINEERING INCORPORATED
 1000 W. 10th St. Suite 100
 Lincoln, NE 68502
 (402) 441-1111

WEDGHEUSE Advanced Energy Systems Division
 Wedgheuse, Pennsylvania

FIRST & SECOND FLOORS
 BUILDING NO. 11
 WAREHOUSE LARG E.P.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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	11	*	FLMON:91943	28.8%	3.47	1375

SURVEY DATE: 3/10/93
COUNT DATE: 3/10/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	1, -2	13	.015	1520	1430	12	1496	-0.264	3.41	
"	"	1, -4	12	.01	1402	1370	19	1377	-0.264	3.41	
"	"	3, -5	13	.01	1584	1450	15	1463	-0.264	3.41	
"	"	5, -5	12	.01	1466	1350	19	1368	-0.264	3.59	
"	"	7, -5	10	.01	1396	1320	18	1326	-0.264	2.49	
"	"	9, -5	11	.02	1421	1340	19	1387	-0.264	3.41	
"	"	11, -5	11	.01	1438	1380	21	1352	-0.264	-2.49	
"	"	11, -3	13	.02	1439	1340	18	1378	-0.264	-2.49	
"	"	9, -3	11	.01	1425	1360	25	1350	-0.264	3.41	
"	"	13, -3	14	.02	1455	1390	17	1422	-0.264	-2.49	
"	"	13, -5	11	.01	1463	1400	20	1387	-0.264	-2.49	
"	"	15, -3	12	.01	1430	1310	14	1408	-0.264	-2.49	
"	"	15, -5	13	.01	1478	1380	20	1416	-0.264	3.41	
"	"	5, -3	12	.01	1446	1350	15	1330	-0.264	3.41	
"	"	3, -3	13	.01	1495	1400	16	1449	-0.264	-2.49	

FORM SERIAL #: 28 I-005 (Survey Section - Sequential survey #)	LOCATION # 28 I-1-5 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: 1 (Group I, II, III, IV)	DISK FILE CODE: FDS-0331	SURVEYOR SIGNATURE: TB/LS <i>Jerry [Signature]</i>
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Jerry [Signature]

LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency log file: po210.ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 14.75

Date: 3/10/93

Counting Unit id: 1

Data file name: CALDEX UNIT1\2810105.XLD

Batch Entered: 3/10/93 14:32

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137.ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

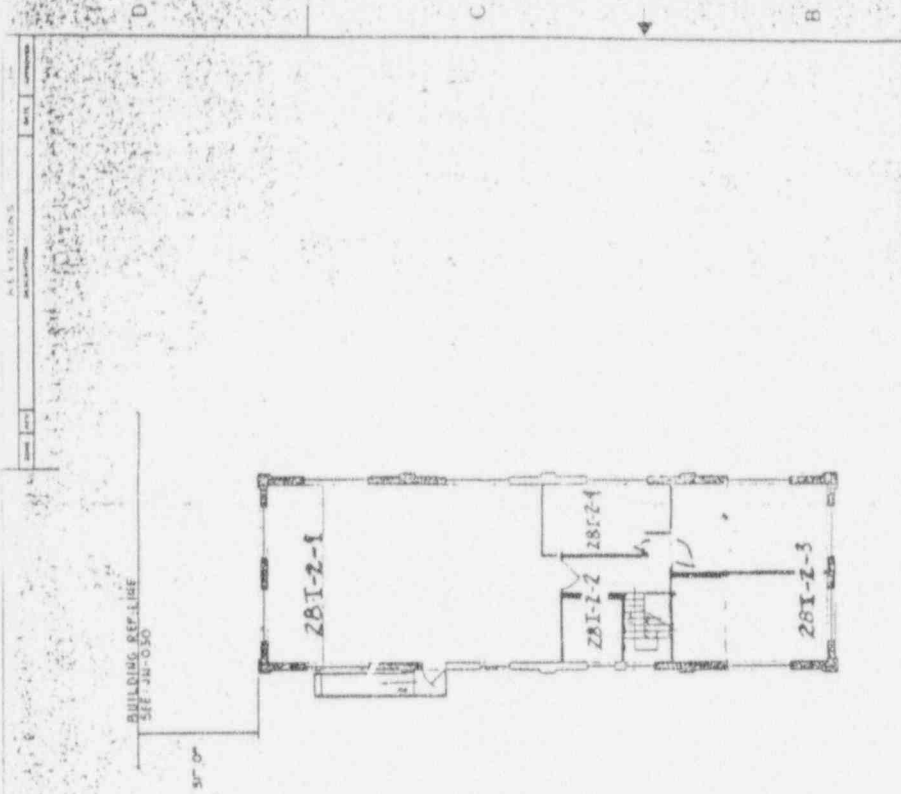
Beta Background (CPM): 1.24

Application Revision: 2

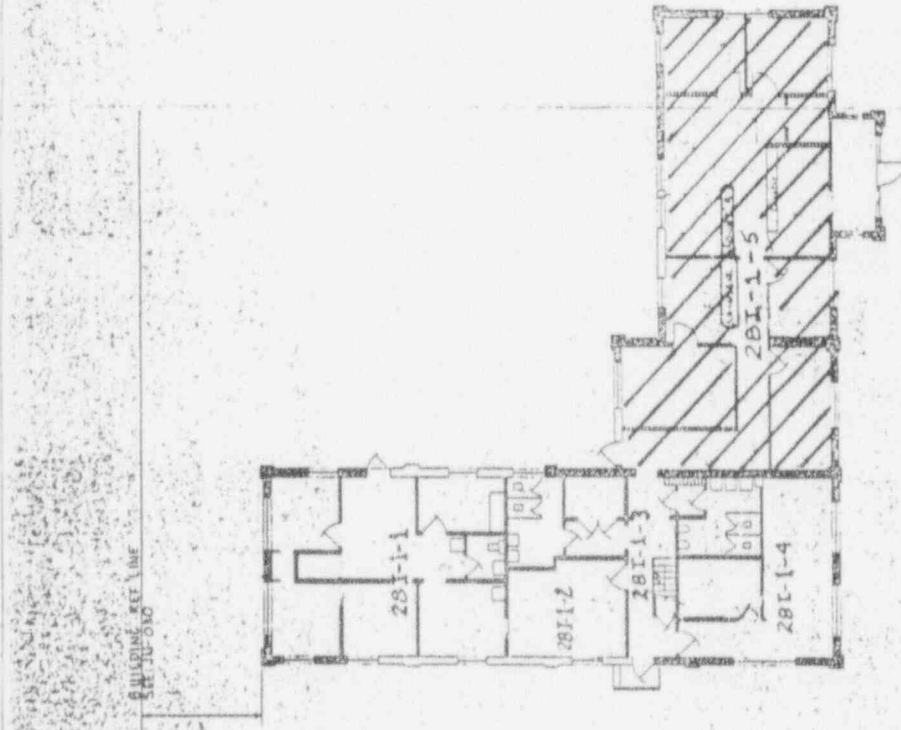
Application Version: Standard

Batch ID: TSB - 281-1.5 floor

Channel	Alpha Activity				Beta Activity				Count Time (min)	Alpha CPM	Beta CPM	Completion TOI
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
22	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:25
23	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:25
24	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:26
25	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.70	3/10/93 14:26
26	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 14:27
27	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:27
28	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 14:28
29	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 14:28
30	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:29
31	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/10/93 14:29
32	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 14:30
33	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/10/93 14:30
34	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:31
35	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 14:31
36	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 14:32

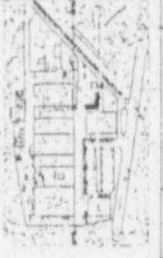


SECOND FLOOR



FIRST FLOOR

Bldg II Survey 2BI-1 & 2BI-2
CLASSIFICATION 1



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 BRICK BRICK
 GYPHALL & PARTITION

SCALE - FEET

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1	JUN 24	REVISED		
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Westphase Advanced Energy Systems Division
 FIRST & SECOND FLOORS
 BUILDING NO. 1116
 W.A.S.D. L.A.R.G.E.P.A.
 DATE: JUN 24
 SHEET NO. 14683
 DRAWING NO. JN024 A

APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 2

REPORT #018

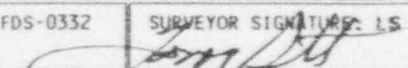
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	246
	ESP2:					ESP2:			
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/10/93
COUNT DATE: 3/10/93

(*)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/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	1, -.7	13	.02	481	340	3	324	-0.264	9.31	Plaster on Brick
"	"	2, -.7	14	.01	423	380	4	326	-0.264	-2.49	"
"	"	4, -.7	13	.01	355	300	6	325	-0.264	-2.49	"
"	"	6, -.7	13	.01	409	350	4	325	-0.264	-2.49	"
"	"	7, -.7	14	.01	384	300	1	363	-0.264	3.41	"
"	"	10, -.1	15	.01	347	280	4	274	-0.264	3.59	"
East Wall	"	2, -.1	12	.02	329	280	4	320	-0.264	-2.49	"
"	"	4, -.7	13	.01	438	350	5	355	-0.264	3.41	"
"	"	5, -.7	14	.01	418	340	5	310	-0.264	-2.49	"
"	"	6, -.7	14	.01	540	350	1	345	-0.264	-2.49	"
"	"	8, -.1	14	.01	364	280	6	295	-0.264	3.59	"
"	"	10, -.7	13	.01	387	320	5	294	-0.264	3.59	"
West Window	"	10, -1.9	15	.01	659	600	7	682	-0.264	-2.49	Ceramic Sill
North Window	"	2, -1.9	14	.01	782	625	11	647	-0.264	-2.49	"
East Window	"	2, -1.9	13	.01	626	500	4	595	-0.264	3.41	"

FORM SERIAL #: 28 1-006 (Survey Section - Sequential survey #)	LOCATION # 28 1-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0332	SURVEYOR SIGNATURE: LS 
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LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crossstalk: 4.92%

Alpha Background (CFM): 0.1

Alpha activity action level (DFM): 10.00

Beta activity action level (DFM): 200.00

Certainty level for MDA and flags: 95.00%

High Voltage Setting: 143E

Beta efficiency log file: c8137ab

Beta Efficiency: 49.85%

Beta into Alpha Crossstalk: 0.36%

Beta Background (CFM): 1.24

Date: 3/10/93

Counting Unit id: 1

Data file name: C:\FOX\DIR11\2810701.XI.D

Batch Endid: 3/10/93 15:26

Crossstalk Correction: Not Applied

Application Revision: 2

Application Version: Standard

Batch ID: TSB 281 2-1 walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CFM	Beta CFM	Completion TOI
	DFM	σ	Flags	MDA	DFM	σ	Flags	MDA				
1	0.264	1.63	<MDA	28.10	9.31	9.29	<AL	33.88	0.34	0.100	4.64	3/10/93 15:18
2	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.74	3/10/93 15:19
3	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 15:19
4	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/10/93 15:20
5	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 15:20
6	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 15:21
7	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 15:21
8	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/10/93 15:22
9	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 15:22
10	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 15:23
11	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 15:23
12	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/10/93 15:24
13	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/10/93 15:24
14	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/10/93 15:25
15	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.79	3/10/93 15:25

NOT NEEDED

LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

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: 1435

Application Revision: 2

Application Version: Standard

Date: 3/10/93

Counting Unit id: 1

Data file name: C:\BXL\UNIT1\2810202.XLD

Batch Ended: 3/10/93 15:28

Crosstalk Correction: Not Applied

Batch ID: 1SB-28122 walls

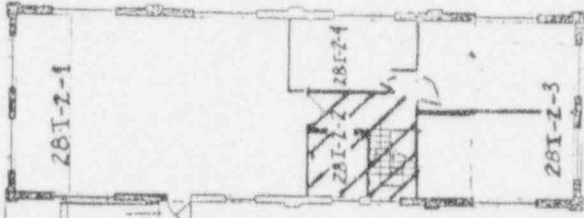
Count	Alpha Activity			Beta Activity			Count	Alpha CPM	Beta CPM	Completion
	DPM	σ	Flags	MDA	DPM	σ				
17	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	3/10/93 15:27
18	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	3/10/93 15:27
19	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	3/10/93 15:28

REVISIONS

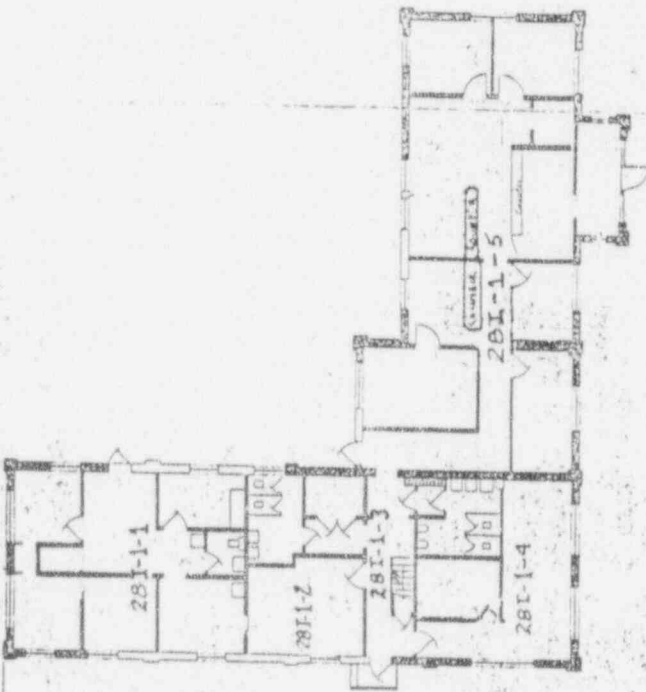
NO.	DATE	DESCRIPTION

BUILDING REF. LINE
SEE SHEET 510

8'-0"



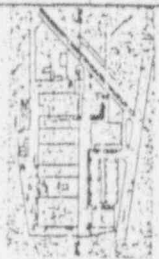
SECOND FLOOR



FIRST FLOOR

FEDS II SURVEY 28I-1 & 28I-2

CLASSIFICATION 1



LEGEND

- BRICK
- CONC BLOCK EXT
- CONC BLOCK INT
- CORNER
- DRY WALL & PARTITION

SCALE: FEET
0 10 20 30

PROJECT TITLE		SHEET NO.		DATE	
Wasteposit Advanced Energy Systems Division		FIRST & SECOND FLOORS		JUN 24 1963	
D. B. WILSON		W. A. S. D.		JNO 24	
ARCHITECT		ENGINEER		D 14683	
SCALE		DATE		BY	
INFORMATION		TYPED		CHECKED	
DWG. CODE NO.		PROJECT NO.		SHEET NO.	

PARTS LIST

NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL

WASTEPPOSIT ADVANCED ENERGY SYSTEMS DIVISION
 1201 UNIVERSITY AVENUE
 MADISON, WISCONSIN 53706
 W. A. S. D. 1201 UNIVERSITY AVENUE
 MADISON, WISCONSIN 53706

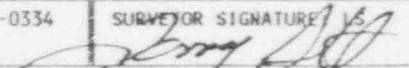
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	246
	ESP2:					ESP2:			
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/10/93
 COUNT DATE: 3/10/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	ES20: 5242	mr/hr
	ES20: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCA% 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	6, -.7	N/A	N/A	362	300	4	298	-0.264	-2.49	Paneling on Brick
"	"	8, -.1	"	"	300	280	3	333	-0.264	-2.49	"
"	"	10, -.7	"	"	422	340	4	337	-0.264	3.41	"
South Wall	"	2, -.1	"	"	377	325	7	280	-0.264	-2.49	"
"	"	3, -.7	"	"	410	350	8	317	-0.264	3.41	"
"	"	4, -.1	"	"	480	340	7	316	-0.264	-2.49	"
"	"	6, -.7	"	"	416	300	12	303	-0.264	-2.49	"
West Wall	"	1, -.7	"	"	436	350	5	305	-0.264	-2.49	"
"	"	2, -.1	"	"	381	300	6	294	-0.264	-2.49	"
"	"	4, -.7	"	"	288	250	6	297	-0.264	-2.49	"
"	"	5, -.7	"	"	384	325	6	299	-0.264	-2.49	"
East Window	"	8, -1.9	"	"	779	700	15	595	-0.264	-2.49	Ceramic Sill
South Window	"	2, -1.9	"	"	840	725	18	610	-0.264	3.59	"
"	"	4, -1.9	"	"	882	750	9	608	-0.264	9.66	"
West Window	"	2, -1.9	"	"	758	650	18	568	7.506	-2.49	"

FORM SERIAL #: 28 I-008 (Survey Section - Sequential survey #)	LOCATION # 28 I-2-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0334	SURVEYOR SIGNATURE: 
---	---	--	--------------------------	---

LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 1435

Beta efficiency log file: es1317d

Beta Efficiency: 49.87%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application: Revisior: 2

Application Version: Standard

Date: 3/10/93

Counting Unit id: 1

Data file name: C:\DDE\MUNIT\12810203.XLD

Batch Endid: 3/10/93 15:35

Cross-talk Correction: Not Applied

Batch ID: TSB - 281 2 3 vials

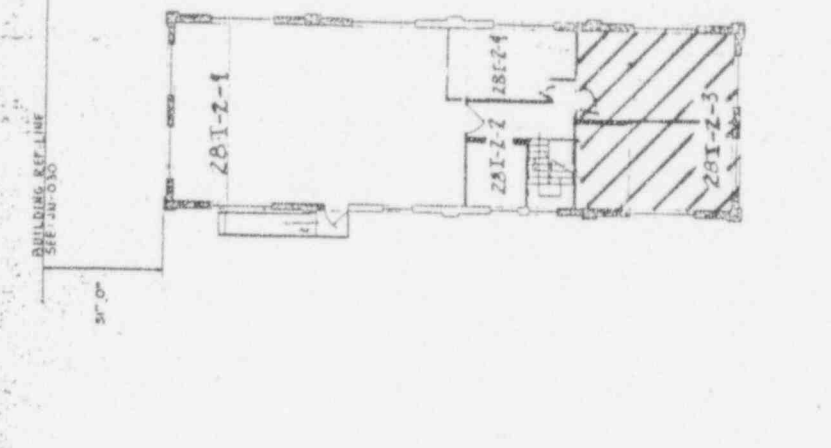
Canister	Alpha Activity				Beta Activity				Count time (min)	Alpha (CPM)	Beta (CPM)	Coincidence (CPD)
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
20	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	310593 15:28
21	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	310593 15:29
22	0.264	1.60	<MDA	26.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	310593 15:29
23	0.264	1.60	<MDA	26.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	310593 15:30
24	0.264	1.60	<MDA	26.10	3.41	7.77	<MDA	33.88	0.34	0.100	1.70	310593 15:30
25	0.264	1.60	<MDA	26.10	2.49	3.66	<MDA	33.88	0.34	0.100	1.24	310593 15:31
26	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	310593 15:31
27	0.264	1.60	<MDA	26.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	310593 15:32
28	0.264	1.60	<MDA	26.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	310593 15:32
29	0.264	1.60	<MDA	26.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	310593 15:33
30	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	310593 15:33
31	0.264	1.63	<MDA	26.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	310593 15:34
32	0.264	1.63	<MDA	26.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	310593 15:34
33	0.264	1.63	<MDA	26.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	310593 15:35
34	1.506	1.94	At AL	26.10	2.49	3.87	<MDA	33.88	0.34	2.841	1.24	310593 15:35

REVISIONS



FIRST FLOOR

BLDG. # SURVEY 28I-1 & 28I-2
CLASSIFICATION 1



SECOND FLOOR

BUILDING REF. LINE
SEE 40-030

BUILDING REF. LINE
SEE 40-030



NO.	DATE	BY	DESCRIPTION

DATE	14683	BY	
CHECKED		DATE	
NO. 24			

NO.	DATE	BY	DESCRIPTION

LEGEND

CONCRETE CONCRETE BLOCK EXT. CONCRETE BLOCK INT. DRYWALL & PARTITION

SCALE: FEET

0 5 10 15 20 25

RECALCULATED BY ENERGY SYSTEMS DIVISION

FIRST SECOND FLOORS

DUBLINO

W.A.S.D. L.A.R.G. E.P.A.

LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CFM): 0.1

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CFM): 1.24

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: 14.75

Application Revision: 2

Application Version: Standard

Batch ID: ISB_288_2_4_walls

Carried	Alpha Activity			Beta Activity			Count Time (min)	Alpha CFM	Beta CFM	Calculation LOD
	DPM	σ	Flags	MDA	DPM	σ				
35	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	3/10/93 15:36
36	0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	4.64	3/10/93 15:36
37	0.264	1.60	<MDA	26.10	3.41	7.96	<MDA	33.88	1.70	3/10/93 15:37

Crosstalk Correction: Not Applied

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 9
(SURVEY SECTION 10)

March 17, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

Report #020

"OFFICIAL RECORD COPY" ML 10

117646

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

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(SURVEY SECTION 10)

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FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 9
(SURVEY SECTION 10)

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FINAL RADIOLOGICAL SURVEY
OF THE FIRST FLOOR OF BUILDING NUMBER 9
(Survey Section 10)

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 9 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 9 (Survey Section 28G) will be documented in Report #022. Report #010 presents the radiological survey data for the pipe chases which run throughout the first floor of this building.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 9 on the site. Figure 2 presents the floor plan for the first floor of the building. This floor has been designated as Survey Section 10. (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 a portion of the back section of the building was known to have involved the use of radioactive material. The remainder of the building had not been used or had very limited use as far as was known. It was administratively decided however to designate the remaining portions as Class 3 rather than a lower classification.

Fourteen survey units were originally designated for the first floor of this building. One survey unit designation (Section 10, Unit 7) was deleted during the process of conducting the survey and the area involved was combined with another survey unit. Thus there is no data presented or other reference made to Unit 7 in this report. Survey Unit 13 only had floor scan measurements made for it so there is no separate table of survey point data or a separate appendix of radiological survey data sheets for that survey unit. A system of pipe chases also exists in the first floor of this building. These pipe chases were given a separate designation (Section 10, Unit 14) and were surveyed and documented separately. See Report #010 for the documentation of the radiological survey of the pipe chases.

Appendices A through K incorporate all of the radiological survey data sheets for each of eleven survey units. Tables 2 through 12 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 13 presents a summary of the statistical information.

Floor scans of portions of each area were also conducted. Appendix L contains the radiological data survey sheets for these floor scans. Table 14 presents the results of the floor scan data in units directly comparable with the applicable acceptance criteria.

Current Status

Building 9 is an occupied area. It is anticipated that use of this building will continue throughout the project. No radioactive material is utilized and no such use is anticipated.

Conclusions

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

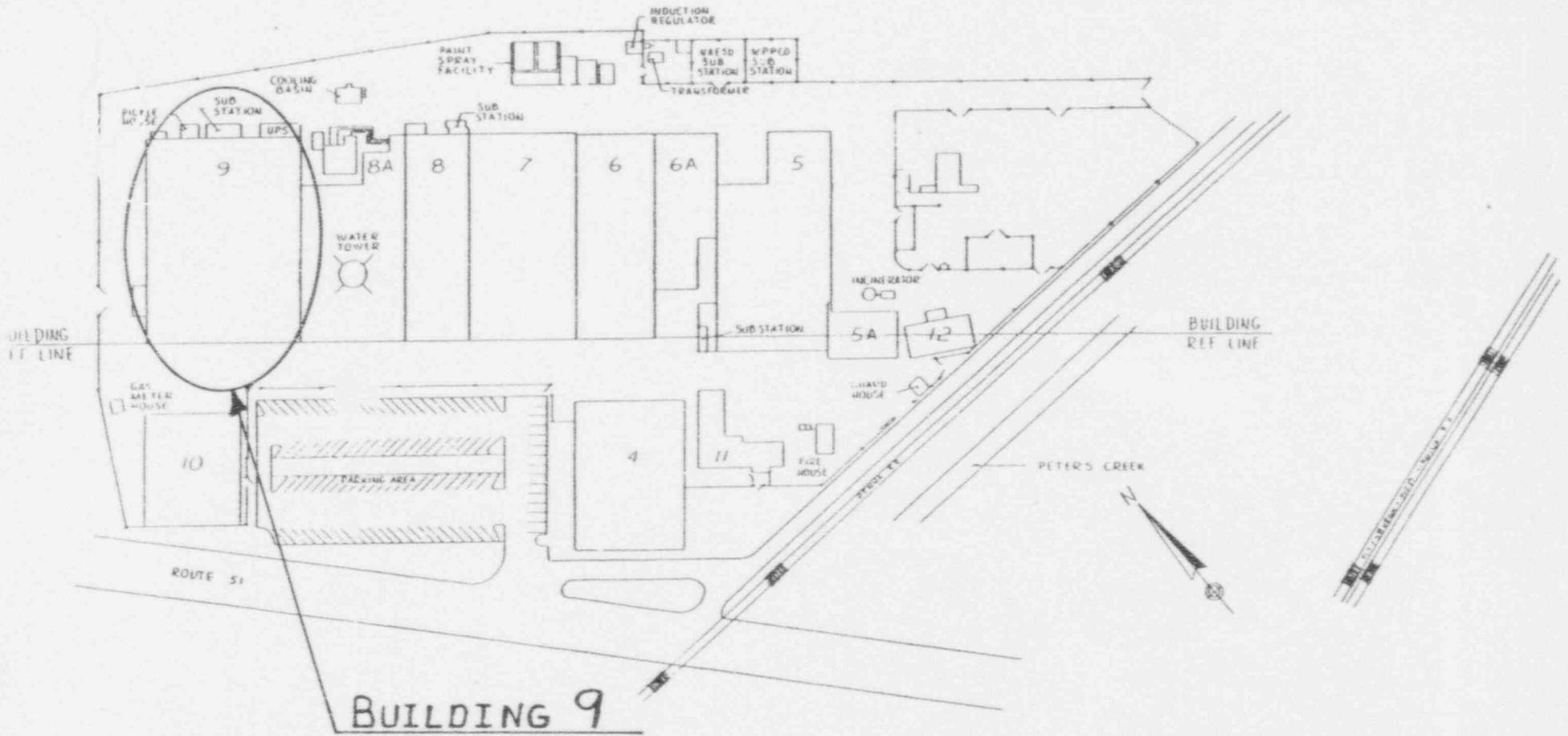


FIGURE 1
SITE PLOT PLAN

REV	DATE	DESCRIPTION	BY	CHKD	APP'D	DESCRIPTION
PARTS LIST						
UNLESS OTHERWISE SPECIFIED		CONTRACT NO.	REV. NO.		Westinghouse Advanced Energy Systems Division Pittsburgh, Pennsylvania	
DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE		PROJECT NO.	SCALE		VAE5D LAR6E PA	
TOLERANCES - DO NOT SCALE		DESIGN	REV.		DATE	
Ø	±	□	▲	■	□	□
Ø	±	□	▲	■	□	□
SPECIFICATIONS		TYPE		DATE		
DRAWING CODE NO.		SCALE		BY	CHKD	APP'D

FIGURE 2
BUILDING 9, FIRST FLOOR



TABLE 1

SURVEY CLASSIFICATION FOR THE FIRST FLOOR OF BUILDING 9

SURVEY SECTION	UNIT	SUBUNIT	CLASSIFICATION
10	1	1	1
10	1	2	1
10	1	3	1
10	1	4 *	1
10	2	1	4
10	2	2	4
10	2	3	4
10	2	4	4
10	3	1	4
10	3	2	4
10	3	3	4
10	3	4	4
10	3	5	4
10	4	1	4
10	4	2	4
10	4	3	4
10	4	4	4

* Recent Building Addition - not surveyed.

TABLE 1 (continued)

SURVEY CLASSIFICATION FOR THE FIRST FLOOR OF BUILDING 9

SURVEY SECTION	UNIT	SUBUNIT	CLASSIFICATION
10	4	5	4
10	4	6	4
10	4	7	4
10	5	1	3
10	5	2	3
10	5	3	3
10	6	1	4
10	6	2	4
10	6	3	4
10	6	4	4
10	6	5	4
10	6	6	4
10	6	7	4
10	8	1	4
10	8	2	4
10	9	1	4
10	9	2	4

TABLE 1 (continued)

SURVEY CLASSIFICATION FOR THE FIRST FLOOR OF BUILDING 9

SURVEY SECTION	UNIT	SUBUNIT	CLASSIFICATION
10	9	3	4
10	9	4	4
10	10	1	3
10	10	2	3
10	10	3	3
10	10	4	3
10	10	5	3
10	10	6	3
10	10	7	3
10	11	1	3
10	11	2	3
10	11	3	3
10	11	4	3
10	11	5	3
10	11	6	3
10	11	7	3
10	12	1	3
10	13	1	3
10	13	2	3

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 1)

?	?	?	X, Y	LOCATION	?	GAMMA SURVEY @1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY		
								MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA	
?	SURFACE DESCRIPTION	?	GRID	?	REF POINT	CODE	(microR/hr)	(nR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	Floor	?	N/A	?	1, -2	10-1-1	12	0.010	63.2	8.0	0.0	-20.0	-0.26	-2.49
?	"	?	"	?	2, -2	10-1-1	11	0.010	92.7	28.0	0.0	51.2	-0.26	-2.49
?	"	?	"	?	3, -2	10-1-1	10	0.010	214.3	28.0	8.5	91.9	-0.26	-2.49
?	"	?	"	?	3, -1	10-1-1	10	0.010	136.7	107.9	7.3	61.6	-0.26	3.41
?	North Wall - Block	?	"	?	2, -1.2	10-1-1			535.4	340.5	0.0	171.7	-0.26	-2.49
?	"	?	"	?	4, -1.2	10-1-1			454.0	87.3	0.0	195.0	-0.26	-2.49
?	South Wall - Brick	?	"	?	2, -1.2	10-1-1			811.9	550.0	4.3	523.8	-0.26	3.59
?	"	?	"	?	4, -1.2	10-1-1			678.0	320.1	4.3	407.4	-0.26	3.59
?	Floor	?	N/A	?	1, -1	10-1-2	14	0.020	36.0	14.4	3.7	68.8	-0.26	-2.49
?	"	?	"	?	2, -1	10-1-2	15	0.020	98.3	74.4	1.2	145.5	-0.26	9.66
?	"	?	"	?	3, -1	10-1-2	14	0.020	375.8	234.3	-1.2	293.4	-0.26	3.41
?	"	?	"	?	4, -1	10-1-2	13	0.020	271.8	234.3	2.4	237.5	-0.26	-2.49
?	"	?	"	?	3, -2	10-1-2	15	0.020	96.7	34.4	3.7	64.0	-0.26	-2.49
?	"	?	"	?	4, -2	10-1-2	15	0.020	239.1	154.3	3.7	185.5	-0.26	-2.49
?	North Wall	?	"	?	2, -1.1	10-1-2			17.5	-154.2	0.0	-14.6	-0.26	-2.49
?	"	?	"	?	4, -1.1	10-1-2			145.5	-8.7	0.0	26.2	-0.26	-2.49
?	East Wall	?	"	?	2, -0.8	10-1-2			119.3	-66.9	0.0	-98.9	-0.26	9.31
?	South Wall	?	"	?	2, -1.1	10-1-2			296.8	49.5	0.0	177.5	-0.26	3.59
?	"	?	"	?	4, -2.1	10-1-2			270.6	20.4	0.0	23.3	-0.26	-2.49
?	West Wall	?	"	?	2, -1.1	10-1-2			17.5	-96.0	0.0	-98.9	-0.26	-2.49
?	Floor	?	N/A	?	1, -1	10-1-3	10	0.010	131.1	80.0	2.4	95.9	-0.26	-2.49
?	"	?	"	?	2, -1	10-1-3	10	0.020	119.1	60.0	2.4	90.3	-0.26	3.41
?	"	?	"	?	3, -1	10-1-3	8	0.010	76.0	60.0	-1.2	64.0	-0.26	-2.49
?	"	?	"	?	4, -1	10-1-3	9	0.010	12.0	-20.0	1.2	-2.4	-0.26	-2.49
?	South Wall	?	"	?	6, -1.1	10-1-3			360.8	195.0	0.0	206.6	-0.26	3.59
?	"	?	"	?	4, -1.1	10-1-3			261.9	107.7	0.0	203.7	-0.26	-2.49
?	"	?	"	?	2, -1.1	10-1-3			378.3	282.3	0.0	279.4	-0.26	-2.49
?	"	?	"	?	5, -2.1	10-1-3			259.0	136.8	13.0	247.4	-0.26	-2.49

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 2)

?	?	?	X, Y	LOCATION	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)	
?	SURFACE DESCRIPTION	GRID	REF	POINT	CODE								
?	Panel	?	"	? 4, -1	10-2-4			512.0	435.2	0.0	278.4	-0.15	3.28
?	"	?	"	? 6, -1	10-2-4			265.6	83.2	0.0	224.0	-0.15	-2.82
?	East wall (Block)	?	"	? 2, -1	10-2-4			537.6	275.2	4.6	304.0	-0.15	3.28
?	"	?	"	? 6, -1	10-2-4			377.6	115.2	4.6	172.8	-0.15	-2.82
?	South wall	?	"	? 4, -1	10-2-4			358.4	243.2	0.0	316.8	-0.15	3.28
?	West wall	?	"	? 2, -1	10-2-4			435.2	51.2	4.6	422.4	-0.15	-2.82
?	"	?	"	? 6, -1	10-2-4			486.4	99.2	4.6	182.4	-0.15	-2.82
?	Floor	?	"	? 2, -4	10-2-4	12	0.015	61.6	34.2	-3.4	38.0	-0.15	3.28
?	"	?	"	? 4, -4	10-2-4	11	0.018	60.8	56.3	-1.1	-33.5	-0.15	3.10
?	"	?	"	? 4, -6	10-2-4	11	0.008	-6.8	-19.8	1.1	-19.0	-0.15	-2.82
?	"	?	"	? 2, -6	10-2-4	10	0.011	139.9	75.3	15.8	-25.9	-0.15	-2.82
?	Ceiling	? 2, -4	?	N/A	10-2-4			-300.8	-380.8	-9.2	-35.2	-0.15	3.10
?	"	? 4, -4	?	"	10-2-4			-48.0	-284.8	-4.6	-252.8	-0.15	9.39
?	"	? 4, -6	?	"	10-2-4			-275.2	-380.8	-4.6	-105.6	-0.15	-2.82
?	"	? 2, -6	?	"	10-2-4			-304.0	-444.8	-13.8	-249.6	-0.15	-2.82
?	West wall	? 2, 0	?	"	10-2-4			3.2	-252.8	-9.2	-195.2	-0.15	-2.82
?	"	? 6, 0	?	"	10-2-4			-147.2	-348.8	-9.2	-240.0	-0.15	-2.82
?	East wall	? 2, 0	?	"	10-2-4			25.6	-252.8	-4.6	-259.2	-0.15	-2.82
?	"	? 6, 0	?	"	10-2-4			-259.2	-380.8	-13.8	-297.6	-0.15	-2.82
?	South wall	? 4, 0	?	"	10-2-4			-352.0	-444.8	-13.8	-336.0	-0.15	-2.82
?	"	? 2, 0	?	"	10-2-4			32.0	-124.8	-9.2	-105.6	-0.15	-2.82
?	North wall	? 6, 0	?	"	10-2-4			-131.2	-316.8	-9.2	-179.2	-0.15	-2.82
?	"	? 4, 0	?	"	10-2-4			-131.2	-332.8	-9.2	-198.4	-0.15	-2.82
?	"	? 2, 0	?	"	10-2-4			-300.8	-444.8	-9.2	-179.2	-0.15	3.10
?	East wall	? 2, -4.4	?	N/A	10-2-2			-185.6	-284.8	-4.6	-166.4	-0.15	3.28
?	"	? 4, -4.4	?	"	10-2-2			-1532.8	188.8	-9.2	-230.4	-0.15	-2.82
?	"	? 8, -4.4	?	"	10-2-2			-313.6	-412.8	0.0	-374.4	-0.15	3.28
?	West wall	? 4, -4.4	?	"	10-2-2			-176.0	-316.8	-13.8	-224.0	-0.15	3.10
?	South wall	? 6, -4.4	?	"	10-2-2			-336.0	-444.8	-13.8	-233.6	-0.15	9.03
?	Ventilation	? 0, -4.2	?	"	10-2-2			-22.4	-188.8	-13.8	-140.8	-0.15	-2.82
?	South wall	? 4, -4.4	?	"	10-2-2			-22.4	-188.8	-13.8	-140.8	8.05	-2.82

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 2)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED 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)
Ceiling	2, -2	N/A	10-2-1			-371.2	-444.8	-13.8	-403.2	7.81	-2.82
"	4, -2	"	10-2-1			-419.2	-508.8	-13.8	-368.0	-0.15	-2.82
South wall	8, .6	"	10-2-1			-51.2	-444.8	-13.8	-64.0	-0.15	-2.82
"	2, .6	"	10-2-1			-32.0	-249.6	-13.8	-19.2	-0.15	-2.82
North wall	N/A	2, -.6	10-2-1			-112.0	-172.8	4.6	-144.0	-0.15	-2.82
"	"	6, -.6	10-2-1			-67.2	-204.8	0.0	-22.4	-0.15	3.28
South wall	"	2, -.6	10-2-1			457.6	243.2	0.0	323.2	-0.15	-2.82
"	"	8, -.6	10-2-1			364.8	179.2	0.0	345.6	-0.15	-2.82
Floor	"	2, -2	10-2-1	10	0.007	22.8	0.0	16.9	60.1	-0.15	9.39
"	"	4, -2	10-2-1	10	0.012	120.9	57.0	1.1	37.3	8.05	3.28
"	"	8, -2	10-2-1	10	0.011	66.9	57.0	10.2	60.8	-0.15	3.28
North wall	N/A	6, -5.4	10-2-2			227.2	-12.8	0.0	16.0	-0.15	-2.82
South wall	"	4, -5.4	10-2-2			118.4	51.2	0.0	19.2	-0.15	-2.82
West wall	"	2, -5.4	10-2-2			188.8	19.2	0.0	108.8	-0.15	-2.82
"	"	4, -5.4	10-2-2			86.4	-76.8	4.6	-51.2	-0.15	3.28
Tile floor	"	2, -2	10-2-2	10	0.013	109.5	75.3	2.3	63.9	-0.15	-2.82
"	"	2, -4	10-2-2	11	0.014	-10.6	-38.8	0.0	27.4	-0.15	3.10
"	"	2, -6	10-2-2	9	0.010	25.1	-0.8	0.0	-3.0	-0.15	-2.82
"	"	4, -6	10-2-2	9	0.010	159.7	113.3	1.1	0.8	-0.15	3.28
"	"	4, -4	10-2-2	10	0.007	98.8	37.3	6.8	0.0	-0.15	9.39
"	"	6, -4	10-2-2	12	0.014	76.0	56.3	10.2	3.8	-0.15	-2.82
"	"	6, -6	10-2-2	11	0.015	12.9	-0.8	4.5	-10.6	-0.15	-2.82
East wall	"	2, -5.4	10-2-3			243.2	115.2	4.6	124.8	-0.15	3.28
"	"	6, -5.4	10-2-3			262.4	51.2	0.0	198.4	-0.15	3.28
"	"	8, -5.4	10-2-3			345.6	115.2	9.2	281.6	-0.15	-2.82
West wall	"	2, -5.4	10-2-3			412.8	243.2	0.0	249.6	-0.15	3.28
"	"	6, -5.4	10-2-3			156.8	83.2	13.8	182.4	-0.15	-2.82
Tile floor	"	2, -4	10-2-3	12	0.010	158.2	132.3	18.1	31.2	-0.15	-2.82
"	"	2, -6	10-2-3	11	0.009	38.0	29.7	3.4	38.0	-0.15	9.03
"	"	2, -8	10-2-3	11	0.010	-0.8	-19.8	4.5	15.2	-0.15	-2.82
North wall	N/A	2, -1	10-2-4			524.8	467.2	9.2	220.8	-0.15	-2.82

TABLE 4

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 3)

?	?	?	X, Y	LOCATION	?	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY		
								at 1 METER	ON CONTACT	MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA
?	?	?	POINT	CODE	?	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	
?	Floor	?	4, -4	?	N/A	10-3-1	12	0.010	45.6	-68.4	0.0	-19.8	-0.15	-2.82
?	"	?	2, -6	?	"	10-3-1	12	0.010	98.8	45.6	-13.5	184.0	8.05	9.39
?	East Wall	?	2, -2	?	"	10-3-1			460.8	230.4	9.2	262.4	-0.15	-2.82
?	Floor	?	N/A	?	2, -2	10-3-2	13	0.010	76.8	7.6	-40.6	-237.2	-0.15	3.28
?	"	?	"	?	4, -2	10-3-2	13	0.010	-149.8	-220.5	-49.7	-272.2	7.81	-2.82
?	"	?	"	?	2, -4	10-3-2	13	0.010	111.0	45.6	-39.5	-310.2	-0.15	3.10
?	"	?	"	?	4, -4	10-3-2	13	0.010	170.3	45.6	-38.4	53.2	8.05	3.28
?	"	?	"	?	6, -2	10-3-2	13	0.010	-157.4	-220.5	-44.0	68.4	-0.15	-2.82
?	"	?	"	?	2, -6	10-3-2	13	0.010	187.1	83.6	-49.7	-307.2	-0.15	3.28
?	"	?	"	?	2, -8	10-3-2	13	0.010	97.3	7.6	-42.9	-24.3	-0.15	3.28
?	"	?	"	?	0, -8	10-3-2	13	0.010	-1209.0	-11.4	-40.6	-7.6	-0.15	-2.82
?	"	?	"	?	2, -10	10-3-2	13	0.010	167.3	7.6	-50.8	-23.6	-0.15	-2.82
?	"	?	"	?	0, -10	10-3-2	13	0.010	28.9	7.6	-67.7	-30.4	8.05	9.39
?	"	?	"	?	-2, -10	10-3-2	13	0.010	167.3	83.6	-49.7	6.8	-0.15	-2.82
?	"	?	"	?	2, -12	10-3-2	13	0.010	98.1	45.6	-42.9	-54.7	-0.15	-2.82
?	"	?	"	?	4, -12	10-3-2	13	0.010	51.7	7.6	-44.0	0.0	-0.15	9.39
?	"	?	"	?	4, -10	10-3-2	13	0.010	44.9	7.6	-49.7	26.6	-0.15	-2.82
?	"	?	"	?	6, -12	10-3-2	13	0.010	4.6	-30.4	-33.9	-10.6	8.05	-2.82
?	Floor	?	N/A	?	4, -14	10-3-2	13	0.010	378.7	121.7	-62.1	42.6	-0.15	-2.82
?	"	?	"	?	6, -14	10-3-2	13	0.010	171.1	45.6	-57.6	54.7	8.05	-2.82
?	"	?	"	?	8, -14	10-3-2	13	0.010	158.2	-68.4	-65.5	-26.6	-0.15	14.95
?	"	?	"	?	8, -16	10-3-2	13	0.010	159.7	83.6	-39.5	74.5	-0.15	-2.82
?	East wall (1)	?	"	?	4, -5.4	10-3-2			752.0	166.4	4.6	156.8	-0.15	-2.82
?	"	?	"	?	6, -5.4	10-3-2			192.0	-25.6	9.2	156.8	-0.15	-2.82
?	"	?	"	?	8, -5.4	10-3-2			188.8	70.4	0.0	172.8	-0.15	-2.82
?	North wall (2)	?	"	?	2, -2.3	10-3-2			288.0	102.4	0.0	262.4	-0.15	-2.82
?	"	?	"	?	4, -2.3	10-3-2			444.8	326.4	13.8	201.6	-0.15	-2.82
?	West wall (2)	?	"	?	2, -5.4	10-3-2			217.6	38.4	0.0	80.0	-0.15	-2.82
?	"	?	"	?	6, -5.4	10-3-2			358.4	134.4	9.2	108.8	-0.15	-2.82

TABLE 4

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 3)

SURFACE DESCRIPTION	GRID	X,Y REF POINT	LOCATION CODE	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED 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)
Floor	N/A	4, -2	10-3-4	12	0.010	137.6	-30.4	1.1	75.3	-0.15	-2.82
North wall	"	4, -2	10-3-4			380.8	198.4	4.6	144.0	-0.15	3.10
South wall	"	2, -2	10-3-4			345.6	198.4	0.0	268.8	-0.15	3.10
Ceiling - Beam	2, -2	N/A	10-3-2			-195.2	-336.0	18.4	-249.6	-0.15	-2.82
"	4, -2	"	10-3-2			-147.2	-272.0	4.6	-153.6	8.05	-2.82
"	6, -2	"	10-3-2			-265.6	-336.0	0.0	-195.2	-0.15	-2.82
Ceiling	2, -4	"	10-3-2			-236.8	-304.0	-4.6	-278.4	-0.15	-2.82
"	4, -4	"	10-3-2			-64.0	-272.0	0.0	-160.0	-0.15	-2.82
"	6, -4	"	10-3-2			-22.4	-240.0	-4.6	-185.6	-0.15	-2.82
"	2, -6	"	10-3-2			-92.8	-240.0	-4.6	-192.0	-0.15	3.28
"	4, -6	"	10-3-2			-473.6	-304.0	-4.6	-131.2	-0.15	-2.82
"	6, -6	"	10-3-2			-140.8	-336.0	-4.6	-208.0	-0.15	3.28
Beam	0, -8	"	10-3-2			-240.0	-368.0	-4.6	-233.6	-0.15	-2.82
"	2, -8	"	10-3-2			-105.6	-240.0	9.2	-169.6	-0.15	3.28
"	4, -8	"	10-3-2			-25.6	-304.0	-4.6	-240.0	-0.15	3.10
"	6, -8	"	10-3-2			-140.8	-208.0	-4.6	-265.6	8.05	-2.82
Light Fixture	-2, -10	"	10-3-2			-99.2	-176.0	0.0	-438.4	-0.15	3.28
Overhead crane	N/A	"	10-3-2			291.2	16.0	4.6	25.6	-0.15	-2.82
Beam	0, -10	N/A	10-3-2			-179.2	-272.0	18.4	-99.2	-0.15	-2.82
"	2, -10	"	10-3-2			-70.4	-112.0	9.2	9.6	-0.15	-2.82
"	4, -10	"	10-3-2			-108.8	-240.0	0.0	-115.2	-0.15	3.10
"	6, -10	"	10-3-2			243.2	-16.0	-4.6	51.2	-0.15	3.28
Ceiling	0, -12	"	10-3-2			227.2	16.0	-4.6	44.8	-0.15	-2.82
"	2, -12	"	10-3-2			211.2	80.0	-4.6	89.6	-0.15	3.28
"	4, -12	"	10-3-2			208.0	16.0	-4.6	201.6	-0.15	-2.82
"	6, -12	"	10-3-2			403.2	208.0	-4.6	192.0	-0.15	-2.82
"	8, -12	"	10-3-2			409.6	208.0	-4.6	192.0	-0.15	0.03
Beam	0, -14	"	10-3-2			400.0	272.0	-4.6	361.6	-0.15	-2.82
"	2, -14	"	10-3-2			393.6	176.0	4.6	348.8	-0.15	-2.82

TABLE 5

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 4)

?	?	?	X, Y	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY			
							1 METER	ON CONTACT	MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	?	?	POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)		
?	floor	?	2, -4	?	N/A	10-4-1	11	0.010	478.0	138.8	-4.4	95.1	-0.15	-2.82
?	"	?	4, -4	?	"	10-4-1	11	0.010	480.6	177.3	-4.4	167.1	-0.15	-2.82
?	"	?	0, -10	?	"	10-4-1	11	0.010	326.4	74.5	-4.4	231.3	-0.15	-2.82
?	"	?	-2, -10	?	"	10-4-1	11	0.010	909.8	177.3	8.8	277.6	-0.15	-2.82
?	"	?	-4, -10	?	"	10-4-1	11	0.010	616.8	190.2	8.8	208.2	-0.15	3.28
?	"	?	-6, -10	?	"	10-4-1	11	0.010	385.5	138.8	0.0	172.2	-0.15	3.28
?	"	?	-8, -10	?	"	10-4-1	11	0.010	321.3	87.4	4.4	159.3	-0.15	3.28
?	"	?	8, -2	?	"	10-4-1	10	0.010	573.1	241.6	8.8	303.3	-0.15	-2.82
?	"	?	8, -4	?	"	10-4-1	11	0.010	267.3	74.5	0.0	120.8	-0.15	-2.82
?	"	?	8, -6	?	"	10-4-1	11	0.010	370.1	177.3	0.0	92.5	-0.15	3.28
?	"	?	8, -8	?	"	10-4-1	11	0.010	377.8	228.7	0.0	280.1	-0.15	3.28
?	"	?	8, -10	?	"	10-4-1	11	0.010	326.4	177.3	-4.4	208.2	-0.15	3.28
?	"	?	8, -12	?	"	10-4-1	11	0.010	339.2	203.0	0.0	92.5	8.05	9.39
?	"	?	8, -14	?	"	10-4-1	11	0.010	485.7	254.4	4.4	179.9	-0.15	-2.82
?	East Wall	?	2, -1.3	?	N/A	10-4-1		0.017	444.8	284.8	0.0	313.6	-0.15	3.28
?	"	?	4, -1.3	?	"	10-4-1		0.019	284.8	124.8	4.6	105.6	-0.15	-2.82
?	"	?	6, -1.3	?	"	10-4-1		0.022	204.8	124.8	9.2	-16.0	-0.15	3.28
?	"	?	8, -1.3	?	"	10-4-1		0.030	284.8	124.8	9.2	96.0	-0.15	-2.82
?	West Wall	?	2, -1.4	?	"	10-4-1		0.020	364.8	44.8	0.0	19.2	-0.15	-2.82
?	"	?	4, -1.4	?	"	10-4-1		0.010	124.8	44.8	13.8	-22.4	-0.15	-2.82
?	"	?	6, -1.4	?	"	10-4-1		0.015	284.8	-35.2	9.2	-67.2	-0.15	-2.82
?	"	?	8, -1.4	?	"	10-4-1		0.015	204.8	-35.2	4.1	19.2	-0.15	-2.82
?	North Wall (#2)	?	4, -1.4	?	"	10-4-1		0.011	364.8	44.8	0.0	38.4	-0.15	-2.82
?	in hallway	?	6, -1.4	?	"	10-4-1		0.019	284.8	124.8	0.0	64.0	-0.15	-2.82
?	"	?	10, -1.4	?	"	10-4-1		0.025	284.8	124.8	0.0	60.8	-0.15	3.28
?	South Wall	?	6, -1.4	?	"	10-4-1		0.012	284.8	124.8	4.6	57.6	-0.15	-2.82
?	Floor	?	2, -2	?	N/A	10-4-2	11	0.010	447.2	164.5	4.4	100.2	-0.15	-2.82
?	"	?	2, -4	?	"	10-4-2	11	0.010	308.4	138.8	-4.4	167.1	-0.15	-2.82
?	"	?	4, -2	?	"	10-4-2	11	0.010	254.4	74.5	0.0	107.9	-0.15	3.28
?	"	?	4, -4	?	"	10-4-2	11	0.010	313.5	113.1	-13.2	72.0	-0.15	-2.82
?	"	?	10, -4	?	"	10-4-2	10	0.010	280.1	61.7	-8.8	87.4	-0.15	-2.82
?	"	?	10, -2	?	"	10-4-2	10	0.010	192.8	23.1	0.0	12.9	-0.15	-2.82
?	"	?	10, 0	?	"	10-4-2	10	0.010	393.2	61.7	-4.4	200.5	-0.15	9.39
?	Floor Carpet	?	2, -4	?	N/A	10-4-3	10	0.010	693.9	151.6	-4.4	131.1	-0.15	-2.82
?	Floor Carpet	?	2, -4	?	N/A	10-4-4	10	0.010	218.5	36.0	0.0	59.1	-0.15	3.28

TABLE 5

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 4)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMMA SURVEY		BETA/GAMMA SURVEY		SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
				@1 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)		
Overhead beams	N/A	0, -2	10-4-4					176.0	-22.4	0.0	-38.4	-0.26	-2.49
"	"	0, -4	10-4-4					51.2	-54.4	-9.2	-67.2	-0.26	-2.49
"	"	2, -2	10-4-4					-28.8	-86.4	-9.2	-64.0	-0.26	5.53
"	"	2, -4	10-4-4					86.4	9.6	-4.6	-57.6	7.74	3.59
Floor	2, -2	N/A	10-4-5	10	0.010			393.2	74.5	-8.8	-18.0	-0.15	9.03
"	4, -2	"	10-4-5	10	0.010			33.4	113.1	-4.4	113.1	-0.15	9.39
Floor/Carpet	2, -2	N/A	10-4-6	8	0.010			316.1	64.3	17.6	66.8	-0.15	-2.82
"	2, -4	"	10-4-6	8	0.010			233.9	77.1	4.4	195.3	-0.15	-2.82
Ceiling	0, -2	N/A	10-4-6					96.0	19.2	4.6	9.6	-0.26	3.41
"	0, -4	"	10-4-6					156.8	51.2	-4.6	12.8	-0.26	3.59
"	2, -2	"	10-4-6					76.8	-44.8	-9.2	32.0	-0.26	-2.49
"	2, -4	"	10-4-6					70.4	-44.8	4.6	-57.6	-0.26	-2.49
Floor/Carpet	2, -2	N/A	10-4-7	10	0.010			357.2	167.1	0.0	200.5	-0.15	-2.82
"	2, -4	"	10-4-7	10	0.010			434.3	179.9	17.6	221.0	-0.15	3.28
Overhead Beams	N/A	4, -6	10-4-1to7					83.2	0.0	9.2	12.8	-0.26	3.59
"	"	2, -6	10-4-1to7					352.0	160.0	13.8	96.0	-0.26	3.59
"	"	4, -6	10-4-1to7					736.0	64.0	9.2	-16.0	-0.26	-2.49
"	"	2, -8	10-4-1to7					76.8	-32.0	13.8	-44.8	-0.26	-2.49
"	"	4, -12	10-4-1to7					422.4	96.0	13.8	16.0	-0.26	-2.49
"	"	2, -12	10-4-1to7					352.0	128.0	0.0	-83.2	-0.26	-2.49
"	"	4, -10	10-4-1to7					-9.6	-64.0	4.6	-25.6	-0.26	-2.49
"	"	2, -10	10-4-1to7					16.0	-32.0	13.8	-64.0	-0.26	3.41
"	"	5, -6	10-4-1to7					108.8	0.0	13.8	-147.2	-0.26	-2.49
"	"	7, -6	10-4-1to7					80.0	-32.0	0.0	19.2	-0.26	-2.49
"	"	5, -8	10-4-1to7					112.0	32.0	9.2	12.8	-0.26	-2.49
"	"	7, -8	10-4-1to7					160.0	112.0	13.8	83.2	-0.26	3.41
"	"	5, -10	10-4-1to7					6.4	-64.0	0.0	-35.2	-0.26	-2.49
"	"	5, -10	10-4-1to7					323.2	96.0	4.6	28.8	-0.26	3.41
"	"	5, -11	10-4-1to7					64.0	64.0	4.6	12.8	-0.26	-2.49
Overhead Beams	N/A	7, -11	10-4-1to7					54.4	-32.0	4.6	12.8	-0.26	-2.49
"	"	5, -13	10-4-1to7					108.8	0.0	23.0	-48.0	-0.26	-2.49
"	"	7, -13	10-4-1to7					89.6	-16.0	0.0	48.0	-0.26	3.59
North Wall	"	6, -2	10-4-1to7					345.6	256.0	0.0	320.0	-0.26	3.41
"	"	8, -2	10-4-1to7					547.2	96.0	0.0	150.4	-0.26	-2.49
Overhead Beams	"	6, -2	10-4-1to7					124.8	-16.0	9.2	60.8	-0.26	-2.49

TABLE 6

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 5)

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 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)
West Wall	N/A	4, -5.4	10-5-1			313.6	-70.4	4.6	-60.8	-0.15	-2.82
"	"	12, -5.4	10-5-1			329.6	-38.4	9.2	19.2	-0.15	-2.82
"	"	14, -5.4	10-5-1			224.0	89.6	-4.6	22.4	-0.15	3.28
Floor	"	2, -4	10-5-1	11	0.010	177.3	-25.7	-4.1	-113.1	-0.15	-2.82
"	"	2, -6	10-5-1	11	0.010	66.8	-154.2	0.0	43.7	-0.15	-2.82
"	"	2, -8	10-5-1	11	0.010	182.5	-141.4	-4.1	12.9	-0.15	-2.82
"	"	2, -10	10-5-1	11	0.010	185.0	-51.4	-12.4	-51.4	-0.15	-2.82
"	"	2, -14	10-5-1	10	0.010	213.3	-102.8	-8.3	-30.8	-0.15	-2.82
"	"	2, -16	10-5-1	10	0.010	262.1	-64.3	-8.3	-56.5	-0.15	-2.82
"	"	2, -18	10-5-1	11	0.010	164.5	-38.6	-12.4	-25.7	-0.15	3.28
"	"	4, -18	10-5-1	11	0.010	77.1	-154.2	0.0	-2.6	-0.15	-2.82
"	"	4, -12	10-5-1	10	0.010	74.5	-51.4	-8.3	5.1	-0.15	-2.82
"	"	4, -10	10-5-1	10	0.010	169.6	-102.8	-8.3	-69.4	-0.15	3.28
"	"	4, -8	10-5-1	8	0.010	-82.2	-192.8	0.0	-143.9	-0.15	-2.82
"	"	4, -4	10-5-1	8	0.010	213.3	-90.0	0.0	-107.9	-0.15	-2.82
West Wall	N/A	2, -4.4	10-5-1			384.1	133.9	17.3	84.4	-0.26	-2.49
Upper Surfaces	"	4, -4.4	10-5-1			128.0	17.5	4.3	-221.2	-0.26	-2.49
"	"	8, -4.4	10-5-1			448.1	17.5	0.0	8.7	-0.26	3.59
"	"	10, -4.4	10-5-1			346.3	192.1	4.3	128.0	-0.26	3.41
"	"	12, -4.4	10-5-1			142.6	46.6	0.0	87.3	-0.26	-2.49
"	"	14, -4.4	10-5-1			299.7	75.7	26.0	195.0	-0.26	-2.49
"	"	16, -4.4	10-5-1			305.6	163.0	21.7	93.1	-0.26	-2.49
"	"	18, -4.4	10-5-1			468.5	192.1	4.3	218.3	-0.26	9.66
North Wall	"	2, -4.4	10-5-1			320.1	133.9	0.0	261.9	-0.26	-2.49
"	"	4, -4.4	10-5-1			360.8	163.0	0.0	259.0	-0.26	3.59
"	"	6, -4.4	10-5-1			250.3	75.7	17.3	157.1	-0.26	-2.49
East Wall	"	2, -4.4	10-5-1			404.5	308.5	8.7	98.9	7.51	-2.49
"	"	4, -4.4	10-5-1			87.3	-11.6	4.3	195.0	-0.26	-2.49

TABLE 6

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 5)

SURFACE DESCRIPTION	GRID	X, Y	REF	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)
"	"	6, -4.4		10-5-1			110.6	46.6	4.3	84.4	-0.26	3.41
"	"	8, -4.4		10-5-1			366.7	250.3	0.0	131.0	-0.26	-2.49
East Wall	14, -.3	N/A		10-5-1			215.3	46.6	8.7	261.9	-0.26	-2.49
"	16, -.3	"		10-5-1			488.9	46.6	8.7	197.9	-0.26	-2.49
"	18, -.3	"		10-5-1			215.3	17.5	4.3	131.0	7.74	-2.49
South Wall	2, -.3	"		10-5-1			267.7	104.8	4.3	250.3	-0.26	-2.49
West Wall	2, -.3	"		10-5-1			477.2	192.1	0.0	238.6	-0.26	3.41
"	4, -.3	"		10-5-1			256.1	17.5	0.0	227.0	-0.26	-2.49
"	6, -.3	"		10-5-1			529.6	250.3	4.3	177.5	-0.26	3.59
North wall	N/A	2, -.4		10-5-2			179.2	57.6	13.8	118.4	-0.15	-2.82
East wall	"	2, -.4		10-5-2			105.6	-38.4	13.8	124.8	-0.15	3.28
West wall	"	2, -.4		10-5-2			131.2	57.6	4.6	73.6	-0.15	-2.82
"	"	6, -.4		10-5-2			156.8	57.6	0.0	35.2	-0.15	-2.82
Floor	"	2, -2		10-5-2	11	0.010	38.6	-136.2	-4.4	-79.7	-0.15	-2.82
"	"	2, -4		10-5-2	11	0.010	38.6	-110.5	0.0	-113.1	-0.15	-2.82
East wall	N/A	2, -1.3		10-5-3			396.8	-166.4	0.0	-64.0	-0.15	-2.82
"	"	6, -1.3		10-5-3			-70.4	-102.4	0.0	76.8	-0.15	-2.82
"	"	10, -1.3		10-5-3			192.0	-102.4	-4.6	-57.6	-0.15	-2.82
South wall	"	4, -1.3		10-5-3			19.2	-102.4	-4.6	-44.8	-0.15	-2.82
West wall	"	2, -1.3		10-5-3			-22.4	-182.4	-4.6	-153.6	-0.15	-2.82
Floor	"	2, -2		10-5-3	11	0.010	66.8	-251.9	4.4	-161.9	-0.15	9.39
"	"	2, -4		10-5-3	11	0.010	218.5	-59.1	4.4	-97.7	-0.15	-2.82
"	"	2, -6		10-5-3	10	0.010	161.9	-174.8	-4.4	-138.8	-0.15	3.10
"	"	2, -8		10-5-3	10	0.010	64.3	-161.9	-4.4	-195.3	-0.15	-2.82
East Wall	2, -.3	N/A		10-5-3			285.2	133.9	0.0	218.3	-0.26	3.59
"	4, -.3	"		10-5-3			334.7	163.0	8.7	445.2	-0.26	3.59
"	6, -.3	"		10-5-3			544.2	221.2	8.7	407.4	-0.26	3.41
"	8, -.3	"		10-5-3			328.8	133.9	0.0	200.8	-0.26	-2.49

TABLE 7

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 6)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY				
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA			
?	SURFACE DESCRIPTION	?	GRID	?	REF	POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)		
?	Floor	?	N-5	?	2, -2		10-6-1	11	0.010	125.5	-8.4	-6.8	-51.7	7.81	3.10
?	"	?	"	?	4, -2		10-6-1	11	0.010	57.0	-84.4	-10.2	-37.3	-0.15	9.39
?	"	?	"	?	6, -2		10-6-1	11	0.010	21.3	-84.4	-16.9	72.2	-0.15	-2.82
?	"	?	"	?	8, -2		10-6-1	11	0.010	81.4	29.7	-15.8	-74.5	-0.15	3.28
?	"	?	"	?	10, -2		10-6-1	11	0.010	108.0	-84.4	-9.0	-22.1	-0.15	9.39
?	"	?	"	?	12, -2		10-6-1	11	0.010	29.7	-8.4	3.4	4.6	-0.15	3.28
?	"	?	"	?	14, -2		10-6-1	11	0.010	-18.2	-46.4	-3.4	55.5	-0.15	-2.82
?	"	?	"	?	16, -2		10-6-1	12	0.010	10.6	-8.4	-11.3	-98.8	-0.15	3.28
?	"	?	"	?	18, -2		10-5-1	12	0.010	-70.0	-84.4	-1.1	-46.4	-0.15	-2.82
?	"	?	"	?	20, -2		10-6-1	12	0.010	27.4	-46.4	-3.4	-70.0	-0.15	3.28
?	"	?	"	?	22, -2		10-6-1	12	0.020	29.7	-46.4	-2.3	-73.0	-0.15	9.39
?	"	?	"	?	22, -4		10-6-1	10	0.020	-41.1	-84.4	-4.5	-67.7	-0.15	-2.82
?	"	?	"	?	22, -6		10-6-1	10	0.010	8.4	-8.4	-12.4	21.3	-0.15	-2.82
?	"	?	"	?	22, -8		10-6-1	10	0.010	52.5	10.6	-7.9	-6.1	-0.15	-2.82
?	"	?	"	?	22, -10		10-6-1	10	0.010	64.6	29.7	-1.1	-0.8	-0.15	-2.82
?	Floor	?	N/A	?	22, -12		10-6-1	11	0.010	44.1	10.6	-10.2	-36.5	-0.15	-2.82
?	"	?	"	?	22, -14		10-6-1	11	0.010	19.8	-8.4	0.0	1.5	-0.15	3.28
?	"	?	"	?	2, -4		10-6-1	11	0.010	-57.0	-84.4	-2.3	3.8	-0.15	-2.82
?	"	?	"	?	6, -4		10-6-1	11	0.010	177.2	-46.4	-10.2	26.6	-0.15	3.28
?	"	?	"	?	8, -4		10-6-1	11	0.010	102.6	-8.4	-16.9	82.1	-0.15	-2.82
?	Ceiling Beam	?	2, -2	?	N/A		10-6-1			64.0	-25.6	-9.2	19.2	-0.26	3.59
?	"	?	4, -2	?	"		10-6-1			172.8	70.4	-13.8	57.6	-0.26	3.41
?	"	?	0, -2	?	"		10-6-1			156.8	38.4	-4.6	44.8	-0.26	3.41
?	West Wall	?	2, -2	?	"		10-6-1			422.4	198.4	-13.8	153.6	-0.26	3.59
?	"	?	2, -4	?	"		10-6-1			428.8	358.4	0.0	208.0	-0.26	3.59
?	"	?	4, -4	?	"		10-6-1			230.4	166.4	-9.2	188.8	-0.26	9.66
?	"	?	4, -2	?	"		10-6-1			272.0	70.4	-13.8	243.2	-0.26	9.45
?	Ceiling	?	6, -2	?	"		10-6-1			204.8	134.4	-4.6	0.0	-0.26	-2.49
?	"	?	8, -2	?	"		10-6-1			124.8	38.4	-18.4	-3.2	0.00	3.59

TABLE 7

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 6)

?	?	?	X, Y	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							at 1 METER	ON CONTACT	ALPHA	BETA	ALPHA	BETA
?	?	?	REF POINT	CODE	(microR/hr)	(mR/hr)	MAXIMUM BETA	AVERAGE BETA	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	?	10, -2	?	"	10-6-1		60.8	-25.6	-13.8	32.0	-0.26	9.66
?	?	12, -2	?	"	10-6-1		16.0	-57.6	-18.4	-51.2	-0.26	-2.49
?	?	14, -2	?	"	10-6-1		160.0	38.4	-9.2	-25.6	-0.26	3.41
?	?	16, -2	?	"	10-6-1		89.6	-25.6	-23.0	6.4	-0.26	-2.49
?	?	18, -2	?	"	10-6-1		73.6	-25.6	-4.6	22.4	-0.26	3.41
?	?	20, -2	?	"	10-6-1		0.0	-185.6	-4.6	-19.2	-0.26	-0.25
?	Ceiling Beam	22, -2	?	N/A	10-6-1		54.4	-25.6	0.0	-12.8	-0.26	9.66
?	"	14, -4	?	"	10-6-1		-3.2	-57.6	-4.6	-22.4	-0.26	3.59
?	Light Fixture	12, -1	?	"	10-6-1		3.2	-57.6	-18.4	-41.6	7.66	3.53
?	Jib Crane Rail	14, -1	?	"	10-6-1		16.0	-25.6	9.2	67.2	-0.26	-2.49
?	Conduit	12, -2	?	"	10-6-1		188.8	6.4	-9.2	-121.6	7.51	3.41
?	Ceiling	2, -4	?	"	10-6-1		265.6	38.4	-23.0	3.2	-0.26	-2.49
?	"	0, -2	?	"	10-6-1		44.8	-57.6	-23.0	-38.4	-0.26	5.53
?	West Wall	0, -2	?	"	10-6-1		345.6	230.4	-13.8	262.4	-0.26	-2.49
?	"	0, -4	?	"	10-6-1		384.0	134.4	-18.4	176.0	-0.26	-2.49
?	South Wall	6, -4.1	?	"	10-6-1		409.6	134.4	-23.0	304.0	-0.26	3.41
?	"	4, -4.1	?	"	10-6-1		272.0	86.4	-18.4	220.8	7.51	-2.49
?	Ceiling Beam	6, -4	?	"	10-6-1		92.8	6.4	-23.0	51.2	-0.26	-2.49
?	South Wall	0, -4.1	?	"	10-6-1		284.8	102.4	-18.4	137.6	-0.26	-2.49
?	"	2, -4.1	?	"	10-6-1		182.4	70.4	-9.2	294.4	-0.26	3.41
?	Ceiling	8, -4	?	"	10-6-1		153.6	38.4	-18.4	12.8	-0.26	3.53
?	East wall (Block)	N/A	?	2, -4	10-6-3		275.2	105.6	-4.6	179.2	-0.15	-2.82
?	"	"	?	4, -4	10-6-3		361.6	169.6	4.6	80.0	-0.15	-2.82
?	South wall	"	?	4, -4	10-6-3		288.0	185.6	9.2	144.0	-0.15	-2.82
?	"	"	?	6, -4	10-6-3		368.0	265.6	0.0	147.2	-0.15	3.10
?	Floor tile & carpet	"	?	2, -2	10-6-3	8	83.6	21.3	0.0	-35.0	-0.15	3.28
?	"	"	?	2, -4	10-6-3	8	22.1	-16.7	10.2	-59.3	-0.15	-2.82
?	"	"	?	2, -6	10-6-3	8	-1.5	-54.7	-2.3	-73.8	-0.15	3.28
?	"	"	?	2, -8	10-6-3	8	86.7	-16.7	9.0	50.2	-0.15	3.28

TABLE 8

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 8)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	North Wall	? N/A	? 2, -5.4	10-8-1			67.2	23.4	0.0	-29.2	-0.15	9.34
?	"	"	? 4, -5.4	10-8-1			64.2	20.4	4.7	-23.4	-0.15	3.28
?	"	"	? 8, -5.4	10-8-1			75.9	0.0	-4.7	-11.7	-0.15	-2.82
?	East Wall	"	? 2, -5.4	10-8-1			236.5	175.2	0.0	-14.6	-0.15	-2.82
?	"	"	? 4, -5.4	10-8-1			64.2	-20.4	-9.5	-8.8	-0.15	-2.82
?	"	"	? 6, -5.4	10-8-1			96.4	-5.8	-9.5	0.0	-0.15	-2.82
?	West Wall	"	? 2, -5.4	10-8-1			116.8	26.3	-9.5	-108.0	-0.15	-2.82
?	"	"	? 6, -5.4	10-8-1			75.9	8.8	0.0	0.0	-0.15	-2.82
?	South Wall	"	? 4, -5.4	10-8-1			186.9	52.6	9.5	11.7	-0.15	-2.82
?	"	"	? 6, -5.4	10-8-1			151.8	8.8	0.0	-75.9	-0.15	3.28
?	Floor	? N/A	? 4, -8	10-8-1	9	0.010	-18.2	-47.1	-2.3	-96.6	-0.15	3.28
?	"	"	? 8, -8	10-8-1	8	0.015	44.1	-28.1	-2.3	48.7	-0.15	-2.82
?	"	"	? 8, -6	10-8-1	10	0.014	-3.0	-47.1	14.7	-93.5	-0.15	-2.82
?	"	"	? 6, -6	10-8-1	9	0.010	-9.1	-70.0	-18.1	4.6	-0.15	-2.82
?	"	"	? 2, -4	10-8-1	10	0.014	10.6	-12.9	-4.5	6.8	-0.15	3.28
?	"	"	? 4, -4	10-8-1	9	0.012	-84.4	-100.4	-7.9	-34.2	-0.15	-2.82
?	"	"	? 6, -4	10-8-1	9	0.017	-58.5	-85.2	5.6	-48.7	-0.15	3.28
?	"	"	? 4, -2	10-8-1	10	0.015	-9.1	-28.1	-9.0	-83.6	-0.15	-2.82
?	"	"	? 6, -10	10-8-1	9	0.012	-18.2	-47.1	-3.4	-3.8	-0.15	-2.82
?	North Wall	? N/A	? 2, -4	10-8-1			104.8	-32.0	0.0	131.0	-0.26	-2.49
?	"	"	? 4, -4	10-8-1			416.1	84.4	4.3	154.2	-0.26	-2.49
?	East Wall	"	? 2, -4	10-8-1			387.0	171.7	8.7	148.4	-0.26	-2.49
?	"	"	? 4, -4	10-8-1			250.3	84.4	4.3	160.1	-0.26	-2.49
?	"	"	? 6, -4	10-8-1			357.9	113.5	8.7	139.7	-0.26	3.59
?	"	"	? 8, -4	10-8-1			288.1	142.6	13.0	145.5	-0.26	3.41
?	"	"	? 10, -4	10-8-1			497.6	229.9	0.0	174.6	-0.26	-2.49
?	South Wall	"	? 2, -4	10-8-1			442.3	346.3	4.3	206.6	-0.26	9.66
?	"	"	? 4, -4	10-8-1			40.7	-32.0	8.7	96.0	-0.26	3.59
?	"	"	? 6, -4	10-8-1			288.1	113.5	4.3	61.1	-0.26	3.41
?	West Wall	"	? 2, -4	10-8-1			692.6	404.5	4.3	509.3	-0.26	-2.49
?	"	"	? 6, -4	10-8-2			375.4	288.1	8.7	419.0	-0.26	3.41

TABLE 8

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 8)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)		
?	?	?	REF POINT	CODE										
?	North Wall (1)	?	N/A	?	12, -1.3	10-8-2			342.4	131.2	4.6	76.8	-0.15	-2.82
?	"	?	"	?	10, -1.3	10-8-2			115.2	12.8	-4.6	102.4	-0.15	-2.82
?	"	?	"	?	8, -1.3	10-8-2			179.2	102.4	0.0	-16.0	-0.15	-2.82
?	North Wall (2)	?	"	?	4, -5.4	10-8-2			128.0	19.2	0.0	-22.4	-0.15	-2.82
?	"	?	"	?	2, -5.4	10-8-2			-48.0	-89.6	0.0	-9.6	-0.15	9.39
?	East Wall	?	"	?	2, -5.4	10-8-2			217.6	131.2	4.6	-16.0	-0.15	-2.82
?	"	?	"	?	4, -1.3	10-8-2			140.8	86.4	9.2	25.6	-0.15	-2.82
?	South Wall (1)	?	"	?	2, -1.3	10-8-2			182.4	124.8	0.0	-32.0	-0.15	-2.82
?	"	?	"	?	4, -1.3	10-8-2			217.6	102.4	9.2	-19.2	-0.15	-2.82
?	South Wall (2)	?	"	?	2, -1.3	10-8-2			89.6	-28.8	4.6	204.8	-0.15	-2.82
?	West Wall	?	"	?	2, -5.4	10-8-2			195.2	67.2	-4.6	-51.2	-0.15	3.28
?	"	?	"	?	8, -5.4	10-8-2			140.8	-25.6	0.0	-3.2	-0.15	-2.82
?	Floor	?	N/A	?	2, -2	10-8-2	10	0.023	59.3	-63.9	16.9	-46.4	-0.15	9.39
?	"	?	"	?	4, -2	10-8-2	10	0.020	80.6	50.2	-4.5	101.9	-0.15	-2.82
?	"	?	"	?	4, -4	10-8-2	10	0.024	-70.7	-101.9	14.7	-5.3	-0.15	3.10
?	"	?	"	?	4, -6	10-8-2	10	0.016	45.6	12.2	16.9	-89.0	-0.15	9.39
?	"	?	"	?	2, -6	10-8-2	10	0.015	21.3	4.6	0.0	-5.3	-0.15	-2.18
?	Ceiling Beams	?	N/A	?	2, -4	10-8-2			11.6	-58.2	0.0	-189.2	-0.26	-2.49
?	"	?	"	?	4, -4	10-8-2			90.2	0.0	0.0	-168.8	-0.26	3.59
?	Mezzanine	?	"	?	2, -6	10-8-2			87.3	-58.2	0.0	-168.8	-0.26	-2.49
?	"	?	"	?	4, -6	10-8-2			116.4	-58.2	4.3	-177.5	-0.26	-2.49
?	"	?	"	?	2, -8	10-8-2			276.5	-145.5	8.7	-26.2	-0.26	9.66
?	"	?	"	?	4, -8	10-8-2			244.4	87.3	8.7	-93.1	-0.26	-2.49
?	West Wall	?	"	?	2, -2	10-8-2			250.3	29.1	0.0	101.9	-0.26	-2.49
?	"	?	"	?	4, -2	10-8-2			227.0	58.2	8.7	122.2	-0.26	-2.49
?	"	?	"	?	6, -2	10-8-2			235.7	87.3	4.3	203.7	-0.26	-2.49
?	South Wall	?	"	?	2, -2	10-8-2			261.9	87.3	8.7	174.6	-0.26	-2.49
?	"	?	"	?	4, -2	10-8-2			288.1	0.0	4.3	93.1	-0.26	-2.49
?	East Wall	?	"	?	4, -2	10-8-2			317.2	87.3	4.3	-32.0	-0.26	3.41
?	"	?	"	?	6, -2	10-8-2			261.9	87.3	8.7	-11.6	-0.26	-2.49
?	Mezzanine Floor	?	"	?	2, -4	10-8-2			235.7	87.3	39.0	84.4	-0.26	-2.49

TABLE 9

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 9)

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 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)
West Wall	N/A	1, -.5	10-9-1			136.8	8.7	-4.3	96.0	-0.26	-2.49
"	"	3, -.5	10-9-1			151.3	14.6	4.3	96.0	-0.26	3.41
North Wall	"	0, -.5	10-9-1			264.8	183.3	0.0	49.5	-0.26	-2.49
"	"	2, -.5	10-9-1			-20.4	-98.9	-4.3	-49.5	7.51	-2.49
East Wall	"	1, -.5	10-9-1			-107.7	-165.9	0.0	154.2	5.02	1.52
"	"	3, -.5	10-9-1			139.7	-2.9	-4.3	-23.3	-0.26	-2.49
North Wall	N/A	2, -.3	10-9-2			112.0	-64.0	13.8	73.6	-0.15	-2.82
East Wall	"	2, -.3	10-9-2			227.2	128.0	4.6	80.0	-0.15	-2.82
"	"	8, -.3	10-9-2			32.0	-16.0	0.0	19.2	-0.15	-2.82
South Wall	"	2, -.3	10-9-2			179.2	96.0	4.6	89.6	-0.15	-2.82
"	"	4, -.3	10-9-2			118.4	16.0	4.6	51.2	-0.15	9.03
West Wall	"	2, -.3	10-9-2			256.0	144.0	4.6	64.0	-0.15	-2.82
"	"	4, -.3	10-9-2			217.6	80.0	4.6	137.6	-0.15	-2.82
Floor	"	2, -4	10-9-2	11	0.017	64.0	-102.4	0.0	-70.4	-0.15	-2.82
"	"	2, -6	10-9-2	12	0.021	118.4	0.0	4.6	-3.2	-0.15	-2.82
"	"	2, -8	10-9-2	11	0.018	147.2	-96.0	13.8	-153.6	-0.15	-2.82
"	"	0, -6	10-9-2	11	0.010	-41.6	-80.0	4.6	-44.8	-0.15	3.10
"	"	0, -8	10-9-2	10	0.009	108.8	-70.4	4.6	-38.4	-0.15	3.10
"	"	-2, -6	10-9-2	10	0.010	166.4	16.0	0.0	-9.6	-0.15	3.28
"	"	-2, -8	10-9-2	11	0.015	140.8	-48.0	0.0	-92.8	-0.15	3.10
North Wall (2)	N/A	2, +.5	10-9-2			186.2	75.7	8.7	116.4	-0.26	3.59
East Wall	"	4, +.5	10-9-2			235.7	2.9	8.7	-11.6	7.51	-2.49
South Wall	"	6, +.5	10-9-2			87.3	2.9	8.7	-5.8	-0.26	3.59
"	"	4, +.5	10-9-2			136.8	32.0	0.0	-14.6	-0.26	-2.49
"	"	2, +.5	10-9-2			212.4	2.9	0.0	37.8	-0.26	-2.49
West Wall	"	0, +.5	10-9-2			165.9	75.7	4.3	186.2	-0.26	3.41
"	"	2, +.5	10-9-2			212.4	32.0	4.3	78.6	-0.26	3.59
"	"	4, +.5	10-9-2			145.5	2.9	4.3	40.7	-0.26	3.59
East Wall	"	8, +.5	10-9-2			142.6	61.1	0.0	72.8	-0.26	-2.49
"	"	6, +.5	10-9-2			285.2	148.4	4.3	197.9	-0.26	3.59
"	"	2, +.5	10-9-2			253.2	75.7	8.7	131.0	-0.26	-2.49

TABLE 9

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 9)

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 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)
North Wall	"	2, +.5	10-9-2			221.2	2.9	8.7	128.0	-0.26	-2.49
Overhead	"	2, -2	10-9-2			110.6	-142.6	4.3	-52.4	-0.26	5.53
"	"	2, -4	10-9-2			186.2	2.9	8.7	-113.5	-0.26	-2.49
"	"	2, -6	10-9-2			75.7	-69.8	13.0	-98.9	-0.26	-2.49
Floor	N/A	2, -2	10-9-3	11	0.010	-12.8	-96.0	18.4	25.6	-0.15	-2.82
North Wall	"	4, -.3	10-9-3			160.0	25.6	18.4	32.0	-0.15	-2.82
"	"	6, -.3	10-9-3			326.4	176.0	0.0	102.4	-0.15	-2.82
Ceiling	N/A	1, 1	10-9-3			206.6	-26.2	-4.3	-26.2	-0.26	3.41
"	"	1, -2	10-9-3			37.8	-84.4	-4.3	-52.4	-0.26	5.53
"	"	2, -1	10-9-3			69.8	-84.4	-4.3	-163.0	-0.26	-2.49
"	"	2, -2	10-9-3			250.3	-26.2	0.0	-17.5	-0.26	-2.49
"	"	3, -1	10-9-3			-69.8	-200.8	4.3	-125.1	-0.26	3.59
"	"	3, -2	10-9-3			212.4	-142.6	0.0	8.7	-0.26	-2.49
South Wall	"	4, 0	10-9-3			442.3	32.0	8.7	160.1	-0.26	3.41
"	"	5, 0	10-9-3			116.4	-55.3	17.3	238.6	-0.26	-2.49
"	"	6, 0	10-9-3			346.3	90.2	0.0	253.2	-0.26	-2.49
Floor	2, -2	N/A	10-9-4	10	0.008	16.0	-156.8	4.6	-172.8	-0.15	-2.82
"	2, -4	"	10-9-4	11	0.018	163.2	-112.0	0.0	-243.2	-0.15	3.28
"	4, -4	"	10-9-4	10	0.009	28.8	-44.8	4.6	-214.4	-0.15	-2.82
"	2, -6	"	10-9-4	11	0.010	198.4	-140.8	4.6	-182.4	-0.15	3.10
"	2, -8	"	10-9-4	10	0.009	195.2	-156.8	4.6	-185.6	-0.15	3.28
"	4, -8	"	10-9-4	10	0.011	204.8	-76.8	0.0	-243.2	-0.15	9.39
South Wall	2, -4	"	10-9-4			99.2	51.2	13.8	80.0	-0.15	-2.82
"	4, -4	"	10-9-4			6.4	-28.8	27.6	-22.4	-0.15	3.28
"	6, -4	"	10-9-4			28.8	-44.8	0.0	-6.4	-0.15	-2.82
West Wall	2, -4	"	10-9-4			76.8	-28.8	4.6	-35.2	-0.15	-2.82
"	4, -4	"	10-9-4			256.0	105.6	9.2	41.6	-0.15	-2.82
"	6, -4	"	10-9-4			182.4	83.2	9.2	38.4	-0.15	-2.82
"	8, -4	"	10-9-4			102.4	51.2	0.0	86.4	-0.15	-2.82
East Wall	2, -4	"	10-9-4			281.6	147.2	9.2	48.0	-0.15	-2.82
"	6, -4	"	10-9-4			76.8	3.2	9.2	0.0	-0.15	3.10

TABLE 10

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 10)

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 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	4, -22	10-10-1	12	0.008	107.2	79.1	15.8	61.6	8.05	3.28
"	"	10, -22	10-10-1	12	0.015	82.9	79.1	1.1	46.4	-0.15	3.28
"	"	16, -20	10-10-1	13	0.008	4.6	-16.0	-24.8	34.2	-0.15	-2.82
"	"	16, -12	10-10-1	12	0.016	46.4	-16.0	-10.2	-13.7	-0.15	-2.82
"	"	16, -4	10-10-1	10	0.017	52.5	3.0	6.8	-33.5	-0.15	3.28
West Wall	"	22, -1.3	10-10-1			256.0	67.2	-4.6	25.6	-0.15	-2.82
"	"	10, -1.3	10-10-1			160.0	-60.8	13.8	-54.4	-0.15	-2.82
North Wall	"	4, -1.3	10-10-1			67.2	-140.8	0.0	-86.4	7.81	9.03
"	"	10, -1.3	10-10-1			-147.2	-300.8	0.0	-160.0	8.05	9.39
"	"	14, -1.3	10-10-1			67.2	-156.8	4.6	-48.0	-0.15	3.10
"	"	20, -1.3	10-10-1			70.4	-124.8	0.0	-38.4	-0.15	3.28
North Wall (SH)	N/A	2, -.8	10-10-1			691.2	310.4	0.0	208.0	-0.26	3.59
"	"	4, -.8	10-10-1			432.0	70.4	0.0	227.2	-0.26	-2.49
"	"	6, -.8	10-10-1			672.0	390.4	0.0	307.2	-0.26	-2.49
"	"	8, -.8	10-10-1			492.8	326.4	9.2	163.2	-0.26	-2.49
"	"	10, -.8	10-10-1			624.0	390.4	9.2	105.6	-0.26	3.41
"	"	12, -.8	10-10-1			592.0	390.4	4.6	128.0	-0.26	3.59
Overhead (EH)	"	16, -18	10-10-1			262.4	-89.6	0.0	-246.4	-0.26	-2.49
"	"	16, -16	10-10-1			345.6	70.4	0.0	-25.6	-0.26	-2.49
"	"	16, -12	10-10-1			48.0	-249.6	4.6	-272.0	-0.26	-2.49
"	"	16, -8	10-10-1			51.2	-217.6	13.8	-73.6	-0.26	-2.49
"	"	16, -6	10-10-1			28.8	-249.6	4.6	-323.2	-0.26	3.41
South Wall (NH)	"	2, -.5	10-10-1			64.0	-57.6	0.0	64.0	-0.26	-2.49
North Wall (NH)	"	22, -.5	10-10-1			278.4	70.4	18.4	105.6	-0.26	-2.49
"	"	20, -.5	10-10-1			172.8	6.4	18.4	150.4	-0.26	-2.49
"	"	18, -.5	10-10-1			-108.8	-249.6	4.6	0.0	-0.26	-2.49
Ceiling	N/A	1, -2	10-10-1			171.7	90.2	-4.3	-72.8	-0.26	3.59
"	"	1, -4	10-10-1			206.6	-26.2	-4.3	-34.9	-0.26	9.66
"	"	1, -6	10-10-1			-17.5	-200.8	-4.3	-131.0	-0.26	-2.49

TABLE 10

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 10)

?	?	?	X, Y	LOCATION	COE	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)
?	SURFACE DESCRIPTION	GRID	REF POINT										
?	"	"	1, -8	10-10-1				203.7	-55.3	-4.3	49.5	7.51	-2.49
?	"	"	1, -10	10-10-1				-23.3	-142.6	-4.3	-52.4	-0.26	-2.49
?	"	"	1, -12	10-10-1				52.4	-55.3	-8.7	-133.9	-0.26	3.41
?	"	"	1, -14	10-10-1				206.6	-26.2	-8.7	-49.5	-0.26	-2.49
?	Floor	N/A	4, -2	10-10-2		12	0.015	46.4	15.2	-5.6	-47.9	-0.15	-2.82
?	"	"	4, -4	10-10-2		12	0.012	10.6	3.8	3.4	9.9	-0.15	3.28
?	"	"	4, -6	10-10-2		11	0.035	16.7	-15.2	-14.7	12.9	-0.15	-2.82
?	"	"	2, -6	10-10-2		12	0.015	-24.3	-53.2	-2.3	-25.1	-0.15	-2.82
?	"	"	2, -8	10-10-2		12	0.005	12.2	-15.2	-15.8	-66.2	-0.15	-2.82
?	"	"	2, -10	10-10-2		12	0.010	-52.5	-98.8	-11.3	22.1	-0.15	-2.82
?	North Wall	N/A	2, -2	10-10-2				494.7	215.3	8.7	215.3	-0.26	3.59
?	"	"	4, -2	10-10-2				416.1	142.6	4.3	250.3	-0.26	-2.49
?	South Wall	"	2, -2	10-10-2				448.1	215.3	4.3	337.6	2.38	3.53
?	"	"	4, -2	10-10-2				512.2	273.5	0.0	256.1	-0.26	3.41
?	"	"	6, -2	10-10-2				445.2	157.1	0.0	288.1	-0.26	3.59
?	Floor	N/A	2, -2	10-10-3		10	0.014	11.4	-27.4	13.5	-29.7	-0.15	-2.82
?	"	"	2, -4	10-10-3		10	0.013	87.4	48.7	5.6	32.7	-0.15	9.03
?	"	"	2, -6	10-10-3		10	0.013	59.3	29.7	-3.4	-2.3	-0.15	-2.82
?	West Wall	N/A	2, -1.3	10-10-4				28.8	-124.8	-9.2	-121.6	-0.15	3.28
?	"	"	4, -1.3	10-10-4				185.6	83.2	0.0	-70.4	-0.15	-2.82
?	North Wall	"	2, -1.3	10-10-4				851.2	147.2	0.0	-128.0	-0.15	3.26
?	"	"	6, -1.3	10-10-4				243.2	115.2	4.6	-99.2	-0.15	-2.82
?	Floor	"	2, -2	10-10-4		11	0.011	26.6	-4.6	1.1	16.0	-0.15	-2.82
?	Floor	N/A	2, -2	10-10-6		8	0.011	95.8	65.4	14.7	16.7	-0.15	-2.82
?	"	"	2, -4	10-10-6		10	0.011	80.6	54.0	19.2	19.8	-0.15	3.28
?	Floor	N/A	2, -2	10-10-7		11	0.015	82.1	28.9	21.5	107.2	-0.15	-2.82
?	West Wall	"	2, -4	10-10-7				163.2	35.2	0.0	3.2	-0.15	-2.82
?	North Wall	"	2, -4	10-10-7				38.4	-140.8	13.8	-108.8	-0.15	3.28
?	South Wall	"	2, -4	10-10-7				220.8	115.2	4.6	-9.6	-0.15	-2.82

TABLE 11

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 11)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE	(microR/hr)	(nR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	Floor	N/A	2, -2	10-11-1	8	0.013	5.3	-38.8	-3.4	-50.9	-0.15	9.03
?	"		4, -2	10-11-1	9	0.009	12.9	-8.4	-9.0	6.1	-0.15	3.28
?	East Wall	N/A	2, -3	10-11-1			169.6	115.2	0.0	137.6	-0.15	-2.82
?	South Wall	"	2, -3	10-11-1			44.8	19.2	-4.6	-76.8	-0.15	-2.82
?	"	"	4, -3	10-11-1			67.2	-44.8	4.6	-102.4	-0.15	3.28
?	Floor	N/A	1, -6	10-11-2	12	0.015	-58.5	-76.0	-15.8	-27.4	-0.15	-2.82
?	"	"	1, -4	10-11-2	13	0.010	31.9	0.0	-10.2	-21.3	-0.15	-2.82
?	"	"	2, -4	10-11-2	11	0.010	17.5	0.0	-18.1	29.7	-0.15	3.28
?	"	"	3, -4	10-11-2	11	0.008	-25.1	-53.2	2.3	11.4	-0.15	-2.82
?	"	"	4, -4	10-11-2	11	0.013	74.5	38.0	-10.2	31.9	-0.15	3.10
?	"	"	1, -2	10-11-2	12	0.014	2.3	-19.0	10.2	-25.9	-0.15	3.10
?	"	"	4, -2	10-11-2	11	0.016	11.4	-3.8	-21.5	37.3	-0.15	3.10
?	* East Wall	N/A	5, -3	10-11-2			585.6	448.0	4.6	342.4	-0.15	-2.82
?	"	"	1, -3	10-11-2			1024.0	768.0	4.6	227.2	-0.15	-2.82
?	South Wall	"	5, -3	10-11-2			316.8	224.0	18.4	6.4	-0.15	3.10
?	North Wall	"	2, -3	10-11-2			643.2	128.0	4.6	118.4	-0.15	3.28
?	Floor	N/A	1, -1	10-11-3	12	0.015	-42.6	-57.0	-9.0	-47.1	-0.15	-2.82
?	"	"	2, -2	10-11-3	11	0.010	69.2	0.0	-11.3	-12.2	-0.15	-2.82
?	"	"	2, -1	10-11-3	11	0.010	-22.8	-41.8	-2.3	-85.2	8.05	-2.82
?	"	"	4, -2	10-11-3	11	0.005	25.9	0.0	-1.1	4.6	-0.15	-2.82
?	Upper Surf., E. Wall	N/A	1, -3	10-11-3			851.2	800.0	9.2	921.6	-0.15	-2.82
?	"	"	2, -3	10-11-3			915.2	864.0	0.0	816.0	-0.15	-2.82
?	" North Wall	"	1, -3	10-11-3			1152.0	800.0	4.6	512.0	-0.15	-2.82
?	Floor	N/A	4, -2	10-11-4	11	0.009	51.7	9.9	-7.9	-28.1	-0.15	-2.82
?	"	"	3, -1	10-11-4	11	0.012	119.4	85.9	-10.2	-9.1	-0.15	3.28
?	"	"	2, -1	10-11-4	12	0.009	24.3	9.9	-1.1	-27.4	-0.15	9.03
?	"	"	2, -2	10-11-4	11	0.013	22.1	2.3	-6.8	-0.8	2.56	3.22
?	"	"	1, -1	10-11-4	11	0.009	6.8	-5.3	-11.3	23.6	-0.15	-2.82
?	East Wall Closet	N/A	1, -3	10-11-4			515.2	294.4	-4.6	336.0	-0.15	-2.82

TABLE 11

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 11)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY		
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA	
?	?	?	REF POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	
?	(Upper Surf. Wall)	?	"	?	2, -3	10-11-4		320.0	115.2	-18.4	428.8	-0.15	-2.82
?	Floor	?	N/A	?	3, -2	10-11-7	11	-3.8	-30.4	0.0	32.7	-0.15	-2.82
?	"	?	"	?	3, 0	10-11-7	11	-13.7	-38.0	1.1	-23.6	-0.15	-2.82
?	"	?	"	?	2, -2	10-11-7	11	5.3	0.0	-4.5	-10.6	-0.15	-2.82
?	North Wall	?	N/A	?	2, -1.3	10-11-7		265.6	86.4	0.0	44.8	-0.15	-2.82
?	Concrete Block	?	"	?	4, -1.3	10-11-7		182.4	38.4	13.8	35.2	-0.15	3.28
?	"	?	"	?	6, -1.3	10-11-7		108.8	-9.6	-13.8	38.4	-0.15	-2.82
?	"	?	"	?	8, -1.3	10-11-7		272.0	118.4	-9.2	99.2	-0.15	-2.82
?	"	?	"	?	10, -1.3	10-11-7		-92.8	-137.6	9.2	83.2	-0.15	9.39
?	East Wall, Brick	?	"	?	2, -1.3	10-11-7		556.8	182.4	-4.6	406.4	-0.15	3.28
?	"	?	"	?	4, -1.3	10-11-7		560.0	166.4	-13.8	352.0	-0.15	-2.82
?	"	?	"	?	6, 1.3	10-11-7		566.4	214.4	9.2	374.4	-0.15	9.03
?	South Wall, Block	?	"	?	2, -1.3	10-11-7		569.6	342.4	-10.1	342.4	-0.15	9.39
?	"	?	"	?	6, -1.3	10-11-7		92.8	-25.6	-4.6	76.8	-0.15	-2.82
?	"	?	"	?	8, -1.3	10-11-7		214.4	54.4	9.2	169.6	-0.15	3.28
?	West Wall, Block	?	"	?	2, -1.3	10-11-7		60.8	-41.6	-13.8	92.8	-0.15	3.28
?	"	?	"	?	4, -1.3	10-11-7		115.2	6.4	-13.8	99.2	-0.15	3.28
?	"	?	"	?	6, -1.3	10-11-7		96.0	-25.6	-9.2	140.8	-0.15	-2.82
?	N. Wall Upper Surf.	?	N/A	?	2, -3	10-11-7		137.6	22.4	-13.8	70.4	-0.15	3.28
?	" /Block	?	"	?	4, -3	10-11-7		115.2	-9.6	-9.2	44.8	-0.15	-2.82
?	"	?	"	?	6, -3	10-11-7		390.4	118.4	4.6	60.8	-0.15	-2.82
?	"	?	"	?	8, -3	10-11-7		150.4	54.4	-4.6	99.2	-0.15	9.39
?	"	?	"	?	10, -3	10-11-7		192.0	86.4	-9.2	121.6	-0.15	-2.82
?	E. Wall Brick	?	"	?	2, -3	10-11-7		361.6	150.4	-13.8	371.2	-0.15	9.03
?	"	?	"	?	4, -3	10-11-7		387.2	134.4	0.0	297.6	-0.15	3.10
?	"	?	"	?	6, -3	10-11-7		176.0	22.4	18.4	294.4	-0.15	-2.82
?	South Wall	?	"	?	2, -3	10-11-7		265.6	118.4	-9.2	246.4	-0.15	9.03
?	S. Wall, Brick	?	"	?	4, -3	10-11-7		227.2	118.4	-13.8	144.0	-0.15	-2.82
?	"	?	"	?	6, -3	10-11-7		-64.0	-137.6	9.2	294.4	-0.15	-2.82

TABLE 12

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 12)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)	
?	SURFACE DESCRIPTION	?	GRID	?	REF POINT	?	CODE						
?	East Wall	?	N/A	?	2, -5.4		10-12-1						
?	"	?	"	?	8, -5.4		10-12-1						
?	"	?	"	?	12, -5.4		10-12-1						
?	"	?	"	?	14, -5.4		10-12-1						
?	"	?	"	?	20, -5.4		10-12-1						
?	South Wall	?	"	?	2, -5.4		10-12-1						
?	"	?	"	?	4, -5.4		10-12-1						
?	"	?	"	?	12, -5.4		10-12-1						
?	"	?	"	?	14, -5.4		10-12-1						
?	West Wall	?	"	?	4, -5.4		10-12-1						
?	"	?	"	?	6, -5.4		10-12-1						
?	West Wall	?	N/A	?	12, -5.4		10-12-1						
?	"	?	"	?	18, -5.4		10-12-1						
?	Floor	?	"	?	2, -2	7	10-12-1	0.017					
?	"	?	"	?	4, -2	7	10-12-1	0.009					
?	"	?	"	?	6, -2	7	10-12-1	0.014					
?	"	?	"	?	8, -2	6	10-12-1	0.012					
?	"	?	"	?	12, -2	6	10-12-1	0.015					
?	"	?	"	?	12, -4	9	10-12-1	0.010					
?	"	?	"	?	12, -6	8	10-12-1	0.013					
?	"	?	"	?	8, -6	8	10-12-1	0.007					
?	"	?	"	?	6, -6	8	10-12-1	0.015					
?	"	?	"	?	6, -8	9	10-12-1	0.012					
?	"	?	"	?	6, -12	7	10-12-1	0.010					
?	"	?	"	?	8, -8	7	10-12-1	0.009					
?	"	?	"	?	4, -12	9	10-12-1	0.016					
?	Floor	?	N/A	?	4, -14	8	10-12-1	0.017					
?	"	?	"	?	4, -16	8	10-12-1	0.012					
?	"	?	"	?	4, -18	9	10-12-1	0.013					
?	"	?	"	?	6, -18	8	10-12-1	0.008					
?	"	?	"	?	6, -22	7	10-12-1	0.012					

TABLE 12

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, FIRST FLOOR (SECTION 10, UNIT 12)

?	?	?	X, Y	LOCATION	?	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY		
								MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA	
?	SURFACE DESCRIPTION	?	GRID	?	REF	?	?	?	?	?	?	?	?	
?	?	?	POINT	?	CODE	?	?	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	
?	"	?	"	?	0, -22	10-12-1	7	0.009	1.5	-31.2	5.6	13.7	-0.15	3.10
?	"	?	"	?	10, -22	10-12-1	9	0.015	74.5	48.7	10.2	32.7	-0.15	-2.82
?	"	?	"	?	14, -22	10-12-1	8	0.014	65.4	18.2	0.0	-46.4	-0.15	-2.82
?	South Wall	?	6, -1	?	N/A	10-12-1			477.2	357.9	0.0	308.5	-0.26	-2.49
?	"	?	8, -1	?	"	10-12-1			439.4	328.8	4.3	427.8	7.51	-2.49
?	"	?	10, -1	?	"	10-12-1			413.2	154.2	73.6	442.3	-0.26	-2.49
?	Cable Tray	?	@ 6 m.	?	"	10-12-1			186.2	37.8	4.3	189.2	-0.26	-2.49
?	" /South Wall	?	@10 m.	?	"	10-12-1			346.3	125.1	17.3	101.9	-0.26	-2.49
?	Roll Up Door	?	@4 m.	?	"	10-12-1			299.7	125.1	13.0	168.8	-0.26	3.59
?	" /South Wall	?	@8 m.	?	"	10-12-1			346.3	-20.4	8.7	125.1	-0.26	-2.49
?	Jib Crane Rail #1	?	Midpoint	?	"	10-12-1			-46.6	-165.9	13.0	-46.6	-0.26	-2.49
?	South Wall	?	4, -3.4	?	"	10-12-1			451.1	299.7	39.0	497.6	-0.26	3.59
?	Ceiling Beam	?	4, -16	?	"	10-12-1			116.4	8.7	0.0	-64.0	-0.26	-2.49
?	"	?	6, -16	?	"	10-12-1			87.3	8.7	0.0	-69.8	-0.26	3.41
?	"	?	4, -14	?	"	10-12-1			366.7	37.8	4.3	-17.5	-0.26	3.59
?	"	?	6, -14	?	"	10-12-1			96.0	-49.5	8.7	-14.6	-0.26	-2.49
?	"	?	4, -12	?	"	10-12-1			-78.6	-165.9	0.0	-66.9	-0.26	3.59
?	"	?	6, -12	?	"	10-12-1			14.6	-78.6	8.7	-40.7	-0.26	3.41
?	Ceiling Beam	?	4, -8	?	N/A	10-12-1			26.2	-93.1	13.0	-20.4	-0.26	-2.49
?	"	?	6, -8	?	"	10-12-1			-2.9	-165.9	4.3	14.6	-0.26	-2.49
?	"	?	6, -6	?	"	10-12-1			139.7	66.9	4.3	-91.5	-0.26	-2.49
?	"	?	4, -6	?	"	10-12-1			247.4	37.8	26.0	-128.0	-0.26	3.59
?	"	?	6, -4	?	"	10-12-1			69.8	-78.6	8.7	-46.6	-0.26	-2.49
?	"	?	4, -4	?	"	10-12-1			-206.6	-282.3	13.0	-69.8	-0.26	-2.49
?	South Wall	?	N/A	?	10, -4.4	10-12-1			183.3	270.6	8.7	692.6	-0.26	-2.49
?	"	?	"	?	12, -4.4	10-12-1			779.9	416.1	4.3	704.2	-0.26	-2.49
?	"	?	"	?	14, -4.4	10-12-1			832.3	532.5	0.0	698.4	-0.26	3.59
?	West Wall	?	"	?	4, -4.4	10-12-1			637.3	183.3	4.3	558.7	-0.26	-2.49
?	"	?	"	?	6, -4.4	10-12-1			727.5	590.7	4.3	558.7	-0.26	-2.49
?	"	?	"	?	8, -4.4	10-12-1			666.4	518.0	39.0	209.5	7.74	3.59
?	North Wall	?	"	?	6, -4.4	10-12-1			261.9	66.9	4.3	215.3	-0.26	-2.49

TABLE 13
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 10 - BUILDING 9, 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						
10 -1	14	8.000	15.000	11.860	2.360	MicroR/hour
10 -10	18	8.000	13.000	11.110	1.200	MicroR/hour
10 -11	21	8.000	13.000	11.050	1.000	MicroR/hour
10 -12	21	6.000	9.000	7.710	0.930	MicroR/hour
10 -2	17	9.000	12.000	10.590	0.910	MicroR/hour
10 -3	22	12.000	13.000	12.860	0.340	MicroR/hour
10 -4	29	8.000	11.000	10.450	0.810	MicroR/hour
10 -5	18	8.000	11.000	10.330	0.940	MicroR/hour
10 -5	18	8.000	11.000	10.330	0.940	MicroR/hour
10 -6	26	8.000	12.000	10.310	1.380	MicroR/hour
10 -8	14	8.000	10.000	9.500	0.630	MicroR/hour
10 -9	20	9.000	12.000	10.450	0.740	MicroR/hour
** Subtotal **	238					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
10 -1	14	0.010	0.020	0.015	0.005	MilliRem/hour
10 -10	18	0.005	0.035	0.014	0.006	MilliRem/hour
10 -11	21	0.005	0.016	0.011	0.003	MilliRem/hour
10 -12	21	0.007	0.017	0.012	0.003	MilliRem/hour
10 -2	17	0.007	0.018	0.011	0.003	MilliRem/hour
10 -3	22	0.010	0.010	0.010	0.000	MilliRem/hour
10 -4	41	0.010	0.030	0.012	0.005	MilliRem/hour
10 -5	18	0.010	0.010	0.010	0.000	MilliRem/hour
10 -5	18	0.100	0.100	0.100	0.000	MilliRem/hour
10 -6	26	0.010	0.020	0.012	0.004	MilliRem/hour
10 -8	14	0.010	0.024	0.016	0.004	MilliRem/hour
10 -9	20	0.008	0.021	0.013	0.004	MilliRem/hour
** Subtotal **	250					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
10 -1	30	12.000	811.900	241.000	191.700	DPM/100 cm ²
10 -10	61	-195.000	851.200	177.200	218.300	DPM/100 cm ²
10 -11	62	-92.800	1152.000	223.200	279.900	DPM/100 cm ²
10 -12	64	-206.600	832.300	130.000	236.200	DPM/100 cm ²
10 -2	68	-1532.800	537.600	18.700	303.000	DPM/100 cm ²
10 -3	62	-1209.000	752.000	94.400	280.000	DPM/100 cm ²
10 -4	79	-28.800	909.800	272.800	179.700	DPM/100 cm ²
10 -5	61	-82.200	657.700	231.700	157.000	DPM/100 cm ²
10 -5	61	-82.200	657.700	231.700	157.000	DPM/100 cm ²
10 -6	60	-70.000	428.800	125.000	130.600	DPM/100 cm ²
10 -8	66	-84.400	692.600	162.700	147.300	DPM/100 cm ²
10 -9	69	-201.600	442.300	124.600	126.300	DPM/100 cm ²
** Subtotal **						

TABLE 13
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 10 - BUILDING 9, FIRST FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
743						
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
10 -1	30	-154.200	550.000	105.500	141.100	DPM/100 cm ²
10 -10	61	-302.600	390.400	12.900	161.600	DPM/100 cm ²
10 -11	62	-137.600	864.000	97.500	214.500	DPM/100 cm ²
10 -12	64	-282.300	590.700	17.800	189.900	DPM/100 cm ²
10 -2	68	-508.800	467.200	-97.000	233.000	DPM/100 cm ²
10 -3	62	-368.000	326.400	-23.300	182.100	DPM/100 cm ²
10 -4	79	-86.400	284.800	84.600	90.000	DPM/100 cm ²
10 -5	61	-251.900	308.500	13.200	129.000	DPM/100 cm ²
10 -5	61	-251.900	308.500	13.200	129.000	DPM/100 cm ²
10 -6	60	-185.600	358.400	21.700	97.800	DPM/100 cm ²
10 -8	66	-145.500	404.500	40.700	103.900	DPM/100 cm ²
10 -9	69	-284.800	183.300	-25.400	107.000	DPM/100 cm ²
** Subtotal **						
743						
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
10 -1	30	-1.200	13.000	1.900	3.100	DPM/100 cm ²
10 -10	61	-24.800	21.500	1.800	8.800	DPM/100 cm ²
10 -11	62	-21.500	23.000	-3.400	9.600	DPM/100 cm ²
10 -12	64	-20.300	73.600	6.800	13.700	DPM/100 cm ²
10 -2	68	-13.800	18.100	-2.200	8.600	DPM/100 cm ²
10 -3	62	-67.700	18.400	-13.700	24.000	DPM/100 cm ²
10 -4	79	-13.200	23.000	3.100	7.100	DPM/100 cm ²
10 -5	61	-12.400	26.000	2.200	7.500	DPM/100 cm ²
10 -5	61	-12.400	26.000	2.200	7.500	DPM/100 cm ²
10 -6	60	-23.000	14.700	-7.700	9.400	DPM/100 cm ²
10 -8	66	-18.100	129.900	5.200	17.500	DPM/100 cm ²
10 -9	69	-4.300	27.600	5.100	6.200	DPM/100 cm ²
** Subtotal **						
743						
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
10 -1	30	-98.900	523.800	134.100	136.000	DPM/100 cm ²
10 -10	61	-323.200	337.600	9.400	132.900	DPM/100 cm ²
10 -11	62	-102.400	921.600	137.600	201.100	DPM/100 cm ²
10 -12	64	-148.300	704.200	103.000	212.400	DPM/100 cm ²
10 -2	68	-403.200	422.400	-31.000	194.700	DPM/100 cm ²
10 -3	62	-438.400	361.600	-1.300	181.400	DPM/100 cm ²
10 -4	79	-147.200	320.000	74.900	102.300	DPM/100 cm ²
10 -5	61	-221.200	445.200	66.000	145.800	DPM/100 cm ²
10 -5	61	-221.200	445.200	66.000	145.800	DPM/100 cm ²
10 -6	60	-121.600	304.000	37.600	100.800	DPM/100 cm ²
10 -8	66	-189.200	509.300	31.500	124.300	DPM/100 cm ²

TABLE 13
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 10 - BUILDING 9, FIRST FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
10 -9	69	-243.200	253.200	-6.000	118.900	DPM/100 cm ²
** Subtotal **	743					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
10 -1	30	-0.260	-0.260	-0.260	0.000	DPM/100 cm ²
10 -10	61	-0.260	8.050	0.360	2.010	DPM/100 cm ²
10 -11	62	-0.150	8.050	0.030	1.080	DPM/100 cm ²
10 -12	64	-0.260	8.050	0.170	1.690	DPM/100 cm ²
10 -2	68	-0.150	8.050	0.330	1.910	DPM/100 cm ²
10 -3	62	-0.150	8.050	0.900	2.740	DPM/100 cm ²
10 -4	79	-0.260	8.050	0.000	1.270	DPM/100 cm ²
10 -5	61	-0.260	7.740	0.050	1.400	DPM/100 cm ²
10 -5	61	-0.260	7.740	0.050	1.400	DPM/100 cm ²
10 -6	60	-0.260	7.810	0.320	1.950	DPM/100 cm ²
10 -8	66	-0.260	-0.150	-0.200	0.060	DPM/100 cm ²
10 -9	69	-0.260	7.510	0.100	1.430	DPM/100 cm ²
** Subtotal **	743					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
10 -1	30	-2.490	9.660	0.110	4.010	DPM/100 cm ²
10 -10	61	-2.820	9.660	0.110	3.700	DPM/100 cm ²
10 -11	62	-2.820	9.390	0.670	4.380	DPM/100 cm ²
10 -12	64	-2.820	15.490	1.010	4.440	DPM/100 cm ²
10 -2	68	-2.820	9.390	0.290	4.080	DPM/100 cm ²
10 -3	62	-2.820	14.950	-0.190	4.130	DPM/100 cm ²
10 -4	79	-2.820	9.390	-0.030	3.580	DPM/100 cm ²
10 -5	61	-2.820	9.660	-0.680	3.260	DPM/100 cm ²
10 -5	61	-2.820	9.660	-0.680	3.260	DPM/100 cm ²
10 -6	60	-2.820	9.660	1.440	4.110	DPM/100 cm ²
10 -8	66	-2.820	9.660	-0.090	3.960	DPM/100 cm ²
10 -9	69	-2.820	9.390	-0.010	3.380	DPM/100 cm ²
** Subtotal **	743					
*** Total ***	4946					

TABLE 14

SUMMARY OF RADIOLOGICAL SCAN DATA FOR BUILDING 9, FIRST FLOOR (SURVEY SECTION 10)

LOCATION CODE	SURFACE DESCRIPTION	EST % SCANNED	BETA SCAN SURVEY		ACCEPTANCE CRITERIA		UNITS	% OF ACCEPTANCE CRITERIA	
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE		MAXIMUM	AVERAGE
10-02-1	TILE ON CONCRETE	50	218	133	15,000	5,000	DPM/100 cm ²	1.46%	2.65%
10-02-2	PAINTED CONCRETE	50	70	-54	15,000	5,000	DPM/100 cm ²	0.47%	-1.08%
10-02-3	TILE ON CONCRETE	50	21	-70	15,000	5,000	DPM/100 cm ²	0.14%	-1.39%
10-02-4	TILE ON CONCRETE	50	-42	-132	15,000	5,000	DPM/100 cm ²	-0.28%	-2.64%
10-03-1	PAINT ON CONCRETE	50	140	28	15,000	5,000	DPM/100 cm ²	0.93%	0.56%
10-03-2	PAINTED CONCRETE	50	119	24	15,000	5,000	DPM/100 cm ²	0.79%	0.47%
10-03-2	PAINT ON CONCRETE	50	153	-3	15,000	5,000	DPM/100 cm ²	1.02%	-0.06%
10-03-3	PAINT ON CONCRETE	50	197	-34	15,000	5,000	DPM/100 cm ²	1.31%	-0.68%
10-03-4	PAINT ON CONCRETE	50	101	-65	15,000	5,000	DPM/100 cm ²	0.67%	-1.31%
10-03-5	PAINT ON CONCRETE	50	140	-103	15,000	5,000	DPM/100 cm ²	0.93%	-2.05%
10-04-1	TILE ON CONCRETE	50	146	-32	15,000	5,000	DPM/100 cm ²	0.97%	-0.63%
10-04-2	TILE ON CONCRETE	50	146	-32	15,000	5,000	DPM/100 cm ²	0.97%	-0.63%
10-04-3	CPT ON TILE FLOOR	50	-41	-32	15,000	5,000	DPM/100 cm ²	-0.27%	-0.63%
10-04-4	CARPET ON TILE	50	59	-128	15,000	5,000	DPM/100 cm ²	0.39%	-2.55%
10-04-5	TILE ON CONCRETE	50	124	-1	15,000	5,000	DPM/100 cm ²	0.83%	-0.01%
10-04-6	CARPET ON TILE	50	105	-96	15,000	5,000	DPM/100 cm ²	0.70%	-1.93%
10-04-7	CARPET ON TILE	50	140	-19	15,000	5,000	DPM/100 cm ²	0.93%	-0.37%
10-04-3 TO 7	TILE & CONCRETE *	60	150	40	15,000	5,000	DPM/100 cm ²	1.00%	0.80%
10-05-1	TILE ON CONCRETE	30	167	-32	15,000	5,000	DPM/100 cm ²	1.12%	-0.63%
10-05-2	TILE ON CONCRETE	30	62	-63	15,000	5,000	DPM/100 cm ²	0.41%	-1.26%
10-05-3	TILE ON CONCRETE	30	205	-38	15,000	5,000	DPM/100 cm ²	1.36%	-0.76%
10-06-1	TILE ON CONCRETE	50	141	30	15,000	5,000	DPM/100 cm ²	0.94%	0.61%
10-06-3	TILE & CARPET	50	-19	-156	15,000	5,000	DPM/100 cm ²	-0.13%	-3.12%
10-06-3	TILE & CONCRETE *	80	237	120	15,000	5,000	DPM/100 cm ²	1.58%	2.40%
10-06-4	TILE & CARPET	50	-19	-156	15,000	5,000	DPM/100 cm ²	-0.13%	-3.12%
10-06-5	TILE & CARPET	50	-19	-156	15,000	5,000	DPM/100 cm ²	-0.13%	-3.12%
10-06-6	TILE & CARPET	50	-19	-156	15,000	5,000	DPM/100 cm ²	-0.13%	-3.12%
10-06-7	TILE ON CONCRETE	50	-48	-96	15,000	5,000	DPM/100 cm ²	-0.32%	-1.93%
10-06-7	TILE ON CONCRETE	50	-40	-96	15,000	5,000	DPM/100 cm ²	-0.27%	-1.93%
10-08-1	TILE ON CONCRETE	50	-64	-179	15,000	5,000	DPM/100 cm ²	-0.43%	-3.57%

NOTE: * = ADDITIONAL SCAN AFTER REMOVAL OF CARPET FROM THESE AREAS.

TABLE 14 (CONTINUED)

SUMMARY OF RADIOLOGICAL SCAN DATA FOR BUILDING 9, FIRST FLOOR (SURVEY SECTION 10)

LOCATION CODE	SURFACE DESCRIPTION	EST % SCANNED	BETA SCAN SURVEY		ACCEPTANCE CRITERIA		UNITS	% OF ACCEPTANCE CRITERIA	
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE		MAXIMUM	AVERAGE
10-08-2	TILE ON CONCRETE	50	197	-7	15,000	5,000	DPM/100 cm ²	1.31%	-0.15%
10-09-1	TILE ON CONCRETE	50	176	14	15,000	5,000	DPM/100 cm ²	1.17%	0.29%
10-09-2	TILE ON CONCRETE	50	254	39	15,000	5,000	DPM/100 cm ²	1.70%	0.78%
10-09-3	TILE ON CONCRETE	50	21	-54	15,000	5,000	DPM/100 cm ²	0.14%	-1.08%
10-09-4	TILE ON STEEL	50	105	-22	15,000	5,000	DPM/100 cm ²	0.70%	-0.44%
10-10-1	TILE ON CONCRETE	30	269	62	15,000	5,000	DPM/100 cm ²	1.80%	1.23%
10-10-2	TILE ON CONCRETE	30	16	-179	15,000	5,000	DPM/100 cm ²	0.10%	-3.57%
10-10-4	TILE ON CONCRETE	30	-50	-159	15,000	5,000	DPM/100 cm ²	-0.34%	-3.17%
10-10-5	CARPT ON CONCRETE	30	147	39	15,000	5,000	DPM/100 cm ²	0.98%	0.78%
10-10-6	TILE ON CONCRETE	30	147	39	15,000	5,000	DPM/100 cm ²	0.98%	0.78%
10-11-1	TILE ON CONCRETE	30	-17	-78	15,000	5,000	DPM/100 cm ²	-0.11%	-1.57%
10-11-2	TILE ON CONCRETE	30	-38	-63	15,000	5,000	DPM/100 cm ²	-0.25%	-1.26%
10-11-7	CARPET ON CONCR.	30	271	205	15,000	5,000	DPM/100 cm ²	1.81%	4.11%
10-12-1	TILE ON CONCRETE	30	424	259	15,000	5,000	DPM/100 cm ²	2.82%	5.17%
10-13-1	TILE ON CONCRETE	30	-19	-85	15,000	5,000	DPM/100 cm ²	-0.12%	-1.70%
10-13-2	CARPT ON CONCRETE	30	77	-132	15,000	5,000	DPM/100 cm ²	0.51%	-2.64%

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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	310
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1465

SURVEY DATE: 3/17/93
COUNT DATE: 3/17/93

(*)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	.01 mr/hr
*	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	1, -2	12	.01	1544	1475	4	1440	-0.264	-2.49	Floor monitor used for
"	"	2, -2	11	.01	1581	1500	4	1529	-0.264	-2.49	scans & 1 minute
"	"	3, -2	10	.01	1733	1500	11	1580	-0.264	-2.49	counts
"	"	3, -1	10	.01	1636	1600	10	1542	-0.264	3.41	"
North Wall - Block	"	2, -1.2	N/A	N/A	494	427	0	369	-0.264	-2.49	ESP's used for scans &
"	"	4, -1.2	"	"	466	340	0	377	-0.264	-2.49	one minute counts
South Wall - Brick	"	2, -1.2	"	"	589	499	1	490	-0.264	3.59	"
"	"	4, -1.2	"	"	543	420	1	450	-0.264	3.59	"

FORM SERIAL #: 10-095 (Survey Section - Sequential survey #)	LOCATION # 10-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0359	SURVEYOR SIGNATURE: TS <i>D. Shaff</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\100101.XLD
 Batch Ended: 3/17/93 10:30
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

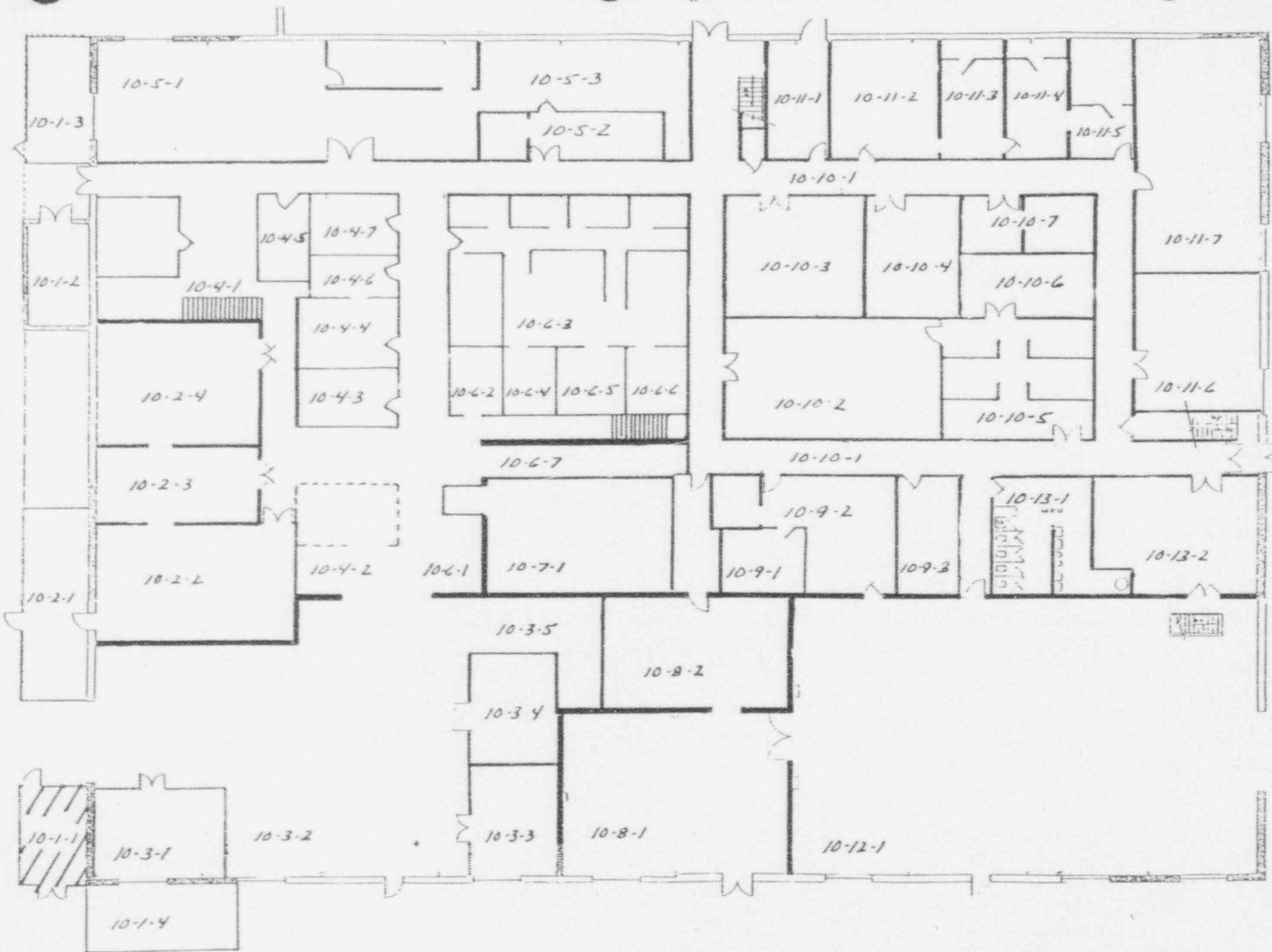
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-1-1 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	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:26
2	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:27
3	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:27
4	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/17/93 10:28
5	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:28
6	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:29
7	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.70	3/17/93 10:29
8	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.70	3/17/93 10:30

BUILDING #9 FIRST FLOOR

NORTH
←



(*)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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	273
	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	18.8%	5.3	3	*	FLMON:91943	28.8%	3.47	1307

SURVEY DATE: 3/17/93
 COUNT DATE: 3/17/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	.01 uR/hr
	E520: 5242	mr/hr
*	E520: 5245	13 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	1, -1	14	.02	1352	1325	6	1393	-0.264	-2.49	Used Floor monitor 3/30/93 AJM
"	"	2, -1	15	.02	1430	1400	4	1489	-0.264	9.66	
"	"	3, -1	14	.02	1777	1600	2	1674	-0.264	3.41	
"	"	4, -1	13	.02	1647	1600	5	1604	-0.264	-2.49	
"	"	3, -2	15	.02	1428	1350	6	1387	-0.264	-2.49	
"	"	4, -2	15	.02	1605	1500	r	1539	-0.264	-2.49	
North Wall	"	2, -1.1	N/A	N/A	279	220	0	268	-0.264	-2.49	Block
"	"	4, -1.1	"	"	323	270	0	282	-0.264	-2.49	"
East Wall	"	2, -.8	"	"	314	250	0	239	-0.264	9.31	"
South Wall	"	2, -1.1	"	"	375	290	0	331	-0.264	3.59	Brick
"	"	4, -2.1	"	"	366	280	0	281	-0.264	-2.49	"
West Wall	"	2, -1.1	"	"	279	240	0	239	-0.264	-2/49	Block

FORM SERIAL #: 10-096 LOCATION # 10-1-2 SURVEY CLASSIFICATION: I DISK FILE CODE: FDS-0360 SURVEYOR SIGNATURE: TS
 (Survey Section - Sequential survey #) (Survey Section - Unit # - Sub Unit #) (Group I, II, III, IV)

[Handwritten Signature]

LB5100W Low Background Counting System – Smear Analysis

Date: 3/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT\1\100102.XLD
 Batch Ended: 3/17/93 10:36
 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: 1435

Application Revision: 2
 Application Version: Standard

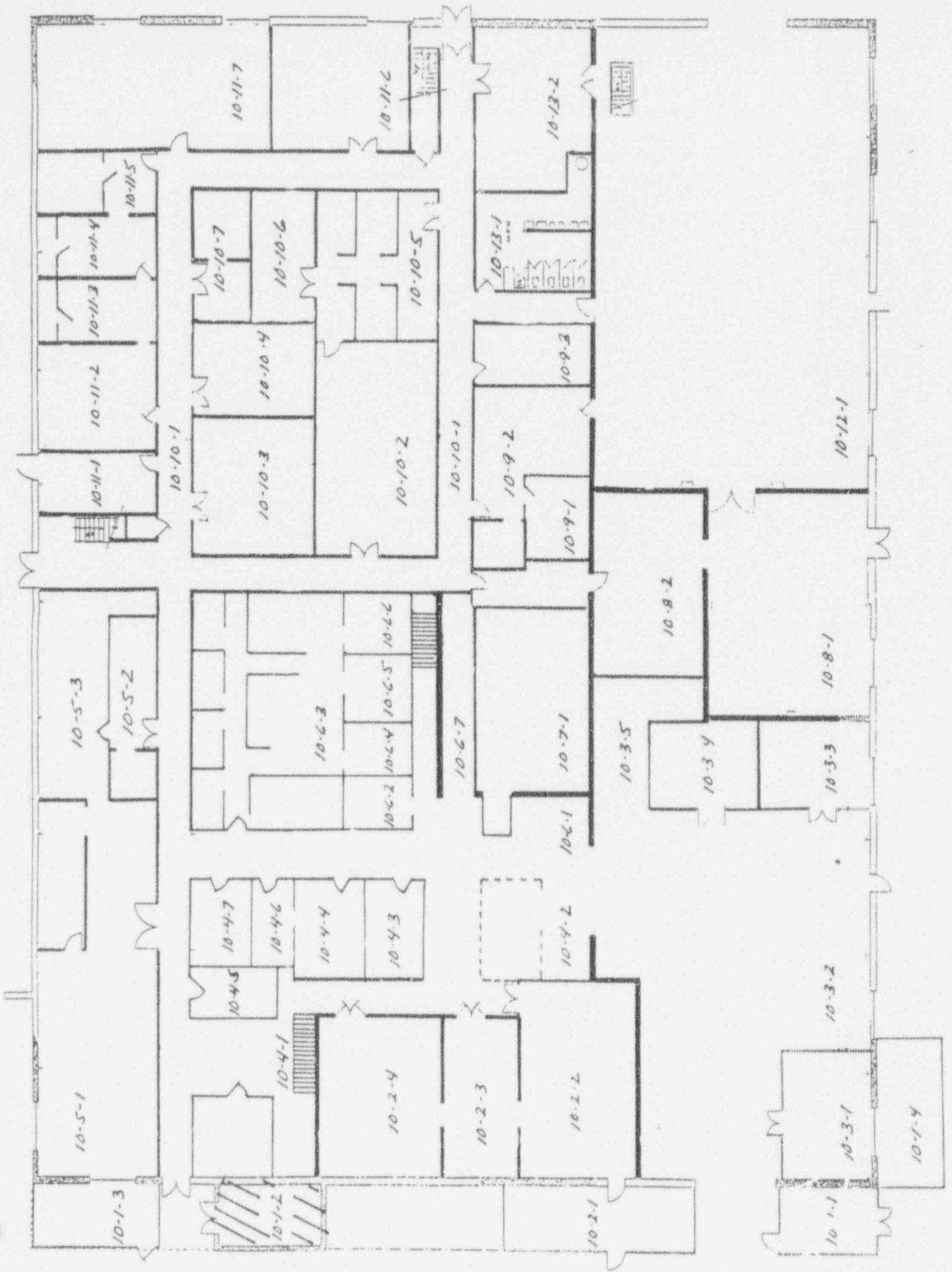
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-1-2 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TGD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
9	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:30
10	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/17/93 10:31
11	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/17/93 10:31
12	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:32
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:32
14	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:33
15	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:33
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:34
17	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/17/93 10:34
18	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 10:35
19	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:36
20	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:36

BUILDING #9 FIRST FLOOR



NORTH



(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	273
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1325

SURVEY DATE: 3/17/93
 COUNT DATE: 3/17/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	1, -1	10	.01	1489	1425	6	1445	-0.264	-2.49	Floor monitor used for
"	"	2, -1	10	.02	1474	1400	6	1438	-0.264	3.41	scans & 1 minute counts
"	"	3, -1	8	.01	1420	1400	3	1405	-0.264	-2.49	"
"	"	4, -1	9	.01	1340	1300	5	1322	-0.264	-2.49	"
South Wall	"	6, -1.1	N/A	N/A	397	340	0	344	-0.264	3.59	ESP's used for scans &
"	"	4, -1.1	"	"	363	310	0	343	-0.264	-2.49	1 minute counts - Brick
"	"	2, -1.1	"	"	403	370	0	369	-0.264	-2.49	"
"	"	5, -2.1	"	"	362	320	3	358	-0.264	-2.49	"
"	"	3, -2.1	"	"	397	330	0	312	-0.264	9.66	"
"	"	1, -2.1	"	"	376	320	0	353	-0.264	-2.49	"

FORM SERIAL #:10-097 (Survey Section - Sequential survey #)	LOCATION # 10-1-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0361	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100103.XLD
 Batch Ended: 3/17/93 10:41
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-1-3 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				
21	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:37
22	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/17/93 10:37
23	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:38
24	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:38
25	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 10:39
26	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:39
27	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:40
28	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/17/93 10:40
29	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/17/93 10:41
30	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:41

APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR 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	3	*	ESP2:1595-L	31.3%	3.20	479
	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: 1/12/93
COUNT DATE: 1/12/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	ES20: 5242	mr/hr
	ES20: 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	1 MIN CONTACT GROSS CPM		CONTACT GROSS 1 MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	2, -2	N/A	N/A	N/A	363	340	0	353	7.807	-2.82	
"	4, -2	"	"	"	348	320	0	364	-0.149	-2.82	
South wall	8, .6	"	"	"	463	340	0	459	-0.149	-2.82	
"	2, .6	"	"	"	469	401	0	473	-0.149	-2.82	

FORM SERIAL #: 10-052 (Survey Section - Sequential survey #)	LOCATION # 10-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0139	SURVEYOR SIGNATURE: T.B. <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:\LBXL\UNIT1\100201UP.XLD
 Batch Ended: 1/12/93 13:36
 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 - 10-2-1 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	7.807	8.07	At AL	27.24	-2.82	4.13	<MDA	35.16	0.34	2.886	-1.40	1/12/93 13:35
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:35
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:36
4	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:36

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	244
	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	40	*	FLMON:91943	30.3%	3.3	1500

SURVEY DATE: 1/12/953
COUNT DATE: 12/17/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
	ES20: 5242	mr/hr
	ES20: 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	

(*)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	
North wall	N/A	2, -.6	N/A	N/A	209	190	.999	199	-0.149	-2.82	ESP's used for scans
"	"	6, -.6	"	"	223	180	0	237	-0.149	3.28	& 1 min counts.
South wall	"	2, -.6	"	"	387	320	0	345	-0.149	-2.82	"
"	"	8, -.6	"	"	358	300	0	352	-0.149	-2.82	"
Floor	"	2, -2	10	.007	1530	1500	55	1579	-0.149	9.39	Flormon used for scans
"	"	4, -2	10	.012	1659	1575	41	1549	8.048	3.28	& 1 min counts.
"	"	8, -2	10	.011	1588	1575	49	1580	-0.149	3.28	"

FORM SERIAL #: 10-048 (Survey Section - Sequential survey #)	LOCATION # 10-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0140	SURVEYOR SIGNATURE: T.S. <i>T. S. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/17/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100201.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				
14	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/17/92 13:04
15	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/17/92 13:05
16	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:05
17	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/17/92 13:06
18	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/17/92 13:06
19	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/17/92 13:07
20	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/17/92 13:07
21	0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/17/92 13:08
22	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	12/17/92 13:08
23	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:09

SURVEY FORM NOT NEEDED.

BUILDING #9 FIRST FLOOR



NORTH



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	244
	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	1301

SURVEY DATE: 1/12/93
COUNT DATE: 12/17/92

(*)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	
North wall	N/A	6, -5.4	N/A	N/A	315	240	0	249	-0.149	-2.82	ESP's used for scans
South wall	"	4, -5.4	"	"	281	260	0	250	-0.149	-2.82	& 1 min counts.
West wall	"	2, -5.4	"	"	303	250	0	278	-0.149	-2.82	"
"	"	4, -5.4	"	"	271	220	.999	228	-0.149	3.28	"
Tile floor	"	2, -2	10	.013	1445	1400	48	1385	-0.149	-2.82	Flormon used for scans
"	"	2, -4	11	.014	1287	1250	46	1337	-0.149	3.10	& 1 min counts.
"	"	2, -6	9	.01	1334	1300	46	1297	-0.149	-2.82	"
"	"	4, -6	9	.01	1511	1450	47	1302	-0.149	3.28	"
"	"	4, -4	10	.007	1431	1350	52	1301	-0.149	9.39	"
"	"	6, -4	12	.014	1401	1375	55	1306	-0.149	-2.82	"
"	"	6, -6	11	.015	1318	1300	50	1287	-0.149	-2.82	"

FORM SERIAL #: 10-049 (Survey Section - Sequential survey #)	LOCATION # 10-2-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0141	SURVEYOR SIGNATURE: T.S./M.S. <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/17/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100202.XLD
 Batch Ended: #####
 Cross-talk 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

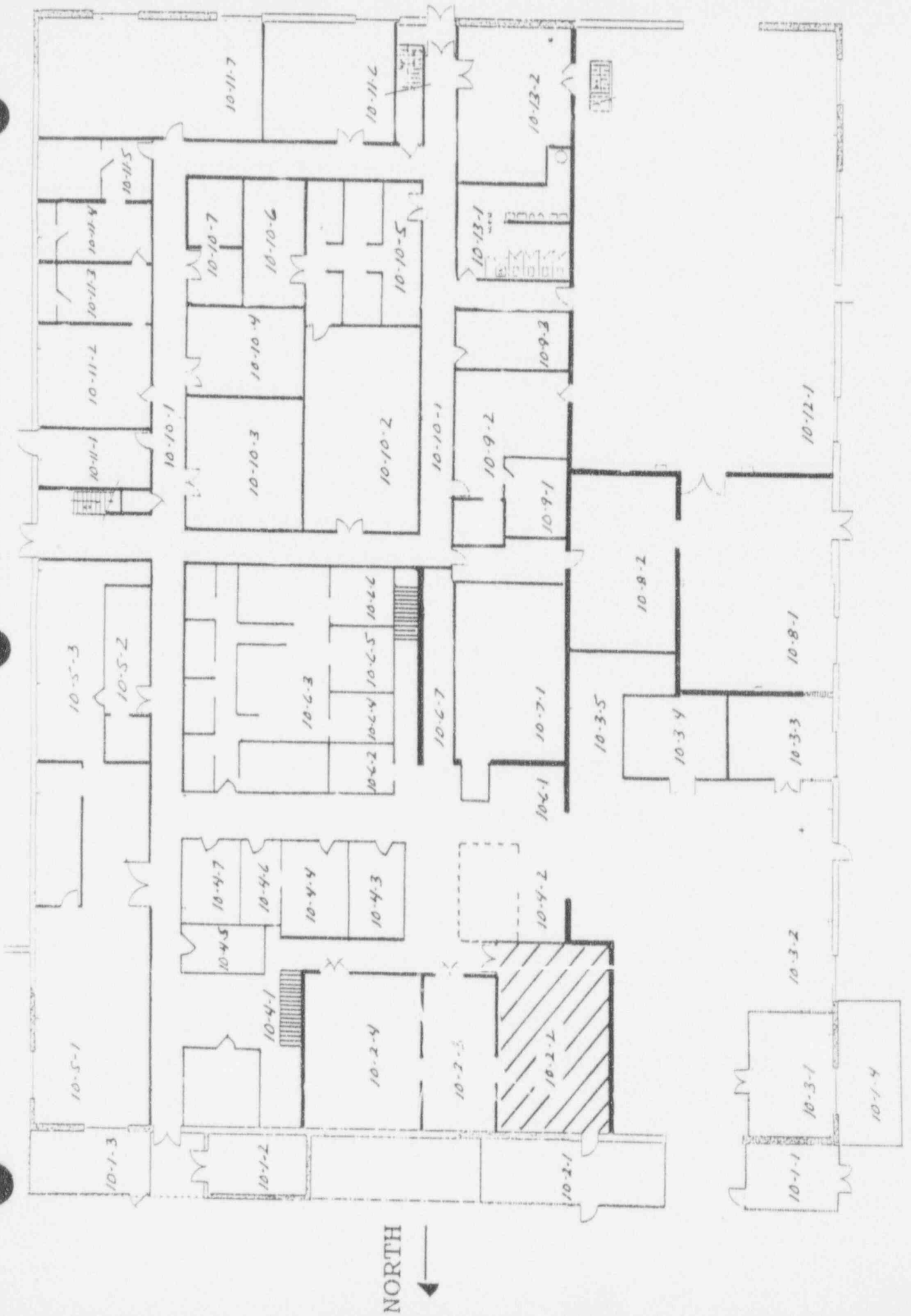
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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				
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 13:09
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 13:10
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 13:11
27	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:11
28	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 13:12
29	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/17/92 13:12
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 13:13
31	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:13
32	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/17/92 13:14
33	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/17/92 13:14
34	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 13:15

BUILDING #9 FIRST FLOOR



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	244
	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	40	*	FLMON:91943	30.3%	3.3	1301

SURVEY DATE: 1/12/93
COUNT DATE: 12/17/92

(*)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	
East wall	N/A	2, -5.4	N/A	N/A	320	280	.999	283	-0.149	3.28	ESP's use for scans
"	"	6, -5.4	"	"	326	260	0	306	-0.149	3.28	& 1 min counts.
"	"	8, -5.4	"	"	352	280	2.0	332	-0.149	-2.82	"
West wall	"	2, -5.4	"	"	373	320	0	322	-0.149	3.28	"
"	"	6, -5.4	"	"	293	270	3.0	301	-0.149	-2.82	"
Tile floor	"	2, -4	12	.01	1509	1475	56	1342	-0.149	-2.82	Fimon used for scans
"	"	2, -6	11	.009	1351	1340	43	1351	0.149	9.03	& 1 min counts.
"	"	2, -8	11	.01	1300	1275	44	1321	-0.149	-2.82	"

FORM SERIAL #: 10-050 (Survey Section - Sequential survey #)	LOCATION # 10-2-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0142	SURVEYOR SIGNATURE: <i>[Signature]</i> T.S.M.S.
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/17/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100203.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

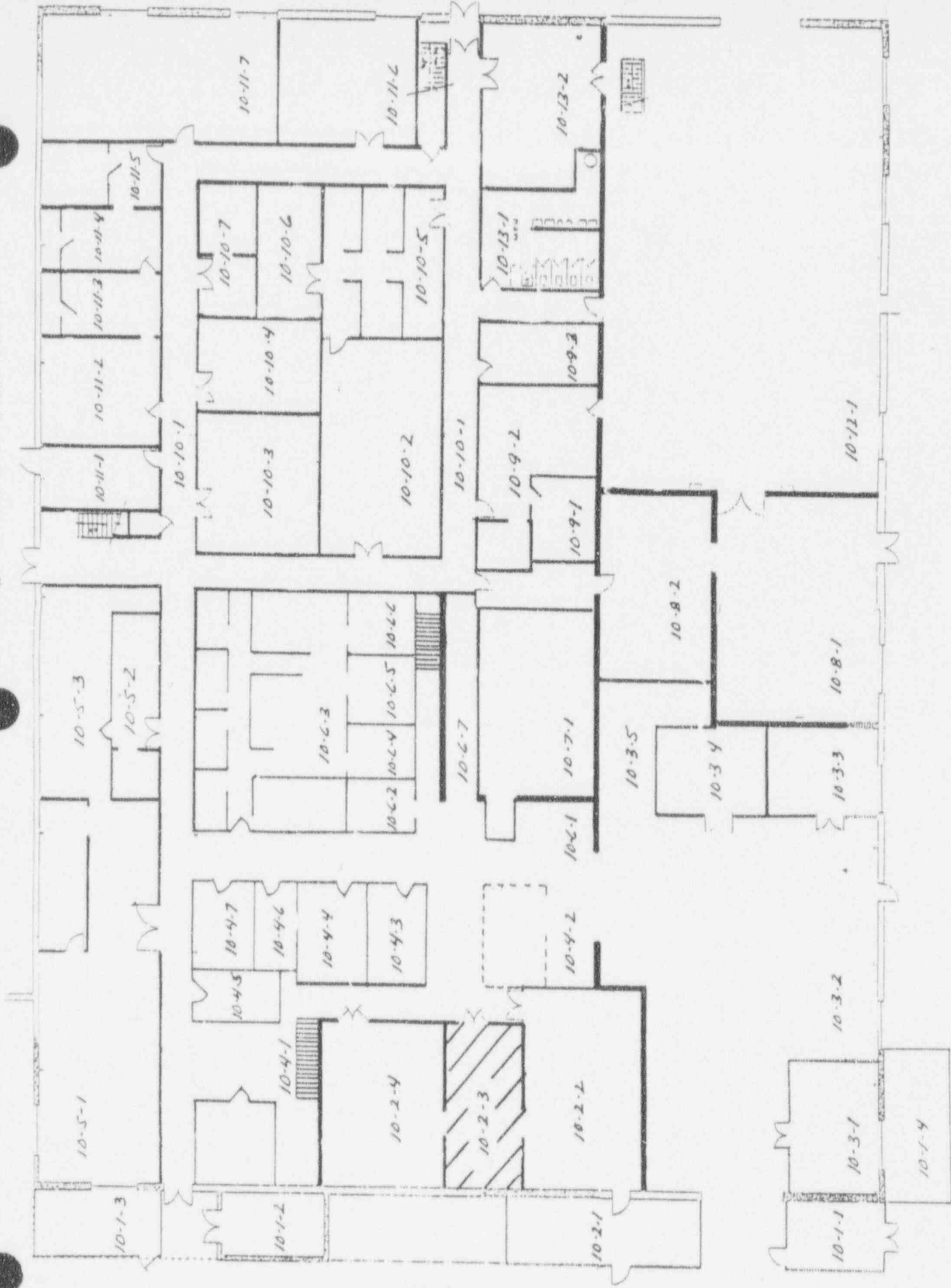
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 13:15
36	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:16
37	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:16
38	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 13:17
39	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:17
40	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 13:18
41	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 13:18
42	-0.149	1.35	<MDA	27.24	8.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/17/92 13:19
43	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 13:19

SURVEY BINT NOT NEEDED.

BUILDING #9 FIRST FLOOR



NORTH
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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	244
	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	40	*	FLMON:91943	30.3%	3.3	1301

SURVEY DATE: 1/12/93
COUNT DATE: 12/17/93

(*)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: 4522	.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	
North wall	N/A	2, -1	N/A	N/A	408	390	2.0	313	-0.149	-2.82	ESP's use for scans
Panel	"	4, -1	"	"	404	380	0	331	-0.149	3.28	& 1 min counts.
"	"	6, -1	"	"	327	270	0	314	-0.149	-2.82	"
East wall (Block)	"	2, -1	"	"	412	330	.999	339	-0.149	3.28	"
"	"	6, -1	"	"	362	280	.999	298	-0.149	-2.82	"
South wall	"	4, -1	"	"	356	320	0	343	-0.149	3.28	"
West wall	"	2, -1	"	"	380	260	.999	376	-0.149	-2.82	"
"	"	6, -1	"	"	396	275	.999	301	-0.149	-2.82	"
Floor	"	2, -4	12	.015	1286	1250	37	1255	-0.149	3.28	Flomon used for scans
"	"	4, -4	11	.018	1381	1375	39	1257	-0.149	3.10	& 1 min counts.
"	"	4, -6	11	.008	1292	1275	41	1276	-0.149	-2.82	"
"	"	2, -6	10	.011	1485	1400	54	1267	-0.149	-2.82	"

FORM SERIAL #: 10-051 (Survey Section - Sequential survey #)	LOCATION # 10-2-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0143	SURVEYOR SIGNATURE: T.S./M.9. <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/17/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100204.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

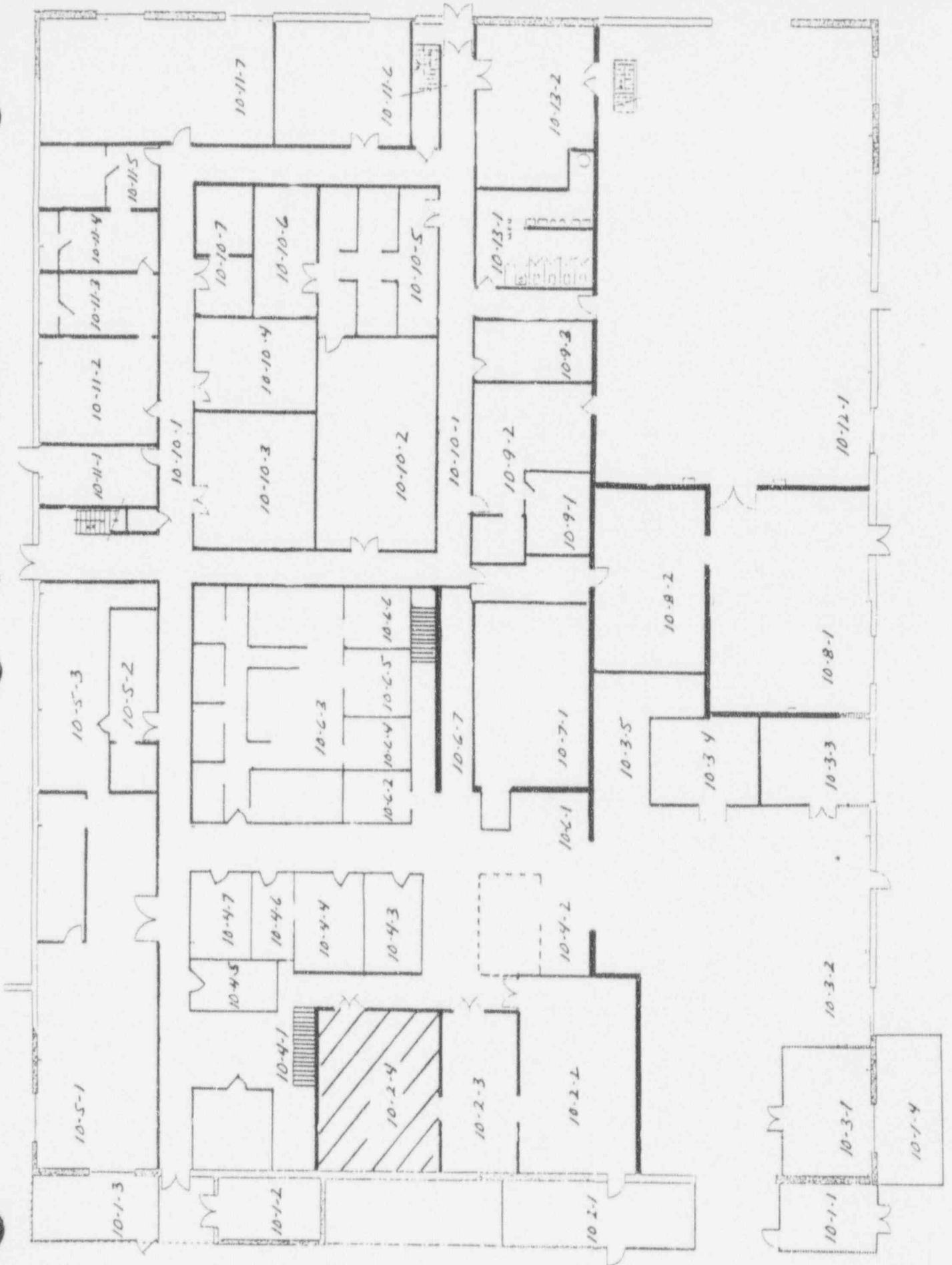
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOB
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	9.33	0.055	-1.40	12/17/92 13:44
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/17/92 13:45
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	0.055	-1.40	12/17/92 13:45
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/17/92 13:46
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/17/92 13:47
6	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/17/92 13:47
7	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/17/92 13:48
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/17/92 13:48
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/17/92 13:49
10	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/17/92 13:49
11	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	0.055	1.54	12/17/92 13:50
12	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/17/92 13:50
13	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/17/92 13:51

SURVEY POINT NOT NEEDED.

BUILDING #9 FIRST FLOOR



NORTH
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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	3	*	ESP2:1595-L	31.3%	3.20	479
	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: 1/12/93

(*)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	2, -4	N/A	N/A	N/A	385	360	.999	468	-0.149	3.10	
"	4, -4	"	"	"	464	390	2.0	400	-0.149	9.39	
"	4, -6	"	"	"	393	360	2.0	446	-0.149	-2.82	
"	2, -6	"	"	"	384	340	0	401	-0.149	-2.82	
West wall	2, 0	"	"	"	480	400	.999	418	-0.149	-2.82	
"	6, 0	"	"	"	433	370	.999	404	-0.149	-2.82	
East wall	2, 0	"	"	"	487	400	2.0	398	-0.149	-2.82	
"	6, 0	"	"	"	398	360	0	386	-0.149	-2.82	
South wall	4, 0	"	"	"	369	340	0	374	-0.149	-2.82	
"	2, 0	"	"	"	489	440	.999	446	-0.149	-2.82	
North wall	6, 0	"	"	"	438	380	.999	423	-0.149	-2.82	
"	4, 0	"	"	"	438	375	.999	417	-0.149	-2.82	
"	2, 0	"	"	"	385	340	.999	423	-0.149	3.10	

FORM SERIAL #: 10-053 (Survey Section - Sequential survey #)	LOCATION # 10-2-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0144	SURVEYOR SIGNATURE: T. J. 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/12/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100204UP.XLD
 Batch Ended: 1/12/93 13:50
 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

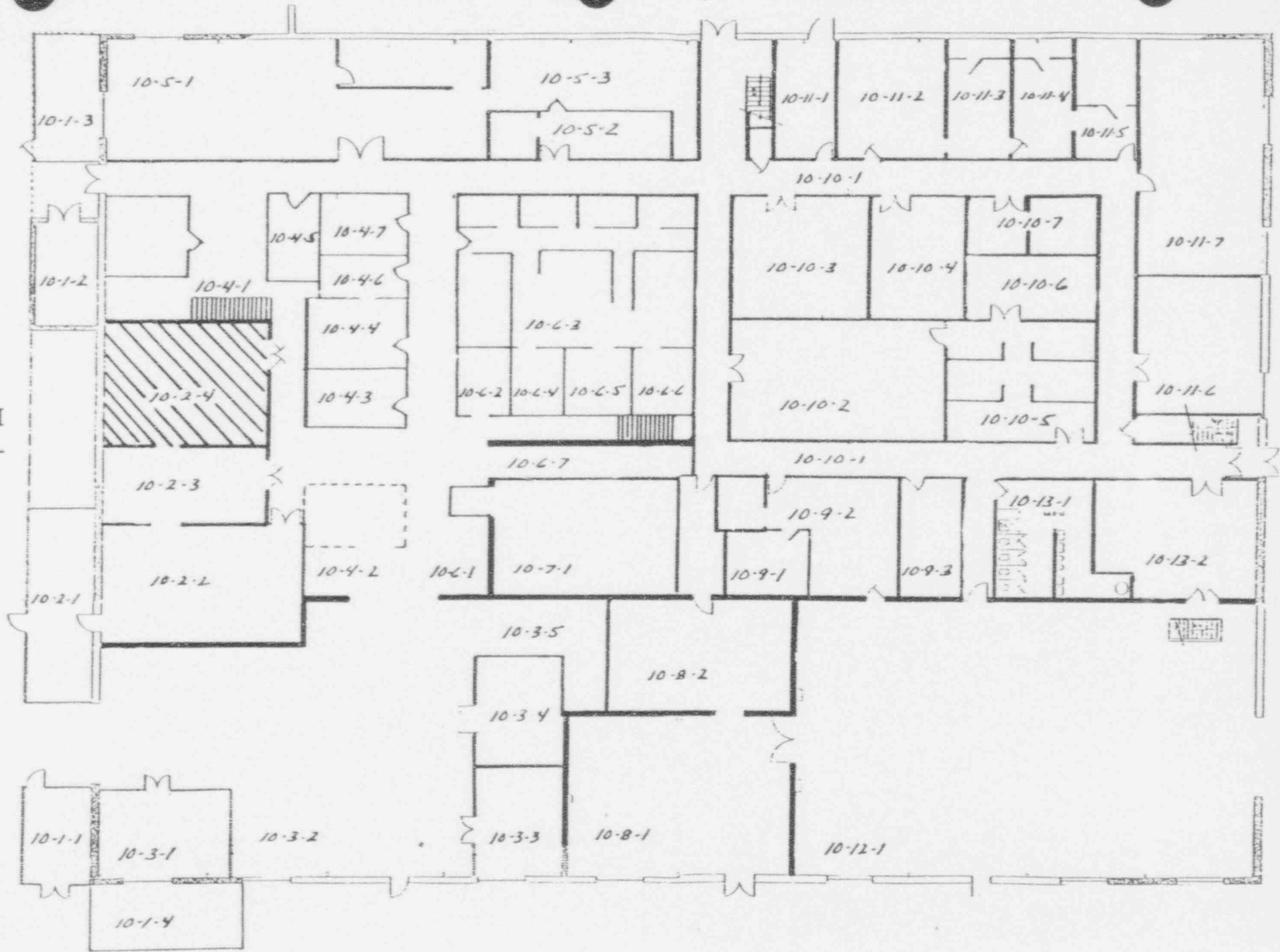
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 10-2-4 upper surfaces

Camer	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
18	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/12/93 13:44
19	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/12/93 13:44
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:45
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:45
22	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:46
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:46
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:47
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:47
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:48
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:48
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:49
29	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:49
30	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/12/93 13:50

BUILDING #9 FIRST FLOOR

NORTH
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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	3	*	ESP2:1595-L	31.3%	3.20	479
	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	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/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East wall	2, -4.4	N/A	N/A	N/A	421	390	2.0	427	-0.149	3.28	
"	4, -4.4	"	"	"	4813	420	.999	407	-0.149	-2.82	
"	8, -4.4	"	"	"	381	350	3.0	362	-0.149	3.28	
West wall	4, -4.4	"	"	"	424	380	0	409	-0.149	3.10	
South wall	6, -4.4	"	"	"	374	340	0	406	-0.149	9.03	
Ventilation	0, -4.2	"	"	"	472	420	0	435	-0.149	-2.82	Top of south wall
South wall	4, -4.4	"	"	"	472	420	0	435	8.048	-2.82	

FORM SERIAL #: 10-054 (Survey Section - Sequential survey #)	LOCATION # 10-2-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0145	SURVEYOR SIGNATURE: <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:\LBXL\UNIT1\100202UP.XLD
 Batch Ended: 1/12/93 13:40
 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

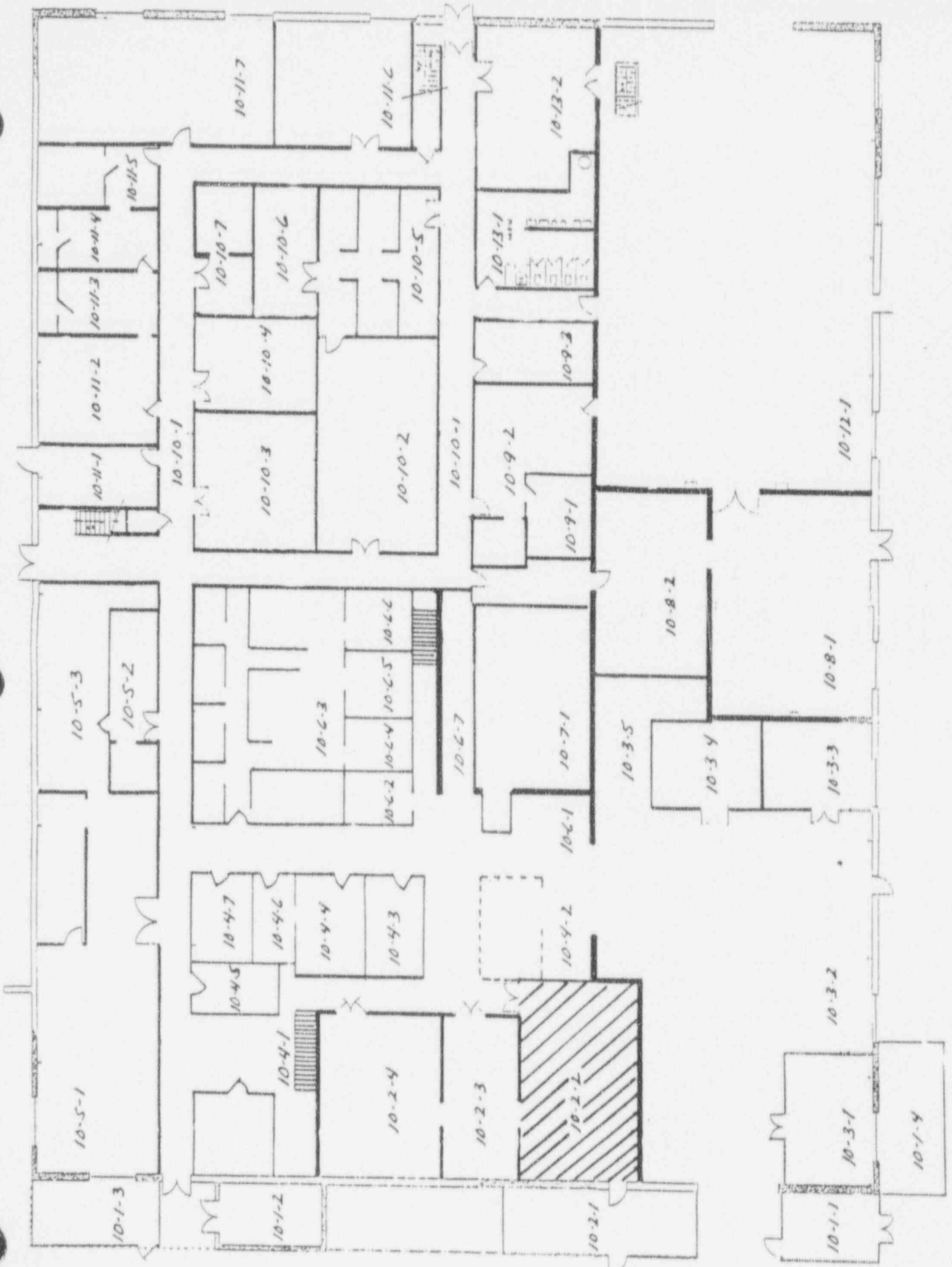
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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

Batch ID: TSB - 10-2-2 upper surfaces

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	1/12/93 13:37
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:37
7	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/12/93 13:38
8	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/12/93 13:38
9	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/12/93 13:39
10	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:39
11	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/12/93 13:40

BUILDING #9 FIRST FLOOR



NORTH



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	479
	ESP2:					ESP2:			
	CSP2:					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	

SURV. DATE	1/12/93
CO #	12/93

(*)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 CONST. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SHEAR LEVELS IN DIW/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East wall	2, -4.4	N/A	N/A	N/A	468	400	.999	443	-0.149	-2.82	
"	4, -4.4	"	"	"	431	380	0	404	-0.149	9.03	
"	6, -4.4	"	"	"	497	430	.999	394	-0.149	3.28	
North wall	2, -4.4	"	"	"	407	360	2.0	434	-0.149	9.39	
West wall	2, -4.6	"	"	"	456	370	0	421	8.048	3.28	
East wall	8, -4.4	"	"	"	493	440	0	419	-0.149	-2.82	

FORM SERIAL #: 10-055 (Survey Section - Sequential Survey #)	LOCATION # 10-2-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0146	SURVEYOR SIGNATURE: <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:\LBXL\UNIT1\100203UP.XLD
 Batch Ended: 1/12/93 13:43
 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

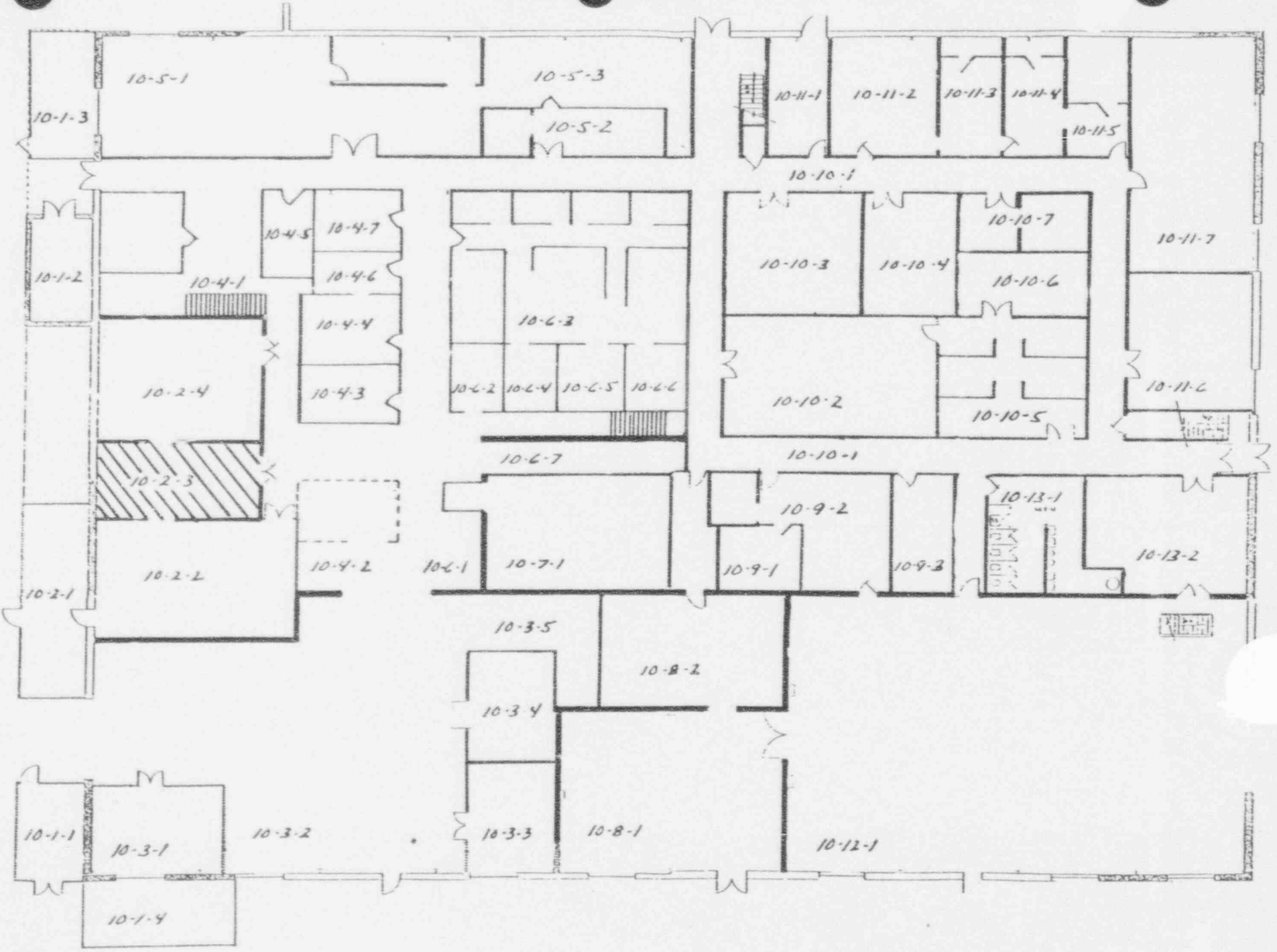
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - 10-2-3 upper surfaces

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	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/12/93 13:40
13	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/12/93 13:41
14	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/12/93 13:41
15	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/12/93 13:42
16	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	1/12/93 13:42
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/12/93 13:43

BUILDING #9 FIRST FLOOR

NORTH



APPENDIX C

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 3

LB5100W Low Background Counting System – Smear Analysis

Date: 12/17/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100301.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

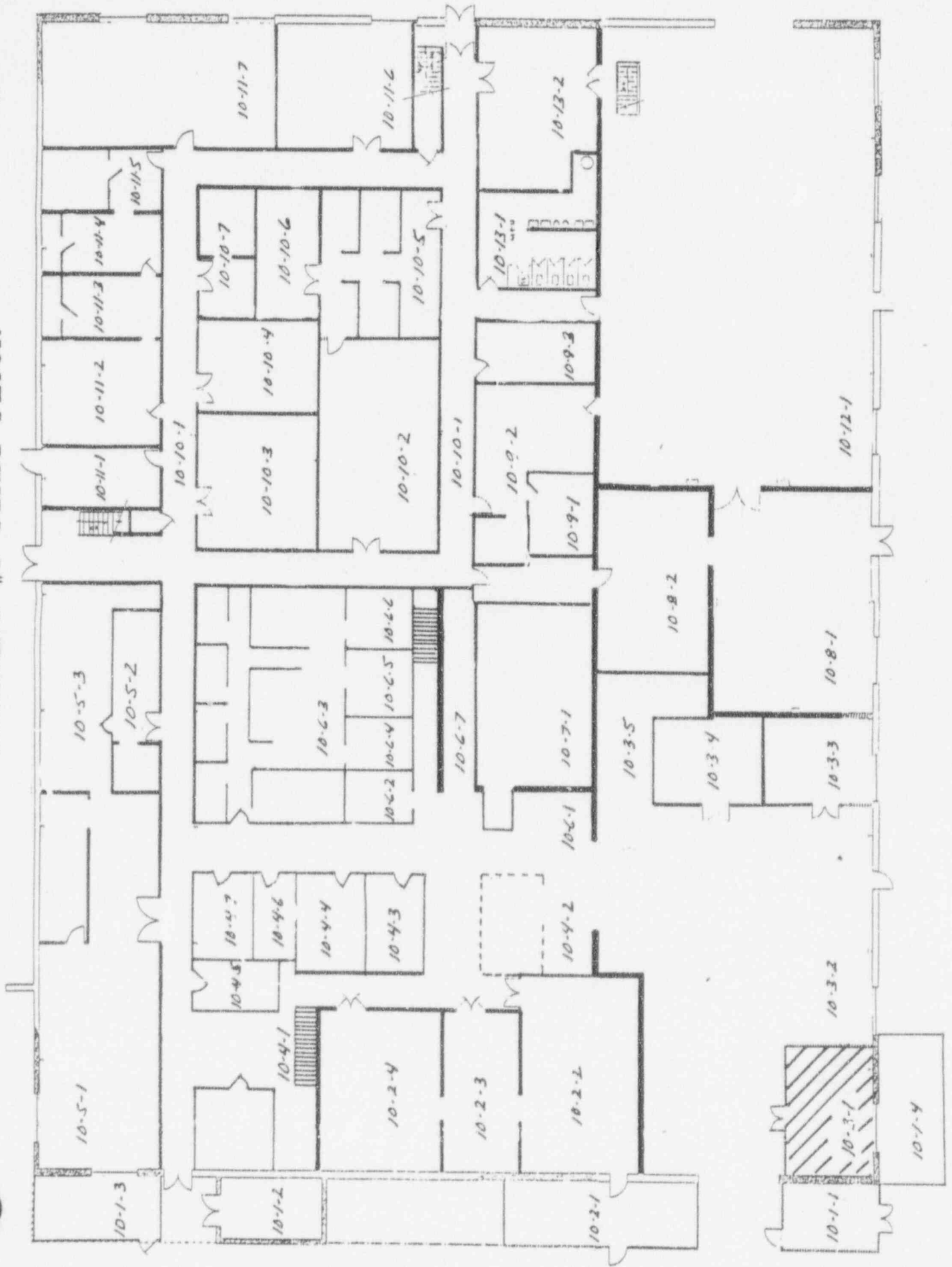
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
14	7.007	0.07	At AL	27.24	2.82	4.13	<MDA	35.16	0.34	2.886	1.40	12/17/92 13:51
15	0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	0.055	1.40	12/17/92 13:52
16	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.69	12/17/92 13:52
17	24.443	14.27	At AL	27.98	2.82	4.19	<MDA	35.93	0.33	9.038	1.40	12/17/92 13:53
18	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.055	1.40	12/17/92 13:53
19	8.048	8.31	At AL	27.98	9.39	9.60	<MDA	35.93	0.33	2.975	4.66	12/17/92 13:54
20	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.055	1.40	12/17/92 13:54

———— SURVEY POINT NOT NEEDED *Q*

BUILDING #9 FIRST FLOOR



ORTH
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COUNTING EQUIPMENT (ALPHA)	INST. S/N	EFF	C.F.	BKG
TENN: 13295	36, 92	2.7	2.7	.055
SACH: 1128	40, 62	2.46		
SACH: 263	34, 32	2.91		
COUNTING EQUIPMENT (BETA)				
INST. S/N	EFF	C.F.	Bkg	
TENN: 13295	49, 62	2.01	1.40	
MS-2: 1848	25, 02	4.0		
BC-4: 808	17, 92	5.57		

SURVEY DATE: 1/7/93
COUNT DATE: 12/17/92

GAMMA JR BETA/GAMMA EQUIP USED	INST. S/N	BKG	R/S	uR/hr
ESP2	L-2088			
ESP2	5242	.01		
ESP2	5245			
ESP2	1322			

ALPHA SURVEY EQUIPMENT	INST. S/N	EFF	C.F.	BKG CPM	(#) IF USED	BETA SURVEY EQUIPMENT	
						INST. S/N	EFF
ESP2: 1517	21.1	4.74		34.2	2.92	ESP2: 1595	31.3
ESP2: 1517-1	21.7	4.60		138		ESP2: 1595-1	31.3
ESP2:						ESP2:	
ESP2:						ESP2:	
ESP2:						ESP2:	
ASPT: 1891	19.12	5.23		4.92		ESP2: 5242	20.32
PRC4C 4478	18.52	5.4		3.0		ESP2: 5245	33.52
FLM0N 91943	20.42	4.9		3.3		PAC4C 4478	30.32
				1590		FLM0N 91943	30.32

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/100cm2		COMMENTS
					MAX BETA	Avg BETA	ALPHA	BETA	ALPHA	BETA	
Floor	N/A	2 - 2	13	.01	1606	1606	73	1278	-0.149	3.28	Floor monitor used for scans and 1 min counts.
"	"	4 - 2	13	.01	1300	1300	65	1322	7.77	-2.82	"
"	"	2 - 4	13	.01	1650	1650	74	1182	-0.149	3.10	"
"	"	4 - 4	13	.01	1650	1650	75	1660	8.048	3.28	"
"	"	6 - 2	13	.01	1386	1386	70	1680	-0.1	-2.82	"
"	"	2 - 6	13	.01	1700	1700	65	1166	-0.14	3.28	"
"	"	2 - 8	13	.01	1600	1600	71	1538	-0.14	3.28	"
"	"	0 - 6	13	.01	1575	1575	73	1580	-0.149	-2.82	"
"	"	2 - 10	13	.01	1600	1600	64	1559	-0.149	-2.82	"
"	"	0 - 10	13	.01	1600	1600	49	1530	8.048	9.39	"
"	"	2 - 10	13	.01	1700	1700	65	1599	-0.149	-2.82	"
"	"	2 - 12	13	.01	1630	1630	71	1518	-0.149	-2.82	"
"	"	4 - 12	13	.01	1600	1600	70	1590	-0.149	9.39	"
"	"	4 - 10	13	.01	1600	1600	65	1625	-0.149	-2.82	"
"	"	6 - 12	13	.01	1550	1550	79	1575	8.048	2.82	"

FIRM SERIAL # 10-041	LOCATION # 10-3-2	SURVEY CLASSIFICATION: IV	DISK FILE CODE: FDS-0130	SURVEYOR SIGNATURE: T. S.
(Survey Section - Sequential survey #)	(Survey Section - Unit # - Sub Unit #)	(Survey 1 11 111 1V)		

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	138
	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	109	*	FLMON: 91943	30.3%	3.3	1590

SURVEY DATE: 1/7/93
COUNT DATE: 12/17/92

(*)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	40.6%	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 uR DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	N/A	4, -14	13	.01	2088	1750	54	1646	-0.149	-2.82	Floor monitor used for
"	"	6, -14	13	.01	1815	1650	58	1662	8.048	-2.82	scans & 1 min counts.
"	"	8, -14	13	.01	1798	1500	51	1555	-0.149	14.95	"
"	"	8, -16	13	.01	1800	1700	74	1688	-0.149	-2.82	"
East wall (1)	"	4, -5.4	N/A	N/A	373	190	.999	187	-0.149	-2.82	ESP's used for scans &
"	"	6, -5.4	"	"	198	130	2.0	187	-0.149	-2.82	1 min counts.
"	"	8, -5.4	"	"	197	160	0	192	-0.149	-2.82	"
North wall (2)	"	2, -2.3	"	"	228	170	0	220	-0.149	-2.82	"
"	"	4, -2.3	"	"	277	240	3.0	201	-0.149	-2.82	"
West wall (2)	"	2, -5.4	"	"	206	150	0	163	-0.149	-2.82	"
"	"	6, -5.4	"	"	250	180	2.0	172	-0.149	-2.82	"

FORM SERIAL #: 10-041 (Survey Section - Sequential survey #)	LOCATION # 10-3-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0131	SURVEYOR SIGNATURE: T.S. <i>T. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/11/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100302.XLD
 Batch Ended: ##### 12-17-93
 Crosstalk Correction: Not Applied 758

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				
* 21	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 13:55
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:55
23	8.048	8.07	At AL	27.24	-2.82	4.13	<MDA	35.16	0.34	2.886	-1.40	12/17/92 13:56
24	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/17/92 13:56
25	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	12/17/92 13:57
26	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 13:57
27	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:58
* 28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 13:58
29	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:59
* 30	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/17/92 13:59
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:00
32	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:00
33	8.048	8.31	At AL	27.98	9.39	9.60	<MDA	35.93	0.33	2.975	4.66	12/17/92 14:01
34	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:01
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:02
36	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/17/92 14:02
37	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:03
38	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	12/17/92 14:03
39	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:04
40	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	1.40	12/17/92 14:04
41	-0.149	1.35	<MDA	27.24	14.95	11.07	<AL	35.16	0.34	-0.055	7.42	12/17/92 14:05
* 42	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:06
43	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:06
44	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:07
45	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 14:07

SURVEY POINT NOT NEEDED

LB5100W Low Background Counting System – Smear Analysis

Date: 1/11/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\190302.XLD
 Batch Ended: ~~#####~~ 12-17-92
 Crosstalk Correction: Not Applied *TSB*

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

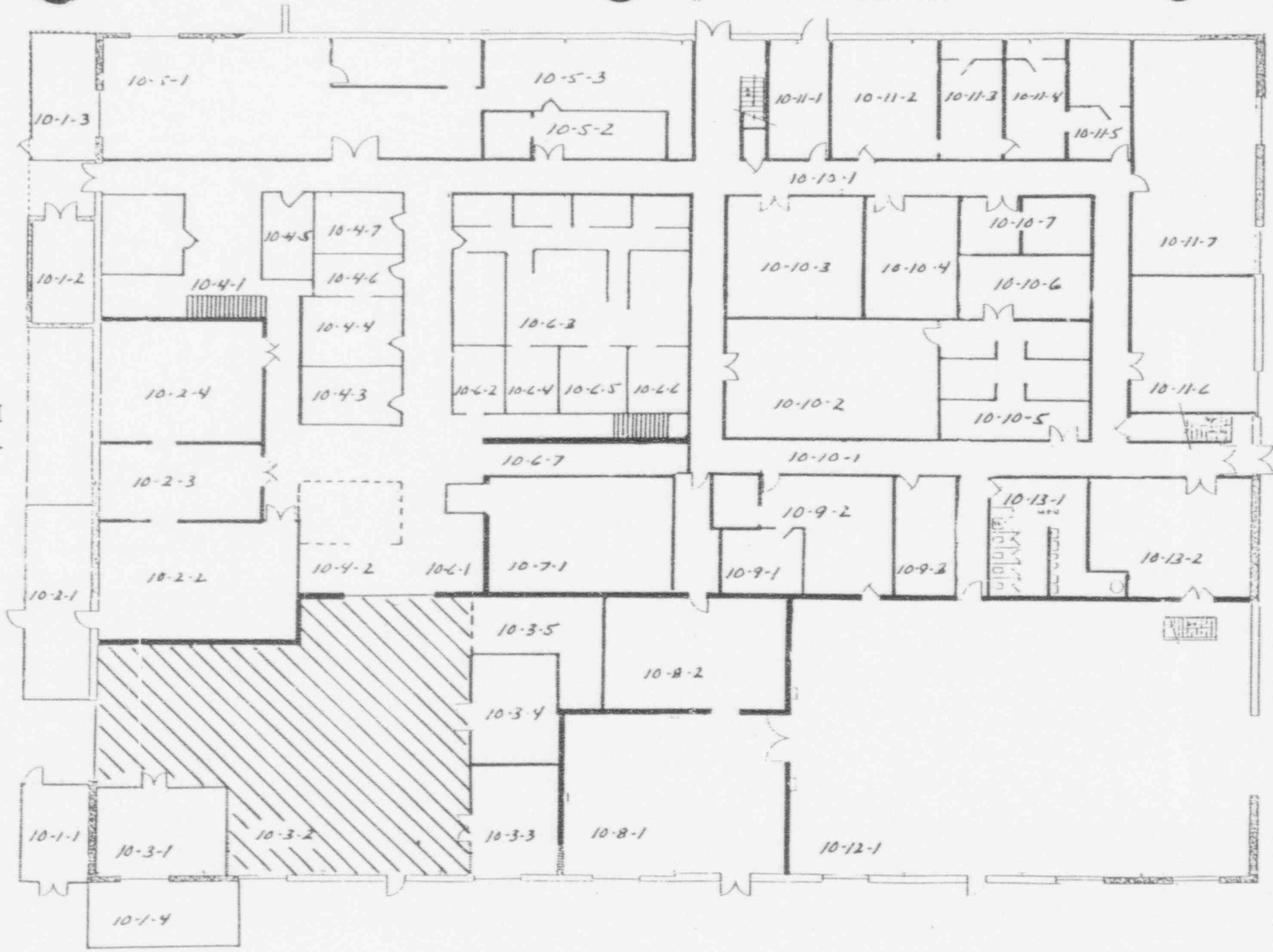
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
46	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:08
47	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:08
48	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:09
49	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:09
50	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/17/92 14:10
51	-0.149	1.36	<MDA	27.24	-0.03	0.34	<MDA	35.16	0.34	-0.055	-1.40	12/17/92 14:10

BUILDING #9 FIRST FLOOR

NORTH
←



LB5100W Low Background Counting System -- Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\100304.XLD
 Batch Ended: 12/18/92 7:47
 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

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	12/18/92 7:45
5	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/18/92 7:46
6	0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	0.055	1.54	12/18/92 7:47
7	0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	0.055	1.54	12/18/92 7:47

SURVEY POINT NOT NEEDED.

BUILDING #9 FIRST FLOOR



NORTH



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	295
	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	
	FLMOM:91943	20.4%	4.9			FLMOM:91943	30.3%	3.3	

SURVEY DATE: 1/11/93
 COUNT DATE: 1/11/93

(*)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	2, -2	N/A	N/A	N/A	234	190	5.0	217	-0.149	-2.82	
"	4, -2	"	"	"	249	210	2.0	247	8.048	-2.82	
"	6, -2	"	"	"	212	190	.999	234	-0.149	-2.82	
Ceiling	2, -4	"	"	"	221	200	0	208	-0.149	-2.82	
"	4, -4	"	"	"	275	210	.999	245	-0.149	-2.82	
"	6, -4	"	"	"	288	220	0	237	-0.149	-2.82	
"	2, -6	"	"	"	266	220	0	235	-0.149	3.28	
"	4, -6	"	"	"	147	200	0	254	-0.149	-2.82	
"	6, -6	"	"	"	251	190	0	230	-0.149	3.28	
Beam	0, -8	"	"	"	220	180	0	222	-0.149	-2.82	
"	2, -8	"	"	"	262	270	3.0	242	-0.149	3.28	
"	4, -8	"	"	"	287	200	0	220	-0.149	3.10	
"	6, -8	"	"	"	251	230	0	212	8.048	-2.82	
Light fixture	-2, -10	"	"	"	264	240	.999	158	-0.149	3.28	
Overhead crane	N/A	N/A	N/A	N/A	386	300	2.0	303	-0.149	-2.82	

FORM SERIAL #: 10-056 (Survey Section - Sequential survey #)	LOCATION # 10-3-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0147	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	295
	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: 1/11/93
COUNT DATE: 1/11/93

(*)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	
Beam	0, -10	N/A	N/A	N/A	239	210	5.0	264	-0.149	-2.82	
"	2, -10	"	"	"	273	260	3.0	298	-0.149	-2.82	
"	4, -10	"	"	"	261	220	.999	259	-0.149	3.10	
"	6, -10	"	"	"	371	290	0	311	-0.149	3.28	
Ceiling	0, -12	"	"	"	366	300	0	309	-0.149	-2.82	
"	2, -12	"	"	"	361	320	0	323	-0.149	3.28	
"	4, -12	"	"	"	360	300	0	358	-0.149	-2.82	
"	6, -12	"	"	"	421	360	0	355	-0.149	-2.82	
"	8, -12	"	"	"	423	360	0	355	-0.149	9.03	
Beam	0, -14	"	"	"	420	380	0	408	-0.149	-2.82	
"	2, -14	"	"	"	418	350	2.0	404	-0.149	-2.82	
"	4, -14	"	"	"	365		.999	365	-0.149	-2.82	
"	6, -14	"	"	"	429	380	2.0	359	-0.149	3.28	
"	8, -14	"	"	"	360	340	0	346	-0.149	-2.82	
Light fixture	8, -16	"	"	"	402	360	5.0	311	-0.149	-2.82	

FORM SERIAL #: 10-056
(Survey Section - Sequential survey #)

LOCATION # 10-3-2
(Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: IV
(Group I, II, III, IV)

DISK FILE CODE: FDS-0148

SURVEYOR SIGNATURE:
Bob M. [Signature]

LB5100W Low Background Counting System – Smear Analysis

Date: 1/11/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100302UP.XLD
 Batch Ended: 1/11/93 14:27
 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 - upper surfaces 10-3-2

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	1/11/93 14:12
2	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/11/93 14:13
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/11/93 14:13
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:14
5	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:14
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:15
7	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/11/93 14:15
8	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/11/93 14:16
9	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/11/93 14:16
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:17
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/11/93 14:17
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/11/93 14:18
13	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/11/93 14:18
14	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/11/93 14:19
15	7.807	8.07	At AL	27.24	3.10	7.22	<MDA	35.16	0.34	2.886	1.54	1/11/93 14:19
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:20
17	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/11/93 14:20
18	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/11/93 14:21
19	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/11/93 14:21
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:22
21	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/11/93 14:23
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:23
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:24
24	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/11/93 14:24
25	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/11/93 14:25

LB5100W Low Background Counting System – Smear Analysis

Date: 1/11/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100302UP.XLD
 Batch Ended: 1/11/93 14:27
 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

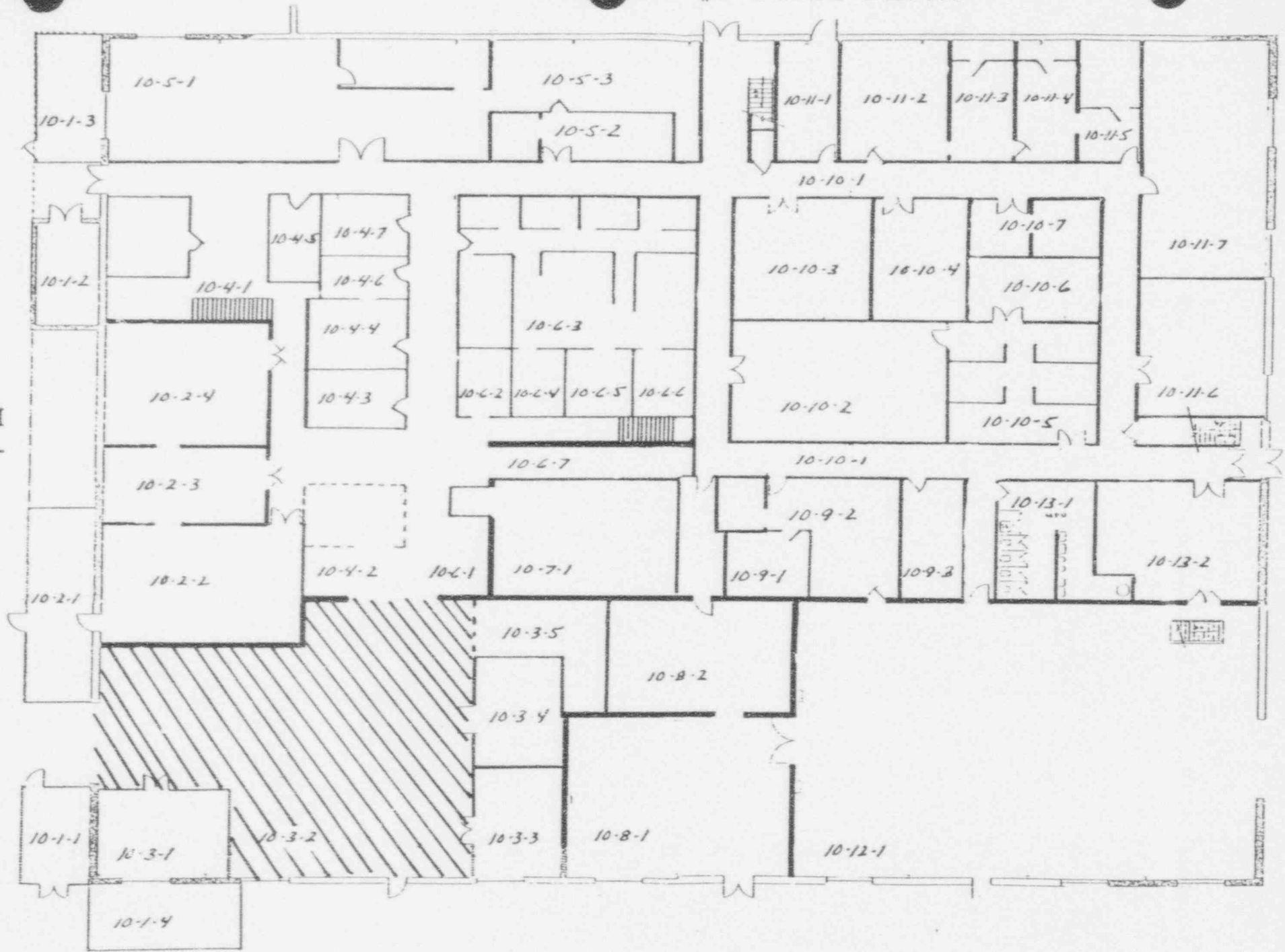
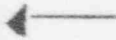
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB - upper surfaces 10-3-2

Camer	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	1/11/93 14:25
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/11/93 14:26
28	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/11/93 14:26
29	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/11/93 14:27
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/11/93 14:27

BUILDING #9 FIRST FLOOR

NORTH



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
*	ESP2:1510	22.6	4.42	.997	*	ESP2:1510	38.7	2.58	329
	ESP2:				*	ESP2:1517	38.9	2.57	291
	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: 12/18/92
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.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	2, -4	N/A	11	.01	477	345	0	328	-0.149	-2.82	
"	4, -4	"	11	.01	478	360	0	356	-0.149	-2.82	
"	0, -10	"	11	.01	418	320	0	381	-0.149	-2.82	
"	-2, -10	"	11	.01	645	360	2.99	399	-0.149	-2.82	
"	-4, -10	"	11	.01	531	365	2.99	372	-0.149	3.28	
"	-6, -10	"	11	.01	441	345	.997	358	-0.149	3.28	
"	-8, -10	"	11	.01	416	325	1.99	353	-0.149	3.28	
"	8, -2	"	10	.01	514	385	2.99	409	-0.149	-2.82	
"	8, -4	"	11	.01	395	320	.997	338	-0.149	-2.82	
"	8, -6	"	11	.01	435	360	.997	327	-0.149	3.28	
"	8, -8	"	11	.01	438	380	.997	400	-0.149	3.28	
"	8, -10	"	11	.01	418	360	0	372	-0.149	3.28	
"	8, -12	"	11	.01	423	370	.997	327	8.048	9.39	
"	8, -14	"	11	.01	480	390	1.99	361	-0.149	-2.82	

FORM SERIAL #: 10-033 (Survey Section - Sequential survey #)	LOCATION # 10-4-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0096	SURVEYOR SIGNATURE: M.S. <i>M. 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	0	*	ESP2:1595-L	31.3	3.20	161
	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: 12/30/92
COUNT DATE: 12/18/92

(*)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	.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: 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	
East Wall	2, -1.3	N/A	N/A	.017	300	250	0	259	-0.149	3.28	
"	4, -1.3	"	"	.019	250	200	0.99	194	-0.149	-2.82	
"	6, -1.3	"	"	.022	225	200	2.0	156	-0.149	3.28	
"	8, -1.3	"	"	.030	250	200	2.0	191	-0.149	-2.82	
West Wall	2, -1.4	"	"	.020	275	175	0	167	-0.149	-2.82	
"	4, -1.4	"	"	.010	200	175	3.0	154	-0.149	-2.82	
"	6, -1.4	"	"	.015	250	150	2.0	140	-0.149	-2.82	
"	8, -1.4	"	"	.015	225	150	0.9	167	-0.149	-2.82	
North Wall (#2)	4, -1.4	"	"	.011	275	175	0	173	-0.149	-2.82	
in hallway	6, -1.4	"	"	.019	250	200	0	181	-0.149	-2.82	
"	10, -1.4	"	"	.025	250	200	0	180	-0.149	3.28	
South Wall	6, -1.4	"	"	.012	250	200	0.99	179	-0.149	-2.82	

FORM SERIAL #: 10-033 (Survey Section - Sequential survey #)	LOCATION # 10-4-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0097	SURVEYOR SIGNATURE: <i>L.S. [Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100401.XLD
 Batch Ended: 12/18/92 8:01
 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

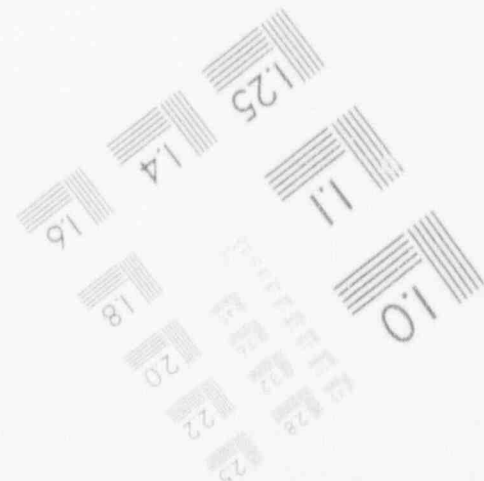
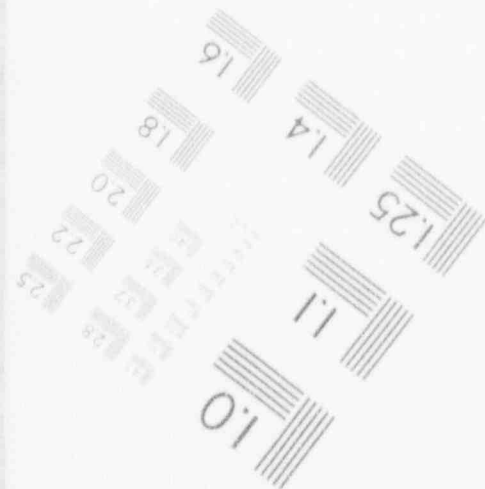
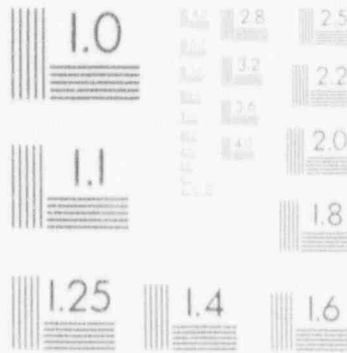
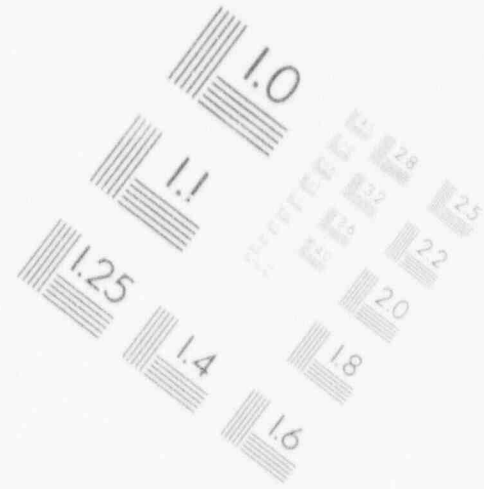
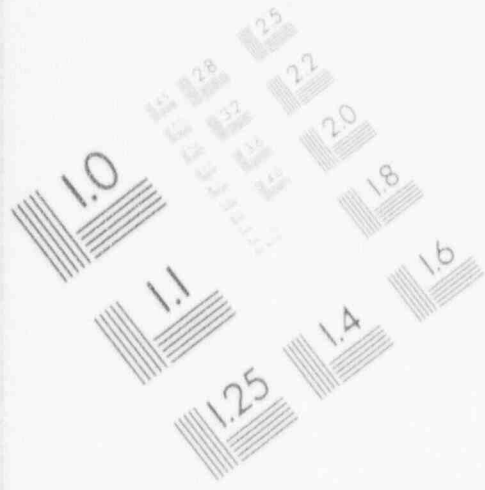
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

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	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:48
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:48
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:49
11	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:49
12	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:50
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:50
14	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:51
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:51
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 7:52
17	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:52
18	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:53
19	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:53
20	8.048	8.31	At AL	27.98	9.39	9.60	<MDA	35.93	0.33	2.975	4.66	12/18/92 7:54
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:54
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:55
23	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 7:55
24	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 7:56
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:56
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:57
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:57
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:58
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:58
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 7:59
31	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 7:59
32	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 8:00

2

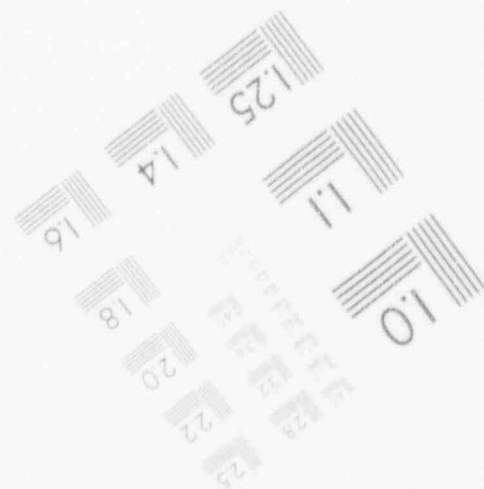
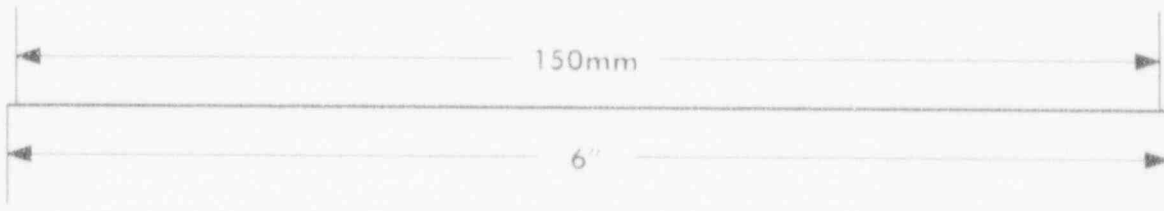
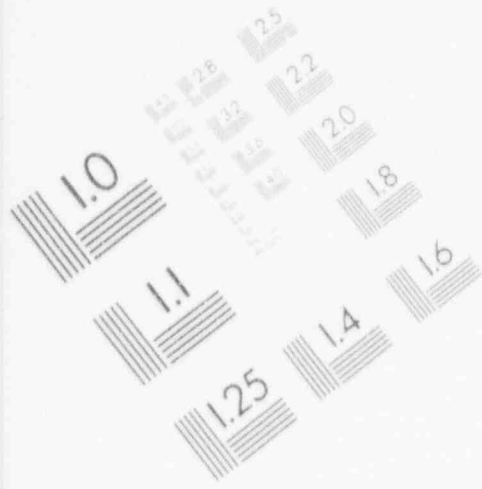
IMAGE EVALUATION TEST TARGET (MT-3)



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(716) 265-1600

2

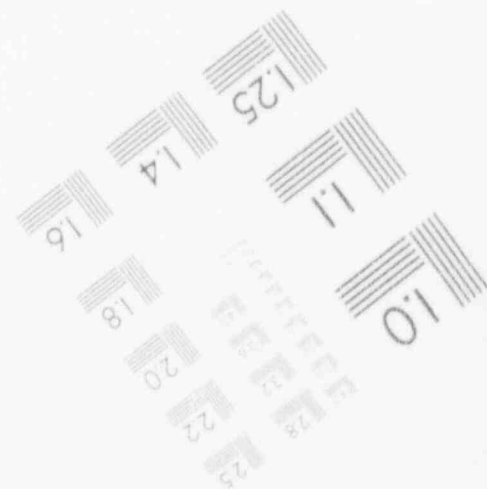
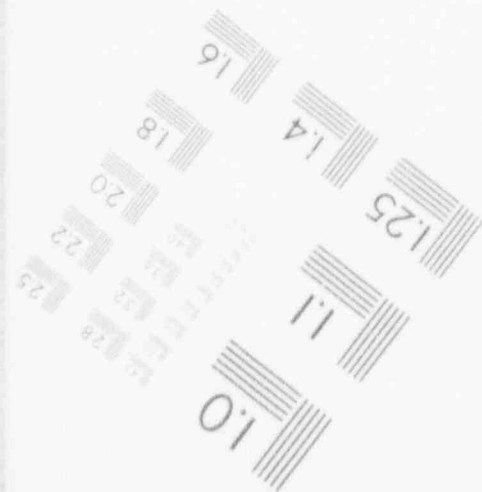
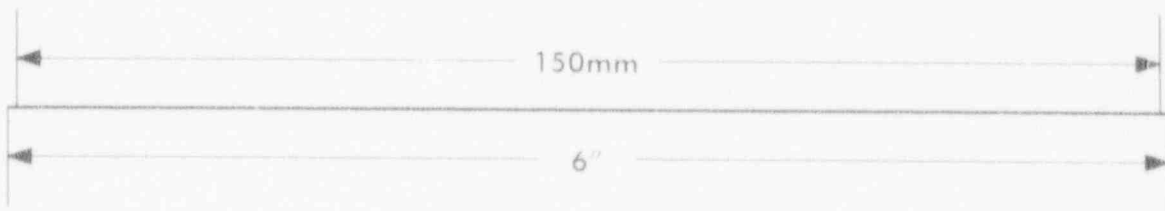
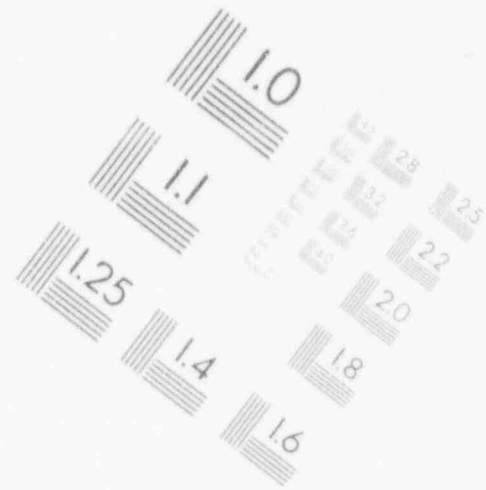
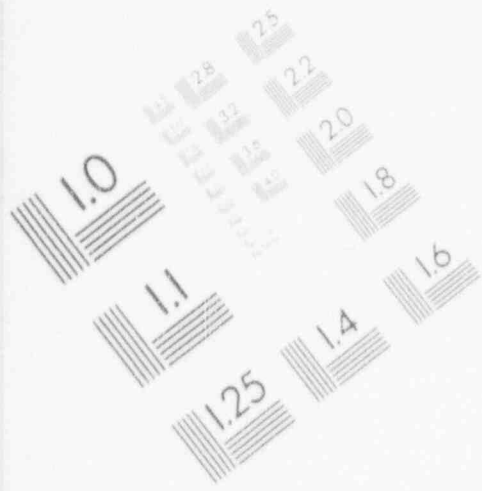
IMAGE EVALUATION TEST TARGET (MT-3)



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(716) 265-1600

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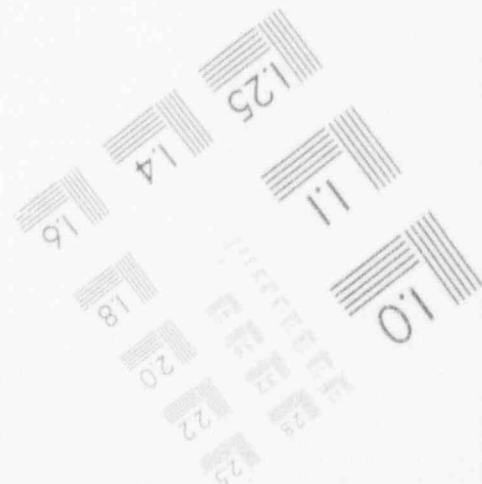
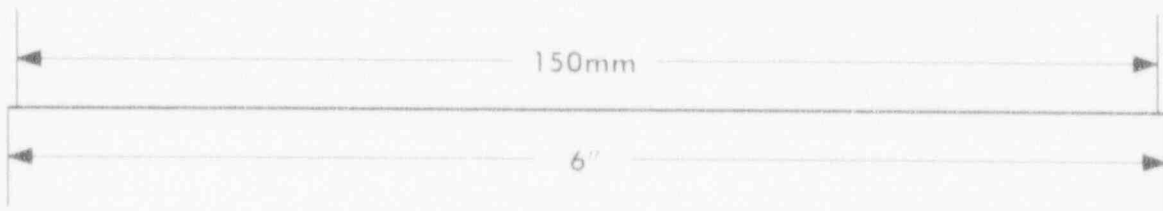
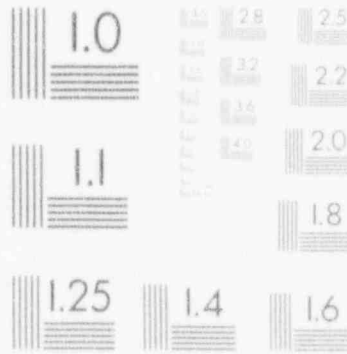
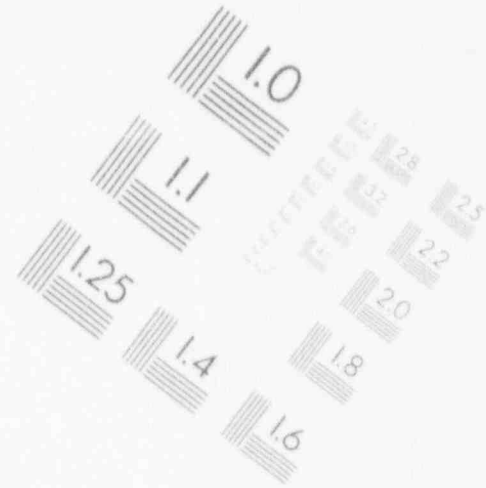
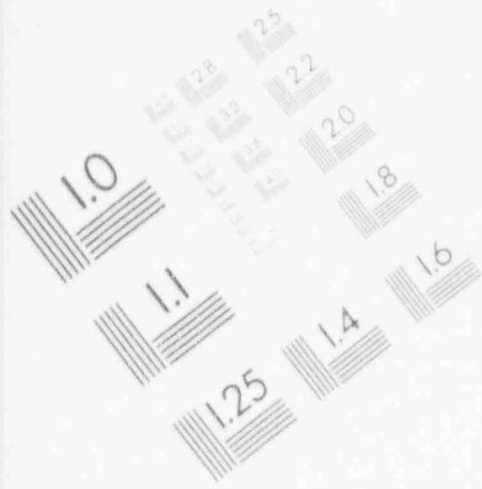
IMAGE EVALUATION TEST TARGET (MT-3)



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2

IMAGE EVALUATION TEST TARGET (MT-3)



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LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100401.XLD
 Batch Ended: 12/18/92 8:01
 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: p0210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

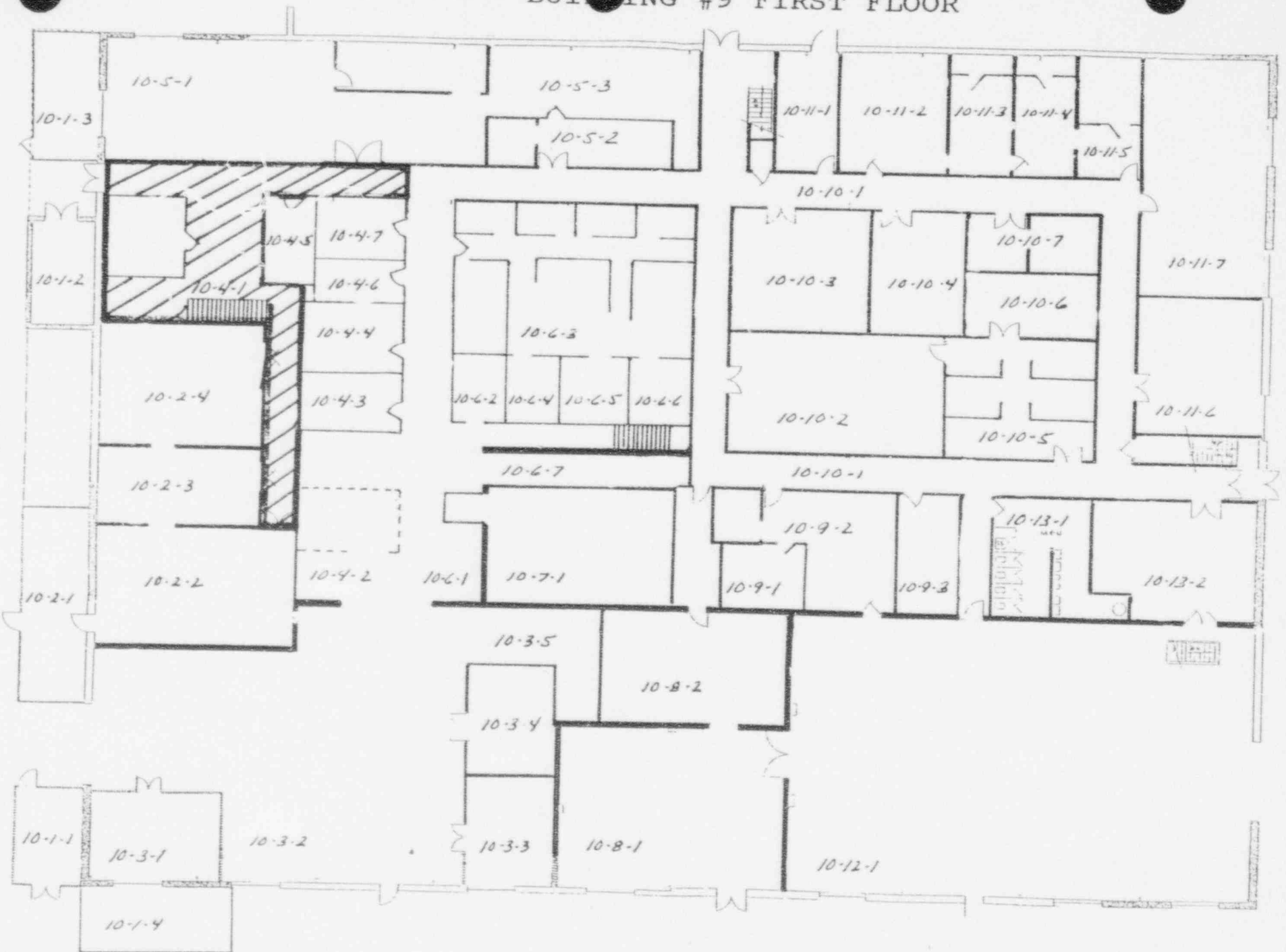
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
33	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:00
33	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:01

BUILDING #9 FIRST FLOOR

NORTH



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	22.6	4.42	2.99		ESP2:1510	38.7	2.58	
	ESP2:				*	ESP2:1517	38.9	2.57	311
	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: 12/18/92
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.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	2, -2	N/A	11	.01	485	
"	2, -4	"	11	.01	431	365	1.99	376	-0.149	-2.82	
"	4, -2	"	11	.01	410	340	2.99	353	-0.149	3.28	
"	4, -4	"	11	.01	433	355	0	339	-0.149	-2.82	
"	10, -4	"	10	.01	420	335	.997	345	-0.149	-2.82	
"	10, -2	"	10	.01	386	320	2.99	316	-0.149	-2.82	
"	10, 0	"	10	.01	464	335	1.99	389	-0.149	9.39	

FORM SERIAL #: 10-034 (Survey Section - Sequential survey #)	LOCATION # 10-4-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0098	SURVEYOR SIGNATURE: M. S. <i>M. Staffer</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100402.XLD
 Batch Ended: 12/18/92 8:05
 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

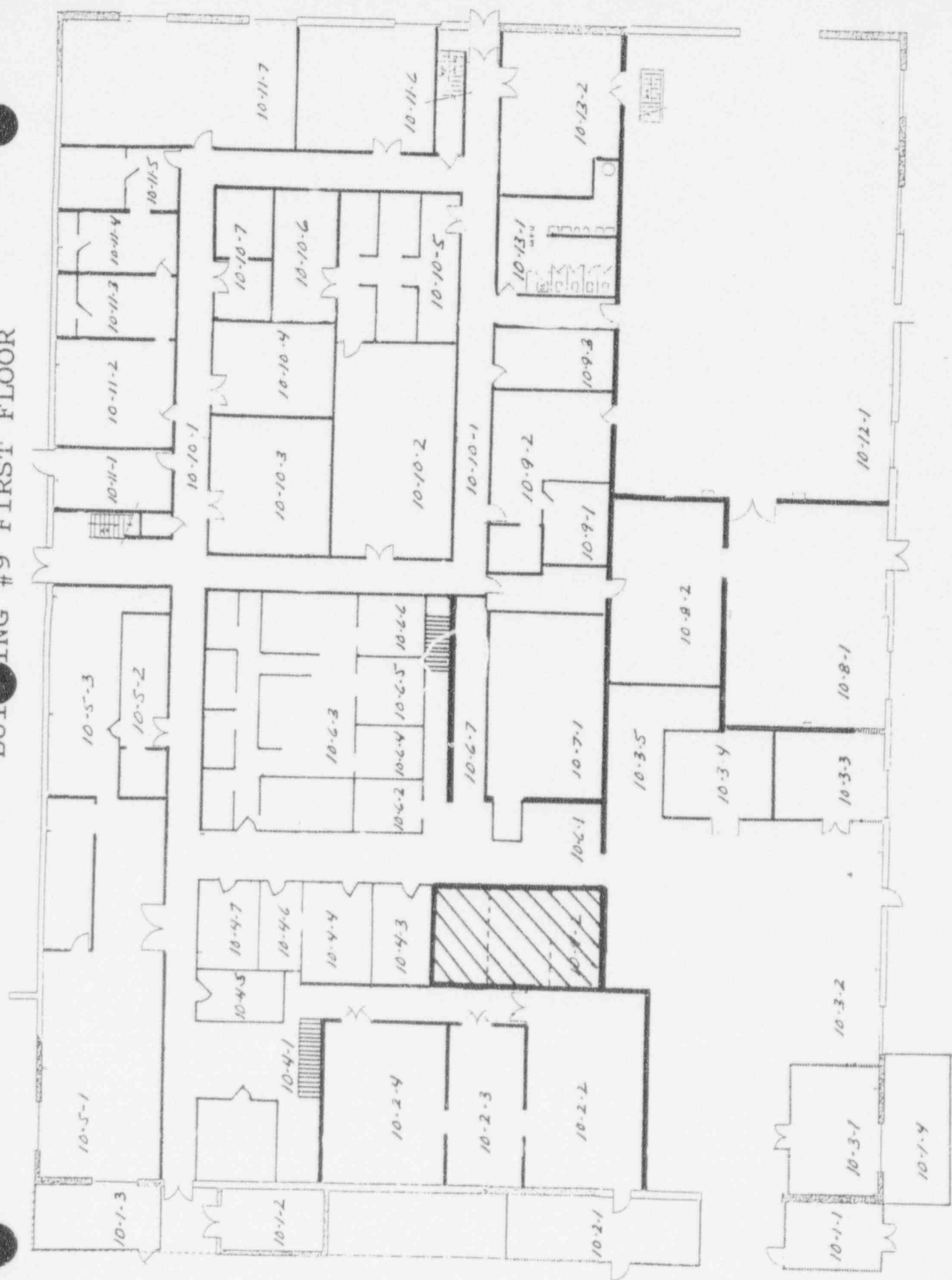
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158
 Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:01
36	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:02
37	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 8:02
38	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:03
39	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:03
40	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:04
41	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	0.055	4.66	12/18/92 8:05
42	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:06

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

BUILDING #9 FIRST FLOOR



NORTH
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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
X	ESP2:1510	22.6%	4.42	2.99		ESP2:1510			
	ESP2:1517				X	ESP2:1517	38.9	2.57	311
	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: 12/18/92
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.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	
Floor Carpet	2, -4	N/A	10	.01	581	370	1.99	362	-0.149	-2.82	

FORM SERIAL #: 10-035 (Survey Section - Sequential survey #)	LOCATION # 10-4-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0099	SURVEYOR SIGNATURE: M.S. <i>M. Shaffer</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100403.XLD
 Batch Ended: 12/18/92 8:06
 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

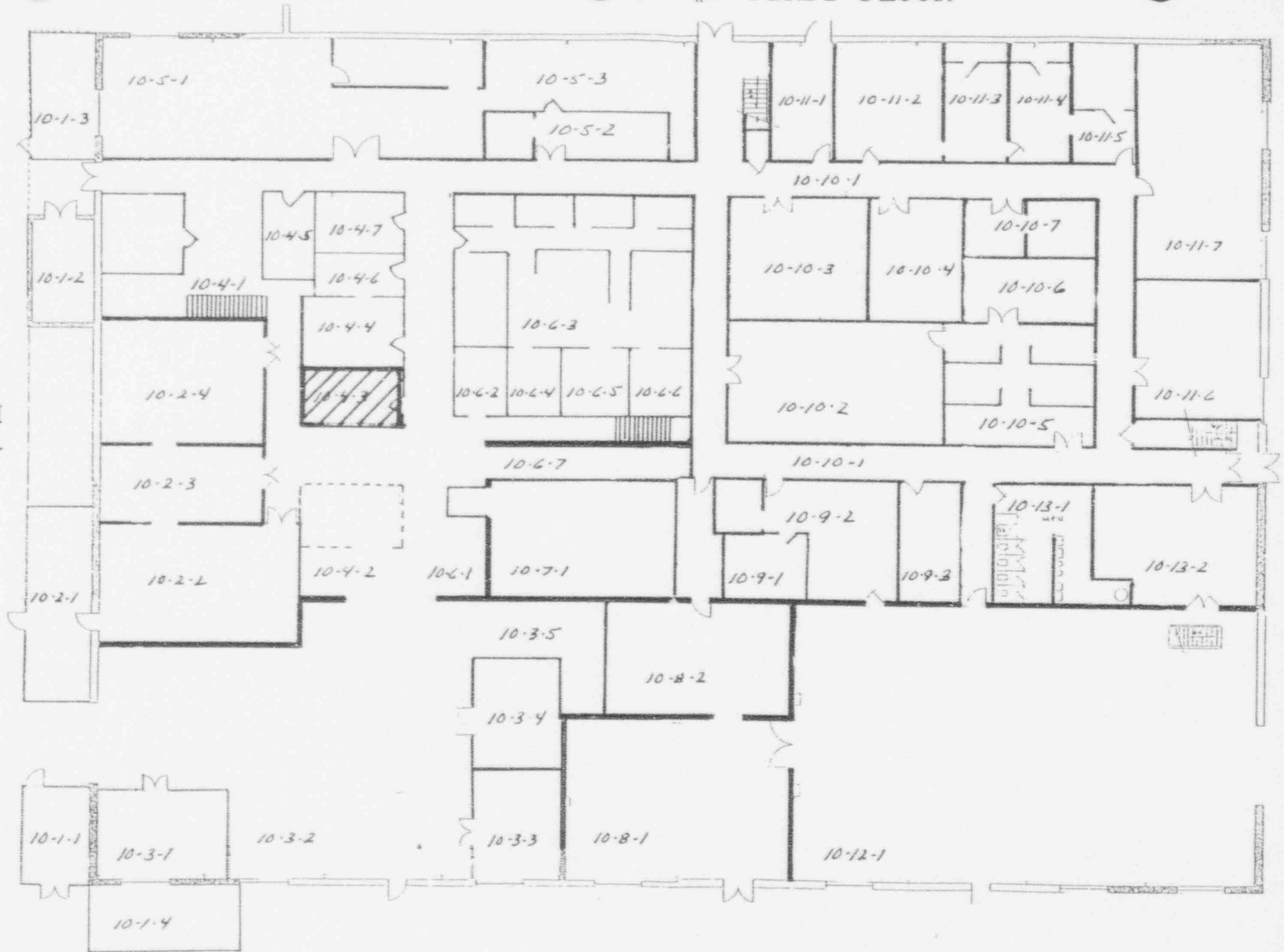
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
43	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:06

BUILDING #9 FIRST FLOOR

NORTH
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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
*	ESP2:1510	22.6%	4.42	2.99		ESP2:			
	ESP2:				*	ESP2:1517	38.9%	2.57	3.11
	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: 12/18/92
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.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	
(*)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 Carpet	2, -4	N/A	10	.01	396	325	2.99	334	-0.149	3.28	

FORM SERIAL #: 10-036 (Survey Section - Sequential survey #)	LOCATION # 10-4-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0100	SURVEYOR SIGNATURE: M.S. <i>M. S. Schaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100404.XLD
 Batch Ended: 12/18/92 8:06
 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

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
44	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 8:06

BUILDING #9 FIRST FLOOR



NORTH



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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2	*	ESP2:1595-L	31.3%	3.20	107
	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 2/11/93
COUNT DATE: 2/11/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	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	
Overhead beams	N/A	0, -2	N/A	N/A	162	100	2	95	-0.264	-2.49	ESP's used for scans &
"	"	0, -4	"	"	123	90	0	86	-0.264	-2.49	one minute counts.
"	"	2, -2	"	"	98	80	0	87	-0.264	5.53	"
"	"	2, -4	"	"	134	110	.999	89	7.741	3.59	"

FORM SERIAL #: 10-081 (Survey Section - Sequential survey #)	LOCATION # 10-4-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0254	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 2/11/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100404UP.XLD
 Batch Ended: 2/11/93 15:52
 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: 1435

Application Revision: 2
 Application Version: Standard

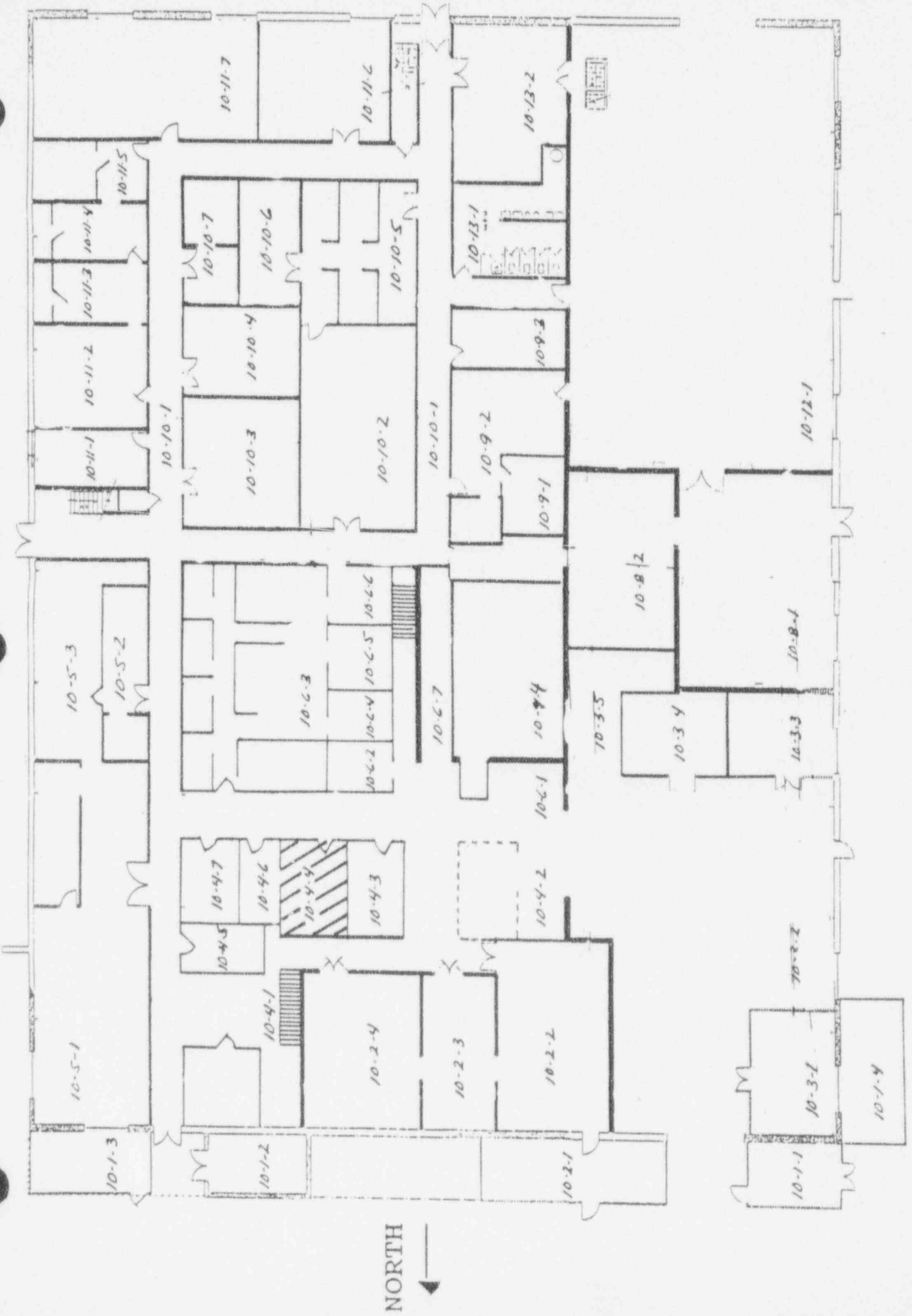
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-4-4 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/11/93 15:49
2	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/11/93 15:50
3	-0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	1.00	-0.100	2.76	2/11/93 15:51
4	7.741	1.17	Al Al	28.84	3.59	7.24	<MDA	34.63	0.33	2.930	1.79	2/11/93 15:52

BUILDING #9 FIRST FLOOR



NORTH



LB5100W Low Background Counting System -- Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100405.XLD
 Batch Ended: 12/18/92 8:07
 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

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
45	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/18/92 8:07
46	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/18/92 8:07

BUILDING #9 FIRST FLOOR



NORTH
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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
*	ESP2:1510	22.6%	4.42	0		ESP2:			
	ESP2:				*	ESP2:1517	38.9%	2.57	290
	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: 12/18/92
COUNT DATE: 12/18/92

(*)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	40.5%	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	
Floor/Carpet	2, -2	N/A	8	.01	413	315	3.99	316	-0.149	-2.82	
"	2, -4	"	8	.01	381	320	.997	366	-0.149	-2.82	

FORM SERIAL #: 10-038 (Survey Section - Sequential survey #)	LOCATION # 10-4-6 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0102	SURVEYOR SIGNATURE: M.S. <i>M. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100406.XLD
 Batch Ended: 12/18/92 8:08
 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

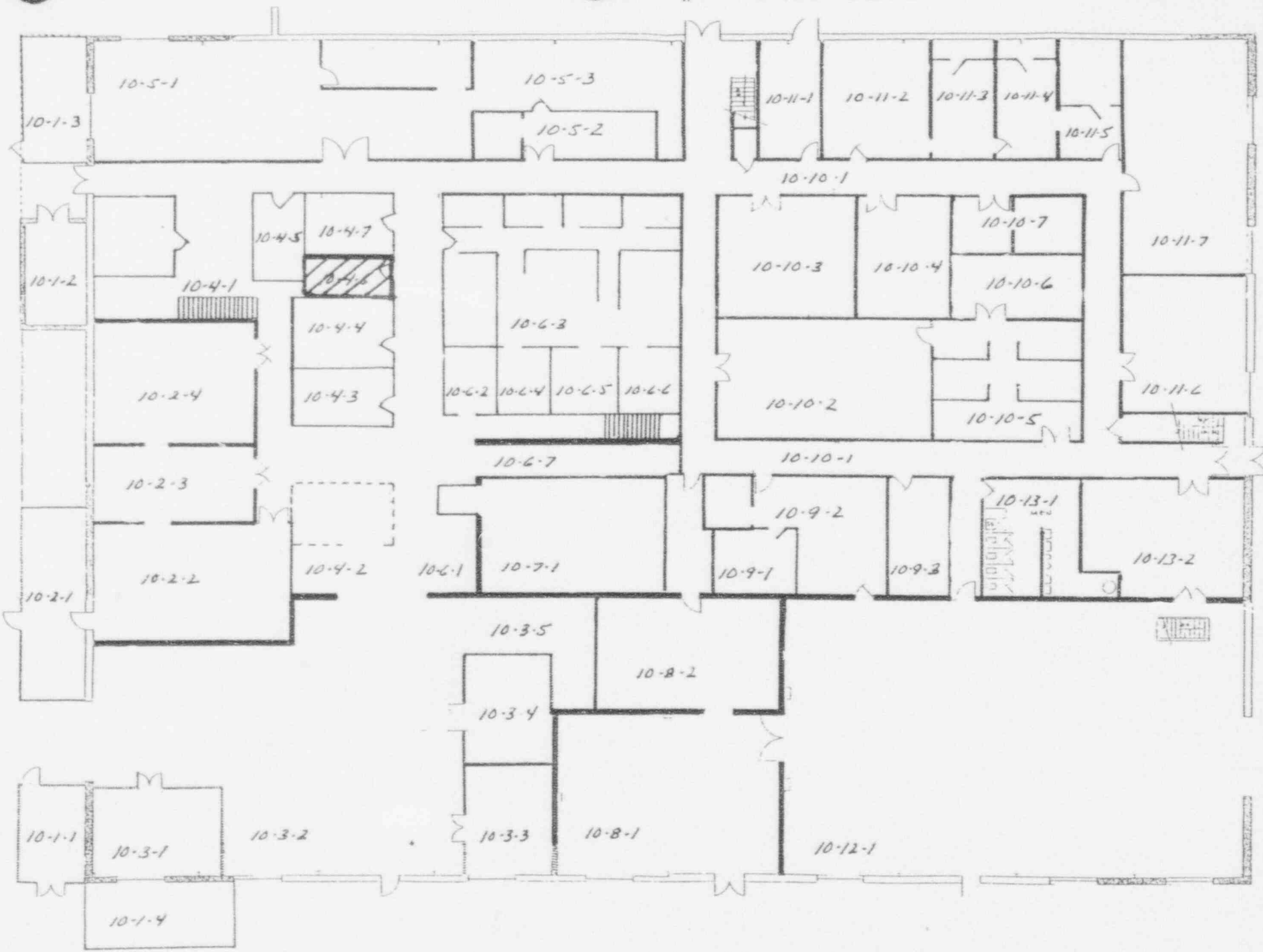
Beta efficiency log file: CS137.AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
47	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:08
48	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:08

BUILDING #9 FIRST FLOOR

NORTH
←



DECOMMISSIONING FIELD DATA SHEET

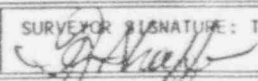
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2	*	ESP2:1595-L	31.3%	3.20	104
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	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: 2/11/93
COUNT DATE: 2/11/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	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	0, -2	N/A	N/A	N/A	134	110	3	107	-0.264	3.41	ESP's used for scans &
"	0, -4	"	"	"	153	120	.999	108	-0.264	3.59	one minute counts.
"	2, -2	"	"	"	128	90	0	114	-0.264	-2.49	"
"	2, -4	"	"	"	126	90	3	86	-0.264	-2.49	"

FORM SERIAL #: 10-082 (Survey Section - Sequential survey #)	LOCATION # 10-4-6 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0255	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/11/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100406UP.XLD
 Batch Ended: 2/11/93 15:54
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

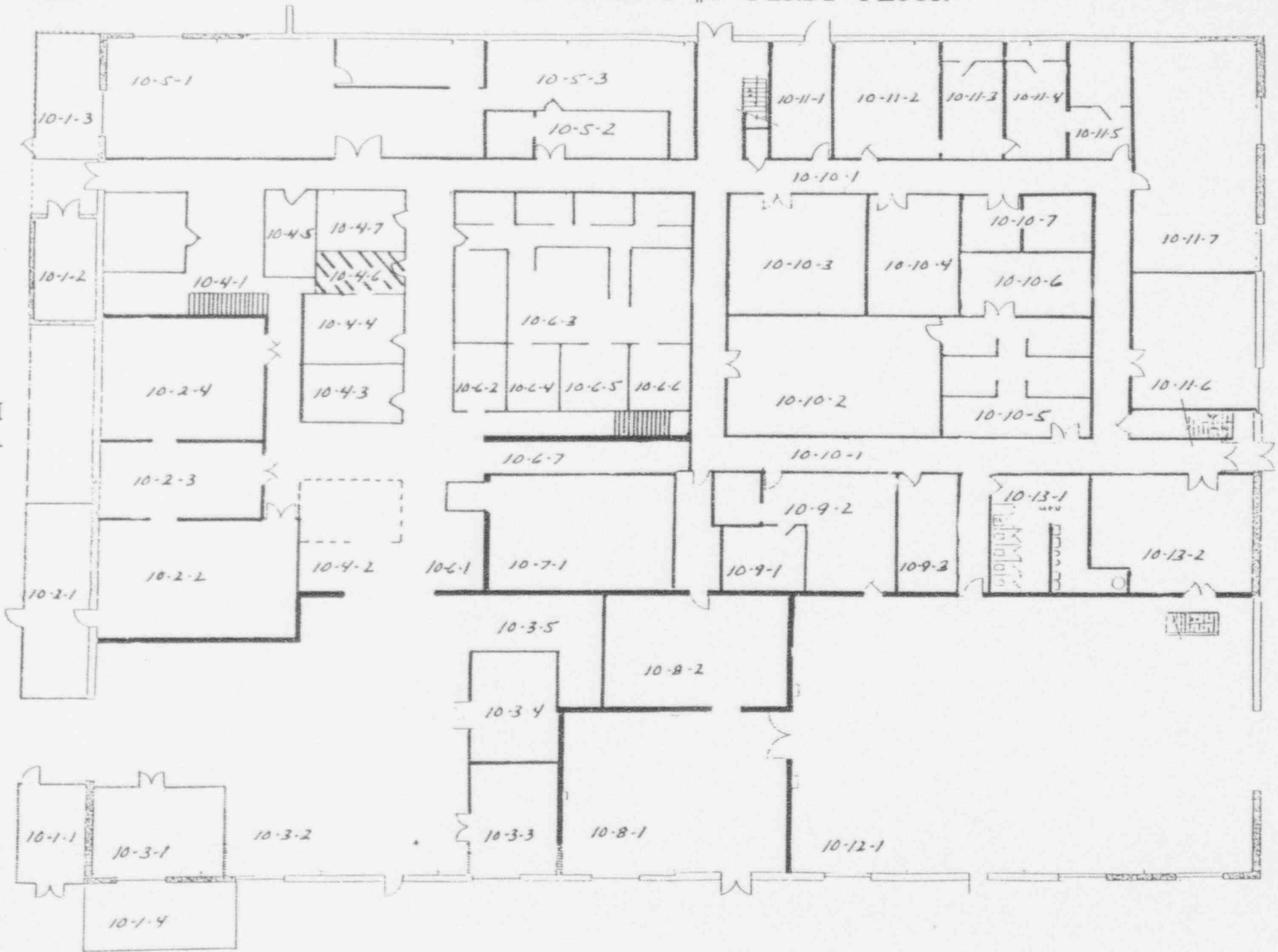
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-4-6 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
5	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/11/93 15:52
6	-0.264	1.63	<MDA	28.84	3.58	7.24	<MDA	34.63	0.33	-0.100	1.79	2/11/93 15:53
7	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/11/93 15:53
8	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/11/93 15:54

BUILDING #9 FIRST FLOOR

NORTH
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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
*	ESP2:1510	22.6%	4.42	.997	*	ESP2:1510	38.7%	2.58	290
	ESP2:					ESP2:1517	38.9%	2.57	
	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:	12/18/92
COUNT DATE:	12/18/92

(*)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/Carpet	2, -2	N/A	10	.01	429	355	.997	368	-0.149	-2.82	
"	2, -4	"	10	.01	459	360	4.99	376	-0.149	3.28	

FORM SERIAL #: 10-039 (Survey Section - Sequential survey #)	LOCATION # 10-4-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0103	SURVEYOR SIGNATURE: M.S. <i>M. S. [Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100407.XLD
 Batch Ended: 12/18/92 8:09
 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

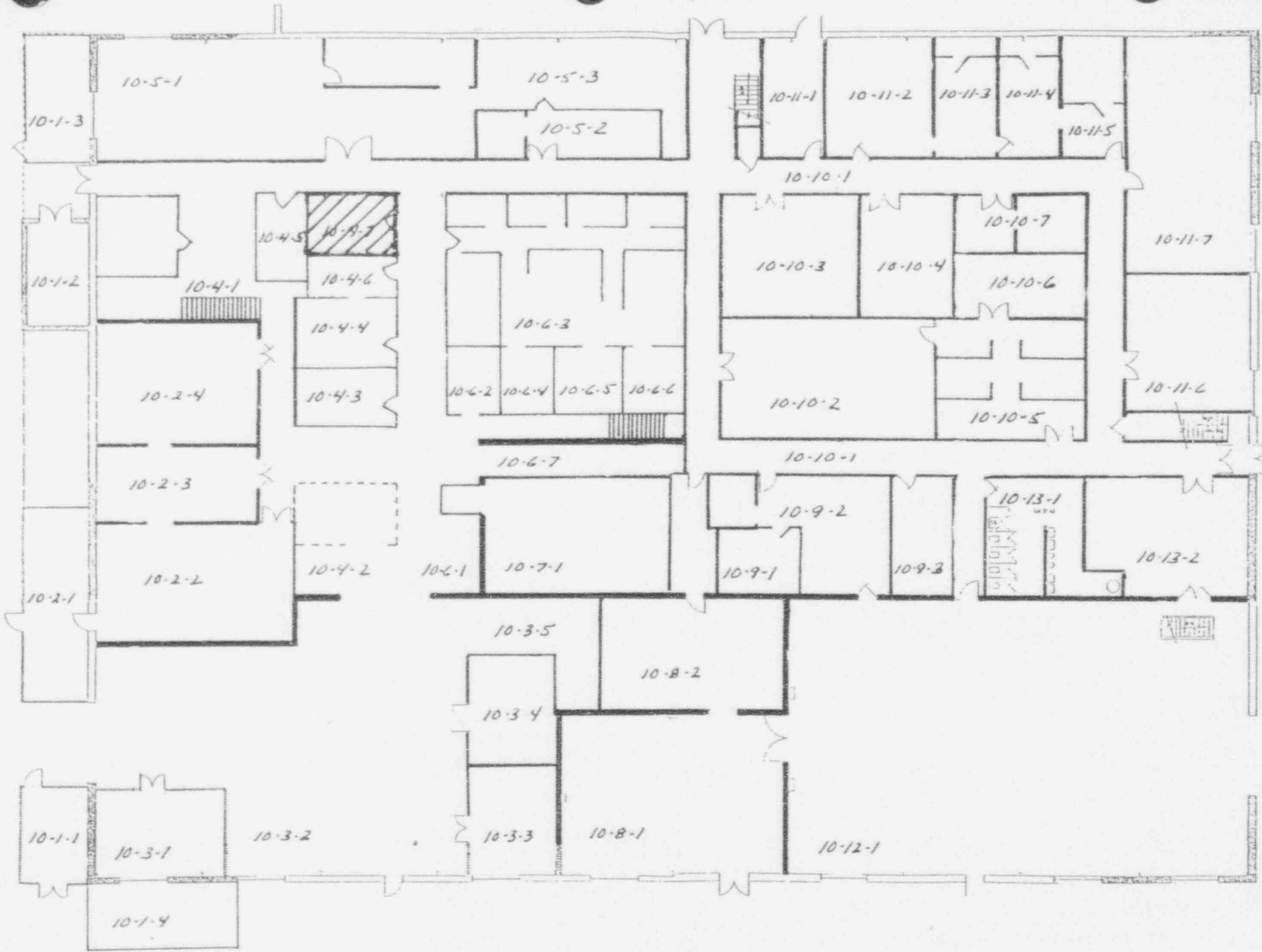
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
49	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:09
50	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 8:09

BUILDING #9 FIRST FLOOR

NORTH



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	130
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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: 2/16/93
COUNT DATE: 2/16/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	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	
Overhead Beams	N/A	4, -6	N/A	N/A	156	130	2	134	-0.264	3.59	
"	"	2, -6	"	"	240	180	3	160	-0.264	3.59	
"	"	4, -6	"	"	360	150	2	125	-0.264	-2.49	
"	"	2, -8	"	"	154	120	3	116	-0.264	-2.49	
"	"	4, -12	"	"	262	160	3	135	-0.264	-2.49	
"	"	2, -12	"	"	240	170	0	104	-0.264	-2.49	
"	"	4, -10	"	"	127	110	.999	122	-0.264	-2.49	
"	"	2, -10	"	"	135	120	3	110	-0.264	3.41	
"	"	5, -6	"	"	164	130	3	84	-0.264	-2.49	
"	"	7, -6	"	"	155	120	0	124	-0.264	-2.49	
"	"	5, -8	"	"	165	140	2	134	-0.264	-2.49	
"	"	7, -8	"	"	180	165	3	156	-0.264	3.41	
"	"	5, -10	"	"	132	110	0	119	-0.264	-2.49	
"	"	5, -10	"	"	231	160	.999	139	-0.264	3.41	
"	"	5, -11	"	"	150	150	.999	134	-0.264	-2.49	

FORM SERIAL #: 10-083 (Survey Section - Sequential survey #)	LOCATION # 10-4-1 to 7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0256	SURVEYOR SIGNATURE: TS <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	130
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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: 2/16/93
COUNT DATE: 2/16/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	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.		SNEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Overhead Beams	N/A	7, -11	N/A	N/A	147	120	.999	134	-0.264	-2.49	
"	"	5, -13	"	"	164	130	5	115	-0.264	-2.49	
"	"	7, -13	"	"	158	125	0	145	-0.264	3.59	
North Wall	"	6, -2	"	"	238	210	0	230	-0.264	3.41	
"	"	8, -2	"	"	301	160	0	177	-0.264	-2.49	
Overhead Beams	"	6, -2	"	"	169	125	2	149	-0.264	-2.49	
"	"	8, -2	"	"	240	175	.999	128	-0.264	-2.49	
"	"	6, -12	"	"	144	110	3	133	-0.264	-2.49	
"	"	8, -12	"	"	146	125	.999	127	-0.264	3.59	
Mezzanine	"	2, -2	"	"	228	190	0	170	-0.264	3.41	
West Wall	"	4, -2	"	"	240	200	0	188	-0.264	-2.49	
"	"	6, -2	"	"	238	195	0	173	-0.264	-2.49	
"	"	8, -2	"	"	185	170	2	176	-0.264	3.41	
North Wall	"	2, -2	"	"	210	170	.999	158	-0.264	-2.49	
"	"	4, -2	"	"	215	180	2	168	-0.264	-2.49	

FORM SERIAL #: 10-083 (Survey Section - Sequential survey #)	LOCATION # 10-4-1 to 7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0257	SURVEYOR SIGNATURE: TS <i>T. Stoff</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 2/16/93
 Counting Unit id: 1
 Data file name: C:\EXL\UNIT1\100400UP.XLD
 Batch Ended: 2/16/93 14:36
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - Unit 10-4 sub-units 1 thru 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	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/16/93 14:21
2	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/16/93 14:22
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:22
4	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:23
5	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:23
6	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:24
7	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:24
8	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/16/93 14:25
9	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:25
10	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:26
11	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:26
12	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/16/93 14:27
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:28
14	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:28
15	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:29
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:29
17	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:30
18	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/16/93 14:30
19	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/16/93 14:31
20	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:31
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/16/93 14:32
22	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:32
23	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/16/93 14:33
24	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/16/93 14:33
25	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/16/93 14:34

LB5100W Low Background Counting System – Smear Analysis

Date: 2/16/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100400UP.XLD
 Batch Ended: 2/16/93 14:36
 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: 1435

Application Revision: 2
 Application Version: Standard

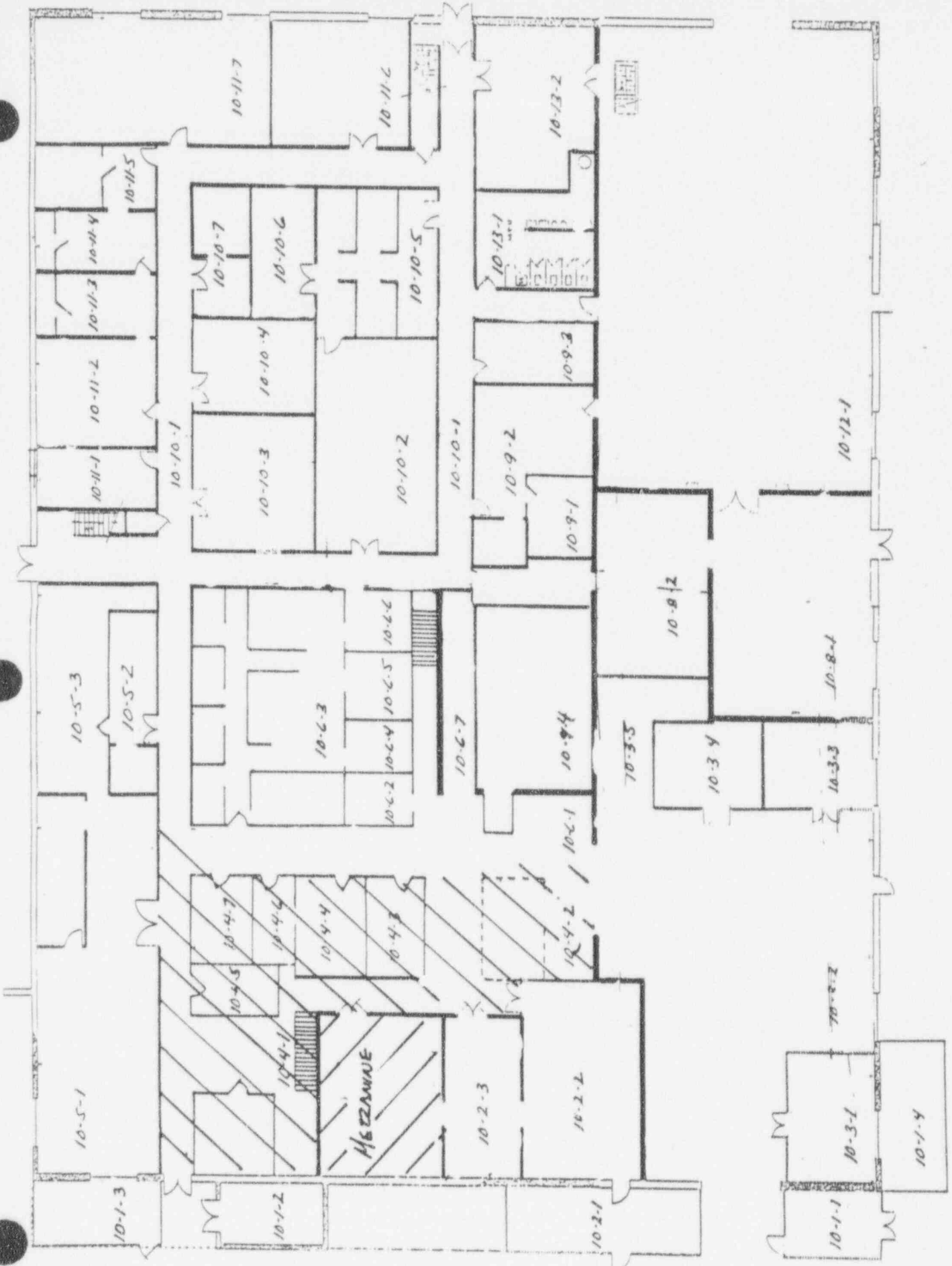
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - Unit 10-4 sub-units 1 thru 7 upper surfaces

Carrier	Alpha Activity				Beta Act _α				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/16/93 14:34
27	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/16/93 14:35
28	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/16/93 14:35
29	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/16/93 14:36
30	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/16/93 14:36

BUILDING #9 FIRST FLOOR



NORTH
↓

APPENDIX E

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 5

(*)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	432
*	ESP2:1510	22.6	4.14	3.99	*	ESP2:1517	33.9	2.57	385
	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: 1/11/93; 12/28/93
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.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/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
West Wall	N/A	4, -5.4	N/A	N/A	530	410	2.0	413	-0.149	-2.82	ESP'S #1517-L & # 1595L
"	"	12, -5.4	"	"	535	420	3.0	438	-0.149	-2.82	used for scans & counts
"	"	14, -5.4	"	"	502	460	0	439	-0.149	3.28	"
Floor	"	2, -4	11	.01	454	375	2.99	341	-0.149	-2.82	ESP's #1510 & #1517
"	"	2, -6	11	.01	411	325	3.99	402	-0.149	-2.82	used for scans & 1 min
"	"	2, -8	11	.01	456	330	2.99	390	-0.149	-2.82	counts
"	"	2, -10	11	.01	457	365	.997	365	-0.149	-2.82	"
"	"	2, -14	10	.01	468	345	1.99	373	-0.149	-2.82	"
"	"	2, -16	10	.01	487	360	1.99	363	-0.149	-2.82	"
"	"	2, -18	11	.01	449	370	.997	375	-0.149	3.28	"
"	"	4, -18	11	.01	415	325	3.99	384	-0.149	-2.82	"
"	"	4, -12	10	.01	414	365	1.99	387	-0.149	-2.82	"
"	"	4, -10	10	.01	451	345	1.99	358	-0.149	3.28	"
"	"	4, -8	8	.01	353	310	3.99	329	-0.149	-2.82	"
"	"	4, -4	8	.01	468	350	3.99	343	-0.149	-2.82	"

FORM SERIAL #: 10-043 (Survey Section - Sequential survey #)	LOCATION # 10-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0133	SURVEYOR SIGNATURE: T.S. <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100501.XLD
 Batch Ended: 12/18/92 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

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	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:32
2	-0.149	1.97	<MDA	27.98	9.39	9.00	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:32
3	-0.149	1.97	<MDA	27.98	9.39	9.00	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:32
4	-0.149	1.97	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:33
5	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:33
6	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:34
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:34
8	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:35
9	-0.149	1.97	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:35
10	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:36
11	-0.149	1.97	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:36
12	-0.149	1.97	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:37
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:37
14	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:38
15	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:38
16	-0.149	1.97	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:39
17	-0.149	1.97	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:39
18	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:40
19	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:41
20	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:41
21	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:42
22	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:42
23	-0.149	1.97	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:43
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:43
25	-0.149	1.97	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:44

SURVEY POINTS NOT NEEDED.

LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100501.XLD
 Batch Ended: 12/18/92 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

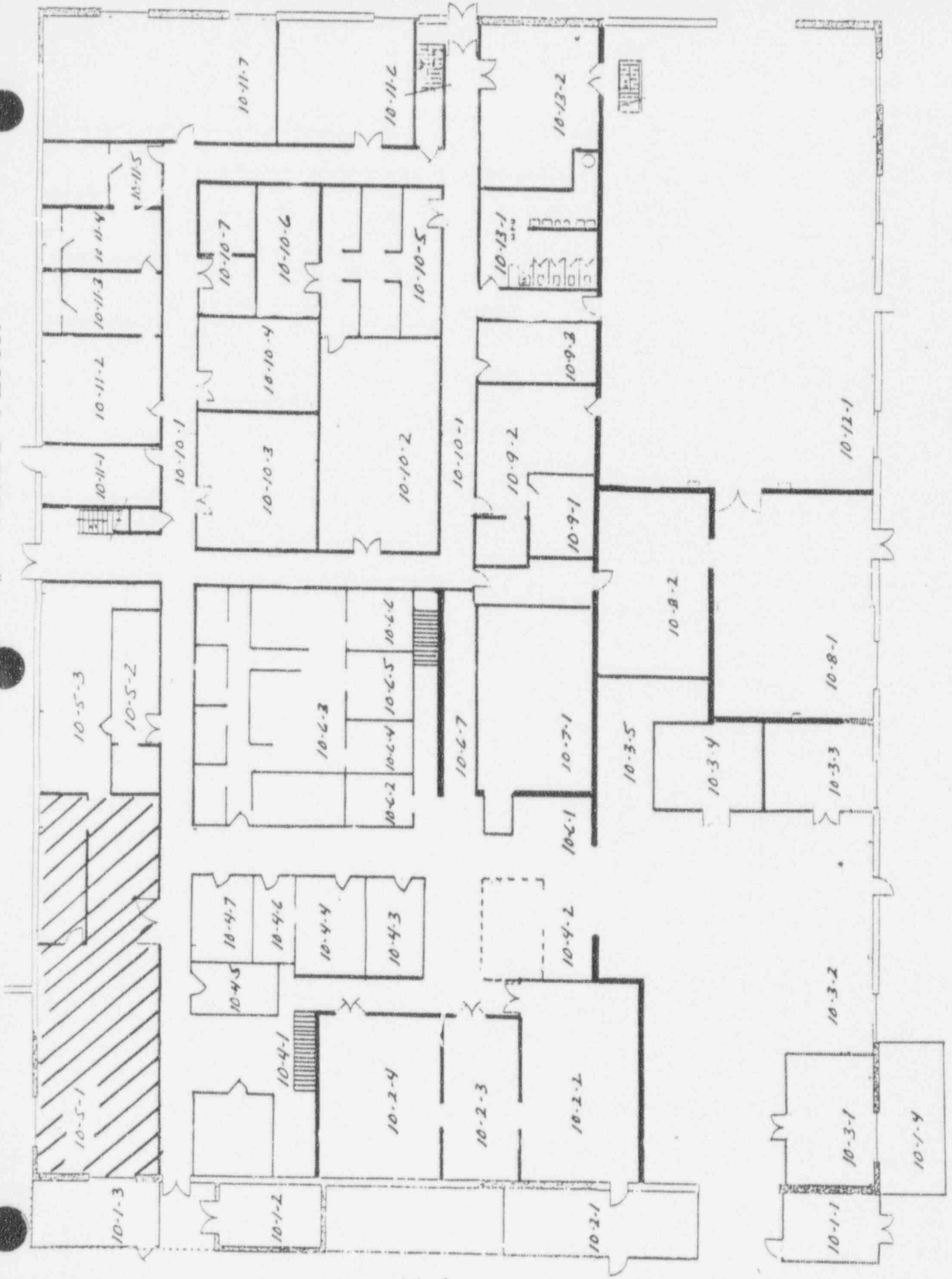
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: TSB

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	12/18/92 8:44
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:45
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:45

BUILDING #9 FIRST FLOOR



NORTH



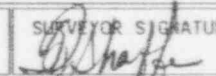
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	254
	ESP2:					ESP2:			
	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: 2/17/93
COUNT DATE: 2/17/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	N/A	2, -4.4	N/A	N/A	386	300	4	283	-0.264	-2.49	
Upper Surfaces	"	4, -4.4	"	"	298	260	1	178	-0.264	-2.49	
"	"	8, -4.4	"	"	408	260	0	257	-0.264	3.59	
"	"	10, -4.4	"	"	373	320	1	298	-0.264	3.41	
"	"	12, -4.4	"	"	303	270	0	284	-0.264	-2.49	
"	"	14, -4.4	"	"	357	280	6	321	-0.264	-2.49	
"	"	16, -4.4	"	"	359	310	5	286	-0.264	-2.49	
"	"	18, -4.4	"	"	415	320	1	329	-0.264	9.66	
North Wall	"	2, -4.4	"	"	364	300	0	344	-0.264	-2.49	
"	"	4, -4.4	"	"	378	310	0	343	-0.264	3.59	
"	"	6, -4.4	"	"	340	280	4	308	-0.264	-2.49	
East Wall	"	2, -4.4	"	"	393	360	2	288	7.506	-2.49	
"	"	4, -4.4	"	"	284	250	1	321	-0.264	-2.49	
"	"	6, -4.4	"	"	292	270	1	283	-0.264	3.41	
"	"	8, -4.4	"	"	380	340	0	299	-0.264	-2.49	

FORM SERIAL #: 10-084 (Survey Section - Sequential survey #)	LOCATION # 10-5-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: 3 (Group I, II, III, IV)	DISK FILE CODE: fds-0258	SURVEYOR SIGNATURE: TS 
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(*) I/F 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	
*	ESP2:1601-L	23.1% 4.33	ESP2:1588-L	34.3% 2.91	254
	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: 2/17/93
COUNT DATE: 2/17/93

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

(*) I/F USED	COUNTING EQUIPMENT (ALPHA)		BKG
	INST: S/N	EFF C.F.	
*	TENN: 13295	37.8% 2.64	0.1
	SAC4: 112B	40.6% 2.46	
	SAC4: 263	34.3% 2.91	
(*) I/F USED	COUNTING EQUIPMENT (BETA)		BKG
	INST: S/N	EFF C.F.	
*	TENN: 13295	49.9% 2.0	1.24
	MS-2: 1848	25.0% 4.0	
	BC-4: 808	16.9% 5.92	

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	
East Wall	14, -.3	N/A	N/A	N/A	328	270	2	344	-0.264	-2.49	
"	16, -.3	"	"	"	422	270	2	322	-0.264	-2.49	
"	18, -.3	"	"	"	328	260	1	299	7.741	-2.49	
South Wall	2, -.3	"	"	"	346	290	1	340	-0.264	-2.49	
West Wall	2, -.3	"	"	"	418	320	0	336	-0.264	3.41	
"	4, -.3	"	"	"	342	260	0	332	-0.264	-2.49	
"	6, -.3	"	"	"	436	340	1	315	-0.264	3.59	

FORM SERIAL #: 10-084 (Survey Section - Sequential survey #)	LOCATION # 10-5-1 (Survey Section - Unit # - sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0259	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100501UP.XLD
 Batch Ended: 2/17/93 15:45
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

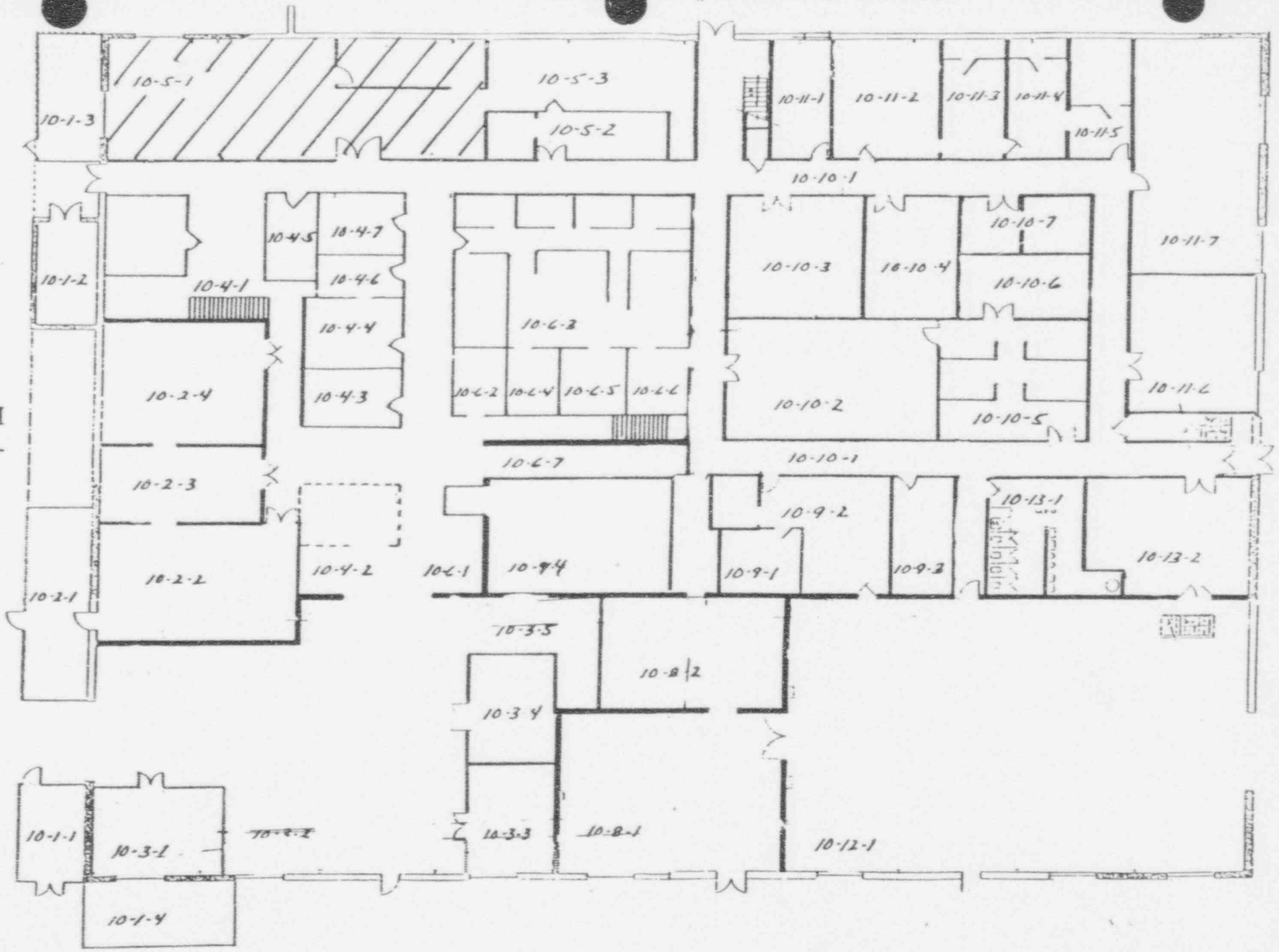
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-5-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:35
11	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:35
12	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/17/93 15:36
13	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/17/93 15:36
14	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:37
15	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:37
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:38
17	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/17/93 15:38
18	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:39
19	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/17/93 15:39
20	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:40
21	7.506	7.94	At AL	28.10	-2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	2/17/93 15:40
22	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:41
23	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/17/93 15:41
24	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:42
25	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:42
26	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:43
27	7.741	8.17	At AL	28.84	-2.49	3.93	<MDA	34.63	0.33	2.930	-1.24	2/17/93 15:43
28	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/17/93 15:44
29	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:44
30	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/17/93 15:45

BUILDING #9 FIRST FLOOR

NORTH
←



(*)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	432
	ESP2:1510	22.6	4.42	1.99	*	ESP2:1517	38.9	2.57	433
	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: 1/11/93; 12/18/92
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.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)				
	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, -.4	N/A	N/A	488	450	4.0	469	-0.149	-2.82	ESP's 1517L & 1595L
East wall	"	2, -.4	"	"	465	420	4.0	471	-0.149	3.28	used for scans & counts
West wall	"	2, -.4	"	"	473	450	2.0	455	-0.149	-2.82	"
"	"	6, -.4	"	"	481	450	.999	443	-0.149	-2.82	"
Floor	"	2, -2	11	.01	448	380	.997	402	-0.149	-2.82	ESP's 1510 & 1517 used
"	"	2, -4	11	.01	448	390	1.99	389	-0.149	-2.82	scans and counts

FORM SERIAL #: 10-044 (Survey Section - Sequential survey #)	LOCATION # 10-5-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0134	SURVEYOR SIGNATURE:
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit Id: 1
 Data file name: C:\LBXL\UNIT1\100502.XLD
 Batch Ended: 12/18/92 8:48
 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): 1.401315789

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				
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:46
30	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 8:46
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:47
32	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:47
33	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:48
34	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:48

BUILDING #9 FIRST FLOOR



NORTH
←

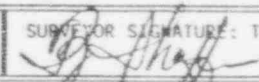
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	432
*	ESP2:1510	22.6%	4.42	1.99	*	ESP2:1517	58.9%	2.57	433
	ESP2:					ESP2:			
	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/11/93; 12/18/92
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.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)				
	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	2, -1.3	N/A	N/A	556	380	.999	412	-0.149	-2.82	ESP's 1595L & 1517L
"	"	6, -1.3	"	"	410	400	.999	456	-0.149	-2.82	used for scans
"	"	10, -1.3	"	"	492	400	0	414	-0.149	-2.82	& counts.
South wall	"	4, -1.3	"	"	438	400	0	418	-0.149	-2.82	"
West wall	"	2, -1.3	"	"	425	375	0	384	-0.149	-2.82	"
Floor	"	2, -2	11	.01	459	335	2.99	370	-0.149	9.39	ESP's 1510 & 1517 used
"	"	2, -4	11	.01	518	410	2.99	395	-0.149	-2.82	for scans & counts
"	"	2, -6	10	.01	496	365	.997	379	-0.149	3.10	"
"	"	2, -8	10	.01	458	370	.997	357	-0.149	-2.82	"

FORM SERIAL #: 10-045 (Survey Section - Sequential survey #)	LOCATION # 10-5-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0135	SURVEYOR SIGNATURE: T.S. 
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LB5100W Low Background Counting System – Smeear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100503.XLD
 Batch Ended: 12/18/92 8:56
 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: TSB

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	27.90	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:49
36	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 8:49
37	-0.149	1.37	<MDA	27.90	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:50
38	-0.149	1.37	<MDA	27.90	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:50
39	-0.149	1.37	<MDA	27.90	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:51
40	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:51
41	-0.149	1.37	<MDA	27.90	-3.98	9.60	<MDA	35.93	0.33	-0.055	4.66	12/18/92 8:52
42	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:52
43	-0.149	1.36	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/18/92 8:53
44	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:53
45	-0.149	1.37	<MDA	27.90	9.20	7.41	<MDA	35.93	0.33	-0.055	1.09	12/18/92 8:54
46	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/18/92 8:54
47	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:55
48	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/18/92 8:55
49	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 8:56

SURVEY POINTS NOT NEEDED.

BUILDING #9 FIRST FLOOR

NORTH



(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	254
	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 2/17/93
COUNT DATE: 2/17/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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, -.3	N/A	N/A	N/A	352	300	0	329	-0.264	3.59	
"	4, -.3	"	"	"	369	310	2	407	-0.264	3.59	
"	6, -.3	"	"	"	441	330	2	394	-0.264	3.41	
"	8, -.3	"	"	"	367	300	0	323	-0.264	-2.49	
"	10, -.3	"	"	"	480	290	0	286	-0.264	-2.49	
"	12, -.3	"	"	"	403	310	2	303	-0.264	-2.49	
South West Wall	2, -.3	"	"	"	297	240	0	291	-0.264	3.41	
"	4, -.3	"	"	"	351	275	1	295	-0.264	-2.49	
West South Wall	2, -.3	"	"	"	261	250	1	345	-0.264	3.41	

FORM SERIAL #: 10-085 (Survey Section - Sequential survey #)	LOCATION # 10-5-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0260	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 2/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100503UP.XLD
 Batch Ended: 2/17/93 15:34
 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: 1435

Application Revision: 2
 Application Version: Standard

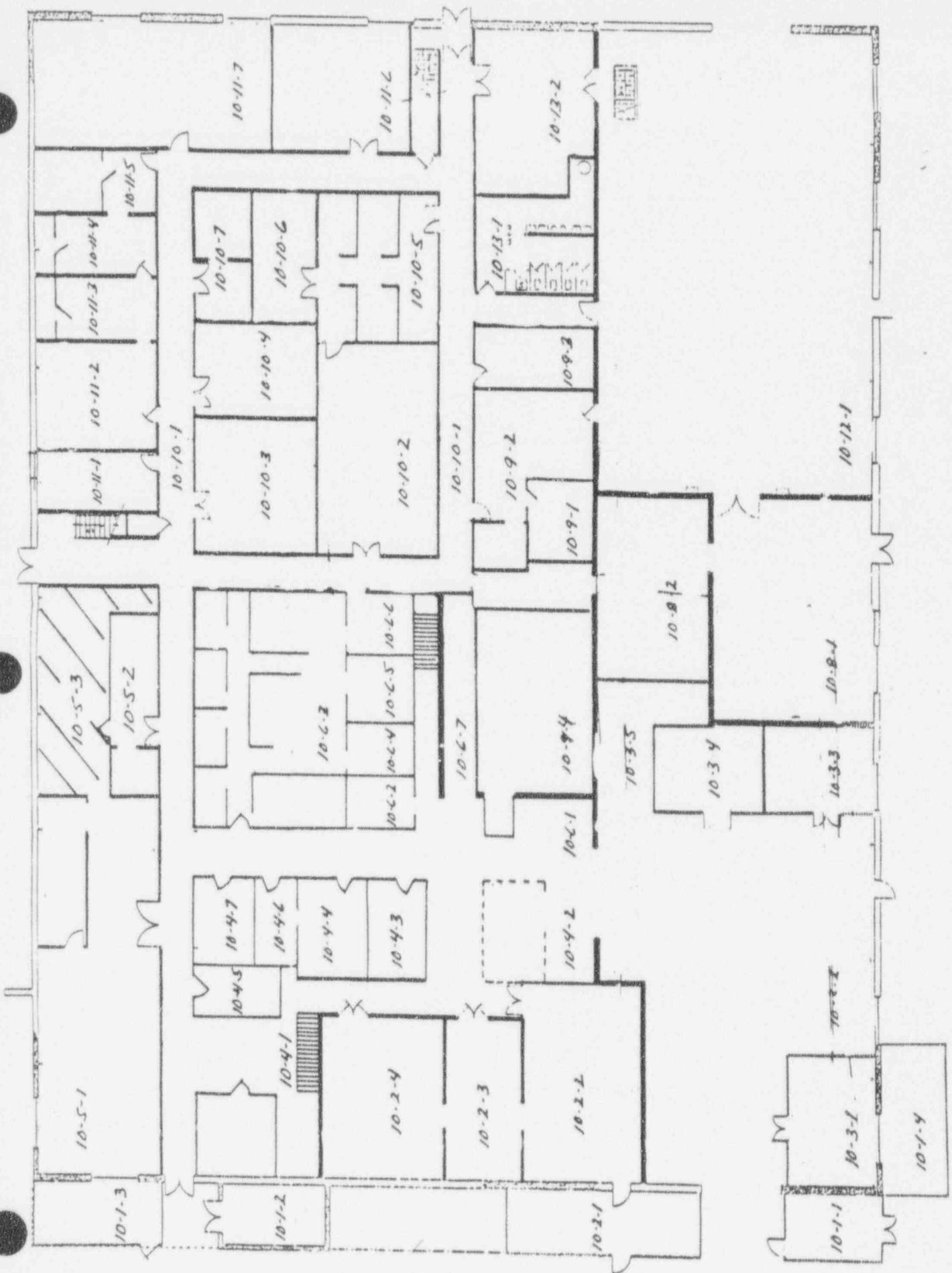
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.89%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-5-3 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	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/17/93 15:30
2	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/17/93 15:31
3	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/17/93 15:31
4	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/17/93 15:32
5	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:32
6	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:33
7	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/17/93 15:33
8	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/17/93 15:34
9	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/17/93 15:34

BUILDING #9 FIRST FLOOR



NORTH



APPENDIX F

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 6

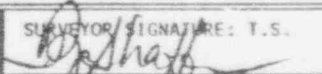
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 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	57	*	FLMON:91943	30.3%	3.3	1311

SURVEY DATE:	1/11/93
COUNT DATE:	12/18/92

(*)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/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	N/A	2, -2	11	.01	1476	1300	51	1243	7.807	3.10	
"	"	4, -2	11	.01	1386	1200	48	1262	-0.149	9.39	
"	"	6, -2	11	.01	1339	1200	42	1406	-0.149	-2.82	
"	"	8, -2	11	.01	1418	1350	43	1213	-0.149	3.28	
"	"	10, -2	11	.01	1453	1200	49	1282	-0.149	9.39	
"	"	12, -2	11	.01	1350	1300	60	1317	-0.149	3.28	
"	"	14, -2	11	.01	1287	1250	54	1384	-0.149	-2.82	
"	"	16, -2	12	.01	1325	1300	47	1181	-0.149	3.28	
"	"	18, -2	12	.01	1219	1200	56	1250	-0.149	-2.82	
"	"	20, -2	12	.01	1347	1250	54	1219	-0.149	3.28	
"	"	22, -2	12	.02	1350	1250	55	1215	-0.149	9.39	
"	"	22, -4	10	.02	1257	1200	53	1222	-0.149	-2.82	
"	"	22, -6	10	.01	1322	1300	46	1339	-0.149	-2.82	
"	"	22, -8	10	.01	1380	1325	50	1303	-0.149	-2.82	
"	"	22, -10	10	.01	1396	1350	56	1310	-0.149	-2.82	

FORM SERIAL #: 10-046 (Survey Section - Sequential survey #)	LOCATION # 10-6-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0136	SURVEYOR SIGNATURE: T.S. 
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(*) IF USED	ALPHA SURVEY EQUIPMENT			BETA SURVEY EQUIPMENT			(*) IF USED	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:			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		1311

(*) IF USED	COUNTING EQUIPMENT (ALPHA)			BKG
	INST: S/N	EFF	C.F.	
*	TENN: 13295	36.9%	2.7	.055
	SAC4: 1128	40.6%	2.46	
	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	
	BC-4: 808	17.9%	5.57	

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

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/100-cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Floor	N/A	22, -12	11	.01	1369	1325	48	1263	-0.149	-2.82	
"	"	22, -14	11	.01	1337	1300	57	1313	-0.149	3.28	
"	"	2, -4	11	.01	1236	1200	55	1316	-0.149	-2.82	
"	"	6, -4	11	.01	1544	1250	48	1346	-0.149	3.28	
"	"	8, -4	11	.01	1446	1300	42	1419	-0.149	-2.82	

FORM SERIAL #: 10-046 (Survey Section - Sequential survey #)	LOCATION # 10-6-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0137	SURVEYOR SIGNATURE: T.S.
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\9DL\UNIT1\100601.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

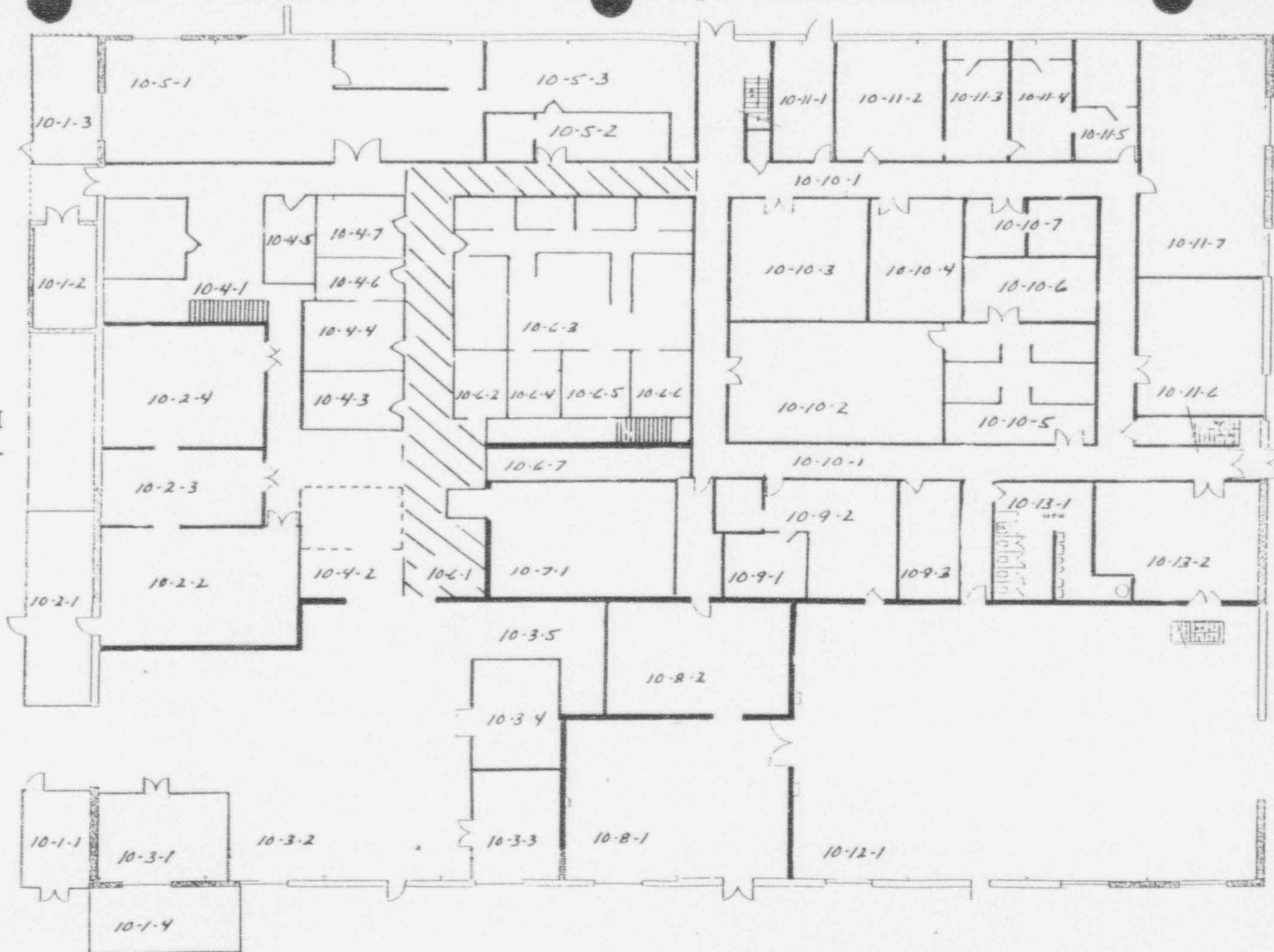
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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	7.807	8.07	At AL	27.24	3.10	7.22	<MDA	35.16	0.34	2.886	1.54	12/18/92 11:34
2	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/18/92 11:34
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 11:35
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 11:35
5	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/18/92 11:36
6	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 11:36
7	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 11:37
8	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 11:37
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 11:38
10	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 11:38
11	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/18/92 11:39
12	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:39
13	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 11:40
14	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 11:40
15	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 11:41
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:41
17	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 11:42
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:42
19	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/18/92 11:43
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:43

BUILDING #9 FIRST FLOOR

NORTH



(*)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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	5	*	ESP2:1595-L	31.3%	3.20	108
	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: 2/10/93
COUNT DATE: 2/11/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	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, -2	N/A	N/A	N/A	128	100	3	114	-0.264	3.59	ESP's used for scans
"	4, -2	"	"	"	162	130	2	126	-0.264	3.41	& 1 minute counts.
"	0, -2	"	"	"	157	120	4	122	-0.264	3.41	"
West Wall	2, -2	"	"	"	240	170	2	156	-0.264	3.59	"
"	2, -4	"	"	"	242	220	5	173	-0.264	3.59	"
"	4, -4	"	"	"	180	160	3	167	-0.264	9.66	"
"	4, -2	"	"	"	193	130	2	184	-0.264	9.45	"
Ceiling	6, -2	"	"	"	172	150	4	108	-0.264	-2.49	"
"	8, -2	"	"	"	147	120	.999	107	-0.264	3.59	"
"	10, -2	"	"	"	127	100	2	118	-0.264	9.66	"
"	12, -2	"	"	"	111	90	.999	92	-0.264	-2.49	"
"	14, -2	"	"	"	158	120	3	100	-0.264	3.41	"
"	16, -2	"	"	"	136	100	0	110	-0.264	-2.49	"
"	18, -2	"	"	"	131	100	4	115	-0.264	3.41	"
"	20, -2	"	"	"	108	50	4	102	-0.264	-0.249	"

FORM SERIAL #: 10-080 (Survey Section - Sequential survey #)	LOCATION # 10-6-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0252	SURVEYOR SIGNATURE: <i>[Signature]</i>
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DECOMMISSIONING FIELD DATA SHEET

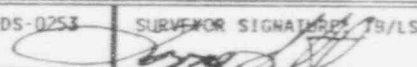
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	5	*	ESP2:1595-L	31.3%	3.20	108
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					ES20: 5242	20.3%	4.92	
	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: 2/10/93
COUNT DATE: 2/11/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	ES20: 5242	mr/hr
	ES20: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.3%	2.91	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	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	22, -2	N/A	N/A	N/A	125	100	5	104	-0.264	9.66	ESP's used for smears
"	14, -4	"	"	"	107	90	4	101	-0.264	3.59	& one minute counts.
Light Fixture	12, -1	"	"	"	109	90	.999	95	7.661	3.53	"
Jib Crane Rail	14, -1	"	"	"	113	100	6.99	129	-0.264	-2.49	"
Conduit	12, -2	"	"	"	167	110	3	70	7.506	3.41	"
Ceiling	2, -4	"	"	"	191	120	0	109	-0.264	-2.49	"
"	0, -2	"	"	"	122	90	0	96	-0.264	5.53	"
West Wall	0, -2	"	"	"	216	180	2	190	-0.264	-2.49	"
"	0, -4	"	"	"	228	150	.999	163	-0.264	-2.49	"
South Wall	5, -4.1	"	"	"	236	150	0	203	-0.264	3.41	"
"	4, -4.1	"	"	"	193	135	.999	177	7.506	-2.49	"
Ceiling Beam	6, -4	"	"	"	137	110	0	124	-0.264	-2.49	"
South Wall	0, -4.1	"	"	"	197	140	.999	151	-0.264	-2.49	"
"	2, -4.1	"	"	"	165	130	3	200	-0.264	3.41	"
Ceiling	8, -4	"	"	"	156	120	.999	112	-0.264	3.53	"

FORM SERIAL #: 10-080 (Survey Section - Sequential survey #)	LOCATION # 10-6-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0253	SURVEYOR SIGNATURE: TB/LS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/11/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\100601HP.XLD
 Batch Ended: 2/11/93 8:48
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 16.90
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-6-1 upper surfaces.

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
6	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/11/93 8:31
7	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/11/93 8:32
8	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/11/93 8:32
9	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/11/93 8:33
10	0.264	1.53	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/11/93 8:33
11	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	2/11/93 8:34
12	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	2/11/93 8:34
13	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	2/11/93 8:35
14	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/11/93 8:35
15	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	2/11/93 8:36
16	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/11/93 8:36
17	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/11/93 8:37
18	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/11/93 8:37
19	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/11/93 8:38
20	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/11/93 8:38
21	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	2/11/93 8:39
22	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	2/11/93 8:39
23	7.661	4.67	At AL	11.27	3.53	4.14	<MDA	15.88	1.00	2.900	1.76	2/11/93 8:41
24	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/11/93 8:41
25	7.506	7.94	At AL	28.10	3.41	7.06	<MDA	33.88	0.34	2.841	1.70	2/11/93 8:42
26	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/11/93 8:42
27	0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	1.00	0.100	2.76	2/11/93 8:43
28	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/11/93 8:44
29	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	2/11/93 8:44
30	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/11/93 8:45

LB5100W Low Background Counting System – Smear Analysis

Date: 2/11/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100601UP.XLD
 Batch Ended: 2/11/93 8:48
 Crosstalk Correction: Not Applied

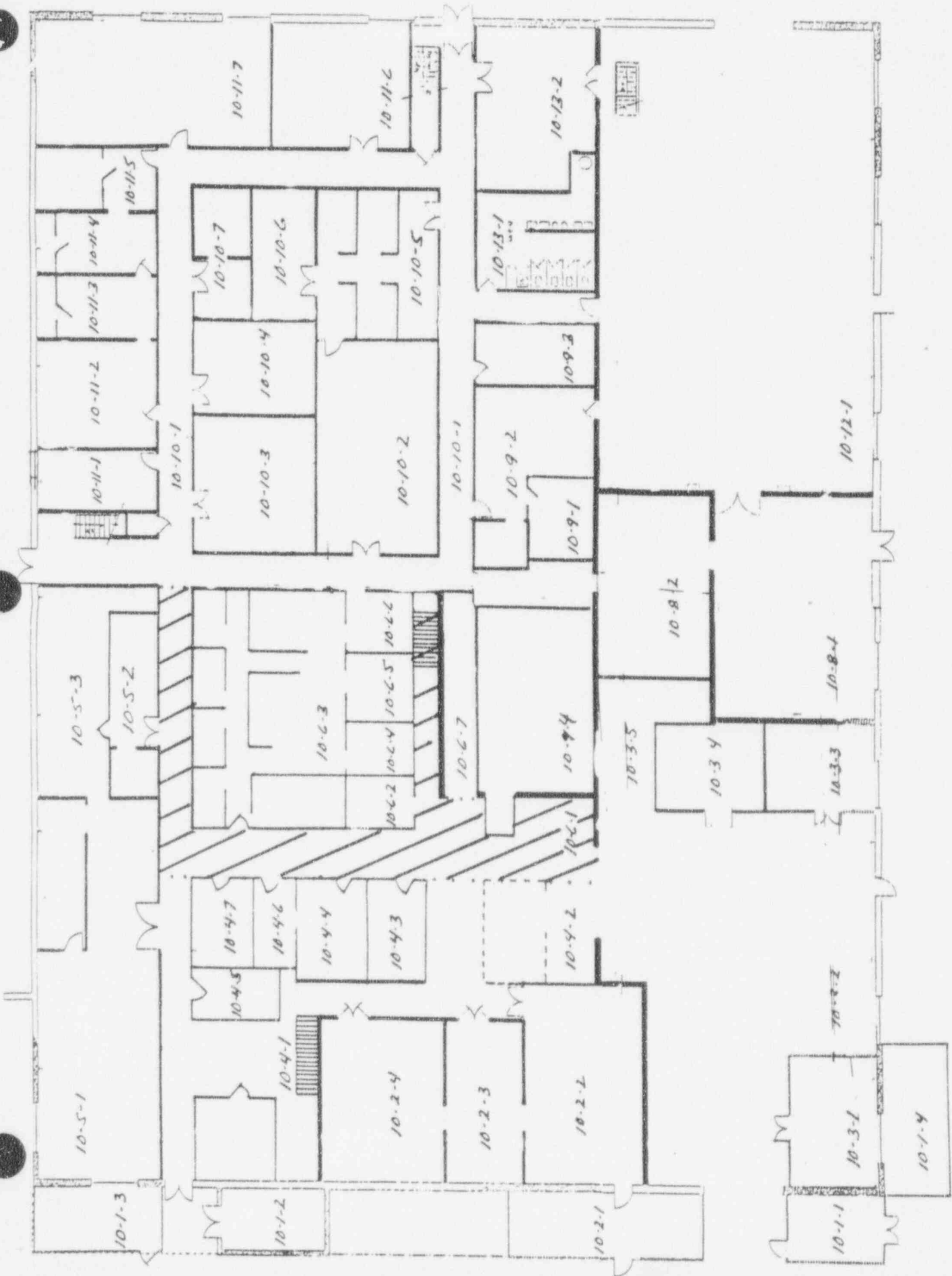
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-6-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
31	7.506	7.94	At AL	28.10	-2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	2/11/93 8:45
32	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/11/93 8:46
33	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/11/93 8:46
34	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/11/93 8:47
35	-0.264	0.93	<MDA	11.27	3.53	4.14	<MDA	15.88	1.00	-0.100	1.76	2/11/93 8:48

BUILDING #9 FIRST FLOOR



(*)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	367
	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	1272

SURVEY DATE: 1/11/93
COUNT DATE: 12/18/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	7 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.02 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	
					East wall (Block)	N/A	2, -.4	N/A	N/A	453	
"	"	4, -.4	"	"	480	420	2	392	-0.149	-2.82	& 1 min counts.
South wall	"	4, -.4	"	"	457	425	3	412	-0.149	-2.82	"
"	"	6, -.4	"	"	482	450	.999	413	-0.149	3.10	"
Floor tile & carpet	"	2, -2	8	.02	1382	1300	47	1226	-0.149	3.28	Flmon used for scans
"	"	2, -4	8	.02	1301	1250	56	1194	-0.149	-2.82	& 1 min counts
"	"	2, -6	8	.01	1270	1200	45	1175	-0.149	3.28	"
"	"	2, -8	8	.02	1386	1250	55	1338	-0.149	3.28	"
"	"	2, -10	8	.01	1361	1200	56	1232	-0.149	-2.82	"
"	"	2, -12	8	.01	1278	1225	60	1272	-0.149	-2.82	"

FORM SERIAL #: 10-047 (Survey Section - Sequential survey #)	LOCATION # 10-6-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0138	SURVEY SIGNATURE: T.S. <i>T. S. Shaffer</i>
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LB5:CC**! ow Background Counting System -- Smear Analysis

Date: 12/18/92
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\100603.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				
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:44
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:45
24	-0.149	1.37	<MDA	27.98	-3.28	7.41	<MDA	35.93	0.33	-0.055	-1.63	12/18/92 11:45
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:46
26	-0.149	1.37	<MDA	27.98	9.99	9.60	<MDA	35.93	0.33	-0.055	-4.60	12/18/92 11:46
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:47
28	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	-1.54	12/18/92 11:47
29	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.63	12/18/92 11:48
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:48
31	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.63	12/18/92 11:49
32	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.63	12/18/92 11:49
33	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/18/92 11:50
34	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:51
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:51
36	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:52
37	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/18/92 11:52
38	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	-1.63	12/18/92 11:53

Surveys Point NOT NEEDED

BUILDING #9 FIRST FLOOR



NORTH
←

APPENDIX G

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 8

(*)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	2	*	ESP2:1595	34.2%	2.92	132
	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 2/8/93
COUNT DATE: 12/23/92*

(*)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	0.055
	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	
North Wall	N/A	2, -5.4	N/A	N/A	155	140	2	122	-0.149	9.34	*Smears counted
"	"	4, -5.4	"	"	154	139	3	124	-0.149	3.28	previously
"	"	8, -5.4	"	"	158	132	.999	128	-0.149	-2.82	
East Wall	"	2, -5.4	"	"	213	192	2	127	-0.149	-2.82	
"	"	4, -5.4	"	"	154	125	0	129	-0.149	-2.82	
"	"	6, -5.4	"	"	165	130	0	132	-0.149	-2.82	
West Wall	"	2, -5.4	"	"	172	141	0	95	-0.149	-2.82	
"	"	6, -5.4	"	"	158	135	2	132	-0.149	-2.82	
South Wall	"	4, -5.4	"	"	196	150	4	136	-0.149	-2.82	
"	"	6, -5.4	"	"	184	135	2	106	-0.149	3.28	

FORM SERIAL #: 10-073 (Survey Section - Sequential survey #)	LOCATION # 10-8-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0228	SURVEYOR SIGNATURE: TS/LS <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			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	1312

SURVEY DATE: 1/8/93
 COUNT DATE: 12/23/92*

(*)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	.010 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	0.055
	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	N/A	4, -8	9	.010	1288	1250	54	1185	-0.149	3.28	*Smears counted
"	"	8, -8	8	.015	1370	1275	54	1376	-0.149	-2.82	previously
"	"	8, -6	10	.014	1308	1250	69	1189	-0.149	-2.82	
"	"	6, -6	9	.010	1300	1220	40	1318	-0.149	-2.82	
"	"	2, -4	10	.014	1326	1295	52	1321	-0.149	3.28	
"	"	4, -4	9	.012	1201	1180	49	1267	-0.149	-2.82	
"	"	6, -4	9	.017	1251/235	1200	61	1248	-0.149	3.28	
"	"	4, -2	10	.015	1300	1275	48	1202	-0.149	-2.82	
"	"	6, -10	9	.012	1288	1250	53	1307	-0.149	-2.82	

FORM SERIAL #: 10-073 (Survey Section - Sequential survey #)	LOCATION # 10-8-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0229	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100801.XLD
 Batch Ended: 12/23/92 8:21
 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: CS13/AB
 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 TOI
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	0.055	4.48	12/23/92 8:11
2	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/23/92 8:11
3	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:12
4	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:12
5	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:13
6	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:13
7	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	0.055	-1.40	12/23/92 8:14
8	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:14
9	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/23/92 8:15
10	0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	0.055	-1.40	12/23/92 8:15
11	0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	0.055	1.54	12/23/92 8:16
12	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:16
13	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/23/92 8:17
14	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/23/92 8:17
15	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:18
16	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:18
17	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:19
18	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/23/92 8:19
19	0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	0.055	-1.40	12/23/92 8:20
20	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.055	1.63	12/23/92 8:20
21	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:21
22	0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.055	-1.40	12/23/92 8:21

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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	261
	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: 2/18/93
COUNT DATE: 2/18/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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, -4	N/A	N/A	297	250	0	306	-0.264	-2.49	Concrete Block
"	"	4, -4	"	"	404	290	1	314	-0.264	-2.49	"
East Wall	"	2, -4	"	"	394	320	2	312	-0.264	-2.49	"
"	"	4, -4	"	"	347	290	1	316	-0.264	-2.49	"
"	"	6, -4	"	"	384	300	2	309	-0.264	3.59	"
"	"	8, -4	"	"	360	310	3	311	-0.264	3.41	"
"	"	10, -4	"	"	432	340	0	321	-0.264	-2.49	"
South Wall	"	2, -4	"	"	413	380	1	332	-0.264	9.66	"
"	"	4, -4	"	"	275	250	2	294	-0.264	3.59	"
"	"	6, -4	"	"	360	300	1	282	-0.264	3.41	"
West Wall	"	2, -4	"	"	499	400	1	436	-0.264	-2.49	Brick
"	"	6, -4	"	"	390	360	2	405	-0.264	3.41	

FORM SERIAL #: 10-086 (Survey Section - Sequential survey #)	LOCATION # 10-8-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0261	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UN\T1\100801UP.XLD
 Batch Ended: 2/18/93 11:18
 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: 1435

Application Revision: 2
 Application Version: Standard

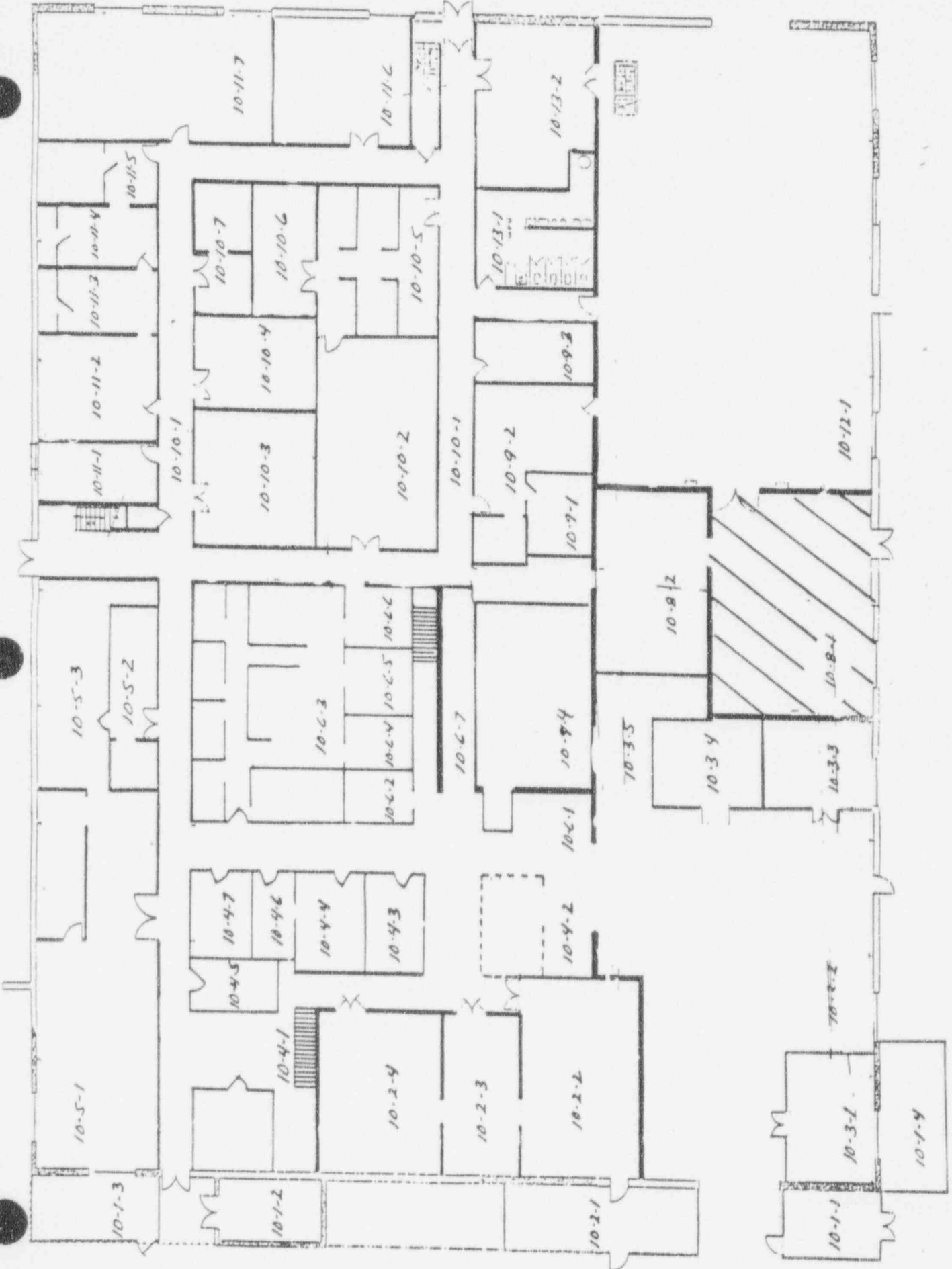
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-8-1 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	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/18/93 11:12
2	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/18/93 11:13
3	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/18/93 11:13
4	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/18/93 11:14
5	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/18/93 11:14
6	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/18/93 11:15
7	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	2/18/93 11:15
8	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/18/93 11:16
9	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/18/93 11:16
10	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/18/93 11:17
11	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	2/18/93 11:17
12	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/18/93 11:18

BUILDING #9 FIRST FLOOR



NORTH



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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.9999	*	ESP2:1595-L	31.3%	3.20	113
	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: 2/8/93
COUNT DATE: 12/23/92*

(*)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	0.055
	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	
North Wall (1)	N/A	12, -1.3	N/A	N/A	225	159	2	142	-0.149	-2.82	ESP's used for scans
"	"	10, -1.3	"	"	154	122	0	150	-0.149	-2.82	and 1 minute counts.
"	"	8, -1.3	"	"	174	150	.999	113	-0.149	-2.82	*Smears counted
North Wall (2)	"	4, -5.4	"	"	158	124	.999	111	-0.149	-2.82	previously
"	"	2, -5.4	"	"	103	90	.999	115	-0.149	9.39	"
East Wall	"	2, -5.4	"	"	186	159	2	113	-0.149	-2.82	"
"	"	4, -1.3	"	"	162	145	3	126	-0.149	-2.82	"
South Wall (1)	"	2, -1.3	"	"	175	157	.999	108	-0.149	-2.82	"
"	"	4, -1.3	"	"	186	150	3	112	-0.149	-2.82	"
South Wall (2)	"	2, -1.3	"	"	146	109	2	182	-0.149	-2.82	"
West Wall	"	2, -5.4	"	"	179	139	0	102	-0.149	3.28	"
"	"	8, -5.4	"	"	162	110	.999	117	-0.149	-2.82	"

FORM SERIAL #: 10-074 (Survey Section - Sequential survey #)	LOCATION # 10-B-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0230	SURVEYOR SIGNATURE: TS/LS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\100802.XLD
 Batch Ended: 12/23/92 8:33
 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: po210a6
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

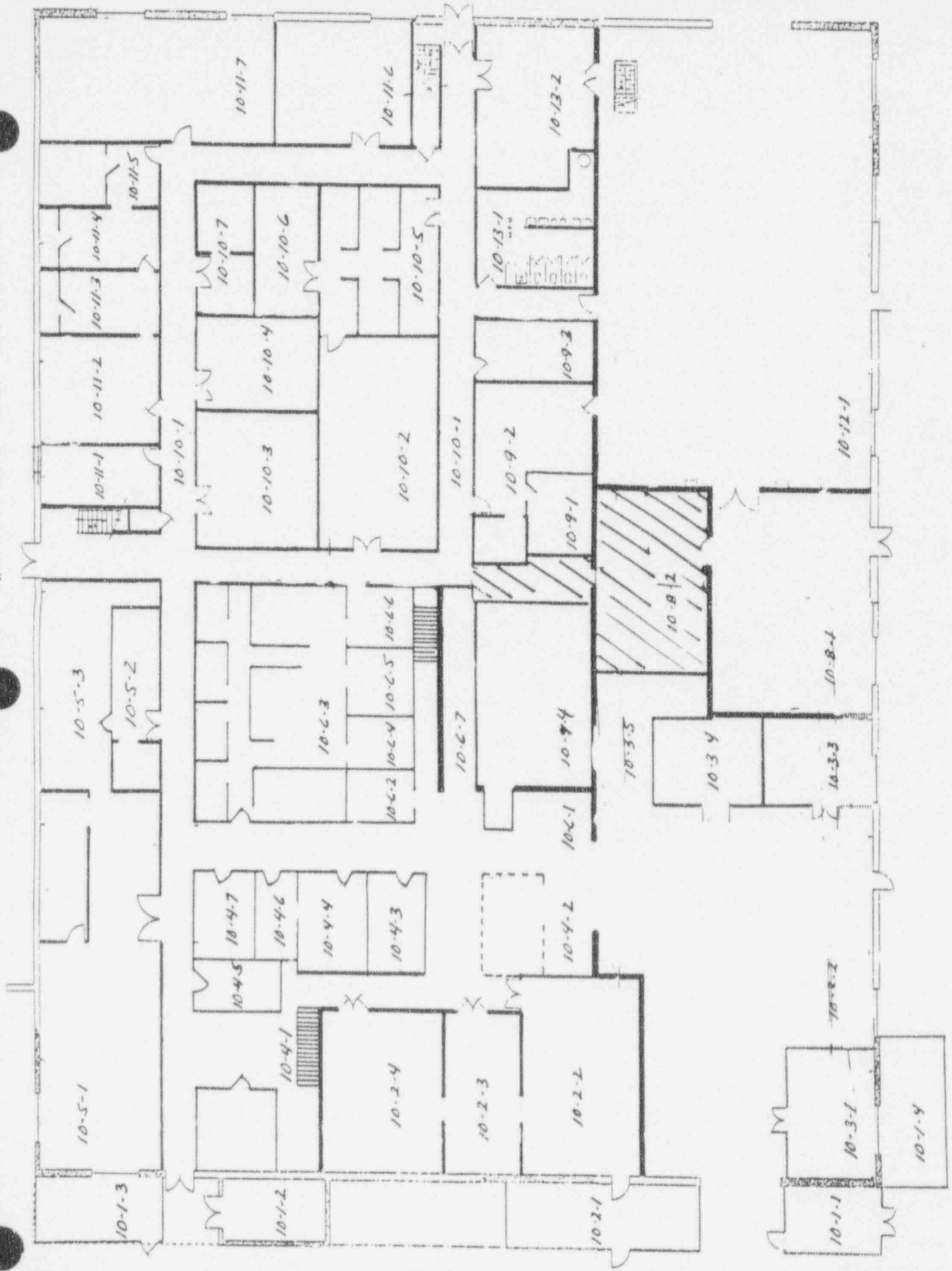
Beta efficiency log file: CS137AB
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:22
24	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 8:23
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:23
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:24
27	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/23/92 8:24
28	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 8:25
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:25
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:26
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:26
32	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:27
33	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 8:27
34	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:28
35	0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 8:28
36	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 8:29
37	0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:29
38	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/23/92 8:30
39	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:30
40	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 8:31
41	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/23/92 8:31
42	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:32
43	0.048	0.91	ALAL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.475	-1.40	12/23/92 8:32
44	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 8:33

SURVEY POINTS NOT NEEDED

BUILDING #9 FIRST FLOOR



NORTH



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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	270
	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: 2/18/93
 COUNT DATE: 2/18/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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 Beams	N/A	2, -4	N/A	N/A	274	250	0	205	-0.264	-2.49	Steel
"	"	4, -4	"	"	301	270	0	212	-0.264	3.59	"
Mezzanine	"	2, -6	"	"	300	250	0	212	-0.264	-2.49	"
"	"	4, -6	"	"	310	250	1	209	-0.264	-2.49	"
"	"	2, -8	"	"	365	220	2	261	-0.264	9.66	"
"	"	4, -8	"	"	354	300	2	238	-0.264	-2.49	"
West Wall	"	2, -2	"	"	356	280	0	305	-0.264	-2.49	Concrete Block
"	"	4, -2	"	"	348	290	2	312	-0.264	-2.49	"
"	"	6, -2	"	"	351	300	1	340	-0.264	-2.49	"
South Wall	"	2, -2	"	"	360	300	2	330	-0.264	-2.49	"
"	"	4, -2	"	"	369	270	1	302	-0.264	-2.49	"
East Wall	"	4, -2	"	"	379	300	1	259	-0.264	3.41	"
"	"	6, -2	"	"	360	300	2	266	-0.264	-2.49	"
Mezzanine Floor	"	2, -4	"	"	351	300	9	299	-0.264	-2.49	Raw Concrete
"	"	2, -6	"	"	360	300	30	326	-0.264	-2.49	"

FORM SERIAL #: 10-087 (Survey Section - Sequential survey #)	LOCATION # 10-B-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0262	SURVEYOR SIGNATURE: 
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RECOMMISSIONING 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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	279
	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: 2/18/93
COUNT DATE: 2/18/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	B, 2	N/A	N/A	332	270	1	323	-0.264	3.59	Concrete Block
Top of Ventillation	(Blower)		"	"	329	340	4	246	-0.264	-2.49	"
"	(Duct)		"	"	315	240	0	275	-0.264	3.41	"

FORM SERIAL #: 10-087 (Survey Section - Sequential survey #)	LOCATION # 10-8-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0263	SURVEYOR SIGNATURE: TS/TB 
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LB5100W Low Background Counting System – Smear Analysis

Date: 2/18/93
 Counting Unit id: 1
 Data file name: C:\LEXL\UNIT1\100802UP.XLD
 Batch Ended: 2/18/93 11:27
 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: 1435

Application Revision: 2
 Application Version: Standard

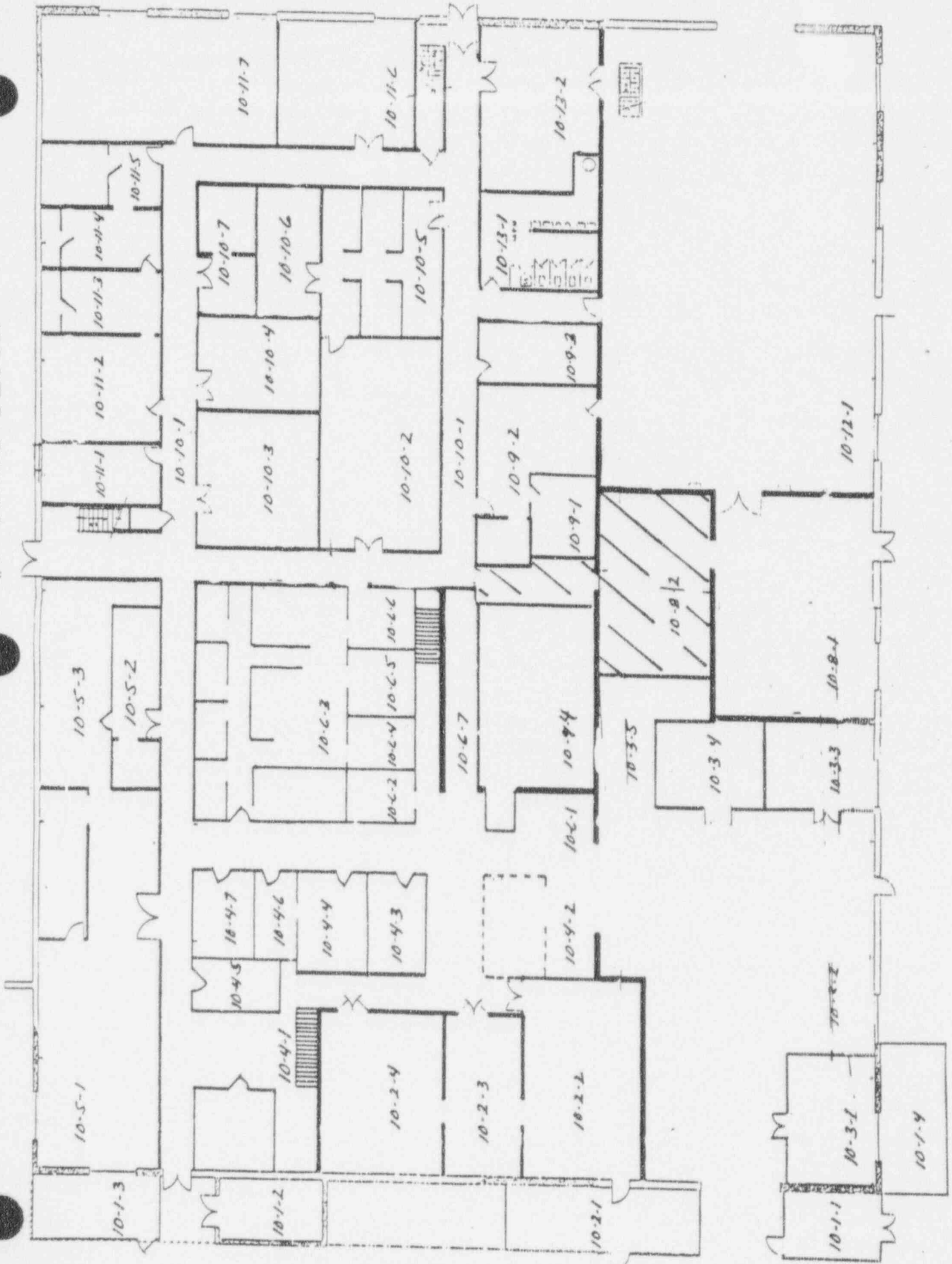
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-8-2 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:18
14	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/18/93 11:19
15	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/18/93 11:19
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/18/93 11:20
17	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/18/93 11:21
18	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:21
19	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:22
20	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:22
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/18/93 11:23
22	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:23
23	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:24
24	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/18/93 11:24
25	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/18/93 11:25
26	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:25
27	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/18/93 11:26
28	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/18/93 11:26
29	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/18/93 11:27
30	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/18/93 11:27

BUILDING #9 FIRST FLOOR



NORTH
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APPENDIX H

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 9

(*)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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	272
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/10/93
COUNT DATE: 3/10/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	1, -.5	N/A	N/A	319	275	0	305	-0.264	-2.49	Block
"	"	3, -.5	"	"	324	277	2	305	-0.264	3.41	"
North Wall	"	0, -.5	"	"	363	335	1	289	-0.264	-2.49	"
"	"	2, -.5	"	"	265	238	0	255	7.506	-2.49	"
East Wall	"	1, -.5	"	"	235	215	1	325	5.019	1.52	"
"	"	3, -.5	"	"	320	271	0	264	-0.264	-2.49	"

FORM SERIAL #: 10-093 (Survey Section - Sequential survey #)	LOCATION # 10-9-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0325	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency log file: po210lab

Alpha Efficiency: 37.8%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

Beta efficiency log file: CS13/lab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Alpha activity action level (DPM): 40.00

Beta activity action level (DPM): 200.00

Certainty level for MDA and flags: 95.00%

High Voltage Setting: 1475

Application Revision: 2

Application Version: Standard

Date: 3/10/93

Counting Unit id: 1

Data file name: C:\EXL\UNINT\11000001.XLD

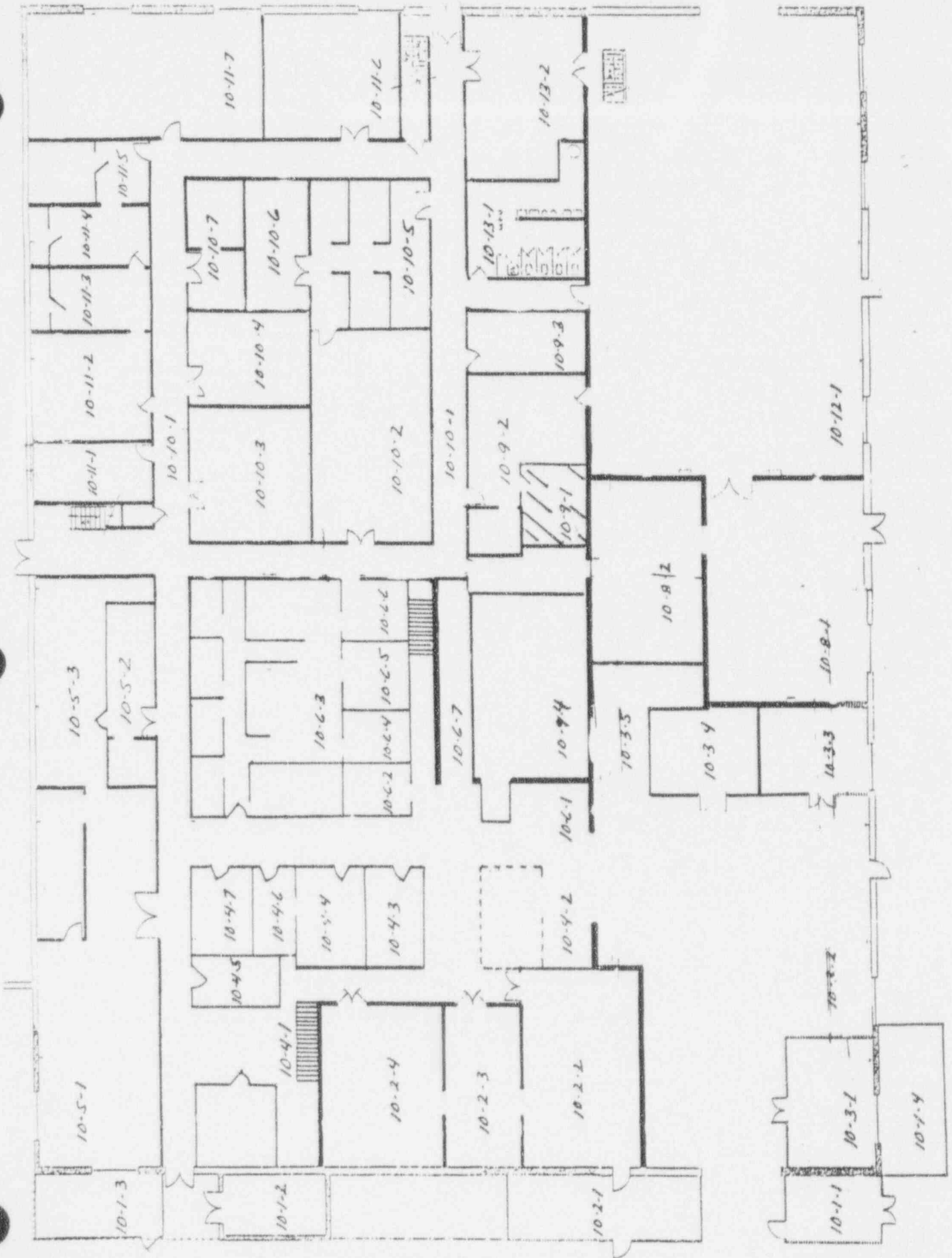
Batch Ended: 3/10/93 9:05

Crosstalk Correction: Not Applied

Batch ID: TFS 100901 UPPER SURFACES

Count	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	Flags	MDA	DPM	σ				
1	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	0.100	1.24	3/10/93 9:02
2	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	0.100	1.70	3/10/93 9:02
3	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	0.100	1.24	3/10/93 9:03
4	7.506	7.04	At AL	28.10	2.49	3.87	<MDA	2.841	1.24	3/10/93 9:03
5	5.019	3.85	At AL	11.27	1.52	3.63	<MDA	1.900	0.76	3/10/93 9:04
6	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	0.100	1.24	3/10/93 9:05

BUILDING #9 FIRST FLOOR



NORTH



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			SP2:1595	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 2/2/93
COUNT DATE: 12/23/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	B/G
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.017 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	0.055
	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	N/A	2, -.3	N/A	N/A	195	
East Wall	"	2, -.3	"	"	231	200	.999	185	-0.149	-2.82	
"	"	8, -.3	"	"	170	155	0	166	-0.149	-2.82	
South Wall	"	2, -.3	"	"	216	190	.999	188	-0.149	-2.82	
"	"	4, -.3	"	"	197	165	.999	176	-0.149	9.03	
West Wall	"	2, -.3	"	"	240	205	.999	180	-0.149	-2.82	
"	"	4, -.3	"	"	228	185	.999	203	-0.149	-2.82	
Floor	"	2, -4	11	.017	180	128	0	138	-0.149	-2.82	
"	"	2, -6	12	.021	197	160	.999	159	-0.149	-2.82	
"	"	2, -8	11	.018	206	130	3	112	-0.149	-2.82	
"	"	0, -6	11	.010	147	135	.999	146	-0.149	3.10	
"	"	0, -8	10	.009	194	138	.999	148	-0.149	3.10	
"	"	-2, -6	10	.010	212	165	0	157	-0.149	3.28	
"	"	-2, -8	11	.015	204	145	0	131	-0.149	3.10	

FORM SERIAL #: 10-071 (Survey Section - Sequential survey #)	LOCATION # 10-9-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0222	SURVEYOR SIGNATURE: MS <i>W. Sheffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100902.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

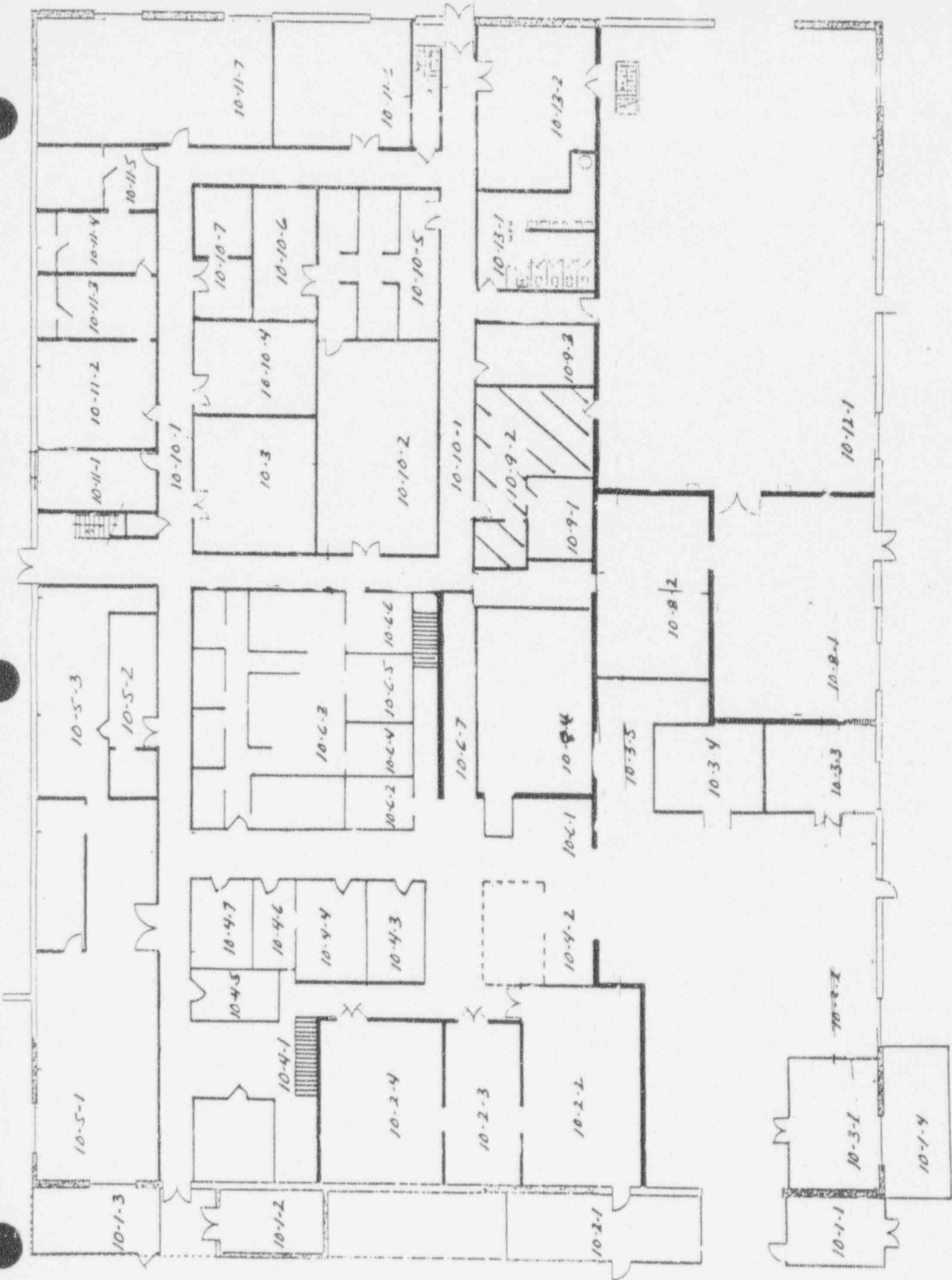
Application Revision: 2
 Application Version: Standard

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	α	flags	MDA	DPM	α	flags	MDA				
1	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 11:17
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:18
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:18
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:19
5	0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/23/92 11:19
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 11:20
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:20
8	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:21
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:21
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:22
11	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 11:23
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 11:23
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 11:24
14	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 11:24

BUILDING #9 FIRST FLOOR



NORTH
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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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	299
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/8/93
 COUNT DATE: 3/10/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

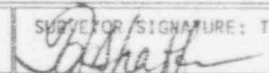
SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. uR/hr	BETA/GAMMA CONT. mr/hr	SCAN CONTACT GROSS CPM		CONTACT GROSS 1 MIN. CT.		SMEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North Wall (2)	N/A	2, +5	N/A	N/A	363	325	2	339	-0.264	3.59	Cement Block
East Wall	"	4, +5	"	"	380	300	2	295	7.506	-2.49	"
South Wall	"	6, +5	"	"	329	300	2	297	-0.264	3.59	"
"	"	4, +5	"	"	346	310	0	294	-0.264	-2.49	"
"	"	2, +5	"	"	372	300	0	312	-0.264	-2.49	"
West Wall	"	0, +5	"	"	356	325	1	363	-0.264	3.41	"
"	"	2, +5	"	"	372	310	1	326	-0.264	3.59	"
"	"	4, +5	"	"	349	300	1	313	-0.264	3.59	"
East Wall	"	8, +5	"	"	348	320	0	324	-0.264	-2.49	"
"	"	6, +5	"	"	397	350	1	367	-0.264	3.59	"
"	"	2, +5	"	"	386	325	2	344	-0.264	-2.49	"
North Wall	"	2, +5	"	"	375	300	2	343	-0.264	-2.49	"
Overhead	"	2, -2	"	"	337	250	1	281	-0.264	5.53	Steel
"	"	2, -4	"	"	363	300	2	260	-0.264	-2.49	"
"	"	2, -6	"	"	325	275	3	265	-0.264	-2.49	"

FORM SERIAL #: 10-094
 (Survey Section - Sequential survey #)

LOCATION # 10-9-2
 (Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: IV
 (Group I, II, III, IV)

DISK FILE CODE: FDS-0326

SURVEYOR SIGNATURE: TS


LP5100W Low Background Counting System -- Smear Analysis

Date: 3/10/93
 Counting Unit id: 1
 Data file name: CALBXLUNIT1\109902U.XLD
 Batch Ended: 3/10/93 9:13
 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: 14KV

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: pu210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TJS UPPER SURFACES

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOB
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
7	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/10/93 9:05
8	7.506	7.94	AL AL	28.10	-2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	3/10/93 9:06
9	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/10/93 9:06
10	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/10/93 9:07
11	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/10/93 9:07
12	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/10/93 9:08
13	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/10/93 9:08
14	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/10/93 9:09
15	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/10/93 9:09
16	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/10/93 9:10
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/10/93 9:10
18	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/10/93 9:11
19	-0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	1.00	-0.100	2.76	3/10/93 9:12
20	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/10/93 9:13
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/10/93 9:13

BUILDING #9 FIRST FLOOR



NORTH



(*)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			SP2:1595	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 2/2/93
COUNT DATE: 12/23/92

(*)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	.017 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	0.055
	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	N/A	2, -2	11	.010	156	130	4	168	-0.149	-2.82	
North Wall	"	4, -.3	N/A	N/A	210	168	4	170	-0.149	-2.82	
"	"	6, -.3	"	"	262	215	0	192	-0.149	-2.82	

FORM SERIAL #: 10-072 (Survey Section - Sequential survey #)	LOCATION # 10-9-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0223	SURVEYOR SIGNATURE: MS <i>Michael Steffen</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100903.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

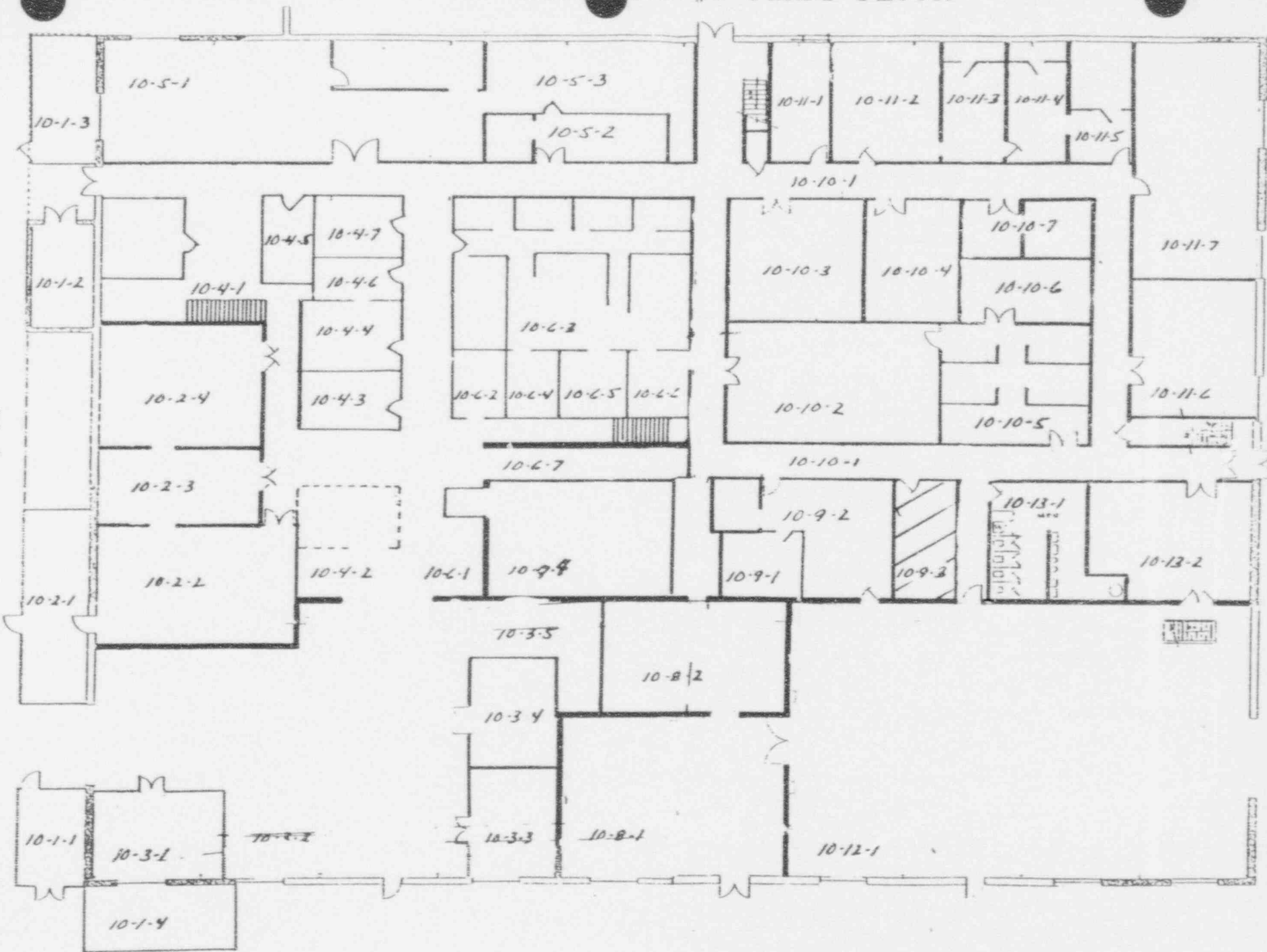
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:25
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:25
17	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:26

BUILDING #9 FIRST FLOOR

NORTH



(*)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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	289
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/4/93

(*)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/M	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/M	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	1, 1	N/A	N/A	360	280	1	280	-0.264	3.41	
"	"	1, -2	"	"	302	260	1	271	-0.264	5.53	
"	"	2, -1	"	"	313	260	1	233	-0.264	-2.49	
"	"	2, -2	"	"	375	280	2	283	-0.264	-2.49	
"	"	3, -1	"	"	265	220	3	246	-0.264	3.59	
"	"	3, -2	"	"	362	240	2	292	-0.264	-2.49	
South Wall	"	4, 0	"	"	441	300	4	344	-0.264	3.41	
"	"	5, 0	"	"	329	270	6	371	-0.264	-2.49	
"	"	6, 0	"	"	408	320	2	376	-0.264	-2.49	

FORM SERIAL #: 10-089 (Survey Section - Sequential survey #)	LOCATION # 10-9-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0311	SURVEYOR SIGNATURE: MS/TB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/4/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100903UP.XLD
 Batch Ended: 3/4/93 16:08
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10 9 3 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	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/4/93 16:03
2	-0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	1.00	-0.100	2.76	3/4/93 16:04
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 16:05
4	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 16:05
5	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/4/93 16:06
6	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 16:06
7	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/4/93 16:07
8	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/4/93 16:07
9	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/4/93 16:08

BUILDING #9 FIRST FLOOR



NORTH
↓

DECOMMISSIONING FUEL 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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	179
	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: 2/2/93
 COUNT DATE: 12/23/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM: 234	11 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	0.055
	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: 184B	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	2, -2	N/A	10	.008	184	130	.999	125	-0.149	-2.82	ESP's used for scans
"	2, -4	"	11	.018	230	144	0	103	-0.149	3.28	& one minute counts.
"	4, -4	"	10	.009	188	165	.999	112	-0.149	-2.82	"
"	2, -6	"	11	.010	241	135	.999	122	-0.149	3.10	"
"	2, -8	"	10	.009	240	130	.999	121	-0.149	3.28	"
"	4, -8	"	10	.011	243	155	0	103	-0.149	9.37	"
South Wall	2, -4	"	N/A	N/A	210	195	3	204	-0.149	-2.82	"
"	4, -4	"	"	"	181	170	6	172	-0.149	3.28	"
"	6, -4	"	"	"	188	165	0	177	-0.149	-2.82	"
West Wall	2, -4	"	"	"	203	170	.999	168	-0.149	-2.82	"
"	4, -4	"	"	"	259	212	2	192	-0.149	-2.82	"
"	6, -4	"	"	"	236	205	2	191	-0.149	-2.82	"
"	8, -4	"	"	"	211	195	0	206	-0.149	-2.82	"
East Wall	2, -4	"	"	"	267	225	2	194	-0.149	-2.82	"
"	6, -4	"	"	"	203	180	2	179	-0.149	3.10	"

FORM SERIAL #: 10-079 LOCATION # 10-9-4 SURVEY CLASSIFICATION: IV DISK FILE CODE: FDS-0238
 (Survey Section - Sequential survey #) (Survey Section - Unit # - Sub Unit #) (Group I, II, III, IV)

SURVEYOR SIGNATURE: *M. Shafer*

DECOMMISSIONING FIELD DATA SHEET

(*)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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	179
	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: 2/2/93
COUNT DATE: 12/23/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/W	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	11 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.015 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	0.055
	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	N/A	8, -4	N/A	N/A	274	215	0	204	0.149	-2.82	ESP's used for scans.

FORM SERIAL #: 10-079 (Survey Section - Sequential survey #)	LOCATION # 10-9-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0239	SURVEY SIGNATURE: MS <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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	179
	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: 2/9/93
COUNT DATE: 2/9/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	DKG
	9/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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	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	
Subfloor below	N/A	4, -4	9	.009	148	110	2	124	-0.264	-2.49	ESP's used for scans
Computer floor.	"	2, -4	10	.017	116	90	.999	126	-0.264	3.41	± 1 minute counts.
"	"	2, -6	9	.013	134	105	4	122	-0.264	3.59	"
"	"	2, -8	10	.015	137	120	2	126	-0.264	3.41	"
"	"	4, -8	11	.012	149	100	2	106	-0.264	3.41	"
"	"	4, -2	11	.009	148	120	.999	146	-0.264	-2.39	

FORM SERIAL #: 10-079 (Survey Section - Sequential survey #)	LOCATION # 10-9-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0240	SURVEYOR SIGNATURE: TS/IB <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100702.XLD
 Batch Ended: #####
 Crosstalk Correction: Not Applied

10-9-4

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				
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:04
15	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:05
16	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:05
17	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 13:06
18	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:06
19	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/23/92 13:07
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:07
21	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:08
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:08
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:09
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.49	12/23/92 13:09
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:10
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:10
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:11
28	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 13:11
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:12
30	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:12
31	-0.149	1.35	<MDA	27.24	-2.82	4.19	<MDA	35.16	0.34	-0.055	1.40	12/23/92 13:13
32	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/23/92 13:13

SURVEY POINTS NOT NEEDED.

LB5100W Low Background Counting System -- Smear Analysis

Date: 2/9/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\100904FL.XLD
 Batch Ended: 2/9/93 13:44
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 20.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1435

Application Revision: 2
 Application Version: Standard

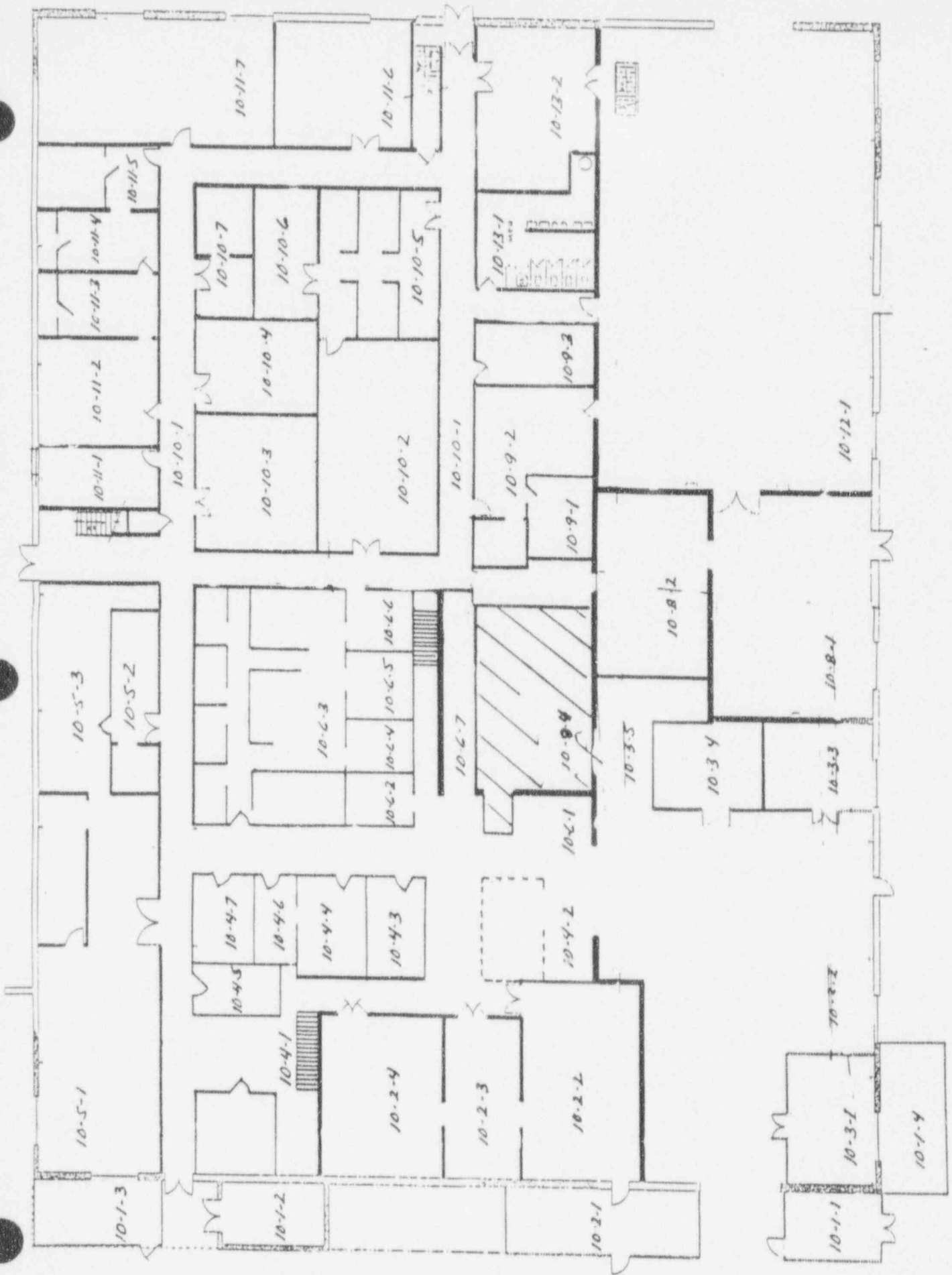
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-9-4 subfloor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/9/93 13:41
2	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	2/9/93 13:42
3	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/9/93 13:42
4	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/9/93 13:43
5	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/9/93 13:43
6	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/9/93 13:44

BUILDING #9 FIRST FLOOR



NORTH
←

APPENDIX I

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 10

(*)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	.99	*	ESP2:1595-L	31.3%	3.20	219
	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	54	*	FLMON:91943	30.3%	3.3	1296

SURVEY DATE: 1/26/93
COUNT DATE: 12/21/92

(*)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	
Floor	N/A	4, -22	12	.008	1437	1400	68	1377	8.048	3.28	Floor Monitor used
"	"	10, -22	12	.015	1405	1400	55	1357	-0.149	3.28	for scans & 1 minute
"	"	16, -20	13	.008	1302	1275	32	1341	-0.149	-2.82	counts
"	"	16, -12	12	.016	1357	1275	45	1278	-0.149	-2.82	"
"	"	16, -4	10	.017	1365	1300	60	1252	-0.149	3.28	"
West Wall	"	22, -1.3	N/A	N/A	299	240	0	227	-0.149	-2.82	ESP's used for scans
"	"	10, -1.3	"	"	269	200	4	202	-0.149	-2.82	& 1 minute counts
North Wall	"	4, -1.3	"	"	240	175	.99	192	7.807	9.03	"
"	"	10, -1.3	"	"	173	125	.999	169	8.048	9.39	"
"	"	14, -1.3	"	"	240	170	2	204	-0.149	3.10	"
"	"	20, -1.3	"	"	241	180	.999	207	-0.149	3.28	"

FORM SERIAL #: 10-068 (Survey Section - Sequential survey #)	LOCATION # 10-10-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0217	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/21/92
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\101001.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	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	12/21/92 14:37
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/21/92 14:38
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:38
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:39
5	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/21/92 14:39
6	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:40
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:40
8	7.807	8.07	At AL	27.24	9.03	9.34	<MDA	35.16	0.34	2.886	4.48	12/21/92 14:41
9	8.048	8.31	At AL	27.98	9.39	9.60	<MDA	35.93	0.33	2.975	4.66	12/21/92 14:41
10	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/21/92 14:42
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/21/92 14:42
12	8.048	8.31	At AL	27.98	3.28	7.41	<MDA	35.93	0.33	2.975	1.63	12/21/92 14:42
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/21/92 14:43
14	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/21/92 14:44
15	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:44
16	-0.149	1.37	<MDA	27.98	21.60	12.91	<AL	35.93	0.33	-0.055	10.72	12/21/92 14:45
17	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:45
18	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/21/92 14:46
19	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:46
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:47
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:47
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:48
23	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/21/92 14:48
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:49
25	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:49

SURVEY DATA POINTS NOT NEEDED

LB5100W Low Background Counting System -- Smear Analysis

Date: 12/21/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101001.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				
26	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:50
27	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:50
28	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:51
29	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:51
30	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/21/92 14:52

SURVEY DATA POINTS NOT NEEDED

BUILDING #9 FIRST FLOOR

NORTH
←



(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	278
	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	33.2%	3.0	
	FLMON:91943	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/8/93
COUNT DATE: 3/8/93

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

(*)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

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 (SH)	N/A	2, -.8	N/A	N/A	494	375	0	343	-0.264	3.59	South Hall Block
"	"	4, -.8	"	"	413	300	0	349	-0.264	-2.49	"
"	"	6, -.8	"	"	488	400	0	374	-0.264	-2.49	"
"	"	8, -.8	"	"	432	380	2	329	-0.264	-2.49	"
"	"	10, -.8	"	"	473	400	2	311	-0.264	3.41	"
"	"	12, -.8	"	"	463	400	1	318	-0.264	3.59	"
Overhead (EH)	"	16, -18	"	"	360	250	0	201	-0.264	-2.49	East Hall
"	"	16, -16	"	"	386	300	0	270	-0.264	-2.49	"
"	"	16, -12	"	"	293	200	1	193	-0.264	-2.49	"
"	"	16, -8	"	"	294	210	3	255	-0.264	-2.49	"
"	"	16, -6	"	"	287	200	1	177	-0.264	3.41	"
South Wall (NH)	"	2, -.5	"	"	298	260	0	296	-0.264	-2.49	North Hall
North Wall (NH)	"	22, -.5	"	"	365	300	4	311	-0.264	-2.49	"
"	"	20, -.5	"	"	332	280	4	325	-0.264	-2.49	"
"	"	18, -.5	"	"	244	200	1	278	-0.264	-2.49	"

FORM SERIAL #: 10-090 (Survey Section - Sequential survey #)	LOCATION # 10-10-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0312	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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	289
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/4/93
COUNT DATE: 3/8/93

(*)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	37.8%	2.54	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	1, -2	N/A	N/A	348	320	1	264	-0.264	3.59	
"	"	1, -4	"	"	360	280	1	277	-0.264	9.66	
"	"	1, -6	"	"	283	220	1	244	-0.264	-2.49	
"	"	1, -8	"	"	359	270	1	306	7.506	-2.49	
"	"	1, -10	"	"	281	240	1	271	-0.264	-2.49	
"	"	1, -12	"	"	307	270	0	243	-0.264	3.41	
"	"	1, -14	"	"	360	280	0	272	-0.264	-2.49	

FORM SERIAL #: 10-090 (Survey Section - Sequential survey #)	LOCATION # 10-10-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0313	SURVEYOR SIGNATURE: MS/TB <i>M. J. [Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/8/93
 Counting Unit id: 1
 Data file name: C:\LEX\UNIT1\101001UP.XLD
 Batch Ended: 3/8/93 15:02
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-10-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/8/93 14:52
11	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/8/93 14:52
12	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 14:53
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 14:53
14	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/8/93 14:54
15	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/8/93 14:54
16	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 14:55
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 14:55
18	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/8/93 14:56
19	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 14:56
20	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/8/93 14:57
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/8/93 14:57
22	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/8/93 14:58
23	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/8/93 14:58
24	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 14:59
25	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/8/93 14:59
26	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/8/93 15:00
27	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 15:00
28	7.506	7.94	At AL	28.10	-2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	3/8/93 15:01
29	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 15:01
30	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/8/93 15:02

LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210.ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137.ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Alpha activity action level (DFM): 10.00
 Beta activity action level (DFM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 14.35

Application Revision: 2
 Application Version: Standard

Date: 3/8/93
 Counting Unit id: 1
 Data file name: C:\BXL\BIN\1\101007UP.XLD
 Batch Ended: 3/8/93 14:48
 Crosstalk Correction: Not Applied

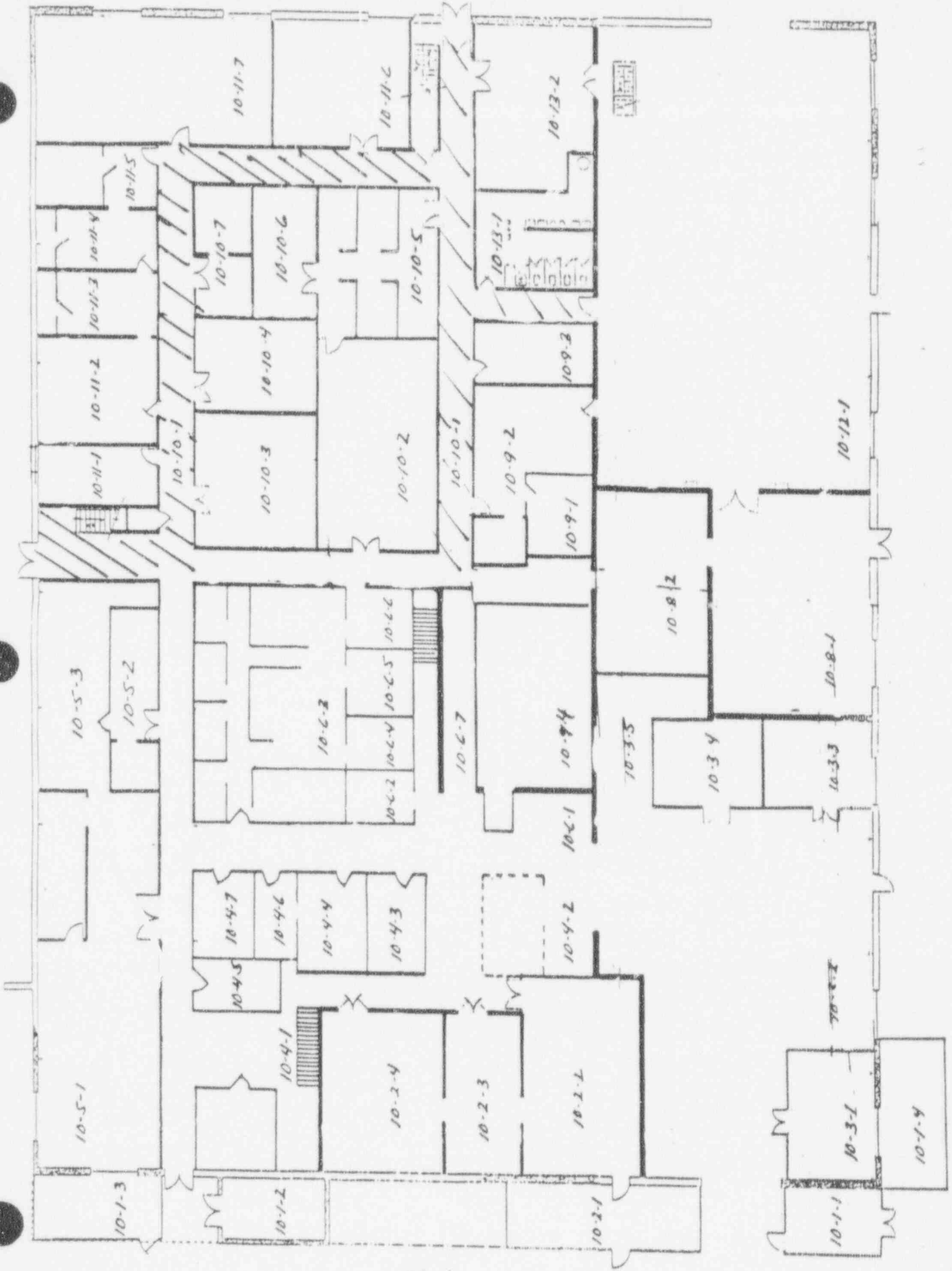
Batch ID: TSB - 10-10-7 upper surfaces

Carrier	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion TOD	
	DFM	σ	flags	MDA	DFM	σ					flags
1	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	-0.100	-1.24	3/8/93 14:46
2	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	-0.100	-1.24	3/8/93 14:47
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	-0.100	-1.24	3/8/93 14:47
4	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	-0.100	-1.24	3/8/93 14:48

→

THESE RESULTS ARE FOR 10-10-1 COORD. 1,-19

BUILDING #9 FIRST FLOOR



NORTH



(*)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	57	*	FLMON:91943	30.3%	3.3	1270

SURVEY DATE: 1/28/93
COUNT DATE: 12/23/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
	E520: 5242	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	
					Floor	N/A	4, -2	12	.015	1331	
"	"	4, -4	12	.012	1284	1275	60	1283	-0.149	3.28	scans & one minute
"	"	4, -6	11	.035	1292	1250	44	1287	-0.149	-2.82	counts
"	"	2, -6	12	.015	1238	1200	55	1237	-0.149	-2.82	
"	"	2, -8	12	.005	1286	1250	43	1183	-0.149	-2.82	
"	"	2, -10	12	.010	1201	1140	47	1299	-0.149	-2.82	

FORM SERIAL #: 10-069 (Survey Section - Sequential survey #)	LOCATION # 10-10-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: 3 (Group I, II, III, IV)	DISK FILE CODE: FDS-0218	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101002.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

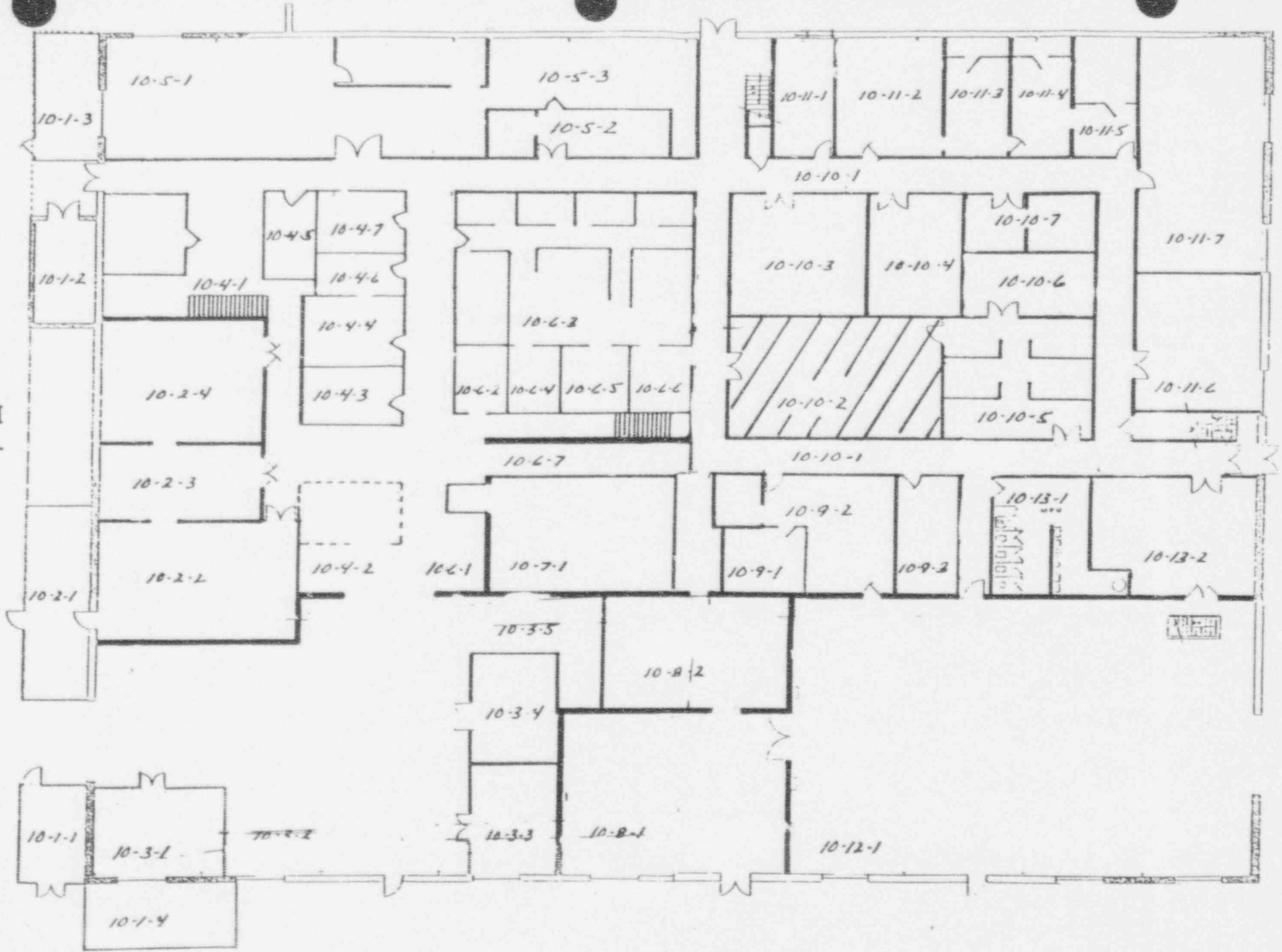
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
18	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:26
19	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 11:27
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:27
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:28
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:28
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:29

BUILDING #9 FIRST FLOOR

NORTH



(*)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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	226
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/8/93
COUNT DATE: 3/8/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -.2	N/A	N/A	396	300	3	300	-0.264	3.59	
"	"	4, -.2	"	"	369	275	2	312	-0.264	-2.49	
South Wall	"	2, -.2	"	"	380	300	2	342	2.378	3.53	
"	"	4, -.2	"	"	402	320	1	314	-0.264	3.41	
"	"	6, -.2	"	"	379	280	1	325	-0.264	3.59	

FORM SERIAL #: 10-091 (Survey Section - Sequential survey #)	LOCATION # 10-10-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0314	SURVEYOR SIGNATURE: [Signature]
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LB5100W Low Background Counting System -- Smear Analysis

Date: 3/8/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101002UP.XLD
 Batch Ended: 3/8/93 14:51
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

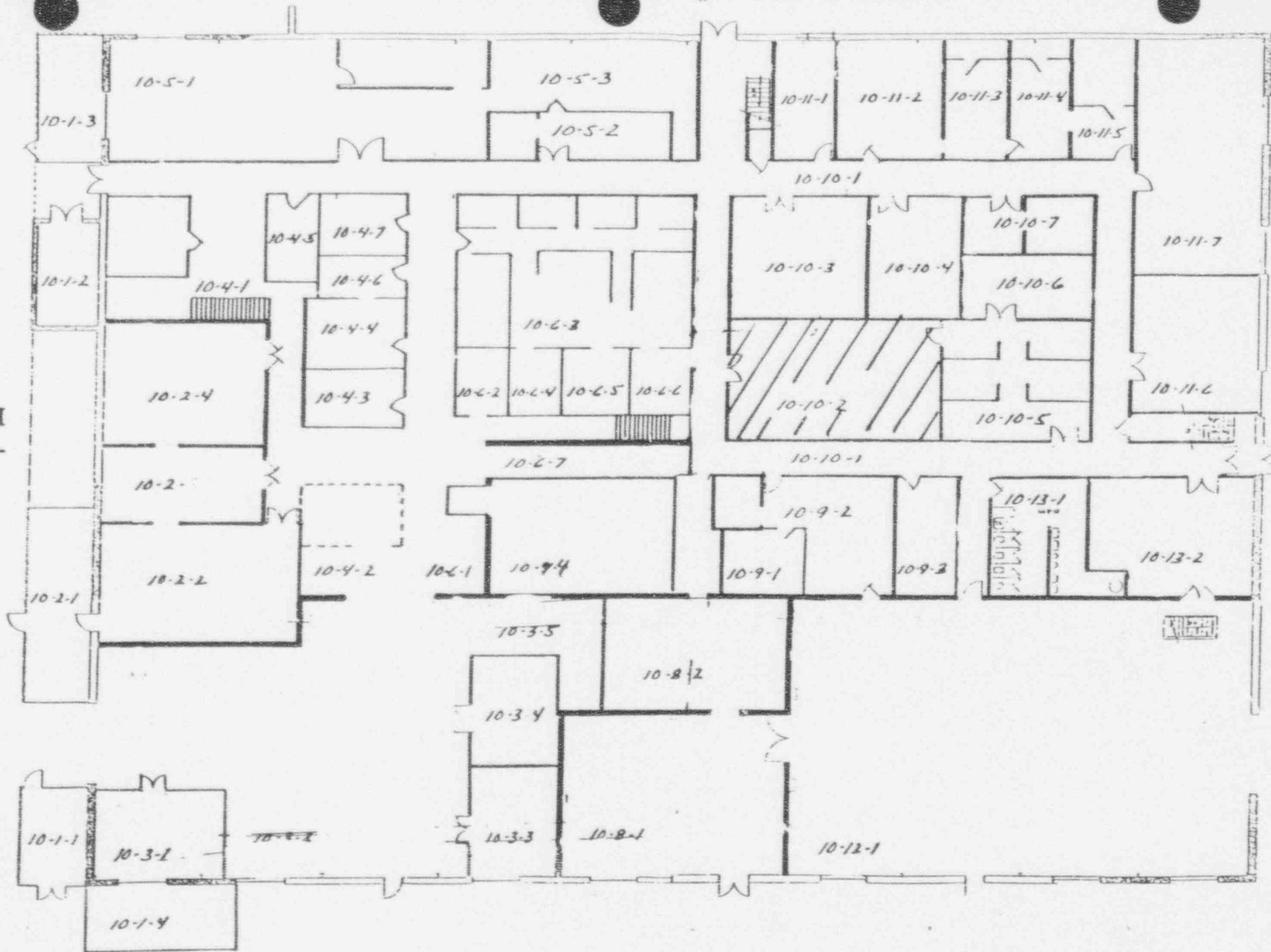
Beta efficiency log file: cs137.ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-10-2 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
5	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/8/93 14:48
6	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/8/93 14:49
7	2.378	2.80	<AL	11.27	3.53	4.14	<MDA	15.88	1.00	0.900	1.76	3/8/93 14:50
8	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/8/93 14:51
9	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/8/93 14:51

BUILDING #9 FIRST FLOOR

NORTH
←



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			SP2:1595	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	52	*	FLMON:91943	30.3%	3.3	1211

SURVEY DATE: 2/9/93
COUNT DATE: 12/23/93

(*)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	0.055
	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	N/A	2, -2	10	.014	1226	1175	64	1172	-0.149	-2.82	Floor monitor used for
"	"	2, -4	10	.013	1326	1275	57	1254	-0.149	9.03	scans & one minute
"	"	2, -6	10	.013	1289	1250	49	1208	-0.149	-2.82	counts

FORM SERIAL #: 10-076 (Survey Section - Sequential survey #)	LOCATION # 10-10-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0235	SURVEYOR SIGNATURE: TS <i>G. Shaffer</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\101003.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): 0.055263156

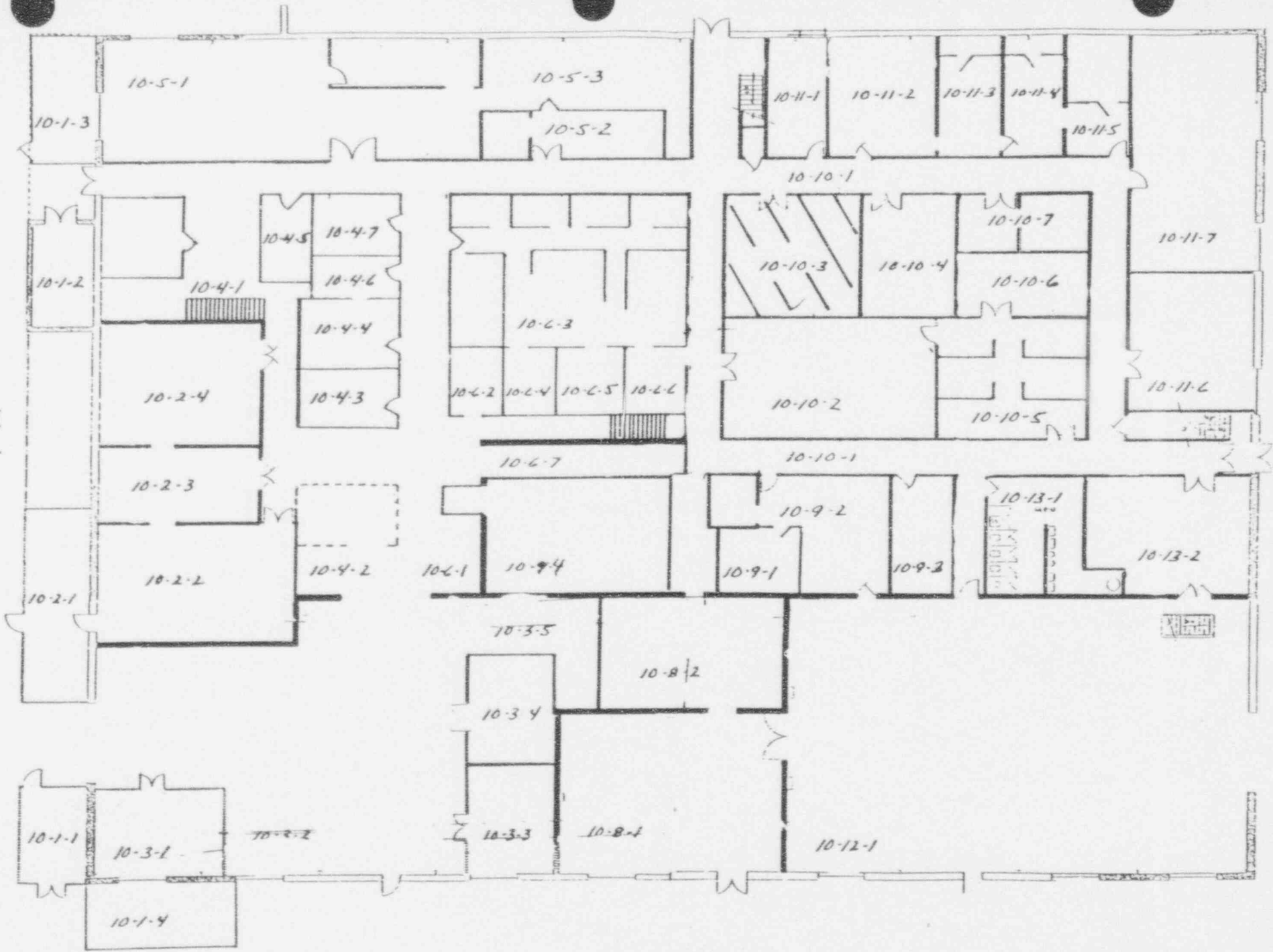
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

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				
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 11:29
25	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/23/92 11:30
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 11:30

BUILDING #9 FIRST FLOOR

NORTH
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DECOMMISSIONING FIELD DATA SHEET

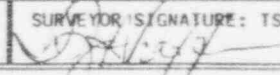
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2	*	ESP2:1595-L	31.3%	3.20	214
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	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	1236

SURVEY DATE: 1/28/93
 COUNT DATE: 12/23/92

(*)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	
(*)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	
West Wall	N/A	2, -1.3	N/A	N/A	223	175	0	176	-0.149	3.28	ESP's used for scans & one minute counts
"	"	4, -1.3	"	"	272	240	2	192	-0.149	-2.82	
North Wall	"	2, -1.3	"	"	480	260	2	174	-0.149	3.28	"
"	"	6, -1.3	"	"	290	250	3	183	-0.149	-2.82	"
Floor	"	2, -2	11	.011	1271	1230	56	1257	-0.149	-2.82	Floor Monitor used for scans & 1 min. counts

FORM SERIAL #: 10-070 (Survey Section - Sequential survey #)	LOCATION # 10-10-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0219	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\101004.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

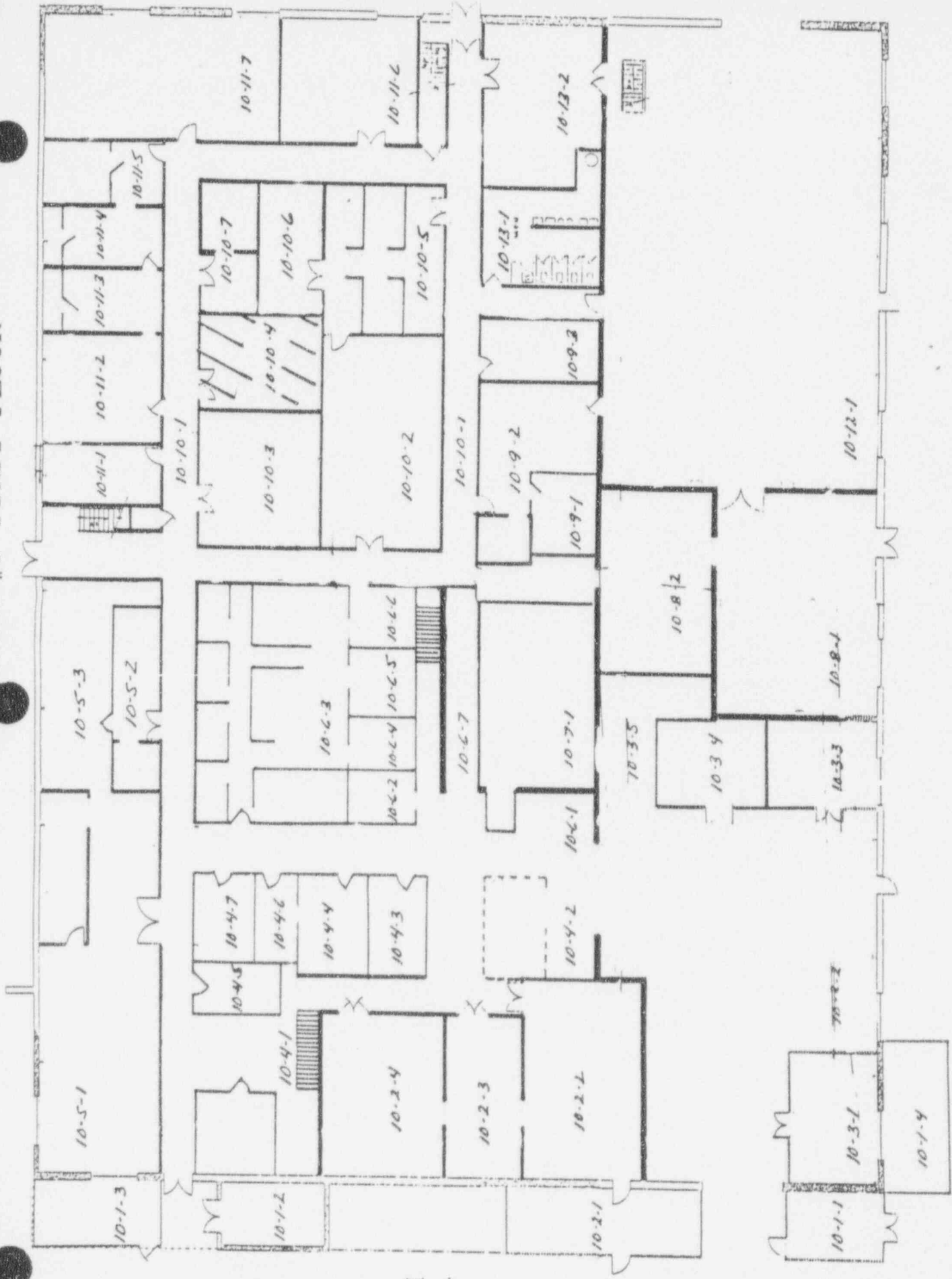
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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				
27	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 11:31
28	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:31
29	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 11:32
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:32
31	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:33

BUILDING #9 FIRST FLOOR



NORTH
←

(*)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			SP2:1595	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	52	*	FLMON:91943	30.3%	3.3	1254

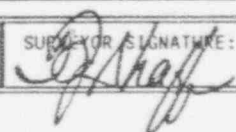
SURVEY DATE: 2/9/93
 COUNT DATE: 12/23/92

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
*	E520: 5242	10 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	0.055
	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	N/A	2, -2	8	.011	1380	1340	65	1276	-0.149	-2.82	Floor Monitor used.
"	"	2, -4	10	.011	1360	1325	69	1280	-0.149	3.28	for scans & 1 minute counts.

FORM SERIAL #: 10-078 LOCATION # 10-10-6 SURVEY CLASSIFICATION: III DISK FILE CODE: FDS-0237 SUPERVISOR SIGNATURE: TS
 (Survey Section - Sequential survey #) (Survey Section - Unit # - Sub Unit #) (Group I, II, III, IV)



LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\101006.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

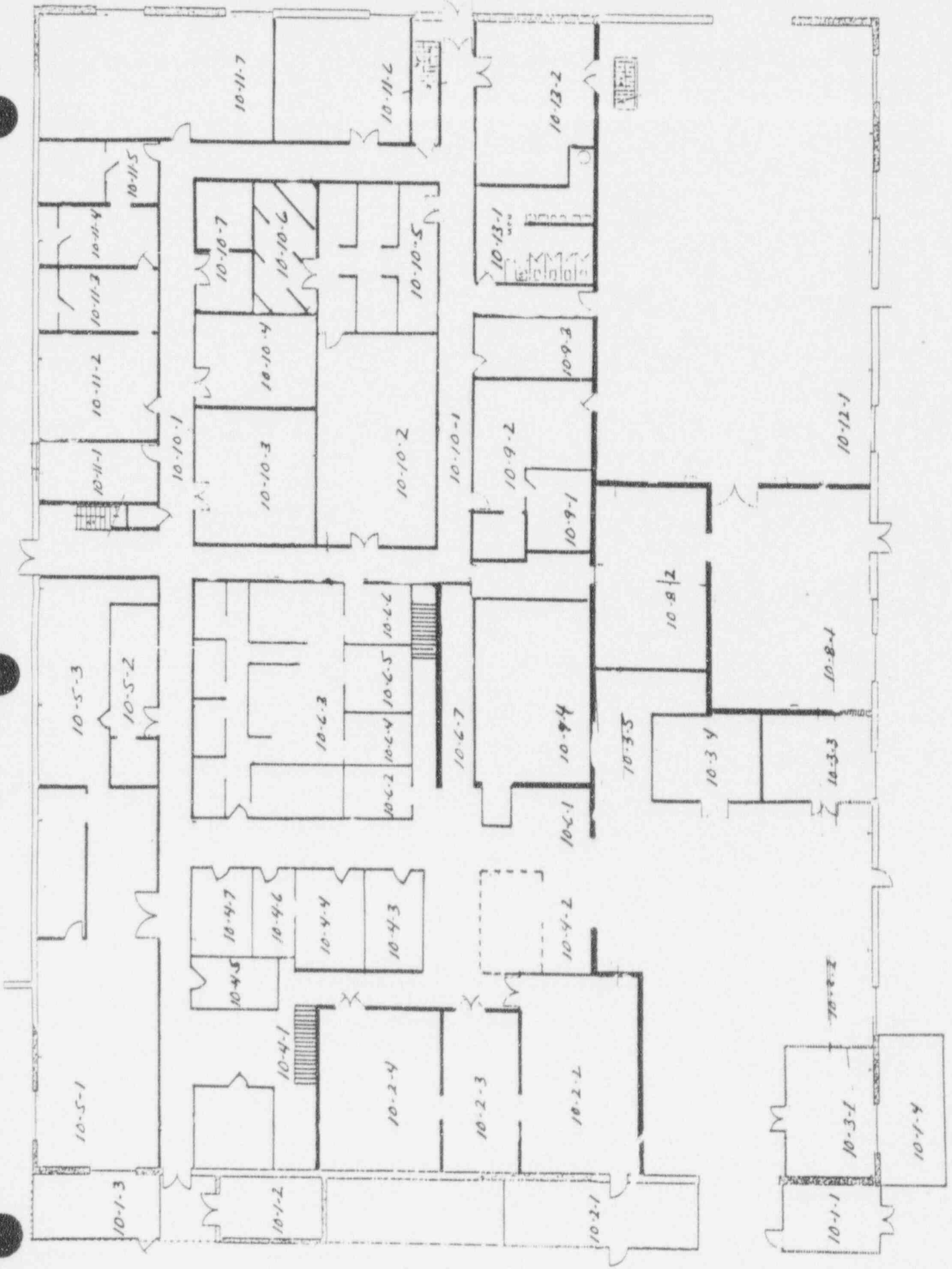
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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				
32	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:33
33	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 11:34

BUILDING #9 FIRST FLOOR



NORTH



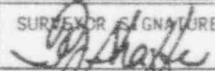
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	214
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	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	52	*	FLMON:91943	30.3%	3.3	1252

SURVEY DATE: 1/28 & 2/9/93
COUNT DATE: 12/23/92

(*)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	.01 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	36.9%	2.7	0.055
	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	
Floor	N/A	2, -2	11	.015	1360	1290	71	1393	-0.149	-2.82	Floor monitor used
West Wall	"	2, -.4	N/A	N/A	265	225	.999	215	-0.149	-2.82	ESP's used for scans
North Wall	"	2, -.4	"	"	226	170	4	180	-0.149	3.28	& 1 minute counts
South Wall	"	2, -.4	"	"	283	250	2	211	-0.149	-2.82	"

FORM SERIAL #: 10-077 (Survey Section - Sequential survey #)	LOCATION # 10-10-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS 0236	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\LEX\UNIT1\101007.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

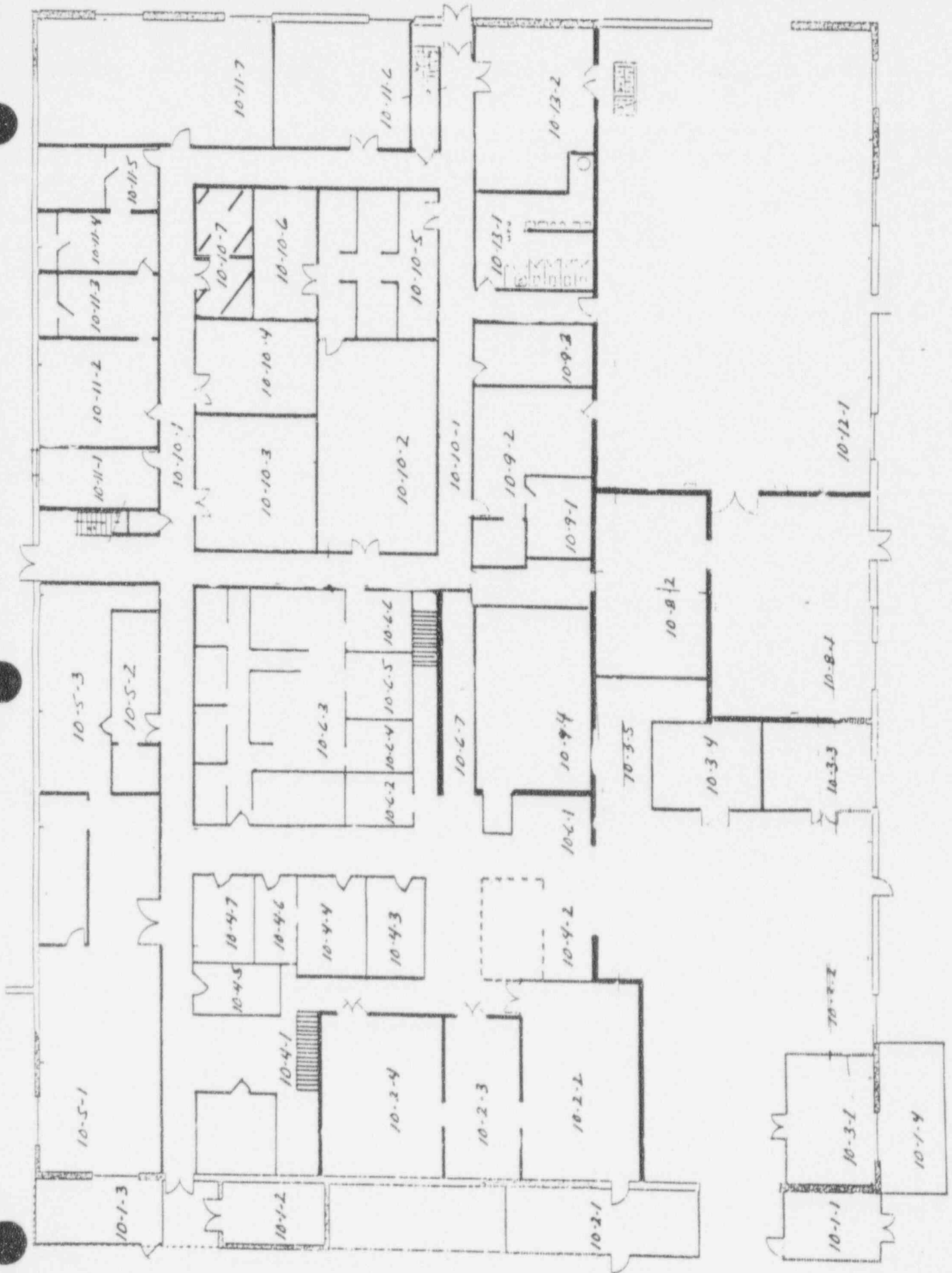
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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				
34	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 11:34
35	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:35
36	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	0.955	1.63	12/23/92 11:35
37	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 11:36

BUILDING #9 FIRST FLOOR



NORTH



(*)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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	314
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/8/93
COUNT DATE: 3/8/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
North Wall	N/A	2, +.5	N/A	N/A	367	300	1	295	-0.264	-2.49	Block
West Wall	"	2, +.5	"	"	361	300	1	308	-0.264	-2.49	"
South Wall	"	2, +.5	"	"	247	210	1	294	-0.264	-2.49	"

FORM SERIAL #: 10-092 (Survey Section - Sequential survey #)	LOCATION # 10-10-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0315	SURVEYOR SIGNATURE: TS/MS <i>[Signature]</i>
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LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Alpha activity action level (DFM): 10.00
 Beta activity action level (DFM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 14.35

Date: 3/8/93
 Counting Unit id: 1
 Data file name: C:\BXL\MINT\1101007\UP.XLD
 Batch Ended: 3/8/93 14:48
 Crosstalk Correction: Not Applied

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

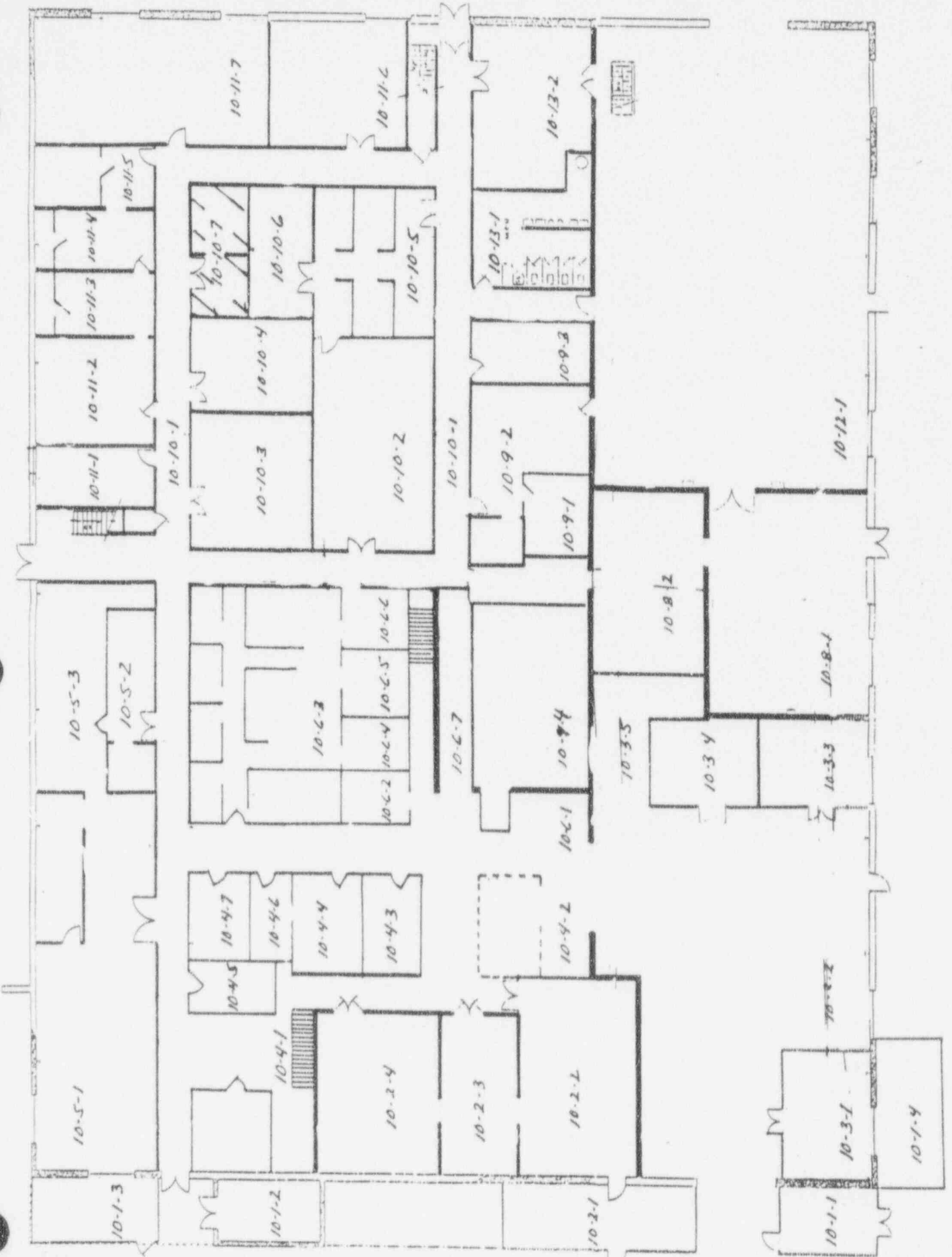
Application Revision: 2
 Application Version: Standard

Batch ID: TSB - 10-10-7 upper surfaces

Carrier	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion IOD
	DFM	σ	flags	MDA	DFM	σ				
1	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	-1.24	3/8/93 14:46
2	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	-1.24	3/8/93 14:47
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	-1.24	3/8/93 14:47
4	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	-1.24	3/8/93 14:48

→ THESE RESULTS ARE FOR 10-10-1 COORD. 1,-14

BUILDING #9 FIRST FLOOR



NORTH



APPENDIX J

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 11

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	51	*	FLMON:91943	30.3%	3.3	1251

SURVEY DATE: 1/ 27/93
COUNT DATE: 1/27/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	.01 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.013 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	N/A	2, -2	8	.013	1258	1200	48	1184	-0.149	9.03	Floor Monitor
"	11	4, -2	9	.009	1268	1240	43	1259	-0.149	3.28	"

FORM SERIAL #: 10-057 (Survey Section - Sequential survey #)	LOCATION # 10-11-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0200	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis:

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101101.XLD
 Batch Ended: 1/27/93 15:18
 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

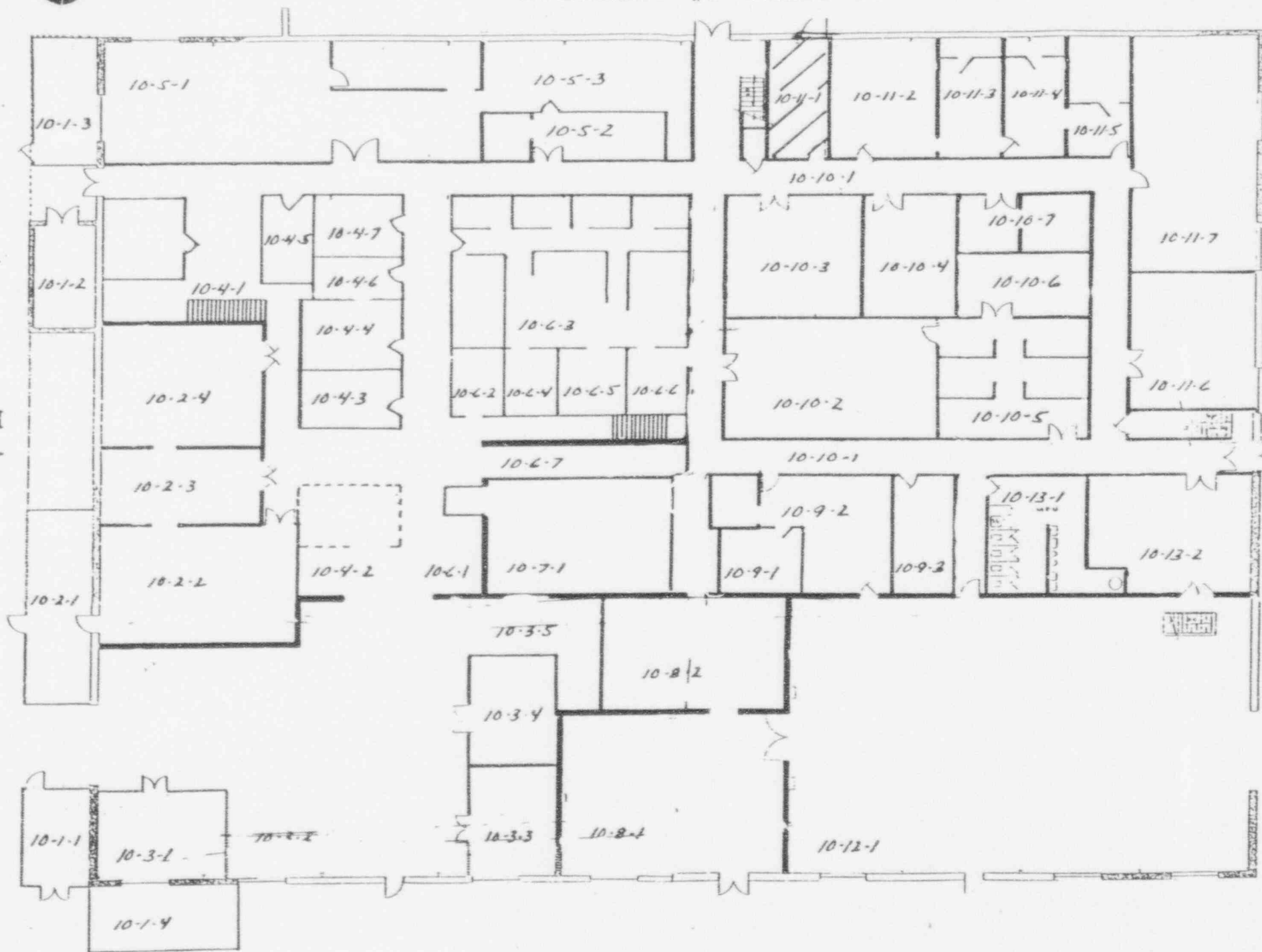
Batch ID: TJS FLOORS AND WALLS

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	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/27/93 15:14
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/27/93 15:15
3	-0.149	1.35	<MDA	27.24	9.10	7.22	<MDA	35.18	0.34	0.035	1.54	1/27/93 15:15
4	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.035	1.40	1/27/93 15:16
5	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	0.055	1.40	1/27/93 15:16
6	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.10	0.34	0.055	1.40	1/27/93 15:17
7	-0.149	1.37	<MDA	27.98	9.20	7.41	<MDA	35.93	0.33	0.055	1.63	1/27/93 15:18

SURVEY POINTS NOT NEEDED.

BUILDING #9 FIRST FLOOR

NORTH



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	214
	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: 1/28/93
COUNT DATE: 1/28/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uR/hr
	E520: 5242	mc/hr
	E520: 5245	mc/hr
	ESP2: 1522	mc/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. mc/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	N/A	2, -.3	N/A	N/A	267	250	3	257	-0.149	-2.82	ESP's used for scans
South Wall	"	2, -.3	"	"	228	220	2	190	-0.149	-2.82	and 1 minute counts
"	"	4, -.3	"	"	235	200	4	182	-0.149	3.28	"

FORM SERIAL #: 10-062 (Survey Section - Sequential survey #)	LOCATION # 10-11-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0207	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101101U.XLD
 Batch Ended: 1/28/93 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

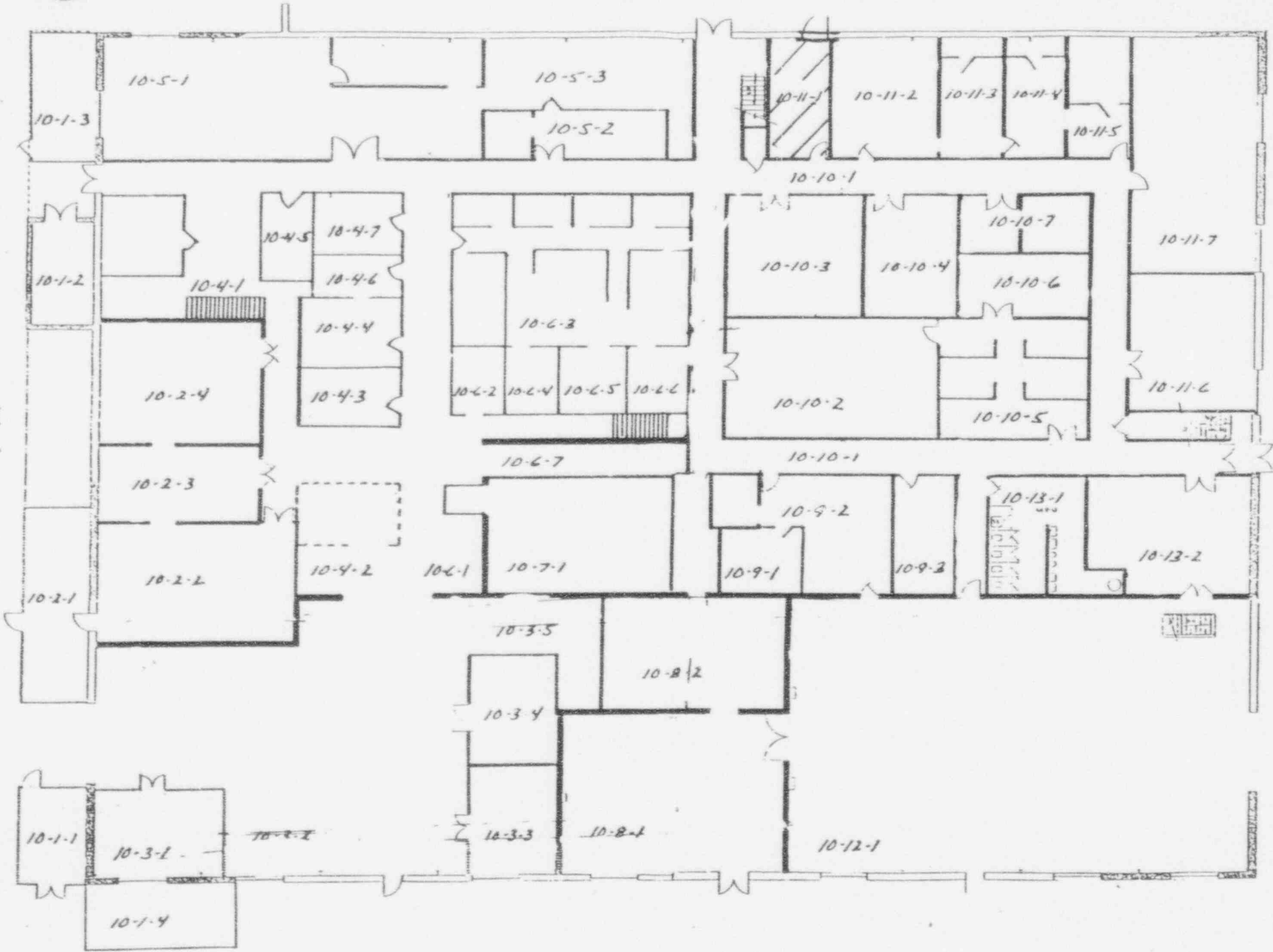
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.64%
 Beta into Alpha Crosstalk: 0.41%
 Beta Background (CPM): 1.401315789

Batch ID: LJS 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	1/28/93 13:01
2	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:01
3	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/28/93 13:02

BUILDING #9 FIRST FLOOR

NORTH
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101102.XLD
 Batch Ended: 1/27/93 15:07
 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: LJS FLOORS AND WALLS

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	1/27/93 15:02
9	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:03
10	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/27/93 15:04
11	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:04
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/27/93 15:05
13	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/27/93 15:05
14	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/27/93 15:06
15	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:06
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:07

SURVEY POINTS NOT NEEDED BY

BUILDING #9 FIRST FLOOR



NORTH
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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	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/28/93
COUNT DATE: 1/28/93

(*)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		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
* East Wall	N/A	5, -.3	N/A	N/A	343	300	2	267	-0.149	-2.82	ESP's used for scans
"	"	1, -.3	"	"	480		2	27	-0.149	-2.82	& one minute counts
South Wall	"	5, -.3	"	"	259	230	5	1	-0.149	3.10	"
North Wall	"	2, -.3	"	"	361	200	2	197	-0.149	3.28	"
*All above results are on upper surfaces.											

FORM SERIAL #: 10-063 (Survey Section - Sequential survey #)	LOCATION # 10-11-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0208	SURVEYOR SIGNATURE: TS/MS <i>G. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101102U.XLD
 Batch Ended: 1/28/93 13:04
 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

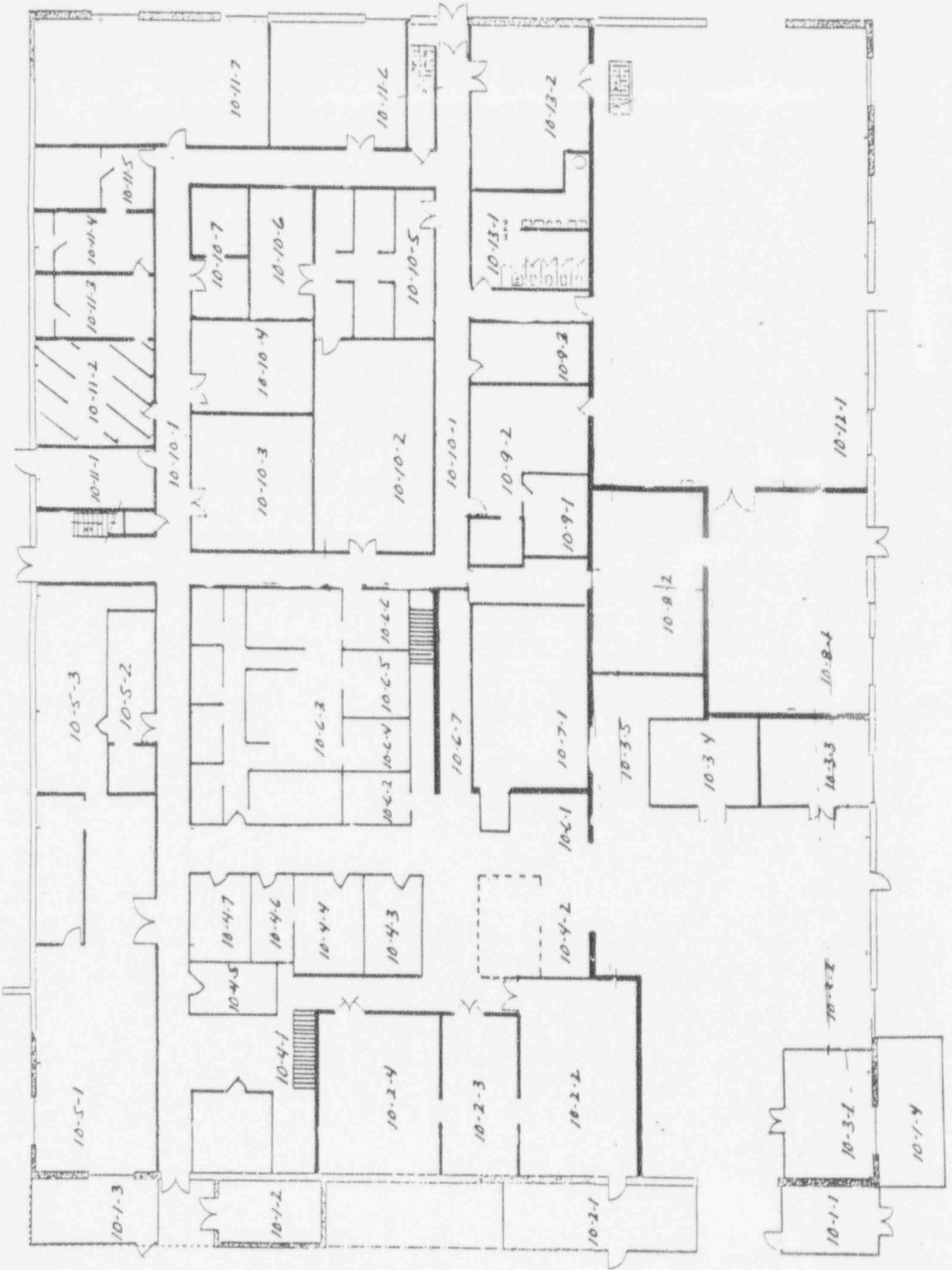
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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

Batch ID: LJS UPPER SURFACES

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	-2.62	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:02
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:03
6	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/28/93 13:03
7	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/28/93 13:04

BUILDING #9 FIRST FLOOR



NORTH



LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101103.XLD
 Batch Ended: 1/27/93 15:09
 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 FLOORS AND WALLS

Carrier	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	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:07
18	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:08
19	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/27/93 15:08
20	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:09

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101103U.XLD
 Batch Ended: 1/28/93 13:05
 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 UPPER SURFACES

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	1/28/93 13:04
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/28/93 13:05

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101103U1.XLD
 Batch Ended: 1/28/93 13:28
 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

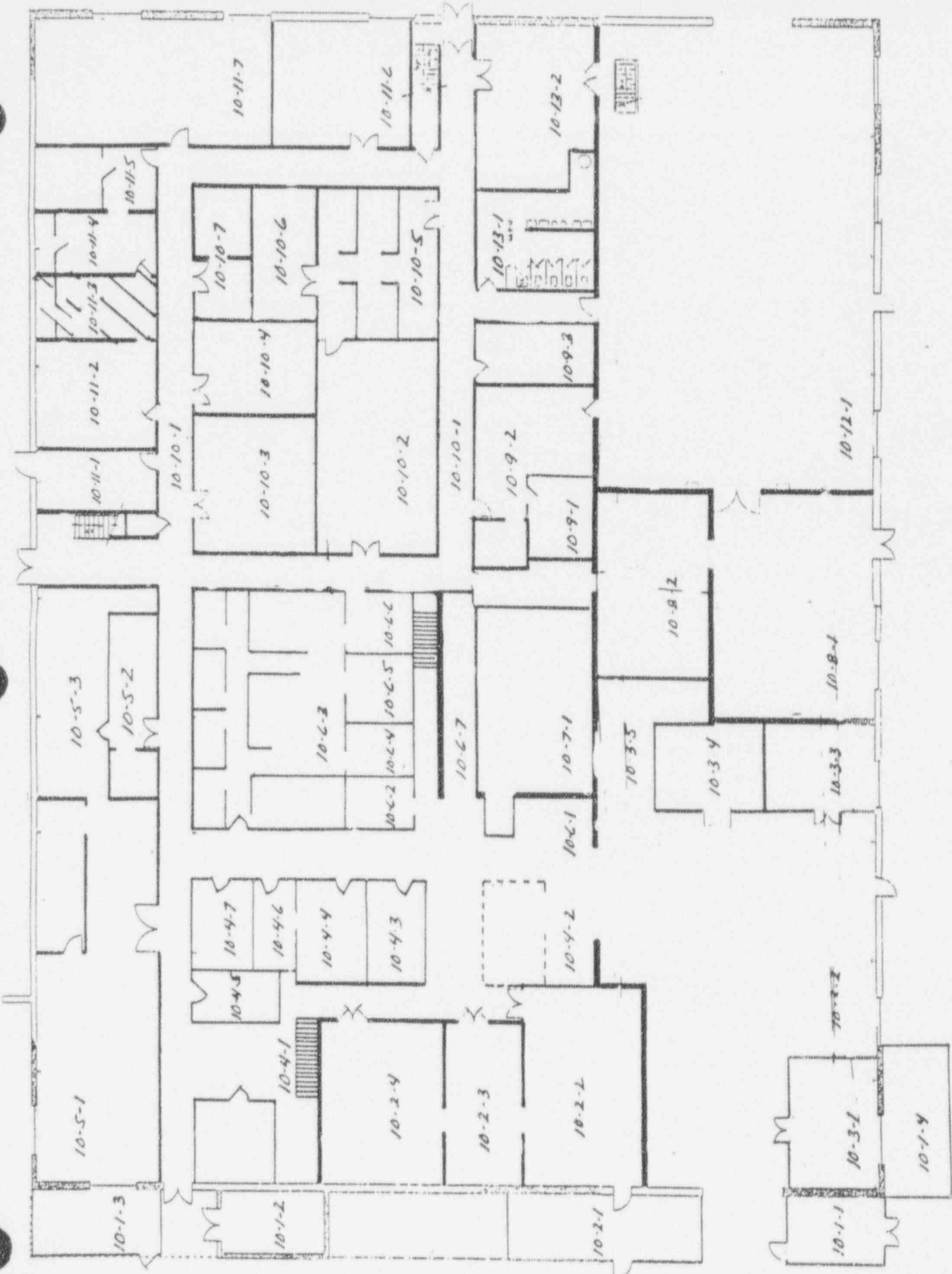
Application Revision: 2
 Application Version: Standard

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 REMAINDER OF UPPER SURFACES

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
30	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:28

BUILDING #9 FIRST FLOOR



NORTH
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101104.XLD
 Batch Ended: 1/27/93 15:12
 Crosstalk Correction: Not Applied

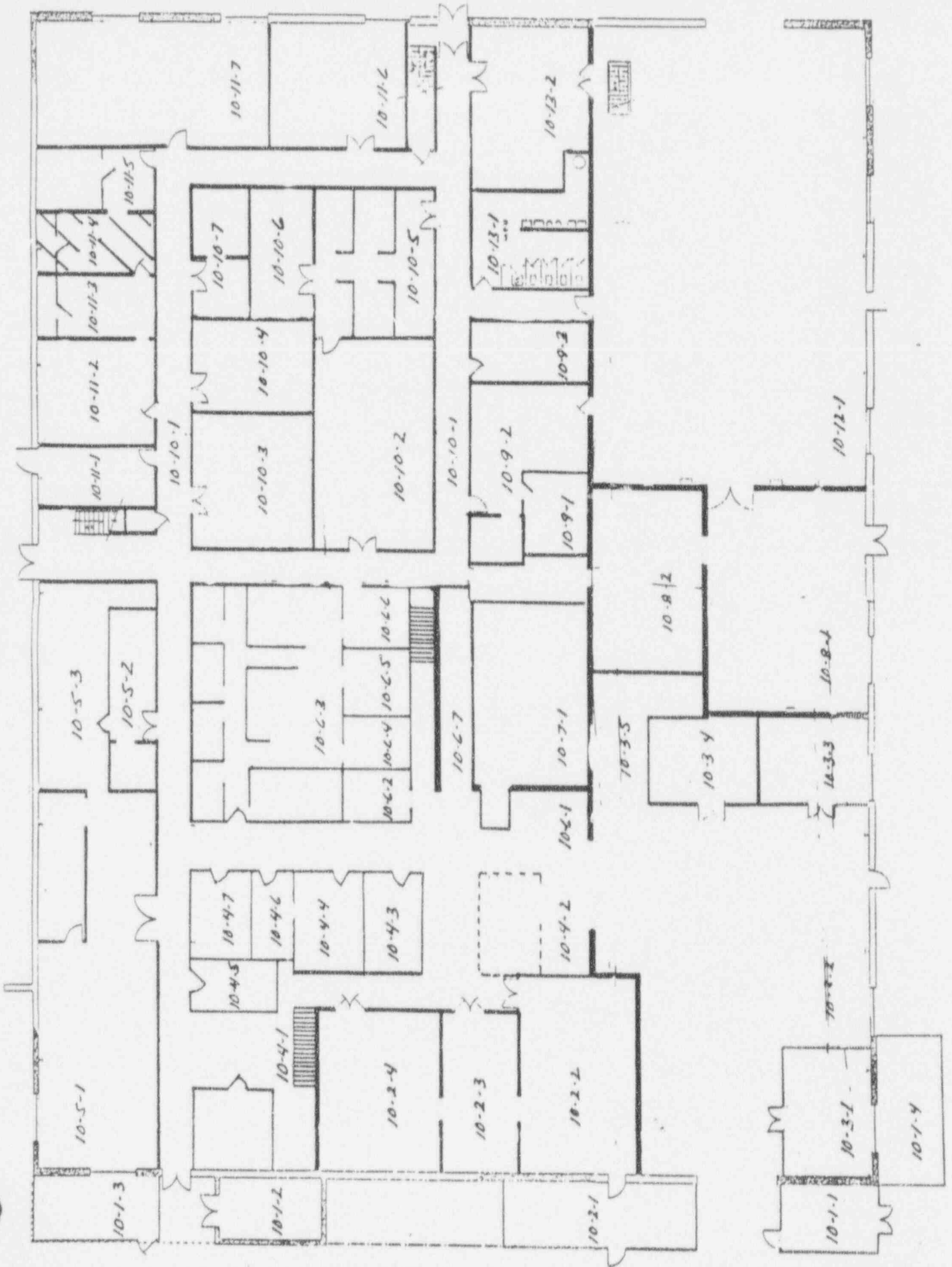
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

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: LJS FLOORS AND WALLS

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
21	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:09
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/27/93 15:10
23	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/27/93 15:11
24	2.556	2.82	<AL	10.65	?	4.24	<MDA	16.60	1.00	0.945	1.60	1/27/93 15:12
25	-0.149	1.37	<MDA	27.98	-2.6	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/27/93 15:12

BUILDING #9 FIRST FLOOR



NORTH
←

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	5	*	ESP2:1595-L	31.3%	3.20	148
	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: 1/28/93
COUNT DATE: 1/28/93

(*)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/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East Wall Closet	N/A	1, -.3	N/A	N/A	309	240	4	253	-0.149	-2.82	ESP's used for scans
(Upper Surf. Wall)	"	2, -.3	"	"	248	184	.999	282	-0.149	-2.82	and 1 minute counts

FORM SERIAL #: 10-065 (Survey Section - Sequential survey #)	LOCATION # 10-11-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0210	SURVEYOR SIGNATURE: T.G./MS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\101104U.XLD
 Batch Ended: 1/28/93 13:06
 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

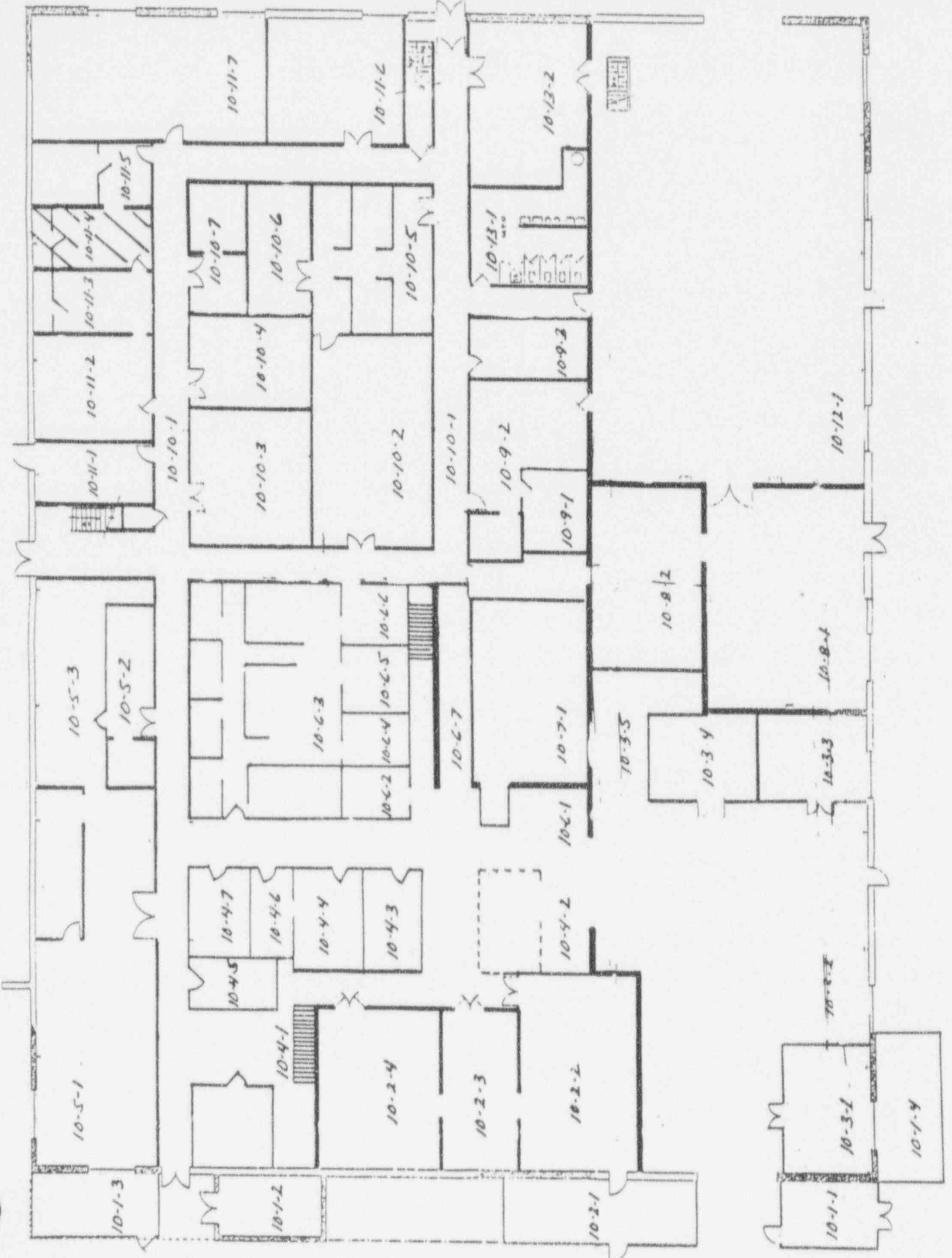
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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

Batch ID: LJS 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	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:05
11	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/28/93 13:06

BUILDING #9 FIRST FLOOR



NORTH
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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	50	*	FLMON:91943	30.3%	3.3	1300

SURVEY DATE: 1/27/93
COUNT DATE: 1/27/93

(*)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	

(*)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	
Floor	N/A	3, -2	11	.015	1295	1260	50	1343	-0.149	-2.82	Floor Monitor
"	"	3, 0	11	.011	1282	1250	51	1269	-0.149	-2.82	"
"	"	2, -2	11	.013	1307	1300	46	1286	-0.149	-2.82	"

LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101105.XLD
 Batch Ended: 1/27/93 15:14
 Crosstalk Correction: Not Applied

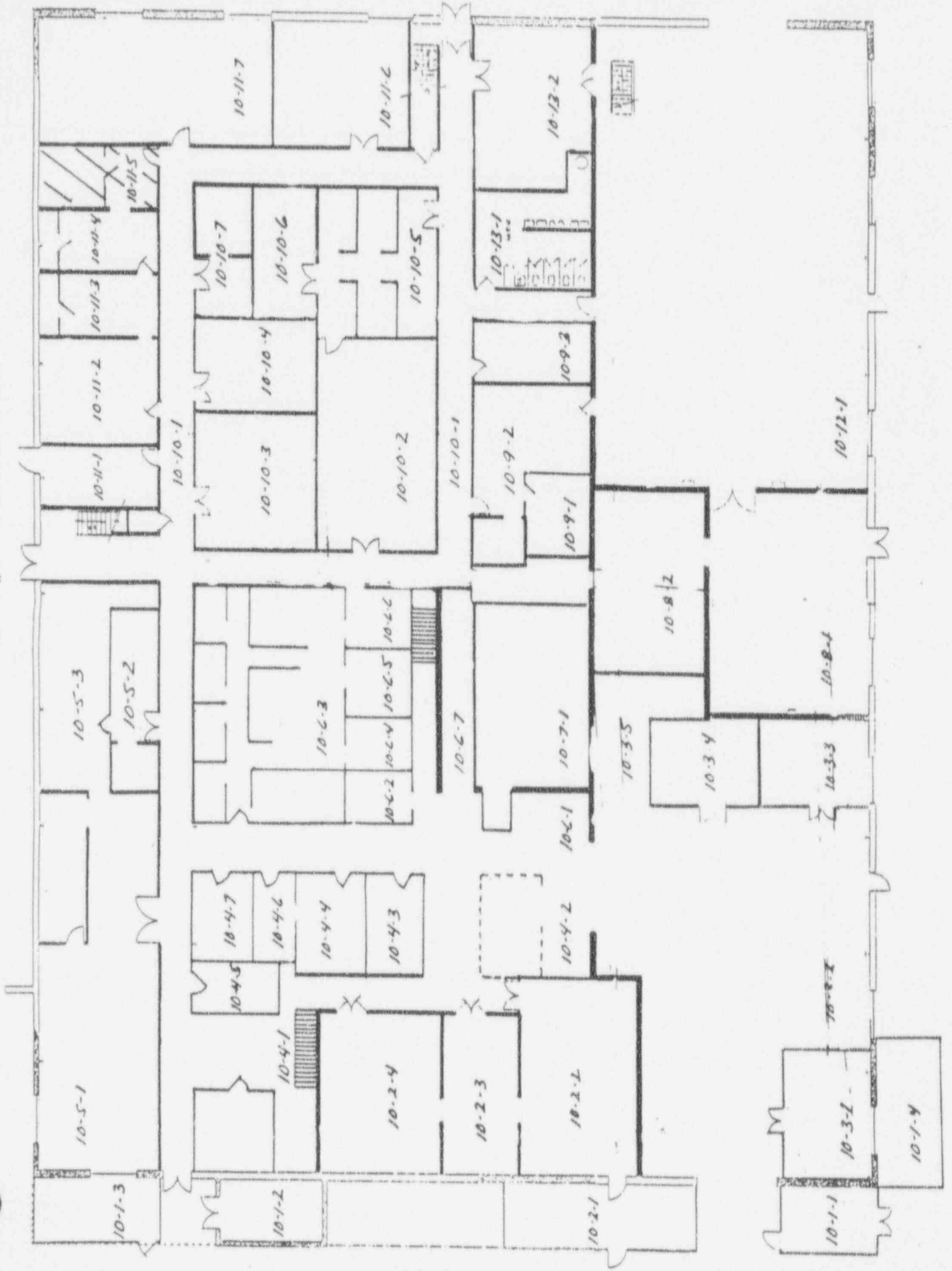
Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 95.00%
 High Voltage Setting: 1450
 Application Revision: 2
 Application Version: Standard

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: LJS FLOORS 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	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/27/93 15:13
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/27/93 15:13
28	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 15:14

BUILDING #9 FIRST FLOOR



ORTH



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	193
	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: 1/28/93
COUNT DATE: 12/23/92

(*)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	
North Wall	N/A	2, -1.3	N/A	N/A	276	220	3	207	-0.149	-2.82	ESP's used for scans
Concrete Block	"	4, -1.3	"	"	250	205	6	204	-0.149	3.28	& 1 minute counts
"	"	6, -1.3	"	"	227	190	0	205	-0.149	-2.82	"
"	"	8, -1.3	"	"	278	230	.999	224	-0.149	-2.82	"
"	"	10, -1.3	"	"	164	150	5	219	-0.149	9.39	"
East Wall, Brick	"	2, -1.3	"	"	367	250	2	320	-0.149	3.28	"
"	"	4, -1.3	"	"	368	245	0	303	-0.149	-2.82	"
"	"	6, 1.3	"	"	370	260	5	310	-0.149	9.03	"
South Wall, Block	"	2, -1.3	"	"	371	300	.799	300	-0.149	9.39	"
"	"	6, -1.3	"	"	222	185	2	217	-0.149	-2.82	"
"	"	8, -1.3	"	"	260	210	5	246	-0.149	3.28	"
West Wall, Block	"	2, -1.3	"	"	212	180	0	222	-0.149	3.28	"
"	"	4, -1.3	"	"	229	195	0	224	-0.149	3.28	"
"	"	6, -1.3	"	"	223	185	.999	237	-0.149	-2.82	"

FORM SERIAL #: 10-067 (Survey Section - Sequential survey #) LOCATION # 10-11-7 (Survey Section - Unit # - Sub Unit #) SURVEY CLASSIFICATION: III (Group I, II, III, IV) DISK FILE CODE: FDS-0213 SURVEYOR SIGNATURE: S/MS *[Signature]*

LB5100W Low Background Counting System -- Smear Analysis

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

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

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\EXL\MINTEL\101107.XLD
 Batch Ended: #####
 Crossstalk Correction: Not Applied

Batch ID: 15B

Carrier	Alpha Activity			Beta Activity			Count Time (min)	Alpha CPM	Beta CPM	Completion TOD
	DFM	σ	flags	MDA	DFM	σ				
1	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	-1.40	12/23/92 12:57
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	1.63	12/23/92 12:58
3	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	-1.40	12/23/92 12:58
4	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	-1.40	12/23/92 12:59
5	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	4.66	12/23/92 12:59
6	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	1.63	12/23/92 13:00
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	-1.40	12/23/92 13:00
8	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	4.48	12/23/92 13:01
9	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	4.66	12/23/92 13:01
10	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	1.40	12/23/92 13:02
11	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	1.63	12/23/92 13:02
12	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	1.63	12/23/92 13:03
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	1.63	12/23/92 13:03

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT 1\101107L_XLD
 Batch Ended: 1/28/93 13:31
 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: LJS REMAINDER OF FLOORS 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	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:31

BUILDING #9 FIRST FLOOR



NORTH



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	193
	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/28/93
COUNT DATE: 1/28/93

(*)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	
N. Wall Upper Surf.	N/A	2, -.3	N/A	N/A	236	200	0	215	-0.149	3.28	ESP's used for scans
" /Block	"	4, -.3	"	"	229	190	.999	207	-0.149	-2.82	& one minute counts
"	"	6, -.3	"	"	315	230	4	212	-0.149	-2.82	"
"	"	8, -.3	"	"	240	210	2	224	-0.149	9.39	"
"	"	10, -.3	"	"	253	220	.999	231	-0.149	-2.82	"
E. Wall Brick	"	2, -.3	"	"	306	240	0	309	-0.149	9.03	"
"	"	4, -.3	"	"	314	235	3	286	-0.149	3.10	"
"	"	6, -.3	"	"	248	200	6.99	285	-0.149	-2.82	"
South Wall	"	2, -.3	"	"	276	230	.999	270	-0.149	9.03	"
S. Wall, Brick	"	4, -.3	"	"	264	230	0	238	-0.149	-2.82	"
"	"	6, -.3	"	"	173	150	5	285	-0.149	-2.82	"
" Block	"	8, -.3	"	"	204	180	2	212	-0.149	9.03	"
" Brick	"	10, -.3	"	"	376	240	7.99	330	-0.149	-2.82	"
West Wall	"	2, -.3	"	"	201	175	.999	224	-0.149	3.28	"
" Block	"	4, -.3	"	"	308	205	.999	211	-0.149	-2.82	"

FORM SERIAL #: 10-066 (Survey Section - Sequential survey #)	LOCATION # 10-11-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0211	SURVEYOR SIGNATURE: J.S. MS. <i>J. S. MS.</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	3	*	ESP2:1595-L	31.3%	3.20	193
	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: 478	33.5%	3.0	
	FLMON:91943	20.4%	4.9			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/28/93
COUNT DATE: 1/28/93

(*)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	
West Wall	N/A	6, -3	N/A	N/A	276	220	2	234	-0.149	-2.82	ESP's used for scans 3 one minute counts

FORM SERIAL #: 10-066 (Survey Section - Sequential survey #)	LOCATION # 10-11-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0212	SURVEYOR SIGNATURE: TS/MS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/28/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101107U.XLD
 Batch Ended: 1/28/93 13:16
 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: UPPER SURFACES

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	1/28/93 13:07
13	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/28/93 13:07
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/28/93 13:08
15	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/28/93 13:08
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:09
17	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/28/93 13:09
18	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/28/93 13:10
19	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:11
20	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/28/93 13:11
21	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:12
22	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:12
23	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/28/93 13:13
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/28/93 13:13
25	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/28/93 13:14
26	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/28/93 13:14
27	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/28/93 13:15
28	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/28/93 13:15
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/28/93 13:16

SURVEY POINT NOT NEEDED

APPENDIX K

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 12

DECOMMISSIONING FIELD DATA SHEET

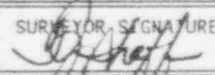
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	197
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	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: 2/8/93
COUNT DATE: 12/23/92

(*)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	0.055
	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.		SHEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
East Wall	N/A	2, -5.4	N/A	N/A	140	120	.999	213	-0.149	3.28	ESP's used for scans
"	"	8, -5.4	"	"	160	120	5	185	-0.149	-2.82	and 1 minute counts
"	"	12, -5.4	"	"	180	140	0	179	-0.149	3.28	"
"	"	14, -5.4	"	"	165	150	0	189	-0.149	-2.82	"
"	"	20, -5.4	"	"	150	125	3	193	-0.149	-2.82	"
South Wall	"	2, -5.4	"	"	209	187	3	280	-0.149	-2.82	"
"	"	4, -5.4	"	"	228	175	2	227	-0.149	-2.82	"
"	"	12, -5.4	"	"	179	150	.999	258	-0.149	-2.82	"
"	"	14, -5.4	"	"	223	179	2	236	-0.149	9.03	"
West Wall	"	4, -5.4	"	"	251	210	.999	207	-0.149	-2.82	"
"	"	6, -5.4	"	"	181	150	2	224	-0.149	3.10	"

FORM SERIAL #: 10-075 (Survey Section - Sequential survey #)	LOCATION # 10-12-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0232	SURVEYOR SIGNATURE: TS/LS 
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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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	0	*	ESP2:1595-L	31.3%	3.20	197
	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	54	*	FLMON:91943	30.3%	3.3	1201

SURVEY DATE: 2/8/93
COUNT DATE: 12/23/92

(*)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	0.055
	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	.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	
West Wall	N/A	12, -5.4	N/A	N/A	226	172	0	186	-0.149	3.10	ESP's used for scans
"	"	18, -5.4	"	"	171	140	.999	202	-0.149	3.28	& one minute counts.
Floor	"	2, -2	7	.017	1119	1100	55	1169	-0.149	3.28	Floor monitor used
"	"	4, -2	7	.009	1181	1150	45	1094	-0.149	-2.82	for scans & 1 minute
"	"	6, -2	7	.014	1151	1120	71	1106	-0.149	15.49	counts
"	"	8, -2	6	.012	1172	1150	56	1191	-0.149	3.28	"
"	"	12, -2	6	.015	1320	1300	54	1203	-0.149	-2.82	"
"	"	12, -4	9	.010	1384	1350	66	1287	-0.149	3.28	"
"	"	12, -6	8	.013	1323	1300	50	1225	-0.149	-2.82	"
"	"	8, -6	8	.007	1198	1150	45	1223	-0.149	3.10	"
"	"	6, -6	8	.015	1115	1100	52	1152	-0.149	-2.82	"
"	"	6, -8	9	.012	1226	1180	55	1236	-0.149	9.39	"
"	"	6, -12	7	.010	1545	1500	54	1460	-0.149	-2.82	"
"	"	8, -8	7	.009	1180	1125	36	1194	-0.149	3.28	"
"	"	4, -12	9	.016	1598	1550	51	1512	-0.149	-2.82	"

FORM SERIAL #: 10-075 (Survey Section - Sequential survey #)	LOCATION # 10-12-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0233	SUPERVISOR SIGNATURE: TS 
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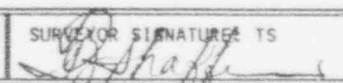
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			SP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 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	54	*	FLMON:91943	30.3%	3.3	1576

SURVEY DATE: 2/8/93
COUNT DATE: 12/23/92

(*)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	0.055
	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	N/A	4, -14	8	.017	1604	1550	49	1557	8.048	9.39	Floor monitor use for
"	"	4, -16	8	.012	1617	1515	45	1568	-0.149	3.28	smears and 1 minute
"	"	4, -18	9	.013	1387	1350	49	1388	-0.149	9.03	counts
"	"	6, -18	8	.008	1475	1400	48	1381	-0.149	9.03	"
"	"	6, -22	7	.012	1538	1475	41	1533	-0.149	9.39	"
"	"	8, -22	7	.009	1578	1535	59	1594	-0.149	3.10	"
"	"	10, -22	9	.015	1674	1640	63	1619	-0.149	-2.82	"
"	"	14, -22	8	.014	1662	1600	54	1515	-0.149	-2.82	"

FORM SERIAL #: 10-075 (Survey Section - Sequential survey #)	LOCATION # 10-12-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0234	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\EBXL\UNIT1\101201.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: 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

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	12/23/92 13:34
2	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:35
3	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:35
4	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:36
5	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:36
6	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:37
7	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	1.40	12/23/92 13:37
8	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:38
9	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/23/92 13:38
10	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:39
11	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 13:39
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 13:40
13	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:40
14	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:41
15	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	1.40	12/23/92 13:41
16	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:42
17	-0.149	1.37	<MDA	27.98	15.49	11.38	<AL	35.93	0.33	-0.055	7.69	12/23/92 13:42
18	-0.149	1.35	<MDA	27.24	2.82	4.19	<MDA	35.16	0.34	-0.055	1.40	12/23/92 13:43
19	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:43
20	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	1.40	12/23/92 13:44
21	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:44
22	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13:45
23	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	1.40	12/23/92 13:45
24	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 13:46
25	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13:46

SURVEY POINTS NOT NEEDED.

LB5100W Low Background Counting System – Smear Analysis

Date: 12/23/92
 Counting Unit id: 1
 Data file name: C:\EXL\UNIT1\101201.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): 0.055263118

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

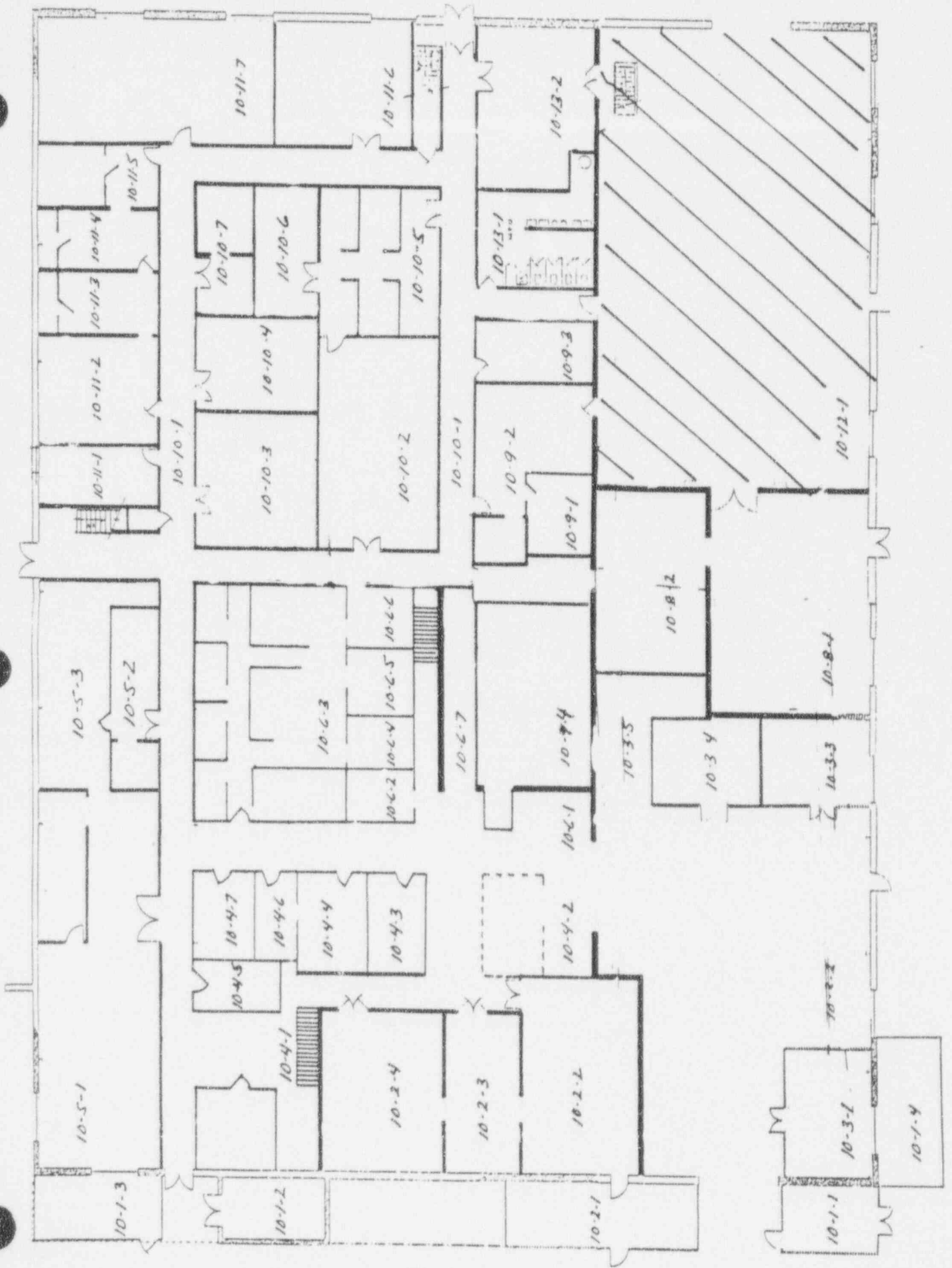
Batch ID: TSB

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.149	1.97	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 13.47
27	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/23/92 13.48
28	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 13.48
29	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13.49
30	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	12/23/92 13.49
31	8.048	8.31	AL AL	27.98	9.39	9.60	<MDA	35.93	0.33	2.975	4.66	12/23/92 13.50
32	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	12/23/92 13.50
33	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/23/92 13.51
34	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	12/23/92 13.51
35	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	12/23/92 13.52
36	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	12/23/92 13.52
37	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 13.53
38	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 13.53
39	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	12/23/92 13.54
40	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	12/23/92 13.54

SURVEY POINTS NOT NEEDED.

BUILDING #9 FIRST FLOOR

NORTH
←



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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	257
	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: 2/22/93
 COUNT DATE: 2/22/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	
South Wall	6, -1	N/A	N/A	N/A	421	360	0	363	-0.264	-2.49	Upper Surfaces - Brick
"	8, -1	"	"	"	408	370	1	404	7.506	-2.49	" "
"	10, -1	"	"	"	399	310	17	409	-0.264	-2.49	" "
Cable Tray	@ 6 m.	"	"	"	321	270	1	322	-0.264	-2.49	Upper Surfaces
" /South Wall	@10 m.	"	"	"	376	300	4	292	-0.264	-2.49	"
Roll Up Door	@4 m.	"	"	"	360	300	3	315	-0.264	3.59	"
" /South Wall	@8 m.	"	"	"	376	250	2	300	-0.264	-2.49	"
Jib Crane Rail #1	Midpoint	"	"	"	241	200	3	241	-0.264	-2.49	"
South Wall	4, -3.4	"	"	"	412	360	9	428	-0.264	3.59	Upper Surfaces/Brick
Ceiling Beam	4, -16	"	"	"	297	260	0	235	-0.264	-2.49	Upper Surfaces
"	6, -16	"	"	"	287	260	0	233	-0.264	3.41	"
"	4, -14	"	"	"	383	270	1	251	-0.264	3.59	"
"	6, -14	"	"	"	290	240	2	252	-0.264	-2.49	"
"	4, -12	"	"	"	230	200	0	234	-0.264	3.59	"
"	6, -12	"	"	"	262	230	2	243	-0.264	3.41	"

FORM SERIAL #: 10-088 (Survey Section - Sequential survey #)	LOCATION # 10-12-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0264	SURVEYOR SIGNATURE: TB/TS <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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	257
	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: 2/22/93
COUNT DATE: 2/22/93

(*)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	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	MS-2: 1848	25.0%	4.0	
	BC-4: 808	16.9%	5.92	

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	4, -8	N/A	N/A	N/A	266	225	3	250	-0.264	-2.49	Upper Surfaces
"	6, -8	"	"	"	256	200	1	262	-0.264	-2.49	"
"	6, -6	"	"	"	305	280	1	229	-0.264	-2.49	"
"	4, -6	"	"	"	342	270	6	213	-0.264	3.59	"
"	6, -4	"	"	"	281	230	2	241	-0.264	-2.49	"
"	4, -4	"	"	"	186	160	3	233	-0.264	-2.49	"
South Wall	N/A	10, -4.4	"	"	320	350	2	495	-0.264	-2.49	Upper Surfaces/ Brick
"	"	12, -4.4	"	"	525	400	1	499	-0.264	-2.49	"
"	"	14, -4.4	"	"	543	440	0	497	-0.264	3.59	"
West Wall	"	4, -4.4	"	"	476	320	1	449	-0.264	-2.49	"
"	"	6, -4.4	"	"	507	460	1	449	-0.264	-2.49	"
"	"	8, -4.4	"	"	486	435	9	329	7.741	3.59	"
North Wall	"	6, -4.4	"	"	347	280	1	331	-0.264	-2.49	Upper Surf./Concr. Blk.
"	"	10, -4.4	"	"	266	220	6	370	-0.264	3.59	"
"	"	12, -4.4	"	"	293	250	6	370	-0.264	9.45	"

FORM SERIAL #: 10-088
(Survey Section - Sequential survey #)

LOCATION # 10-12-1
(Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: III
(Group I, II, III, IV)

DISK FILE CODE: FDS-0265

SURVEYOR SIGNATURE: TB/TS



LB5100W Low Background Counting System – Smear Analysis

Date: 2/22/93
 Counting Unit id: 1
 Data file name: C:\LBI\UNIT1\1012010P.XLD
 Batch Ended: 2/22/93 15:16
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-12-1 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	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:01
2	7.506	7.94	At AL	28.10	-2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	2/22/93 15:02
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/22/93 15:02
4	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:03
5	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:03
6	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/22/93 15:04
7	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:04
8	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:05
9	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/22/93 15:06
10	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:06
11	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/22/93 15:07
12	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/22/93 15:07
13	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:08
14	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/22/93 15:08
15	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/22/93 15:09
16	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/22/93 15:09
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/22/93 15:10
18	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/22/93 15:10
19	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/22/93 15:11
20	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/22/93 15:11
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:12
22	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:12
23	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:13
24	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/22/93 15:13
25	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/22/93 15:14

LB5100W Low Background Counting System -- Smear Analysis

Date: 2/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\101201UP.XLD
 Batch Ended: 2/22/93 15:16
 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: 1435

Application Revision: 2
 Application Version: Standard

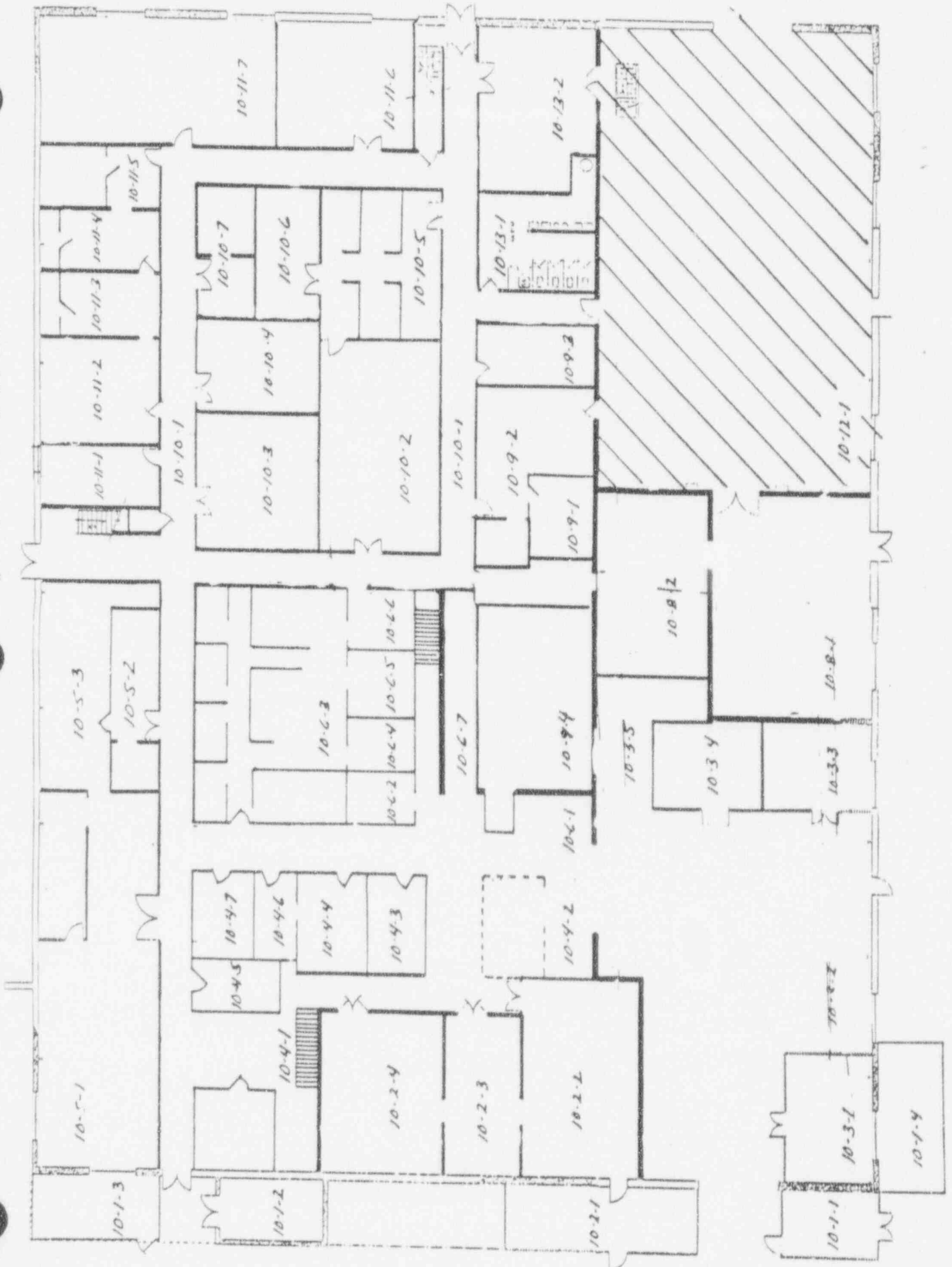
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 10-12-1 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	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:14
27	7.741	8.17	At AL	28.84	3.59	7.24	<MDA	34.63	0.33	2.930	1.79	2/22/93 15:15
28	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/22/93 15:15
29	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/22/93 15:16
30	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	2/22/93 15:16

BUILDING #9 FIRST FLOOR



NORTH
↓

APPENDIX L

RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR SCANS

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	ESP-2	1510	38.7%		2.58
	ESP-2	1517	38.9%		2.57
	ESP-2	1522	OOS	OOS	OOS
	ESP-2				

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	OOS	OOS	OOS
*	FLOOR MON.	91943	36%	1251	2.7
	E-520	5242	20.3%		4.9
	E-520	5245	OOS	OOS	OOS

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile on Concrete	30	1684	1350	10-10-1	III	See Attached map
"	50	1477	1300	10-6-1	IV	
"	50	1486	1200	10-4-2	IV	"
"	50	1486	1200	10-4-1	IV	"
Carpet on tile floor	50	1450	1250	10-4-5	IV	"
Tile on Concrete	30	1185	1200	10-4-3	IV	"
"	30	1520	1200	10-5-1	III	"
"	30	1580	1190	10-5-3	III	"
Tile & Carpet	30	1350	1150	10-5-2	III	"
"	50	1220	1000	10-6-3	IV	"
"	50	1220	1000	10-6-5	IV	"
"	50	1220	1000	10-6-6	IV	"
Tile on Concrete	50	1220	1000	10-6-4	IV	"
"	30	1224	1125	10-11-1	III	"
"	30	1190	1150	10-11-2	III	"

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:

SURVEY DATE: 12-14-92

FORM S/N: 10-028
(Survey Sec-Sequential #)

DISK FILE CODE: SDS-0001

DECOMMISSIONING SURVEY SCAN DATA SHEET

IH & S FORM: SDS-REVO
LARGE SITE 12/92

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	ESP-2	1510	38.7%		2.58
	ESP-2	1517	38.9%		2.57
	ESP-2	1522	OOS	OOS	OOS
	ESP-2				

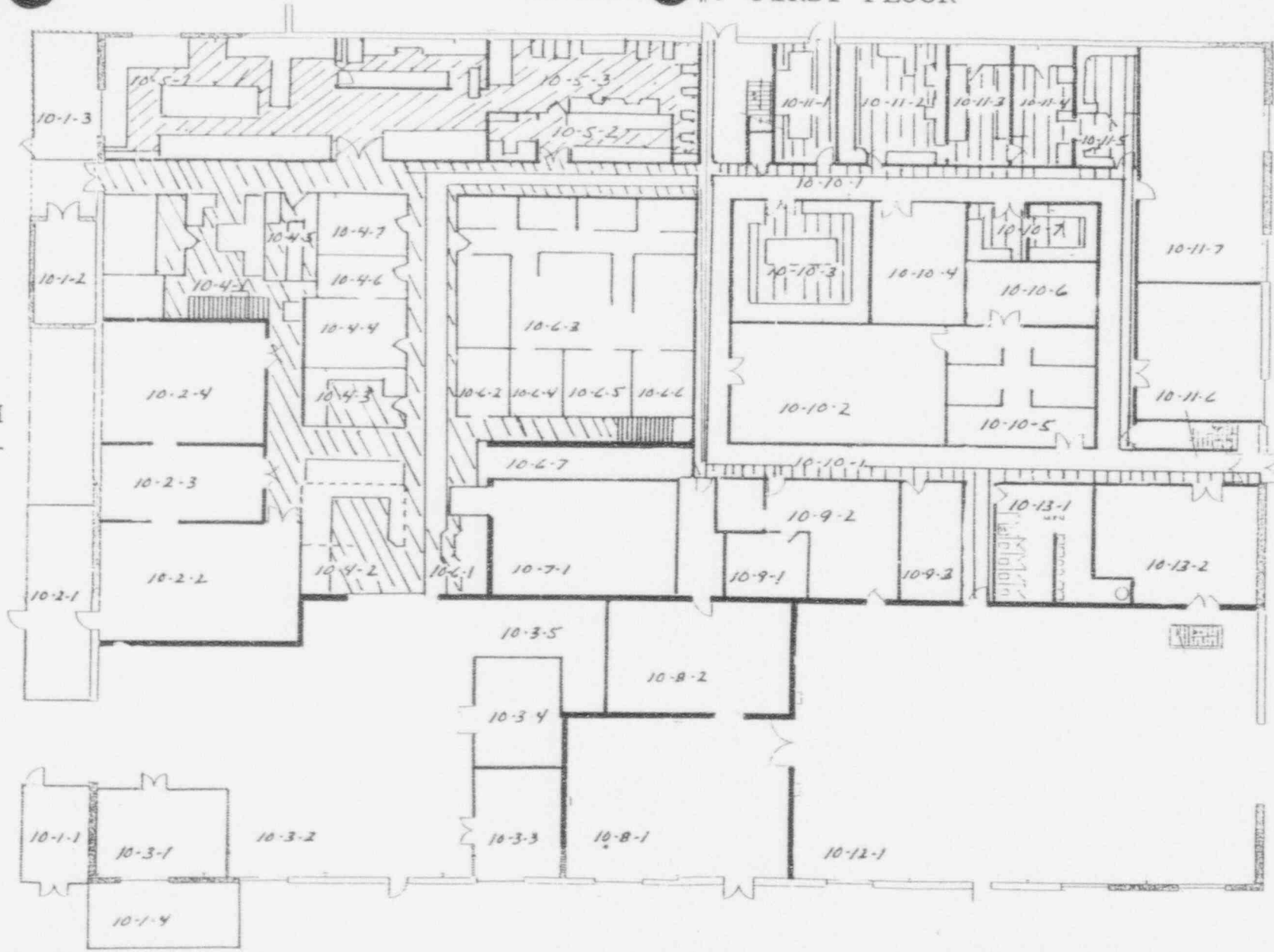
(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	OOS	OOS	OOS
*	FLOOR MON.	91943	36%	1251	2.7
	E-520	5242	20.3%		4.9
	E-520	5245	OOS	OOS	OOS

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile on concrete	30	1100	1150	10-11-3	III	See Attached map
"	30	1100	1100	10-11-4	III	"
"	30	1220	1100	10-11-5	III	"
"	30	1251	1200	10-10-7	III	"
"	30	1280	1250	10-10-3	III	"

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:	SURVEY DATE: 12-14-92
		FORM S/N: 10-028 (Survey Section-Sequential #)	DISK FILE CODE: SDS-0002

BUILDING #9 FIRST FLOOR

NORTH



DECOMMISSIONING SURVEY SCAN DATA SHEET

IH & S FORM: SDS-REVO
LARGE SITE 12/92

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C. F.
	ESP-2	1510	38.7%		2.58
	ESP-2	1517	38.9%		2.57
	ESP-2	00S	00S	00S	00S
	ESP-2				

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C. F.
	PAC4G	4478	00S	00S	00S
*	FLOOR MON.	91943	36%	1287	2.7
	E-520	5242	20.3%		4.9
	E-520	5245	00S	00S	00S

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile on Concrete	50	1696	1350	10-9-2	IV	See Attached map
"	50	1570	1310	10-9-1	IV	"
"	50	1320	1200	10-9-3	IV	"
Carpet on Concrete	30	1410	1075	10-13-2	III	"
"	30	1523	1350	10-10-5	III	"
Tile on Concrete	30	1523	1350	10-10-6	III	"
"	30	1257	1150	10-13-1	III	"
"	30	1312	1000	10-10-2	III	"
"	50	1603	1275	10-8-2	IV	"
"	50	1184	1000	10-8-1	IV	"
"	50	1638	1500	10-2-1	IV	"
Painted Concrete	50	1400	1200	10-2-2	IV	"
Tile on Concrete	50	1320	1175	10-2-3	IV	"
"	50	1220	1075	10-2-4	IV	"
Painted Concrete	50	1478	1325	10-3-2	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 Shaffer
SIGNATURE: *Terry Shaffer*

FORM S/N: 10-029
(Survey Sec-Sequential #)

SURVEY DATE: 12-15-92

DISK FILE CODE: SDS-0005

BUILDING FIRST FLOOR



NORTH



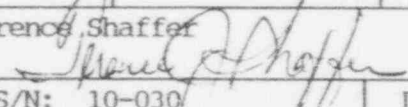
DECOMMISSIONING SURVEY SCAN DATA SHEET

IH & S FORM: SDS-REV0
LARGE SITE 12/92

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	ESP-2	1510	38.7%		2.58
	ESP-2	1517	38.9%		2.57
	ESP-2	1522	OOS	OOS	OOS
	ESP-2				

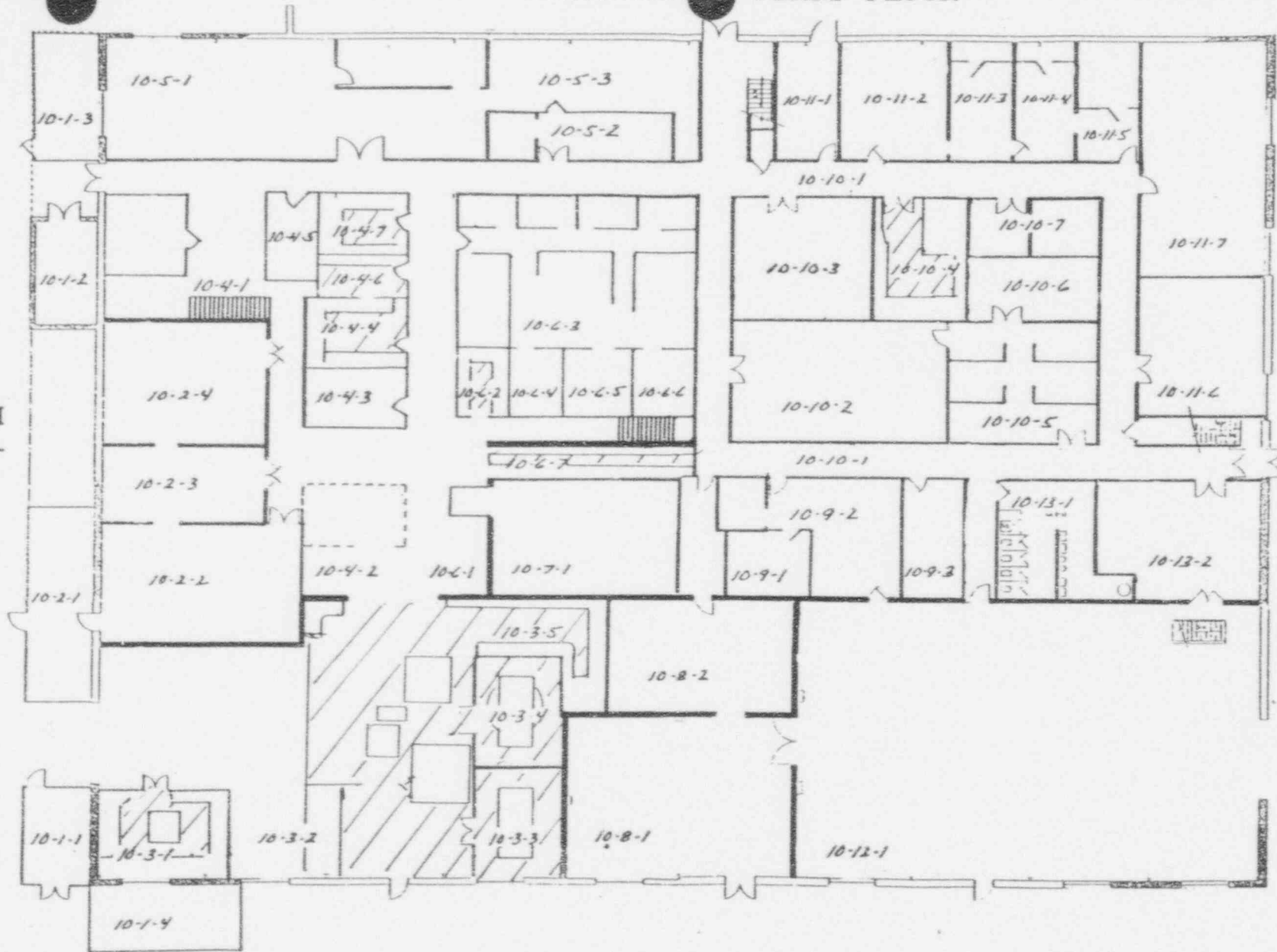
(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	OOS	OOS	OOS
*	FLOOR MON.	91943	36%	1355	2.7
	E-520	5242	20.3%		4.9
	E-520	5245	OOS	OOS	OOS

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Paint on Concrete	50	1601	1350	10-3-2	IV	See Attached map
"	50	1580	1400	10-3-1	IV	"
"	50	1672	1300	10-3-3	IV	"
"	50	1517	1250	10-3-4	IV	"
"	50	1580	1190	10-3-5	IV	"
Carpet on tile	50	1450	1150	10-4-4	IV	"
"	50	1523	1200	10-4-6	IV	"
"	50	1580	1325	10-4-7	IV	"
Tile on Concrete	30	1274	1100	10-10-4	III	"
"	50	1290	1200	10-6-7	IV	"
"	50	1278	1200	10-6-7	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: Terence Shaffer SIGNATURE: 	SURVEY DATE: 12-16-92
		FORM S/N: 10-030 (Survey Section-Sequential #)	DISK FILE CODE: SDS-0006

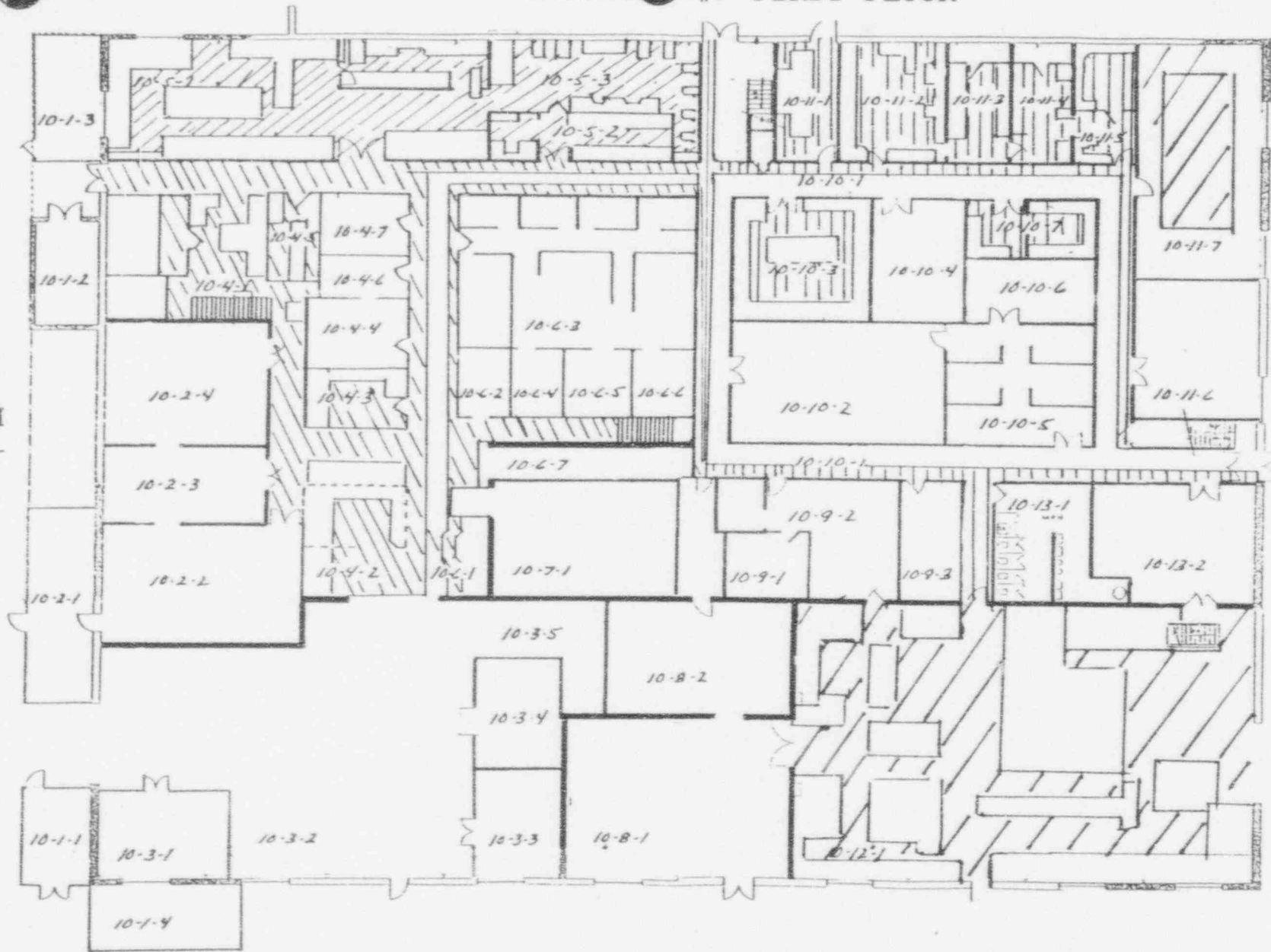
BUILDING FIRST FLOOR

NORTH



BUILDING #9 FIRST FLOOR

NORTH



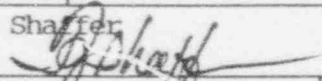
DECOMMISSIONING SURVEY SCAN DATA SHEET

IH & S FORM: SDS-REVO
LARGE SITE 12/92

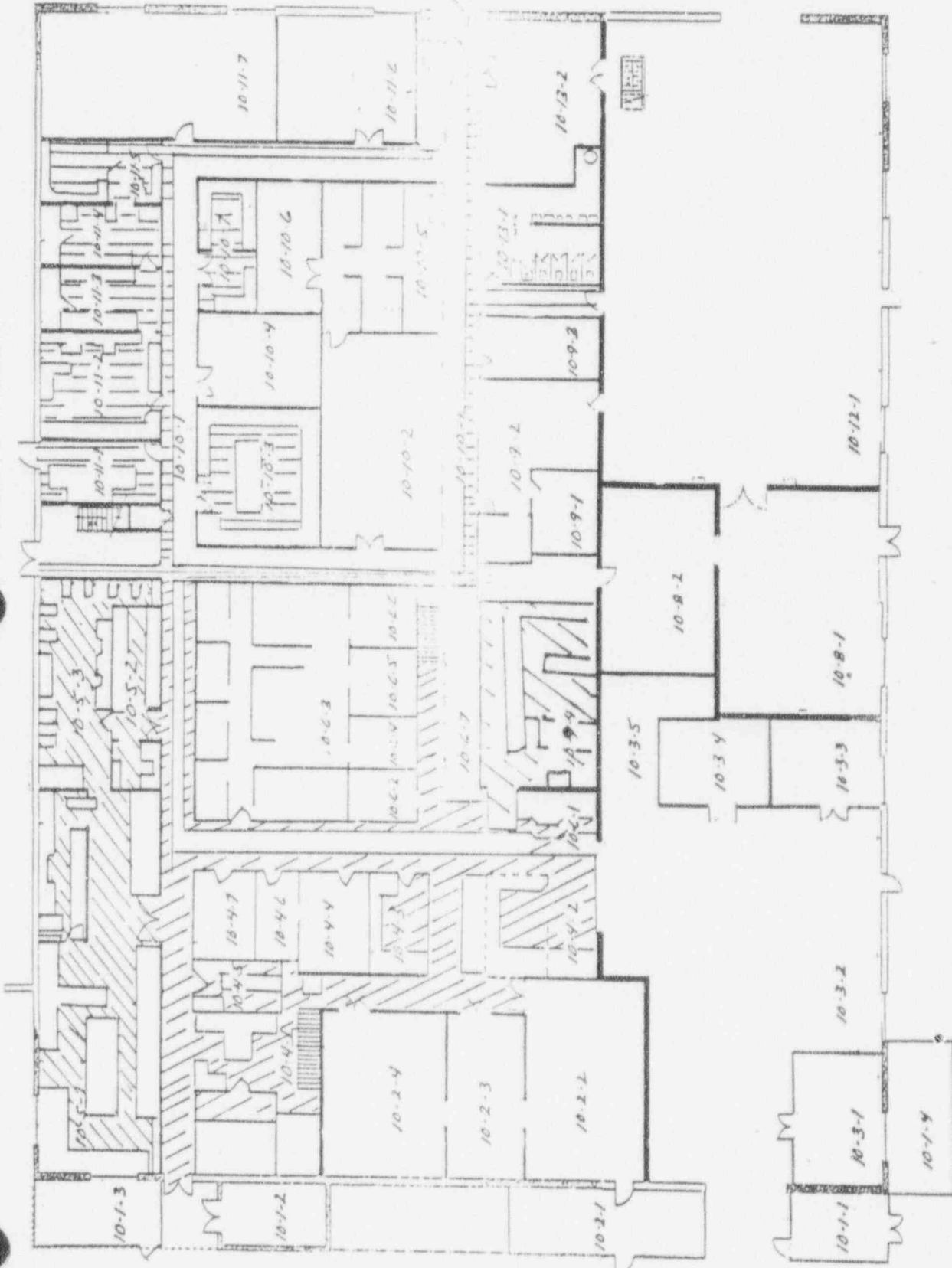
(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	ESP-2	1510	32.3%		3.1
	ESP-2	1517	N/A	N/A	N/A
	ESP-2	1522	N/A	N/A	N/A
	ESP-2				

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	33.5		3.0
*	FLOOR MON.	91943	30.3	1229	3.3
	E-520	5242	20.3%		4.9
	E-520	5245	OOS	OOS	OOS

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile on steel	50	1367	1200	10-9-4	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 Shaffer SIGNATURE: 	SURVEY DATE: 12/23/92
		FORM S/N: 10-032 (Survey Section-Sequential #)	DISK FILE CODE: SDS-0010

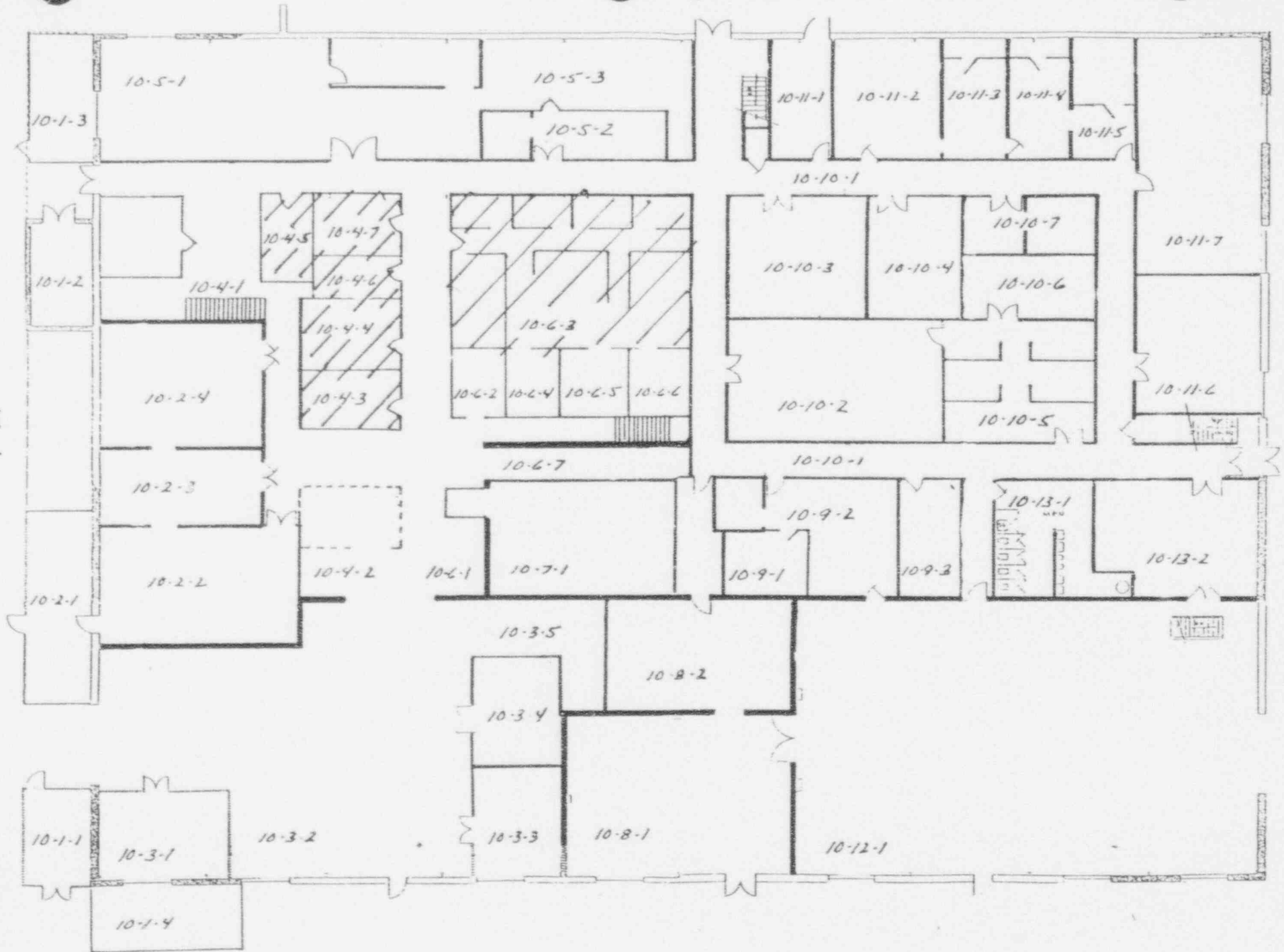
BUILDING '9 FIRST FLOOR



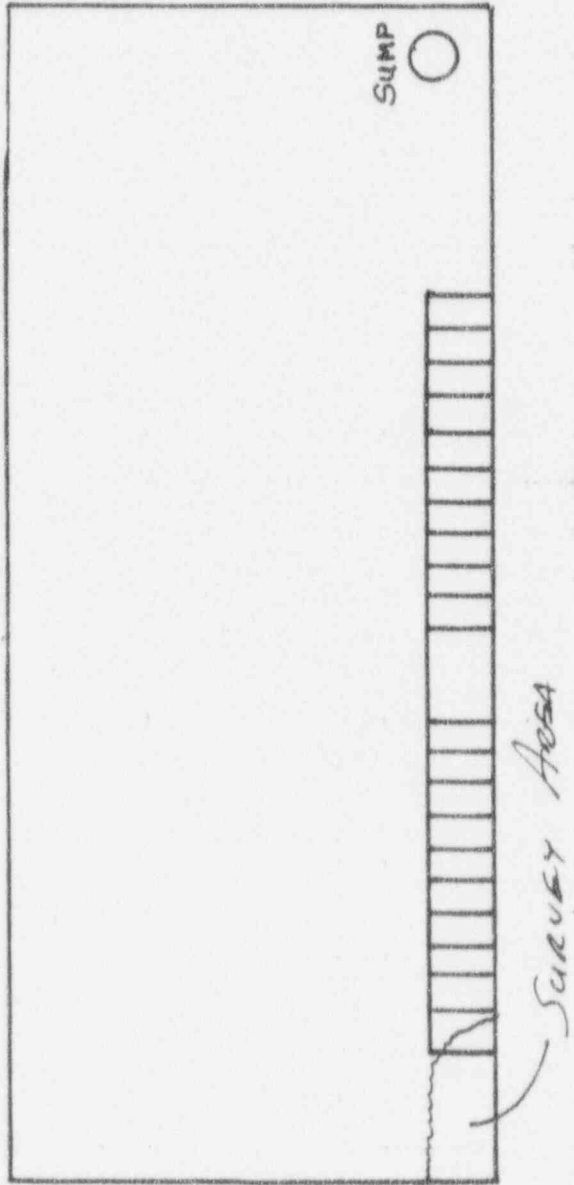
NORTH
←

BUILDING #9 FIRST FLOOR

NORTH
←



Building 9 Pit



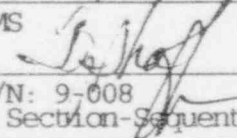
DECOMMISSIONING SURVEY SCAN DATA SHEET

IH & S FORM: SDS-REVO
LARGE SITE 12/92

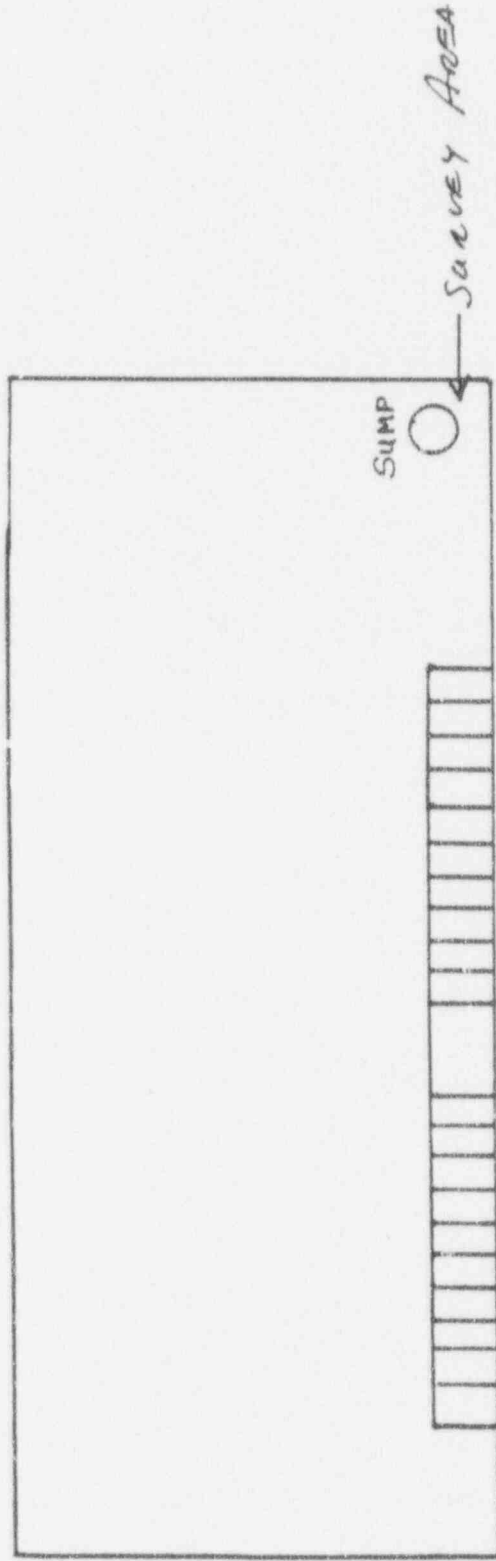
(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
*	ESP-2	1588-L	34.3%	173	2.91
ALPHA SURVEY EQUIPMENT					
*	ESP-2	1601-L	23.1%	1	4.33

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	33.5%		3.0
	FLOOR MON.	91943	28.8%		3.47
	E-520	5242	OOS	OOS	OOS
	E-520	5245	20.5%		4.87

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Concrete/Steel	100%	274	223	9-1-1	IV	Beta - Sump Area
" "	100%	13	9	9-1-1	IV	Alpha - Sump Area

REMARKS: SURVEY CLASSIFICATION (Group I, II, III, IV) (Install in column above)	LOCATION CODE DEFINED (Survey Sec - Unit - Subunit) (Install in column above)	SURVEYOR: TS/MS	SURVEY DATE: 3/10/93
		SIGNATURE: 	
		FORM S/N: 9-008 (Survey Section-Sequential #)	DISK FILE CODE: SDS-0027

Building 9 Pit



LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 6
(SURVEY SECTION 5)

MARCH 15, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #019

"OFFICIAL RECORD COPY"

ML 10

H 117646

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
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(SURVEY SECTION 5)

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FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 6
(SURVEY SECTION 5)

TABLE OF CONTENTS

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Analysis of Results	1
Current Status	2
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 Floor Scans	

FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 6
(Survey Section 5)

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 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

Survey information for the first floor of Building 6 (Survey Section 4) is documented in Report #017.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 6 on the site. Figure 2 presents the floor plan for the second floor of the building. This floor has been designated as Survey Section 5. (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. Survey Unit 1 (see Figure 2) is an office area which has no history of the use of radioactive material, but is adjacent to a prior vault. It was administratively decided to designate this office area as Class 3 rather than a lower classification. Survey Unit 2 is designated as a Class 4 area.

Appendices A and B incorporate all of the radiological survey data sheets for each of the two survey units. Tables 1 and 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 4 presents a summary of the statistical information.

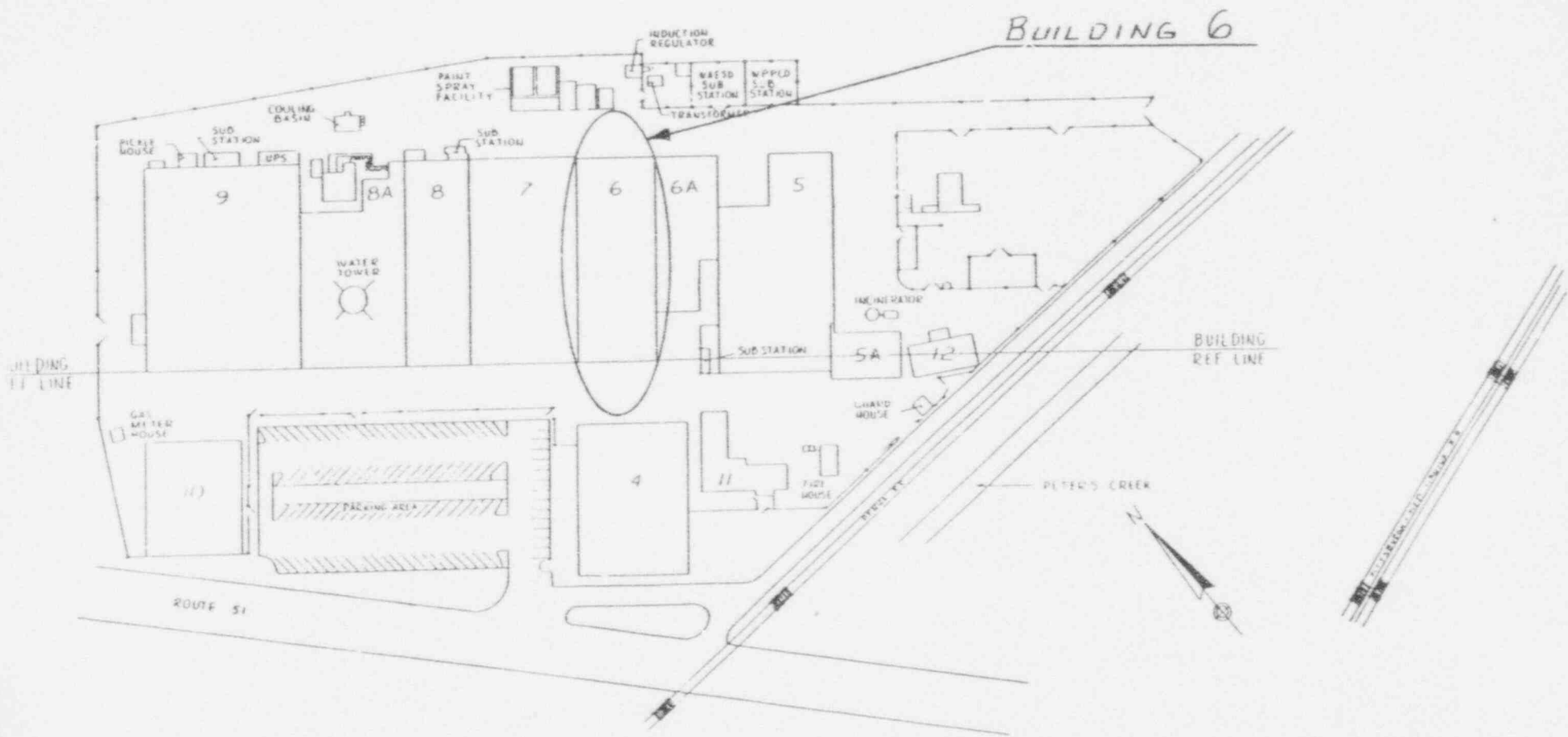
Floor scans of portions of each area were also conducted. Appendix C contains the radiological data survey sheets for these floor scans. Table 3 presents the results of the floor scan data in units directly comparable with the applicable acceptance criteria.

Current Status

Building 6 is an occupied area. It is anticipated that use of this building will continue throughout the project. No radioactive material is utilized and no such use is anticipated.

Conclusions

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



**FIGURE 1
 SITE PLOT PLAN**

SYMBOL		DESCRIPTION		PARTS LIST		SPECIFICATION	
UNLESS OTHERWISE SPECIFIED	CONTRACT OR	PARTS LIST		Reddinghouse Advanced (Energy) Systems Divs Portland, Portland			
STRAIGHTENED DIMS PER MILS PER MILS	STRAIGHTENED DIMS PER MILS PER MILS	STRAIGHTENED DIMS PER MILS PER MILS	STRAIGHTENED DIMS PER MILS PER MILS	VAE 50 LARGE PA			
TOLERANCES - DO NOT SCALE	TOLERANCES - DO NOT SCALE	TOLERANCES - DO NOT SCALE	TOLERANCES - DO NOT SCALE	D 14663 JNO 30			
SPCL DIMS	SPCL DIMS	SPCL DIMS	SPCL DIMS	SCALE BY DATE SHEET			
PHOSPHOR	TIN						
DWG CODE NO.							



FIGURE 2
FLOOR PLAN - BUILDING 6, SECOND FLOOR

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, SECOND FLOOR (SECTION 5, UNIT 1)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)		
?	?	?	REF POINT	CODE										
?	Floor	?	N/A	?	2, -2	5-1-1	12	0.010	15.2	-15.2	-1.1	-27.4	-0.15	-2.82
?	"	?	"	?	4, -2	5-1-1	12	0.010	64.6	-15.2	-10.2	-21.3	-0.15	-2.82
?	"	?	"	?	2, -4	5-1-1	12	0.010	60.1	22.8	10.2	-89.0	-0.15	-2.82
?	"	?	"	?	4, -4	5-1-1	11	0.010	-36.5	-53.2	6.8	-41.1	-0.15	9.39
?	"	?	"	?	2, -6	5-1-1	10	0.010	-41.8	-91.2	-15.8	-133.8	-0.15	-2.82
?	"	?	"	?	4, -6	5-1-1	10	0.010	-136.9	-167.3	1.1	-120.1	-0.15	3.10
?	Floor Front	?	"	?	2, -2	5-1-1	10	0.010	-57.8	-72.2	2.3	-125.5	-0.15	-2.82
?	"	?	"	?	2, -4	5-1-1	10	0.010	-17.5	-53.2	-5.6	-32.7	-0.15	-2.82
?	West Wall	?	"	?	4, -1.8	5-1-1			185.6	0.0	0.0	233.6	-0.15	-2.82
?	East Wall	?	"	?	6, -1.8	5-1-1			243.2	96.0	32.2	70.4	-0.15	-2.82
?	"I" Beam	?	6, 0	?	N/A	5-1-1			-96.0	-291.2	13.8	-153.6	-0.15	-2.82
?	Ceiling Beam	?	6, -5	?	"	5-1-1			-208.0	-323.2	-4.6	-112.0	-0.15	-2.82
?	"	?	6, -8	?	"	5-1-1			118.4	-131.2	4.6	-70.4	-0.15	-2.82
?	"	?	6, -10	?	"	5-1-1			-67.2	-131.2	-4.6	-102.4	-0.15	9.03
?	"I" Beam	?	2, -10	?	"	5-1-1			124.8	-35.2	9.2	-124.8	-0.15	-2.82
?	"	?	0, -8	?	"	5-1-1			204.8	-3.2	13.8	179.2	-0.15	9.03
?	Ceiling Beam	?	1, -5	?	"	5-1-1			166.4	-131.2	4.6	-131.2	-0.15	-2.82
?	"	?	1, -2	?	"	5-1-1			230.4	60.8	0.0	220.8	-0.15	-2.82
?	"	?	2, -5	?	"	5-1-1			86.4	-99.2	9.2	-86.4	-0.15	3.28
?	"	?	4, -5	?	"	5-1-1			-128.0	-259.2	-4.6	-76.8	-0.15	-2.82
?	Ceiling above Men's Room - Access Panel	?	"	?	"	5-1-1			-147.2	-227.2	9.2	-198.4	-0.15	-2.82
?	Tiled Concrete	?	1, -2	?	N/A	5-1-2	13	0.015	38.0	-22.8	5.6	-23.6	-0.15	-2.82
?	Floor	?	1, -6	?	"	5-1-2	18	0.011	98.8	15.2	-10.2	12.2	-0.15	9.03
?	"	?	1, -10	?	"	5-1-2	18	0.023	15.2	-38.0	14.7	-45.6	-0.15	3.28
?	"	?	1, -14	?	"	5-1-2	17	0.010	110.3	22.8	-6.8	13.7	-0.15	3.28
?	"	?	1, -18	?	"	5-1-2	16	0.018	98.8	-22.8	-16.9	-30.4	-0.15	9.39
?	"	?	1, -22	?	"	5-1-2	16	0.015	53.2	-3.8	-2.3	-7.6	-0.15	-2.82
?	"	?	1, -26	?	"	5-1-2	15	0.018	174.9	72.2	-10.2	63.9	-0.15	-2.82
?	"	?	1, -30	?	"	5-1-2	15	0.016	11.4	-30.4	-7.9	-25.9	-0.15	3.10
?	"	?	1, -34	?	"	5-1-2	12	0.016	-22.8	-60.8	-5.6	-25.1	-0.15	-2.82

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, SECOND FLOOR (SECTION 5, UNIT 1)

?	?	?	X, Y	LOCATION	?	?	?	?	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
									GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (mR/hr)	MAXIMUM BETA (dpm/100cm ²)	AVERAGE BETA (dpm/100cm ²)	ALPHA (dpm/100cm ²)	BETA (dpm/100cm ²)
?	?	?	REF POINT	CODE	?	?	?	?	?	?	?	?	?	?
?	"	?	1, -38	?	"	5-1-2	11	0.013	38.0	-7.6	-20.3	-98.8	-0.15	-2.82
?	"	?	1, -42	?	"	5-1-2	13	0.014	-3.8	-30.4	-11.3	-55.5	-0.15	-2.82
?	"	?	5, -42	?	"	5-1-2	14	0.013	-38.0	-91.2	5.6	-57.0	-0.15	3.10
?	"	?	3, -36	?	"	5-1-2	10	0.012	91.2	-60.8	0.0	-70.7	-0.15	-2.82
?	"	?	3, -38	?	"	5-1-2	11	0.011	-22.8	-68.4	5.6	-66.9	-0.15	-2.82
?	"	?	3, -12	?	"	5-1-2	10	0.015	-38.0	-98.8	-12.4	-103.4	-0.15	3.10
?	Tiled Concrete	?	5, -12	?	N/A	5-1-2	11	0.012	-60.8	114.1	-14.7	-120.1	-0.15	9.39
?	Floor	?	5, -8	?	"	5-1-2	11	0.012	-60.8	-79.8	-22.6	-89.0	-0.15	3.22
?	"	?	5, -6	?	"	5-1-2	11	0.020	-41.8	-98.8	0.0	-101.1	-0.15	-2.82
?	West Wall	?	2, -.2	?	"	5-1-2			355.2	176.0	13.8	179.2	-0.15	-2.82
?	in Hallway	?	4, -.3	?	"	5-1-2			124.8	80.0	0.0	33.6	-0.15	-2.82
?	"	?	8, -.3	?	"	5-1-2			147.2	48.0	-4.6	54.4	-0.15	-2.82
?	"	?	10, -.3	?	"	5-1-2			297.6	176.0	0.0	76.8	-0.15	-2.82
?	"	?	12, -.3	?	"	5-1-2			371.2	208.0	4.6	156.8	-0.15	3.28
?	"	?	16, -.2	?	"	5-1-2			275.2	80.0	0.0	156.8	-0.15	-2.82
?	"	?	20, -.2	?	"	5-1-2			224.0	176.0	0.0	275.2	8.05	-2.82
?	"	?	24, -.2	?	"	5-1-2			361.6	272.0	0.0	118.4	-0.15	-2.82
?	"	?	28, -.2	?	"	5-1-2			326.4	176.0	-4.6	294.4	-0.15	9.39
?	"	?	32, -.2	?	"	5-1-2			236.8	80.0	4.6	208.0	-0.15	-2.82
?	"	?	36, -.2	?	"	5-1-2			390.4	176.0	-9.2	246.4	-0.15	-2.82
?	"	?	40, -.2	?	"	5-1-2			284.8	208.0	4.6	233.6	-0.15	-2.82
?	Ceiling	?	6, -40	?	N/A	5-1-2			-179.2	-304.0	4.6	-243.2	-0.15	5.24
?	"	?	2, -30	?	"	5-1-2			-172.8	-240.0	18.4	-182.4	-0.15	3.10
?	"	?	2, -28	?	"	5-1-2			-121.6	-208.0	9.2	-169.6	-0.15	-2.82
?	"1" Beam	?	1, -30	?	"	5-1-2			-38.4	-144.0	4.6	-169.6	-0.15	-2.82
?	East Wall	?	14, +1.5	?	"	5-1-2			201.6	16.0	4.6	112.0	-0.15	3.10
?	"	?	16, +1.5	?	"	5-1-2			518.4	208.0	23.0	265.6	-0.15	-2.82
?	Ceiling	?	2, -26	?	"	5-1-2			-105.6	-176.0	4.6	-198.4	-0.15	3.10
?	"	?	0, -26	?	"	5-1-2			-54.4	-176.0	9.2	-131.2	-0.15	3.28
?	"	?	4, -28	?	"	5-1-2			-134.4	-224.0	0.0	-204.8	-0.15	3.28
?	South Wall	?	2, -1	?	N/A	5-1-3			-73.6	-163.2	9.2	22.4	-0.15	3.28

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, SECOND FLOOR (SECTION 5, UNIT 2)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)
?	SURFACE DESCRIPTION	GRID	REF	POINT	CODE							
?	West Wall	N/A	2, -1.7	5-2-1			355.0	238.6	13.0	180.4	-0.26	-2.49
?	"	"	4, -1.7	5-2-1			410.3	238.6	13.0	235.7	-0.26	-2.49
?	"	"	6, -1.7	5-2-1			579.1	267.7	0.0	133.9	-0.26	-2.49
?	"	"	8, -1.7	5-2-1			113.5	-52.4	0.0	270.6	-0.26	-2.49
?	"	"	10, -1.7	5-2-1			363.8	296.8	17.3	302.6	-0.26	3.59
?	"	"	12, -1.7	5-2-1			398.7	282.3	13.0	227.0	2.38	3.53
?	North Wall	"	2, -1.7	5-2-1			442.3	253.2	8.7	253.2	-0.26	3.59
?	"	"	4, -1.7	5-2-1			579.1	238.6	13.0	174.6	-0.26	-2.49
?	"	"	6, -1.7	5-2-1			320.1	282.3	-4.3	186.2	-0.26	-2.49
?	East Wall	"	2, -1.7	5-2-1			357.9	238.6	8.7	189.2	-0.26	3.59
?	"	"	4, -1.7	5-2-1			378.3	296.8	13.0	503.4	-0.26	-2.49
?	"	"	6, -1.7	5-2-1			518.0	456.9	8.7	157.1	-0.26	3.59
?	"	"	8, -1.7	5-2-1			375.4	296.8	-4.3	442.3	-0.26	3.59
?	"	"	10, -1.7	5-2-1			590.7	442.3	0.0	276.5	-0.26	-2.49
?	South Wall	"	2, -1.7	5-2-1			238.6	122.2	8.7	209.5	-0.26	-2.49
?	South Wall	N/A	4, -1.7	5-2-1			317.2	93.1	0.0	227.0	-0.26	3.59
?	"	"	6, -1.7	5-2-1			439.4	296.8	0.0	259.0	-0.26	-2.49
?	"	"	8, -1.7	5-2-1			701.3	282.3	17.3	186.2	-0.26	-2.49
?	"	"	10, -1.7	5-2-1			398.7	165.9	0.0	104.8	-0.26	3.41
?	"	"	12, -1.7	5-2-1			346.3	-52.4	43.3	288.1	-0.26	-2.49
?	Floor Tile	"	12, -3	5-2-1		8	1.6	-20.8	3.7	0.0	-0.26	3.41
?	"	"	8, -3	5-2-1		8	0.010	-20.8	0.0	-98.3	-0.26	-2.49
?	"	"	6, -2	5-2-1		8	0.010	24.0	-16.8	16.0	-0.26	3.41
?	"	"	3, -5	5-2-1		8	0.020	33.6	3.2	-4.9	-0.26	-2.49
?	"	"	3, -9	5-2-1		8	0.010	68.8	19.2	4.9	-0.26	5.53
?	"	"	1, -11	5-2-1		8	0.010	152.7	23.2	3.7	-0.26	-2.49
?	"	"	7, -6	5-2-1		7	0.020	-126.3	-136.7	-1.2	-0.26	-2.49
?	"	"	11, -6	5-2-1		7	0.010	-79.2	-116.7	-1.2	-0.26	3.59

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #6, SECOND FLOOR (SECTION 5, UNIT 2)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE								
?	"	?	9, -8	5-2-1	7	0.010	-47.2	-76.8	8.5	-69.6	-0.26	-2.49
?	"	?	5, -8	5-2-1	8	0.010	10.4	-16.8	2.4	-95.1	-0.26	7.54
?	West Wall	?	N/A	?	2, -1		171.7	-125.1	0.0	-5.8	-0.26	3.59
?	"	?	4, -1	5-2-1			384.1	253.2	4.3	5.8	-0.26	-2.49
?	"	?	10, -1	5-2-1			387.0	209.5	0.0	-75.7	-0.26	-2.49
?	"	?	12, -1	5-2-1			192.1	34.9	8.7	-37.8	7.51	-2.49
?	North Wall	?	2, -1	5-2-1			119.3	-52.4	4.3	17.5	-0.26	9.66
?	"	?	4, -1	5-2-1			695.5	-52.4	4.3	5.8	-0.26	-2.49
?	"	?	6, -1	5-2-1			340.5	93.1	8.7	0.0	15.28	-2.49
?	"	?	8, -1	5-2-1			369.6	209.5	8.7	-11.6	-0.26	-2.49
?	"	?	10, -1	5-2-1			253.2	180.4	-4.3	46.6	-0.26	-2.49
?	"	?	12, -1	5-2-1			78.6	-81.5	0.0	131.0	-0.26	3.41
?	East Wall	?	2, -1	5-2-1			445.2	325.9	8.7	407.4	-0.26	3.41
?	"	?	4, -1	5-2-1			561.6	413.2	4.3	474.3	7.51	3.41
?	"	?	6, -1	5-2-1			672.2	398.7	-4.3	558.7	-0.26	-2.49
?	"	?	8, -1	5-2-1			267.7	180.4	4.3	439.4	7.51	-2.49
?	"	?	10, -1	5-2-1			413.2	355.0	8.7	427.8	-0.26	3.59
?	South Wall	?	N/A	?	2, -1		72.8	-2.9	17.3	78.6	-0.26	-2.49
?	"	?	4, -1	5-2-1			197.9	113.5	0.0	49.5	7.51	-2.49
?	"	?	6, -1	5-2-1			331.7	244.4	4.3	-2.9	-0.26	-2.49
?	"	?	8, -1	5-2-1			325.9	-32.0	0.0	2.9	-0.26	-2.49
?	"	?	10, -1	5-2-1			131.0	-61.1	13.0	-2.9	-0.26	3.59
?	"	?	12, -1	5-2-1			119.3	-133.9	-4.3	-87.3	7.74	-2.49
?	Ceiling	?	1, -11	5-2-1			288.1	98.9	8.7	81.5	-0.26	-2.49
?	"	?	3, -11	5-2-1			215.3	84.4	13.0	-43.7	-0.26	-2.49
?	"	?	5, -11	5-2-1			113.5	-2.9	4.3	26.2	-0.26	-2.49
?	"	?	1, -9	5-2-1			55.3	11.6	0.0	-17.5	-0.26	-2.49
?	"	?	3, -9	5-2-1			69.8	-17.5	0.0	-81.5	-0.26	-2.49

TABLE 3

SUMMARY OF RADIOLOGICAL SCAN DATA, BUILDING 6, SECOND FLOOR

LOCATION CODE	SURFACE DESCRIPTION	EST % SCANNED	BETA SCAN SURVEY		ACCEPTANCE CRITERIA		UNITS	% OF ACCEPTANCE CRITERIA	
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE		MAXIMUM	AVERAGE
5-1-1	TILE	40%	133	38	15,000	5,900	DPM/100 cm ²	0.89%	0.76%
5-2-1	TILE ON CONCRETE	50%	193	72	15,000	5,000	DPM/100 cm ²	1.29%	1.44%
5-2-2	TILE	40%	133	38	15,000	5,000	DPM/100 cm ²	0.89%	0.76%

TABLE 4
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 5 - BUILDING 6, SECOND 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						
05 -1	26	10.000	18.000	12.650	2.570	MicroR/hour
05 -2	10	7.000	8.000	7.700	0.460	MicroR/hour
** Subtotal **	36					
** SURVEY TYPE = BETA/GAMMA DOSERATE ON CONTACT WITH SURFACE						
05 -1	26	0.010	0.023	0.013	0.004	MilliRem/hour
05 -2	10	0.010	0.020	0.012	0.004	MilliRem/hour
** Subtotal **	36					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
05 -1	74	-208.000	1820.800	126.900	320.700	DPM/100 cm ²
05 -2	60	-126.300	701.300	266.000	201.600	DPM/100 cm ²
** Subtotal **	134					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
05 -1	74	-323.200	1532.800	6.500	262.300	DPM/100 cm ²
05 -2	60	-136.700	456.900	115.500	163.000	DPM/100 cm ²
** Subtotal **	134					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
05 -1	74	-22.600	101.200	4.900	19.200	DPM/100 cm ²
05 -2	60	-4.900	43.300	4.800	7.900	DPM/100 cm ²
** Subtotal **	134					
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
05 -1	74	-243.200	998.400	39.100	227.300	DPM/100 cm ²
05 -2	60	-98.300	558.700	108.700	173.800	DPM/100 cm ²
** Subtotal **	134					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
05 -1	74	-0.150	8.050	-0.040	0.950	DPM/100 cm ²
05 -2	60	-0.260	15.280	0.690	2.880	DPM/100 cm ²
** Subtotal **	134					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
05 -1	74	-2.820	9.390	0.060	4.140	DPM/100 cm ²
05 -2	60	-2.490	9.660	-0.180	3.270	DPM/100 cm ²
** Subtotal **						

TABLE 4
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 5 - BUILDING 6, SECOND FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
*** Total ***	134					
	876					

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS FOR 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	.999	*	ESP2:1595-L	31.3%	3.20	150
	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	51	*	FLMON:91943	30.3%	3.3	1420

SURVEY DATE: 1/18/93
COUNT DATE: 1/26/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	12 uR/hr
	ES20: 5242	mr/hr
	ES20: 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	N/A	2, -2	12	.01	1440	1400	50	1384	-0.149	-2.82	Floor monitor used for
"	"	4, -2	12	.01	1505	1400	42	1392	-0.149	-2.82	scans & 1 min. counts
"	"	2, -4	12	.01	1499	1450	60	1303	-0.149	-2.82	"
"	"	4, -4	11	.01	1372	1350	57	1366	-0.149	9.39	"
"	"	2, -6	10	.01	1365	1300	37	1244	-0.149	-2.82	"
"	"	4, -6	10	.01	1240	1200	52	1262	-0.149	3.10	"
Floor Front	"	2, -2	10	.01	1344	1325	53	1255	-0.149	-2.82	"
"	"	2, -4	10	.01	1397	1350	46	1377	-0.149	-2.82	"
West Wall	"	4, -1.8	N/A	N/A	208	150	.999	223	-0.149	-2.82	ESP's used for scans &
East Wall	"	6, -1.8	"	"	226	180	8	172	-0.149	-2.82	one minute counts

FORM SERIAL #: 5-002 (Survey Section - Sequential survey #)	LOCATION # 5-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0193	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 1/23/93
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\050101.XLD
 Batch Ended: 1/23/93 8:05
 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

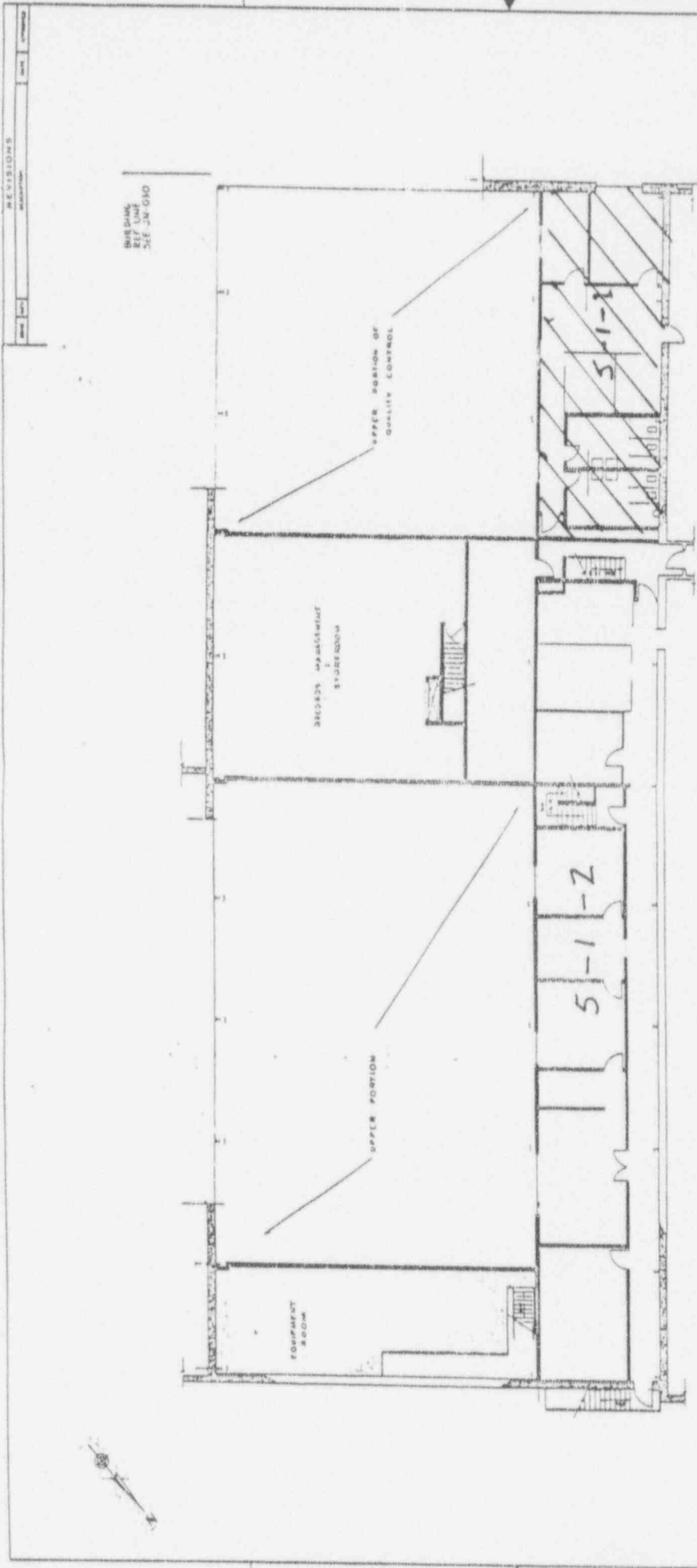
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 38.97%
 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: BLG.#6 SECOND FLOOR LJS

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 8:00
2	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 8:01
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 8:01
4	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/23/93 8:02
5	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 8:03
6	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/23/93 8:03
7	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 8:04
8	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/23/93 8:04
9	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 8:05
10	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/23/93 8:05



REVISIONS

NO.	DATE	DESCRIPTION

BUILDING REF LINE SEE JN 030

RECORD MANAGEMENT STORAGE ROOM

UPPER PORTION

LOWER PORTION OF QUALITY CONTROL

5-1-2

5-1-1

LEGEND

- BRICK
 - CONCRETE BLOCK EXT
 - CONCRETE BLOCK INT
 - DRYWALL & PANELING
- SCALE: FEET
-

MANUFACTURED BY: WESTINGHOUSE

DATE OF ISSUE: 5/70

PROJECT NO.: 14683

CONTRACT NO.: JN-013

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND INCHES TO THE NEAREST 1/8".

STANDARD - DO NOT SCALE

DRY WALL & PANELING

SCALE: FEET

0 5 10 15 20 25

WESTINGHOUSE ADVANCED Energy Systems Division

SECOND FLOOR

BUILDING NO. 6

W A E S D L A R G E P A

D 14683 JN-013 A

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	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			FLMON:91943	30.3%	3.3	

SURVEY DATE: 1/27/93
COUNT DATE: 1/27/93

(*)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	
"I" Beam	6, 0	N/A	N/A	N/A	171	110	5	153	-0.149	-2.82	ESP's used for scans
Ceiling Beam	6, -5	"	"	"	136	100	.999	166	-0.149	-2.82	& one minute counts
"	6, -8	"	"	"	238	160	3	179	-0.149	-2.82	"
"	6, -10	"	"	"	180	160	.999	169	-0.149	9.03	"
"I" Beam	2, -10	"	"	"	240	190	4	162	-0.149	-2.82	"
"	0, -8	"	"	"	265	200	5	257	-0.149	9.03	"
Ceiling Beam	1, -5	"	"	"	253	160	3	160	-0.149	-2.82	"
"	1, -2	"	"	"	273	220	2	270	-0.149	-2.82	"
"	2, -.5	"	"	"	228	170	4	174	-0.149	3.28	"
"	4, -.5	"	"	"	161	120	.999	177	-0.149	-2.82	"
Ceiling above Men's		"	"	"	155	130	4	139	-0.149	-2.82	
Room - Access Panel											

FORM SERIAL #: 5-004 (Survey Section - Sequential survey #)	LOCATION # 5-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0205	SURVEYOR SIGNATURE: MS-1B <i>D. Shaffner</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\050101UP.XLD
 Batch Ended: 1/24/93 10:40
 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

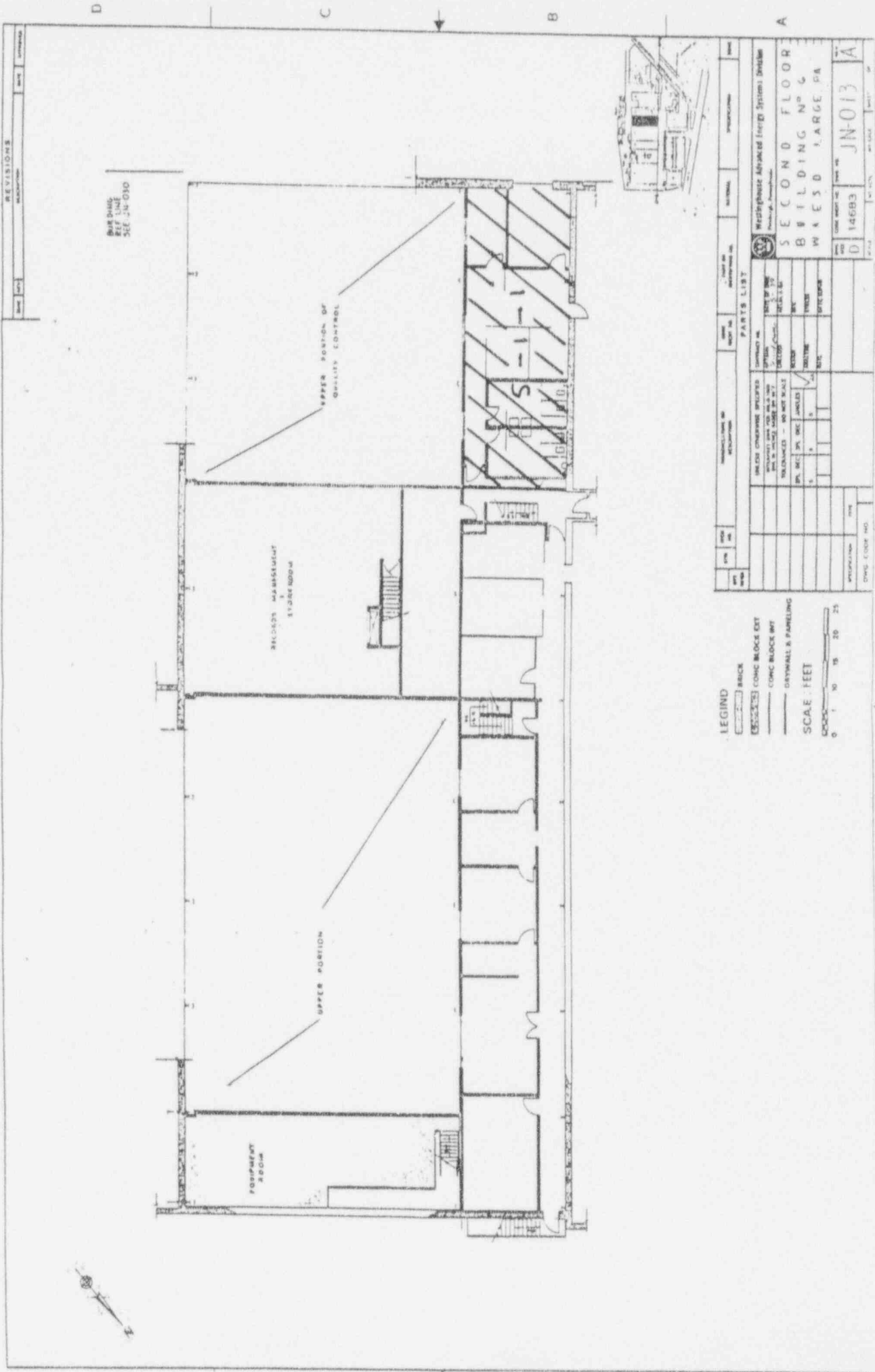
Application Revision: 2
 Application Version: Standard

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 - 5-1-1 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
23	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:35
24	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:35
25	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 10:36
26	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/24/93 10:37
27	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 10:37
28	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/24/93 10:38
29	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 10:38
30	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:39
31	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/24/93 10:39
32	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 10:40
33	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 10:40



REVISIONS	
NO.	DESCRIPTION

SEE DRAWING REF LINE SEE JAN-03-80

RELIGIOUS ADMINISTRATION STORAGE ROOM

UPPER PORTION OF QUALITY CONTROL

FOOTPRINT ROOM

LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] DISTHWALL & PANELING

SCALE: FEET
 0 1 5 10 15 20 25

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PARTS LIST	
NO.	DESCRIPTION

WELDER CERTIFICATE HELD BY	
NAME	EXPIRES

MATERIALS	
NO.	DESCRIPTION

GENERAL NOTES	

PROJECT INFORMATION	
PROJECT NO.	DATE

DRAWING INFORMATION	
TITLE	SCALE

DRAWING IDENTIFICATION	
PROJECT NO.	DATE

DRAWING IDENTIFICATION	
PROJECT NO.	DATE

SECOND FLOOR
BUILDING NO. 6
W A E D L A R G E P A

JN-013 A

DECOMMISSIONING FIELD DATA SHEET

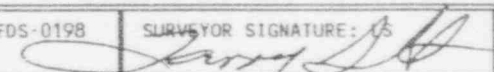
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2	*	ESP2:1595-L	31.3%	3.20	215
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	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	1430

SURVEY DATE: 1/26/92
COUNT DATE: 1/27/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	13 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.02 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	
Tiled Concrete	1, -2	N/A	13	.015	1480	1400	60	1399	-0.149	-2.82	Floor monitor used
Floor	1, -6	"	18	.011	1560	1450	46	1446	-0.149	9.03	for scans & 1 minute
"	1, -10	"	18	.023	1450	1380	68	1370	-0.149	3.28	counts
"	1, -14	"	17	.010	1575	1460	49	1448	-0.149	3.28	"
"	1, -18	"	16	.018	1560	1400	40	1390	-0.149	9.39	"
"	1, -22	"	16	.015	1500	1425	53	1420	-0.149	-2.82	"
"	1, -26	"	15	.018	1660	1525	46	1514	-0.149	-2.82	"
"	1, -30	"	15	.016	1445	1390	48	1396	-0.149	3.10	"
"	1, -34	"	12	.016	1400	1350	50	1397	-0.149	-2.82	"
"	1, -38	"	11	.013	1480	1420	37	1300	-0.149	-2.82	"
"	1, -42	"	13	.014	1425	1390	45	1357	-0.149	-2.82	"
"	5, -42	"	14	.013	1380	1310	60	1355	-0.149	3.10	"
"	3, -36	"	10	.012	1350	1350	55	1337	-0.149	-2.82	"
"	3, -38	"	11	.011	1400	1340	60	1342	-0.149	-2.82	"
"	3, -12	"	10	.015	1380	1300	44	1294	-0.149	3.10	"

FORM SERIAL #: 5-004 003 (Survey Section - Sequential survey #)	LOCATION # 5-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0198	SURVEYOR SIGNATURE: 
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DECOMMISSIONING FIELD DATA SHEET

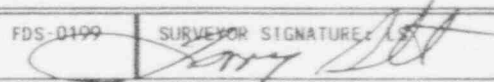
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	2	*	ESP2:1595-L	31.3%	3.20	215
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	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	1430

SURVEY DATE: 1/26/93
COUNT DATE: 1/27/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	13 uR/hr
	E520: 5242	mr/hr
	E520: 5245	mr/hr
*	ESP2: 1522	.02 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	
Tiled Concrete	5, -12	N/A	11	.012	1350	1280	42	1272	-0.149	9.39	Floor monitor used for
Floor	5, -8	"	11	.012	1350	1325	35	1313	-0.149	3.22	scans & 1 minute
"	5, -6	"	11	.020	1375	1300	55	1297	-0.149	-2.82	counts
West Wall	2, -.2	"	N/A	N/A	326	270	5	271	-0.149	-2.82	ESP's used for scans &
in Hallway	4, -.3	"	"	"	254	240	2	263	-0.149	-2.82	1 minute counts
"	8, -.3	"	"	"	261	230	.999	232	-0.149	-2.82	"
"	10, -.3	"	"	"	308	270	2	239	-0.149	-2.82	"
"	12, -.3	"	"	"	331	280	3	264	-0.149	3.28	"
"	16, -.2	"	"	"	301	240	2	264	-0.149	-2.82	"
"	20, -.2	"	"	"	285	270	2	301	8.048	-2.82	"
"	24, -.2	"	"	"	328	300	2	2-	-0.149	-2.82	"
"	28, -.2	"	"	"	317	270	.999	307	-0.149	9.39	"
"	32, -.2	"	"	"	289	240	3	280	-0.149	-2.82	"
"	36, -.2	"	"	"	337	270	0	292	-0.149	-2.82	"
"	40, -.2	"	"	"	304	280	3	288	-0.149	-2.82	"

FORM SERIAL #: 5-004 (Survey Section - Sequential survey #)	LOCATION # 5-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0199	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\050102.XLD
 Batch Ended: 1/27/93 11:58
 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): 1.401315/89

Batch ID: TSB - 5-1-2 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				
1	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:40
2	-0.149	1.35	<MDA	27.24	9.03	9.34	<MDA	35.16	0.34	-0.055	4.48	1/24/93 11:41
3	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/24/93 11:41
4	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/24/93 11:42
5	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/24/93 11:42
6	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:43
7	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:43
8	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/24/93 11:44
9	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:44
10	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:45
11	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:45
12	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/24/93 11:46
13	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	1.40	1/24/93 11:46
14	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:47
15	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/24/93 11:47
16	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/24/93 11:48
17	-0.149	0.79	<MDA	10.65	3.22	4.24	<MDA	16.60	1.00	-0.055	1.60	1/24/93 11:49
18	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:50
19	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:50
20	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:51
21	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:51
22	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:52
23	-0.149	1.37	<MDA	27.98	2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:52
24	-0.149	1.35	<MDA	27.24	2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:53
25	2.566	2.82	<AL	10.65	7.25	5.11	<AL	16.60	1.00	0.945	9.60	1/24/93 11:54

— survey not needed - TSB

1-27-93
 TSB

LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\EXL\UNIT1\050102.XLD
 Batch Ended: ~~1/24/93~~ 1-27-93 11:58
 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): 0.00263158

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

Batch ID: TSB - 5-1-2 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				
26	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/24/93 11:54
27	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:55
28	8.048	8.31	At AL	27.98	-2.82	4.19	<MDA	35.93	0.33	2.975	-1.40	1/24/93 11:55
29	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:56
30	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/24/93 11:56
31	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:57
32	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 11:57
33	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 11:58

1-27-93

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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	215
	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/ 27/93
COUNT DATE: 1/27/93

(*)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 i MIN.CT.		SMEAR LEVELS IN DPM/100cm2		COMMENT:
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	6, -40	N/A	N/A	N/A	159	120	.999	139	-0.149	5.24	
"	2, -30	"	"	"	161	140	4	158	-0.149	3.10	
"	2, -28	"	"	"	177	150	2	162	-0.149	-2.82	
"1" Beam	1, -30	"	"	"	203	170	.999	162	-0.149	-2.82	
East Wall	14, +1.5	"	"	"	278	220	.999	250	-0.149	3.10	
"	16, +1.5	"	"	"	377	280	5	298	-0.149	-2.82	
Ceiling	2, -26	"	"	"	182	160	.999	153	-0.149	3.10	
"	0, -26	"	"	"	198	160	2	174	-0.149	3.28	
"	4, -28	"	"	"	173	145	0	151	-0.149	3.28	

FORM SERIAL #: 5-006 (Survey Section - Sequential survey #)	LOCATION # 5-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0220	SURVEY SIGNATURE: <i>MS</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\050102UP.XLD
 Batch Ended: 1/27/93 16:11
 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

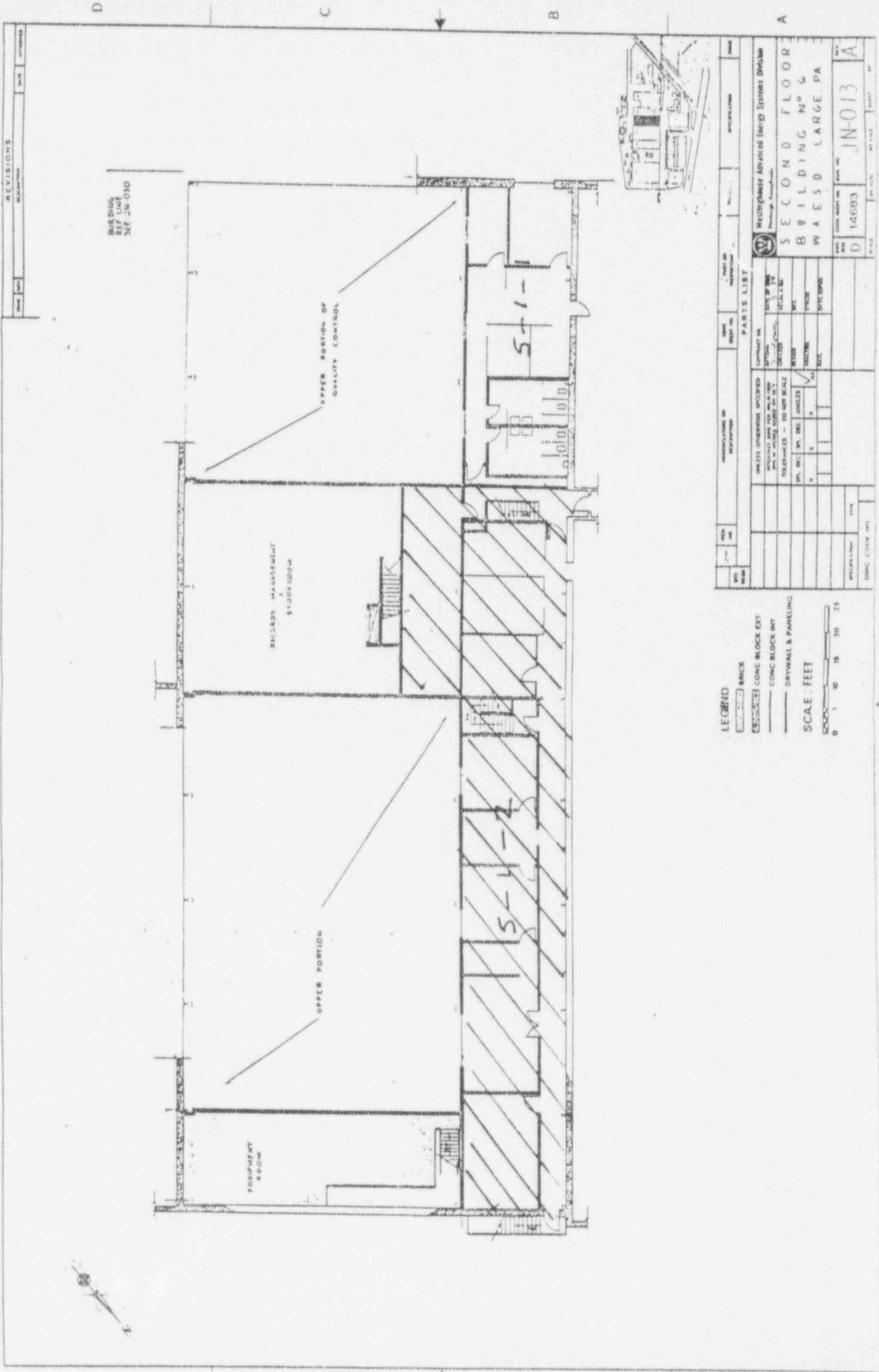
Application Revision: 2
 Application Version: Standard

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 - 5-1-2 upper surfaces

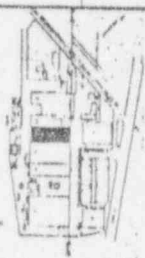
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.149	0.79	<MDA	10.65	5.24	4.70	<MDA	16.60	1.00	-0.055	2.60	1/27/93 16:07
2	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/27/93 16:08
3	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 16:08
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/27/93 16:09
5	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/27/93 16:09
6	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/27/93 16:10
7	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/27/93 16:10
8	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/27/93 16:11
9	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/27/93 16:11



REVISIONS

NO.	DATE	BY	DESCRIPTION

BUILDING
REF LINE
SEE JN-010



NO.	DATE	BY	DESCRIPTION

PARTS LIST	
QUANTITY	DESCRIPTION

WESTPHALEN ADVANCED BEERG SYSTEMS DIVISION	
SECOND FLOOR	
BUILDING NO. 6	
WAESD LARGE, PA	
DATE	BY
01/14/83	JN-013

LEGEND

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

SCALE - FEET

0 1 5 10 15 20 25

DECOMMISSIONING FIELD DATA SHEET

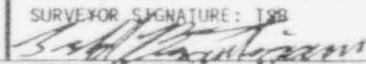
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	151
	ESP2:					ESP2:			
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	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: 1/27/93
COUNT DATE: 1/27/93

(*)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/100cm ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
South Wall	2, -1	N/A	N/A	N/A	128	100	3	158	-0.149	3.28	ESP's used for scans
West Wall	2, -1	"	"	"	143	110	2	168	-0.149	-2.82	and 1 minute counts
"	4, -1	"	"	"	159	120	.999	163	-0.149	-2.82	"
"	6, -1	"	"	"	141	100	5	179	-0.149	3.10	"
"	8, -1	"	"	"	210	180	2	168	-0.149	-2.82	"
"	10, -1	"	"	"	197	120	2	156	-0.149	-2.82	"
North Wall	2, -1	"	"	"	153	120	2	193	-0.149	3.10	"
East Wall	2, -1	"	"	"	153	140	2	156	-0.149	9.39	"
"	4, -1	"	"	"	240	160	4	174	-0.149	-2.82	"
"	6, -1	"	"	"	216	170	.999	159	-0.149	-2.82	"

FORM SERIAL #: 5-005 (Survey Section - Sequential survey #)	LOCATION # 5-1-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0206	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\050103UP.XLD
 Batch Ended: 1/24/93 10:34
 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

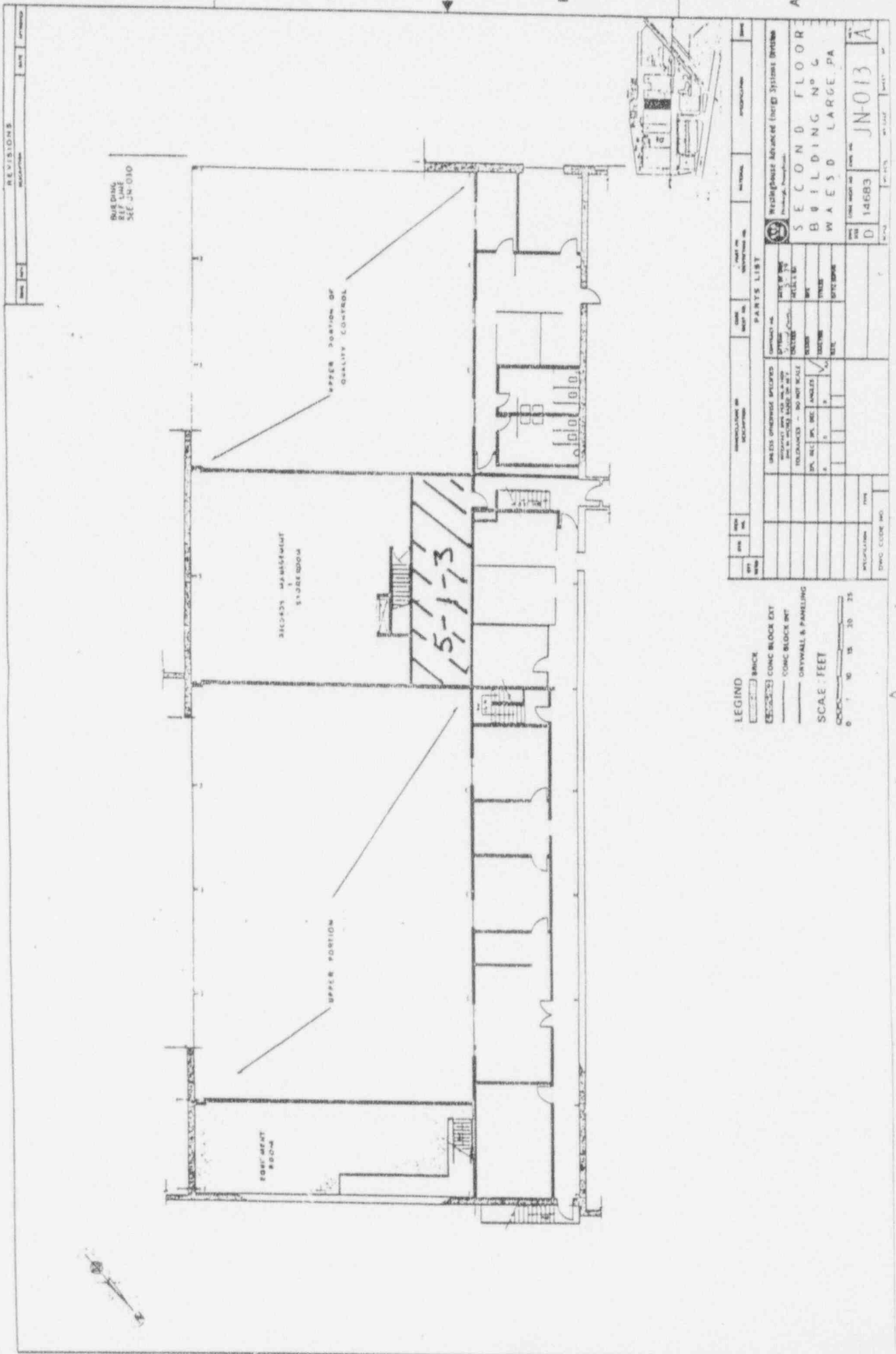
Alpha efficiency log file: po210ab
 Alpha Efficiency: 36.97%
 Alpha to Beta Crosstalk: 5.12%
 Alpha Background (CPM): 0.055263158

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

Batch ID: TSB - 5-1-3 upper surfaces

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	1/24/93 10:29
13	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:30
14	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:30
15	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/24/93 10:31
16	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 10:31
17	-0.149	1.35	<MDA	27.24	-2.82	4.13	<MDA	35.16	0.34	-0.055	-1.40	1/24/93 10:32
18	-0.149	1.35	<MDA	27.24	3.10	7.22	<MDA	35.16	0.34	-0.055	1.54	1/24/93 10:32
19	-0.149	1.37	<MDA	27.98	9.39	9.60	<MDA	35.93	0.33	-0.055	4.66	1/24/93 10:33
20	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:33
21	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:34
22	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/24/93 10:34

SURVEY POINT NOT NEEDED



REVISIONS

NO.	DATE	DESCRIPTION

BUILDING REF LINE SEE JN-010

UPPER PORTION OF QUALITY CONTROL

CORC MANAGEMENT STORAGE ROOM

5-1-3

UPPER PORTION

CORC MEAT ROOM

LEGEND

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

SCALE: FEET
0 10 20 25

PARTS LIST

NO.	DESCRIPTION	QTY	UNIT	REMARKS

Westinghouse Advanced Energy Systems Division
 SECOND FLOOR BUILDING NO. 6
 WAESD LARGE, PA
 DRAWING NO. JN-013
 DATE: 14683
 DRAWN BY: D
 CHECKED BY: A

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	215
	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: 1/27/93
COUNT DATE: 1/29/93

(*)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	17.0%	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	
Inside Ventillation	East Wall	#1	N/A	N/A	233	170	.999	174	-0.149	-2.82	In 5-1-1
"	West Wall	#1	"	"	312	280	11	414	-0.149	3.28	In 5-1-2
"	"	#2	"	"	695	500	21	463	-0.149	-2.82	"
"	"	#3	"	"	720	630	22	462	-0.149	-2.82	"

FORM SERIAL #: 5-007 (Survey Section - Sequential survey #)	LOCATION # 5-1-X (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0221	SURVEYOR SIGNATURE: TB/MS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 1/29/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\BLDG6VNT.XLD
 Batch Ended: 1/29/93 12:51
 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 - Bldg 6 ventilation internals

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	1/29/93 12:49
2	-0.149	1.37	<MDA	27.98	3.28	7.41	<MDA	35.93	0.33	-0.055	1.63	1/29/93 12:50
3	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/29/93 12:50
4	-0.149	1.37	<MDA	27.98	-2.82	4.19	<MDA	35.93	0.33	-0.055	-1.40	1/29/93 12:51

LB5100W Low Background Counting System -- Smear Analysis

Date: 1/27/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\VENTDUST.XLD
 Batch Ended: 1/27/93 16:13
 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

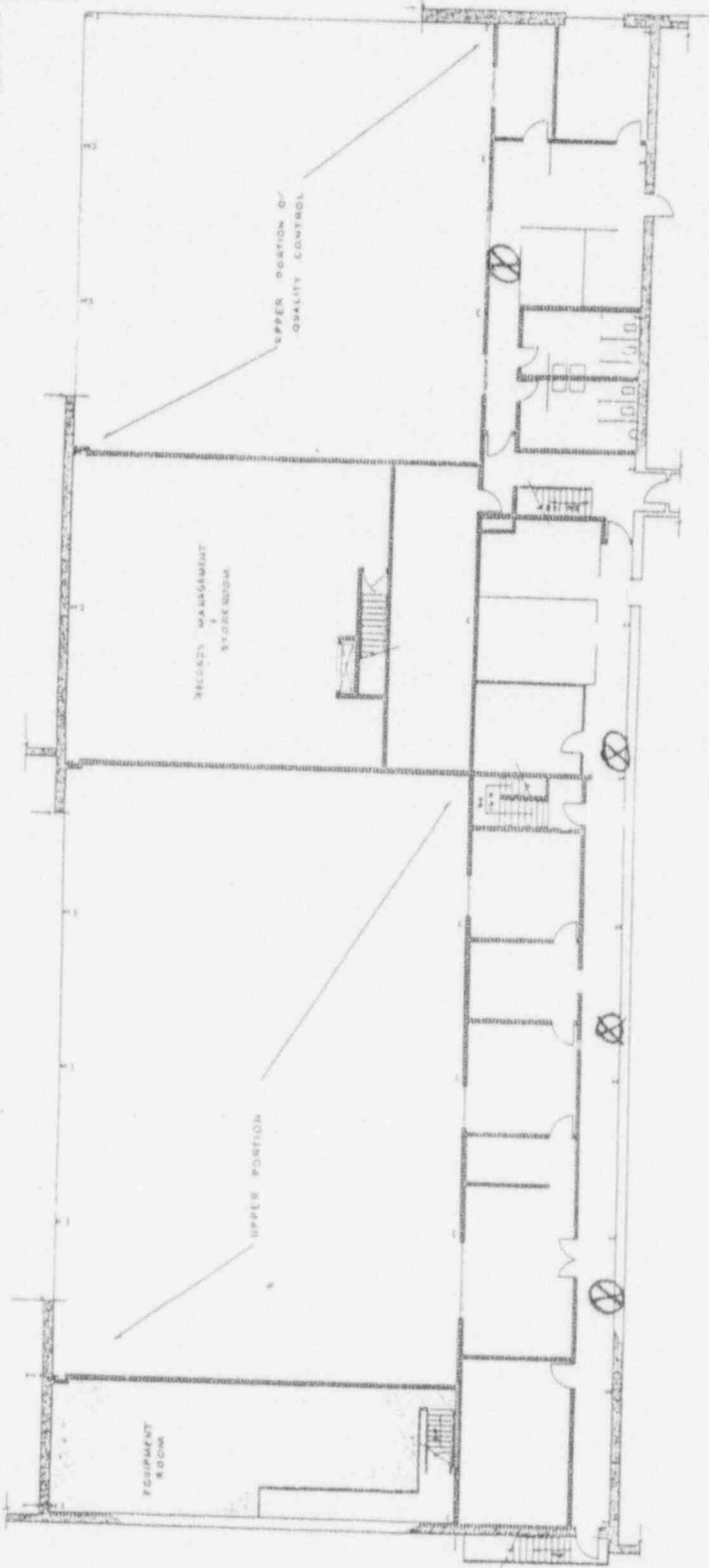
Application Revision: 2
 Application Version: Standard

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 - ventilation dust from 5-1-2

Carrier	Alpha Activity				Beta Activity				Count Time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
10	21.492	7.70	AL AL	10.65	347.72	27.21	>AL	16.60	1.00	7.945	172.60	1/27/93 16:13

BUILDING LEFT LIMIT
SEE JN-030

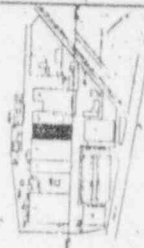


RECORDS MANAGEMENT
STORAGE ROOM

UPPER PORTION OF
QUALITY CONTROL

EQUIPMENT
ROOM

UPPER PORTION



LEGEND
 [Symbol] BRICK
 [Symbol] CONC BLOCK EXT
 [Symbol] CONC BLOCK INT
 [Symbol] DRYWALL & PANELING
 SCALE: FEET
 0 1 2 3 4 5 6 7 8

REV	DATE	DESCRIPTION	BY	CHKD

CONTRACT NO.	DATE OF THE CONTRACT	DATE OF THE ORDER	DATE OF THE DELIVERY

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL

CONTRACT NO.	DATE OF THE CONTRACT	DATE OF THE ORDER	DATE OF THE DELIVERY

CONTRACT NO.	DATE OF THE CONTRACT	DATE OF THE ORDER	DATE OF THE DELIVERY

CONTRACT NO.	DATE OF THE CONTRACT	DATE OF THE ORDER	DATE OF THE DELIVERY

CONTRACT NO.	DATE OF THE CONTRACT	DATE OF THE ORDER	DATE OF THE DELIVERY

⊗ = VENTILATION SURVEY POINTS

Recticore Advanced Energy Systems Division
 SECOND FLOOR
 BUILDING No 6
 WAESD LARGE PA
 D 14683 JN-013 A
 SCALE 2 3 4 5 6 7 8
 1 2 3 4 5 6 7 8

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%	4.60			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	243
	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	18.8%	5.3	7	*	FLMON:91943	28.8%	3.47	1196

SURVEY DATE: 3/9/93
COUNT DATE: 3/9/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
West Wall	N/A	2, -1.7	N/A	N/A	365	325	4	305	-0.264	-2.49	Block
"	"	4, -1.7	"	"	384	325	4	324	-0.264	-2.49	"
"	"	6, -1.7	"	"	442	335	1	289	-0.264	-2.49	"
"	"	8, -1.7	"	"	282	225	1	336	-0.264	-2.49	"
"	"	10, -1.7	"	"	368	345	5	347	-0.264	3.59	"
"	"	12, -1.7	"	"	380	340	4	321	2.378	3.53	"
North Wall	"	2, -1.7	"	"	395	330	3	330	-0.264	3.59	"
"	"	4, -1.7	"	"	442	325	4	303	-0.264	-2.49	"
"	"	6, -1.7	"	"	353	340	0	307	-0.264	-2.49	"
East Wall	"	2, -1.7	"	"	366	325	3	308	-0.264	3.59	Brick
"	"	4, -1.7	"	"	373	345	4	416	-0.264	-2.49	"
"	"	6, -1.7	"	"	421	400	3	297	-0.264	3.59	"
"	"	8, -1.7	"	"	372	345	0	395	-0.264	3.59	"
"	"	10, -1.7	"	"	446	395	1	338	-0.264	-2.49	"
South Wall	"	2, -1.7	"	"	325	285	3	315	-0.264	-2.49	Block

FORM SERIAL #: 5-008 (Survey Section - Sequential survey #)	LOCATION # 5-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0321	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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	243
	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	18.8%	5.3	7	*	FLMON:91943	28.8%	3.47	1196

SURVEY DATE: 3/9/93
COUNT DATE: 3/9/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
South Wall	N/A	4, -1.7	N/A	N/A	352	275	1	321	-0.264	3.59	Block
"	"	6, -1.7	"	"	394	345	1	332	-0.264	-2.49	"
"	"	8, -1.7	"	"	484	340	5	307	-0.264	-2.49	"
"	"	10, -1.7	"	"	380	300	1	279	-0.264	3.41	"
"	"	12, -1.7	"	"	362	225	11	342	-0.264	-2.49	"
Floor Tile	"	12, -3	8	.01	1198	1170	10	1196	-0.264	3.41	Floor Monitor
"	"	8, -3	8	.01	1170	1150	7	1073	-0.264	-2.49	"
"	"	6, -2	8	.01	1226	1175	4	1216	-0.264	3.41	"
"	"	3, -5	8	.02	1238	1200	3	1181	-0.264	-2.49	"
"	"	3, -9	8	.01	1282	1220	11	1106	-0.264	5.53	"
"	"	1, -11	8	.01	1387	1225	10	1225	-0.264	-2.49	"
"	"	7, -6	7	.02	1038	1025	6	1094	-0.264	-2.49	"
"	"	11, -6	7	.01	1097	1050	6	1116	-0.264	3.59	"
"	"	9, -8	7	.01	1137	1100	14	1109	-0.264	-2.49	"
"	"	5, -8	8	.01	1209	1175	9	1077	-0.264	7.54	"

FORM SERIAL #: 5-008 (Survey Section - Sequential survey #)	LOCATION # 5-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0522	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency log file: po210lab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

Alpha activity action level (DPM): 10.00

Beta activity action level (DPM): 200.00

Countability level for MDA and Raqs: 95.00%

High Voltage Setting: 14.35

Beta efficiency log file: es137lab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

Application Version: Standard

Batch ID: TSE: 5.7.1 floor and walls

Count	Alpha Activity			Beta Activity			Count Time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	Flags	MDA	DPM	σ				
1	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	369.93 15.14
2	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	369.93 15.15
3	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	369.93 15.15
4	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	369.93 15.16
5	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	1.79	369.93 15.16
6	2.378	2.80	<AL	11.27	3.53	4.14	<MDA	15.88	1.76	369.93 15.17
7	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	1.79	369.93 15.18
8	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	369.93 15.19
9	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	369.93 15.19
10	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	1.79	369.93 15.20
11	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	369.93 15.20
12	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	1.79	369.93 15.21
13	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	1.79	369.93 15.21
14	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	369.93 15.22
15	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	369.93 15.22
16	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	1.79	369.93 15.23
17	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	369.93 15.23
18	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	369.93 15.24
19	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	1.70	369.93 15.24
20	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	369.93 15.25
21	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	1.70	369.93 15.25
22	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	369.93 15.26
23	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	1.70	369.93 15.26
24	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	369.93 15.27
25	0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	2.70	369.93 15.28

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/9/93
 Counting Unit id: 1
 Data file name: C:\LBX\AUNH11050201.XLD
 Batch Ended: 3/9/93 15:32
 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: 1435

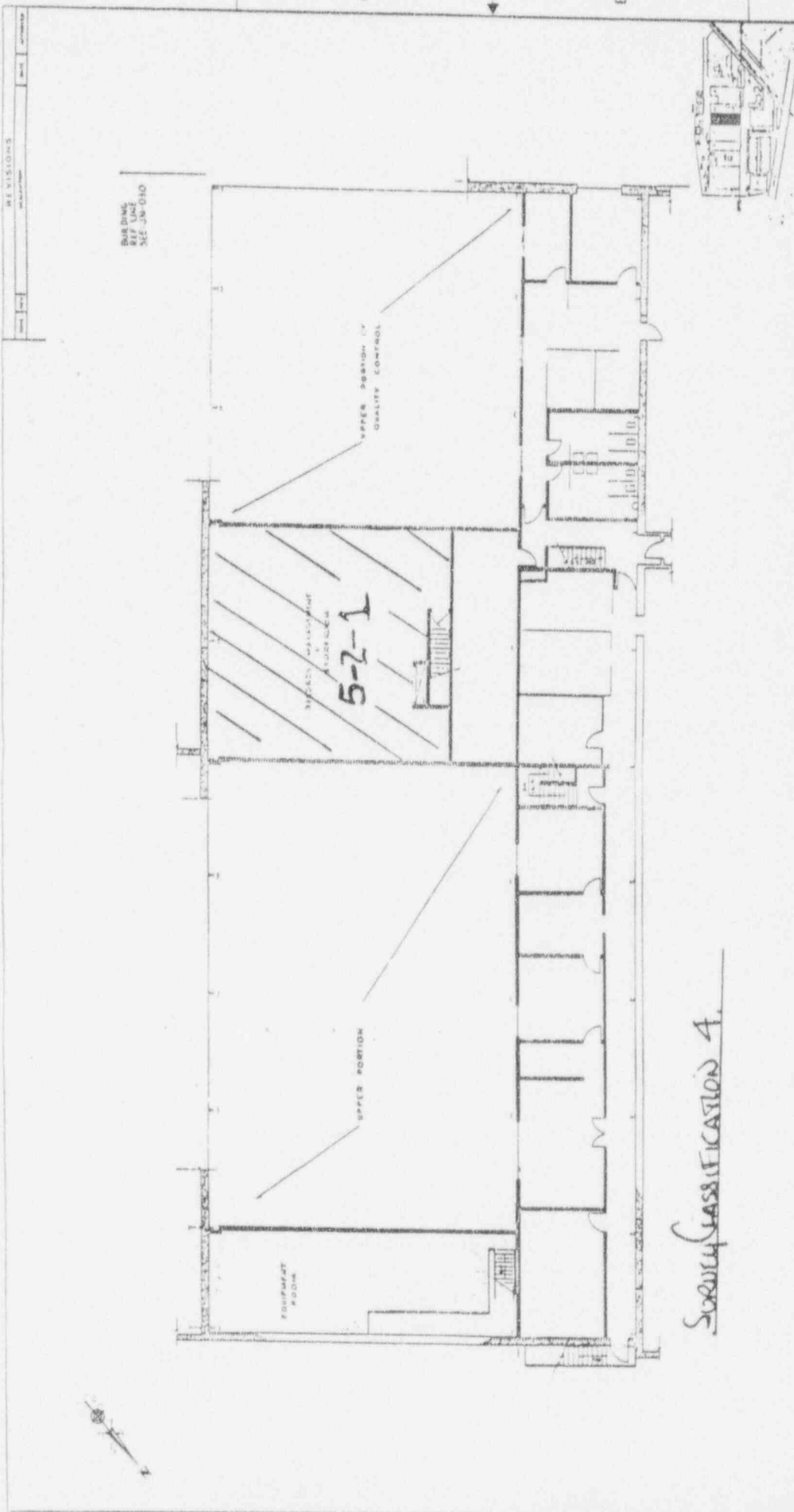
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: es137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 5-2-1 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	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/9/93 15:28
27	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:29
28	0.264	1.63	<MDA	28.84	3.50	7.24	<MDA	34.63	0.33	0.100	1.79	3/9/93 15:29
29	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:30
30	0.264	0.93	<MDA	11.27	7.54	5.02	<AL	15.88	1.00	0.100	3.76	3/9/93 15:31
31	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/9/93 15:32
32	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:32

SURVEY POINTS NOT NEEDED MTS 3/9



Security Classification 4

LEGEND
 [Symbol] 2 INCH
 [Symbol] CORR. BLOCK EXT
 [Symbol] CORR & VICE MFT
 [Symbol] DRYWALL & PANELING
 SCALE: FEET
 0 1 10 15 20 25

SYMBOL	DESCRIPTION
[Symbol]	WELDED OVERHEAD STRUCTURE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL)
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 50 AND 60 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 10 AND 15 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 20 AND 25 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 30 AND 35 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 40 AND 45 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 50 AND 55 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 60 AND 65 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 70 AND 75 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 80 AND 85 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 90 AND 95 SCALE
[Symbol]	WELDED OVERHEAD STRUCTURE (PARTIAL) - 100 AND 105 SCALE

DATE	NO. OF SHEETS	TOTAL NO. OF SHEETS	PROJECT NO.	DESCRIPTION
PARTS LIST				
ITEM NO.	DESCRIPTION	QTY.	UNIT	REMARKS
REVISIONS				
NO.	DESCRIPTION	DATE	BY	CHECKED
WEST: POWER MANAGEMENT Energy Systems Division SECOND FLOOR BUILDING NO 6 WAE SD LARGE PA DRAWING NO: JN013 SCALE: 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	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	243
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/9/93
COUNT DATE: 3/9/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
	PRM7: 234	uK/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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.5%	5.92	

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	N/A	2, -1	N/A	N/A	302	200	1	241	-0.264	3.59	Block
"	"	4, -1	"	"	375	330	2	245	-0.264	-2.49	"
"	"	10, -1	"	"	376	315	1	217	-0.264	-2.49	"
"	"	12, -1	"	"	309	255	3	230	7.506	-2.49	"
North Wall	"	2, -1	"	"	284	225	2	249	-0.264	9.66	"
"	"	4, -1	"	"	482	225	2	245	-0.264	-2.49	"
"	"	6, -1	"	"	360	275	3	243	15.276	-2.49	"
"	"	8, -1	"	"	370	315	3	239	-0.264	-2.49	"
"	"	10, -1	"	"	330	305	0	259	-0.264	-2.49	"
"	"	12, -1	"	"	270	215	1	288	-0.264	3.41	"
East Wall	"	2, -1	"	"	396	355	3	383	-0.264	3.41	Brick
"	"	4, -1	"	"	436	385	2	406	7.506	3.41	"
"	"	6, -1	"	"	474	380	0	435	-0.264	-2.49	"
"	"	8, -1	"	"	335	305	2	394	7.506	-2.49	"
"	"	10, -1	"	"	385	365	3	390	-0.264	3.59	"

FORM SERIAL #: 5-009 (Survey Section - Sequential survey #)	LOCATION # 5-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0323	SURVEYOR SIGNATURE: <i>TSMS</i> <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			ESP2:1595-L	31.3%	3.20	
*	ESP2:1601-L	23.1%	4.33	1	*	ESP2:1588-L	34.3%	2.91	246
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/9/93
 COUNT DATE: 3/9/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
South Wall	N/A	2, -1	N/A	N/A	271	245	5	273	-0.264	-2.49	Block
"	"	4, -1	"	"	314	285	1	263	7.506	-2.49	"
"	"	6, -1	"	"	360	330	2	245	-0.264	-2.49	"
"	"	8, -1	"	"	358	235	1	247	-0.264	-2.49	"
"	"	10, -1	"	"	291	225	4	245	-0.264	3.59	"
"	"	12, -1	"	"	287	200	0	216	7.741	-2.49	"
Ceiling	"	1, -11	"	"	345	280	3	274	-0.264	-2.49	Steel
"	"	3, -11	"	"	320	275	4	231	-0.264	-2.49	"
"	"	5, -11	"	"	285	245	2	255	-0.264	-2.49	"
"	"	1, -9	"	"	265	250	1	240	-0.264	-2.49	"
"	"	3, -9	"	"	270	240	1	218	-0.264	-2.49	"
"	"	3, -7	"	"	268	235	0	225	-0.264	-2.49	"
"	"	5, -6	"	"	315	260	0	233	-0.264	3.41	"
"	"	3, -5	"	"	308	255	1	221	-0.264	-2.49	"
"	"	3, -3	"	"	247	225	1	230	-0.264	-2.49	"

FORM SERIAL #: 5-009
 (Survey Section - Sequential survey #)

LOCATION # 5-2-1-
 (Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: IV
 (Group I, II, III, IV)

DISK FILE CODE: FDS-0524

SURVEYOR SIGNATURE: TS/MS

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/9/93
 Counting Unit id: 1
 Data file name: C:\EXL\UNIT1\050201087.X1.D
 Batch Ended: 3/9/93 15:59
 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: 143-

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 5-2 Upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	α	flags	MDA	DPM	α	flags	MDA				
1	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/9/93 15:44
2	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/9/93 15:45
3	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:45
4	7.506	7.94	At AL	28.10	2.49	3.87	<MDA	33.88	0.34	2.841	1.24	3/9/93 15:46
5	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	0.100	4.82	3/9/93 15:46
6	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:47
7	15.276	11.11	At AL	28.10	2.49	3.87	<MDA	33.88	0.34	5.782	1.24	3/9/93 15:47
8	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:48
9	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/9/93 15:48
10	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/9/93 15:49
11	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/9/93 15:49
12	7.506	7.94	At AL	28.10	3.41	7.06	<MDA	33.88	0.34	2.841	1.70	3/9/93 15:50
13	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:50
14	7.506	7.94	At AL	28.10	2.49	3.87	<MDA	33.88	0.34	2.841	1.24	3/9/93 15:51
15	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/9/93 15:51
16	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:52
17	7.506	7.94	At AL	28.10	2.49	3.87	<MDA	33.88	0.34	2.841	1.24	3/9/93 15:52
18	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/9/93 15:53
19	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:54
20	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/9/93 15:54
21	7.741	8.17	At AL	28.84	2.49	3.93	<MDA	34.63	0.33	2.930	1.24	3/9/93 15:55
22	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:55
23	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:56
24	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/9/93 15:56
25	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/9/93 15:57

LB5100W Low Background Counting System – Smear Analysis

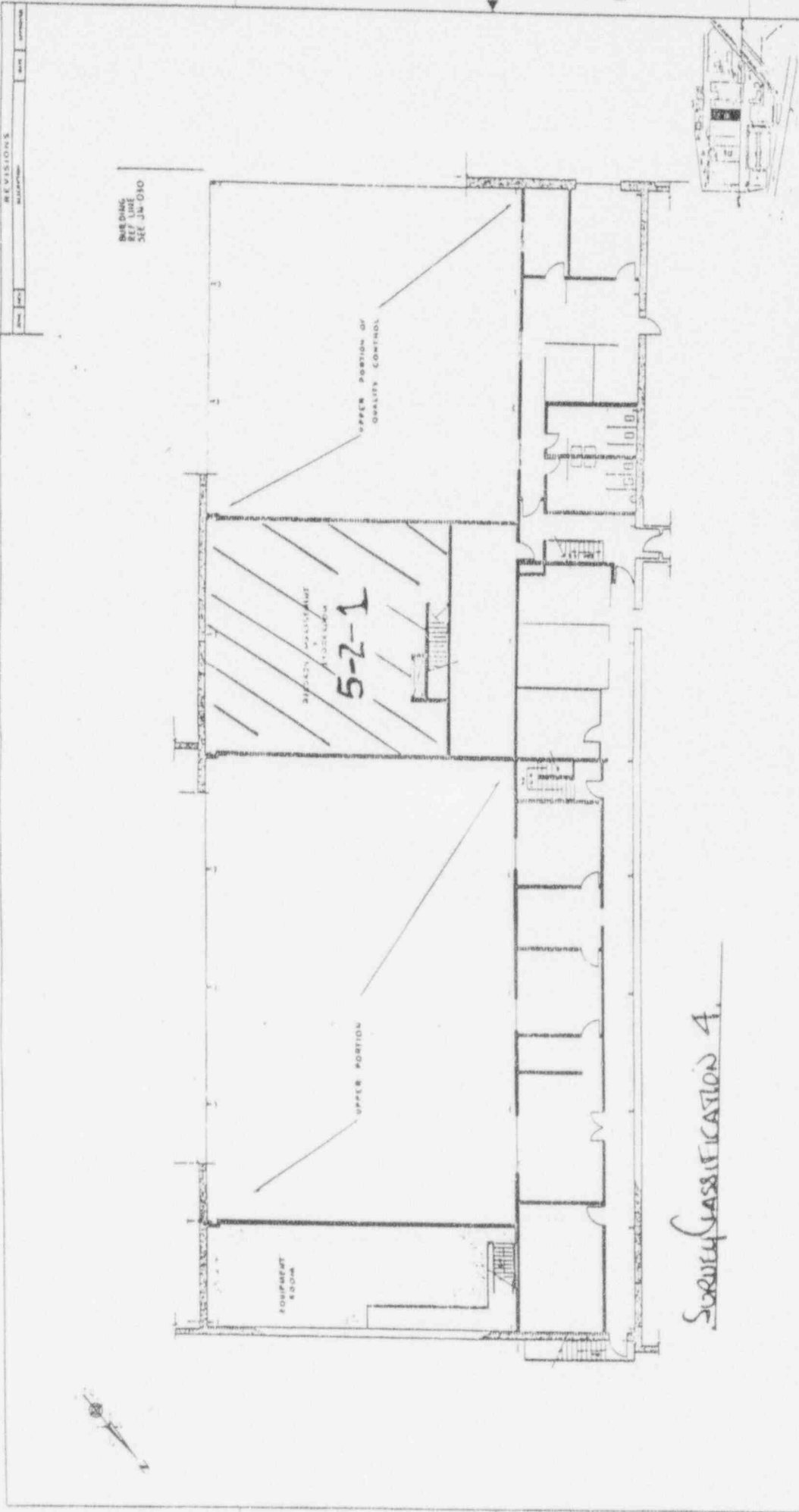
Date: 3/9/93
 Counting Unit id: 1
 Data file name: C:\EXL\MUNIT\1050201UP.XLD
 Batch Ended: 3/9/93 15:59
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainty level for MDA and flags: 9: 00%
 High Voltage Setting: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 5-2-1 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	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/9/93 15:57
27	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/9/93 15:58
28	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/9/93 15:58
29	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/9/93 15:59
30	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/9/93 15:59



REVISIONS

BUILDING REF LINE SEE JM-010

EQUIPMENT ROOM

5-2-1

UPPER PORTION

UPPER PORTION OF QUALITY CONTROL

Specification 4.

- LEGEND**
- BRICK
 - CONCRETE BLOCK EXT
 - CONCRETE BLOCK INT
 - DAYWALL & PANELING
- SCALE FEET**
- 0 1 5 10 20 25

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PARTS LIST

QTY	DESCRIPTION	UNIT	PRICE	TOTAL

UNLESS OTHERWISE SPECIFIED

CONCRETE BLOCK - 12" x 8" x 8" (SEE SPEC)

BRICK - 8" x 8" x 16" (SEE SPEC)

DAYWALL & PANELING - 1/2" (SEE SPEC)

SCALE FEET

0 1 5 10 20 25

WESTINGHOUSE Advanced Energy Systems Division
 SECOND FLOOR
 BUILDING NO. 6
 WALSLED LARGE, PA

JN-013 A

APPENDIX C

RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR SCANS

(*) 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	1350	3.3
	E-520	5242	20.3%		4.9
	E-520	5245	00S	00S	00S

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS	
		MAXIMUM	AVERAGE				
Tile	40%	1525	1400	5-1-1	III		
"	40%	1525	1400	5-2-2	III		
REMARKS: SURVEY CLASSIFICATION (Group I, II, III, IV) (Install in column above)		LOCATION CODE DEFINED (Survey Sec - Unit - Subunit) (Install in column above)			SURVEYOR: TS SIGNATURE: <i>[Signature]</i> FORM S/N: 5-001 (Survey Section-Sequential #)		SURVEY DATE: 1/25/93 DISK FILE CODE: SDS-0020

REVISIONS	
NO.	DESCRIPTION

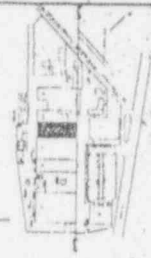
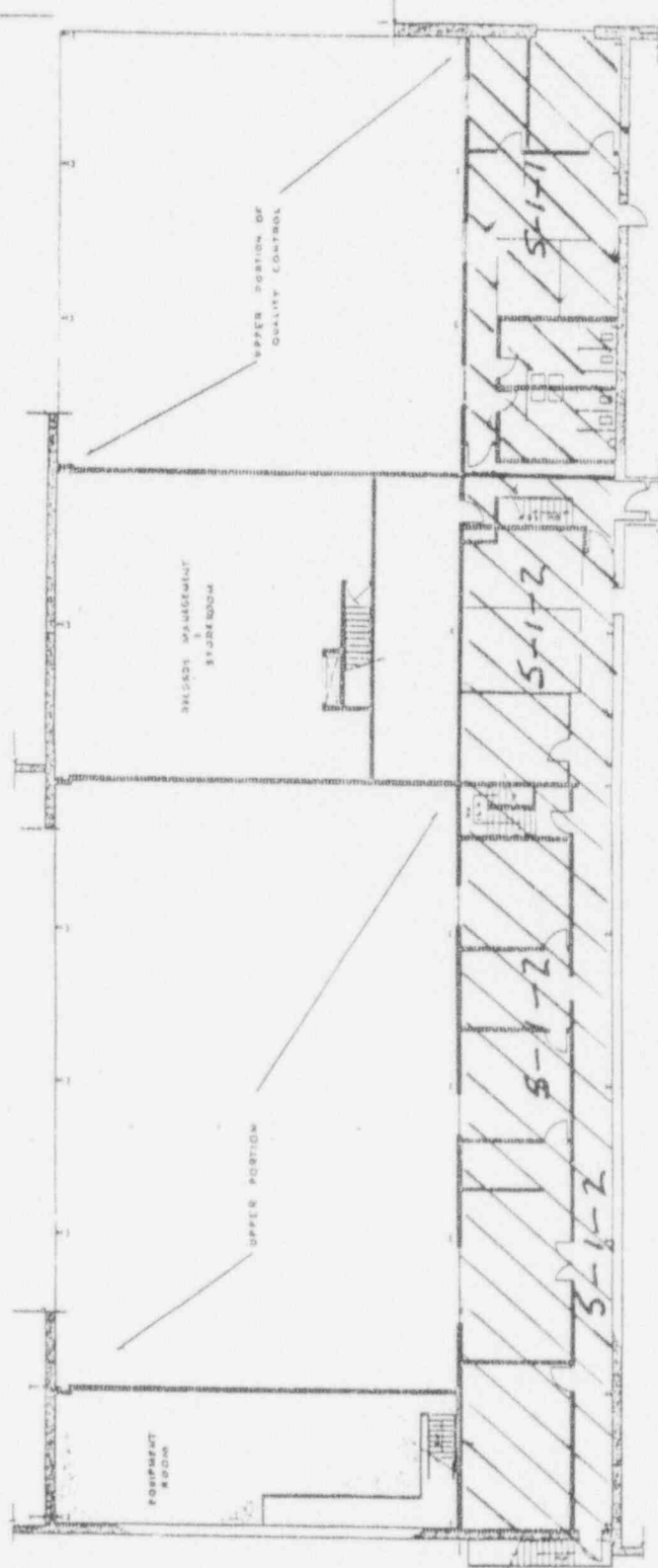
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BUILDING
ELEV LIMIT
SEE JN-010



REV	DATE	DESCRIPTION	BY	CHECKED	DATE	DESCRIPTION	BY	CHECKED	DATE

MANUFACTURING AND RESEARCH		PARTS LIST	
QTY	DESCRIPTION	QTY	DESCRIPTION

UNLESS OTHERWISE SPECIFIED	
CONCRETE	STEEL

TOLERANCES - 30 MIN SCALE	
FIN. DIM.	INT. DIM.

SCALE: FEET	
0	5

LEGEND

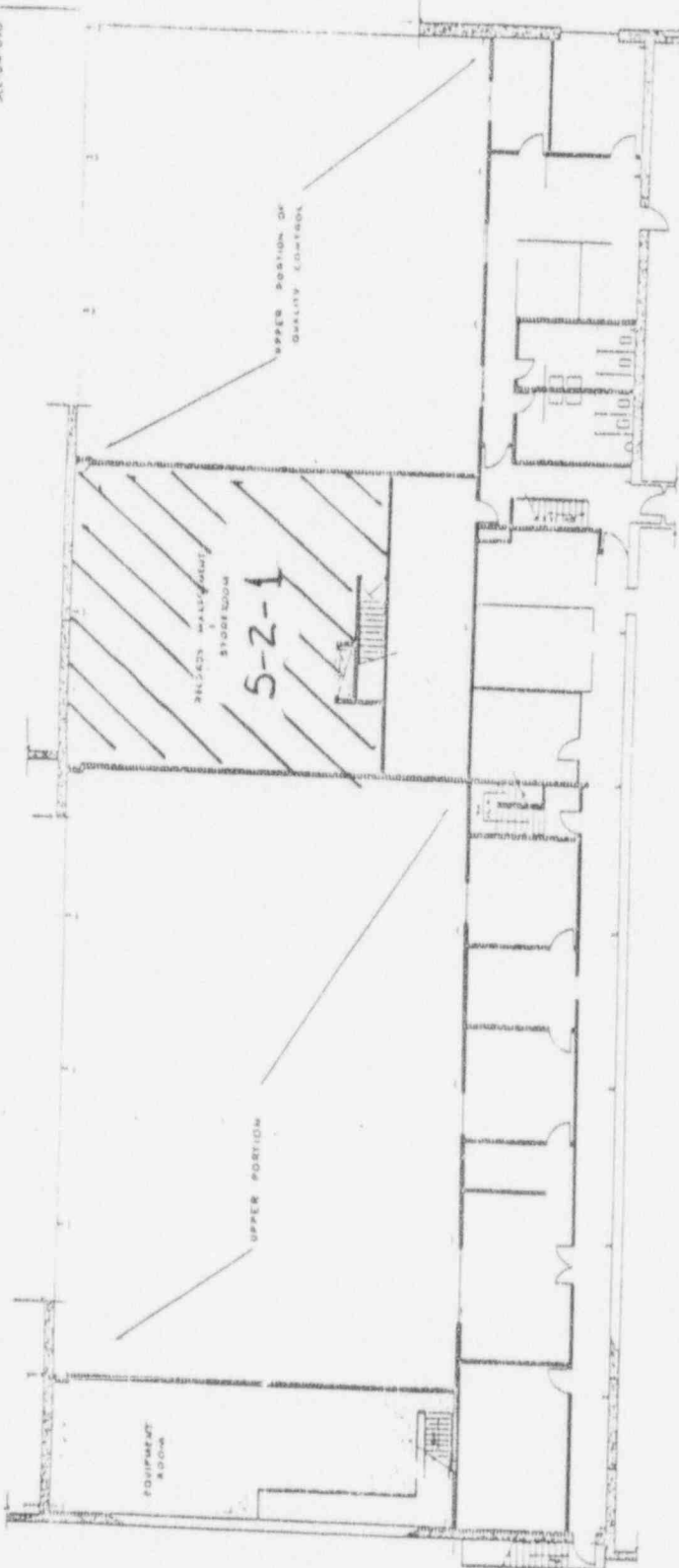
- BRICK
- CONCRETE BLOCK EXT
- CONCRETE BLOCK INT
- DRYWALL & PANELING

SCALE: FEET

0 5 10 15 20 25

Weightstone Advanced Energy Systems Division
 SECOND FLOOR
 BUILDING NO. 6
 WAES LARGE PA
 D 14683 JN-013 A

SEE DRAWING
NO. 1000
FOR
GENERAL
NOTES
SEE JN 030



NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL
PARTS LIST					
1	UNLESS OTHERWISE SPECIFIED				
2	CONCRETE BLOCK EXT				
3	CONCRETE BLOCK INT				
4	GYPSUM WALL & PANELING				
5	SCALE: FEET				
6	0	1	10	18	20
7	25				
8					
WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION SECOND FLOOR BUILDING NO. 6 WAESD LARGE, PA DRAWING NO. JN013 A DATE: 11/14/63					

LEGEND
 [Symbol] BRICK
 [Symbol] CONCRETE BLOCK EXT
 [Symbol] CONCRETE BLOCK INT
 [Symbol] GYPSUM WALL & PANELING
 SCALE: FEET
 0 1 10 18 20 25

"OFFICIAL RECORD COPY" ML 10 # 117646

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 9
(SURVEY SECTION 28G)

MARCH 17, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

Report #022

FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 9
(SURVEY SECTION 28G)

TABLE OF CONTENTS

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Purpose	1
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Analysis of Results	1
Current Status	2
Conclusions	2
Appendix A - Radiological Survey Data Sheets For Unit 1	

FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 9
(Survey Section 28G)

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 9 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 first floor of Building 9 (Survey Section 10) is documented in Report #020. In addition, survey information for the pipe chases which are a part of the first floor is documented in Report #010.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 9 on the site. Figure 2 presents the floor plan for the second floor of the building. This floor has been designated as Survey Section 28G. (See Report #009). In addition, the floor was subdivided into units and subunits as shown on Figure 2. This floor has been assigned a Survey Classification of 1 as defined in Report #009.

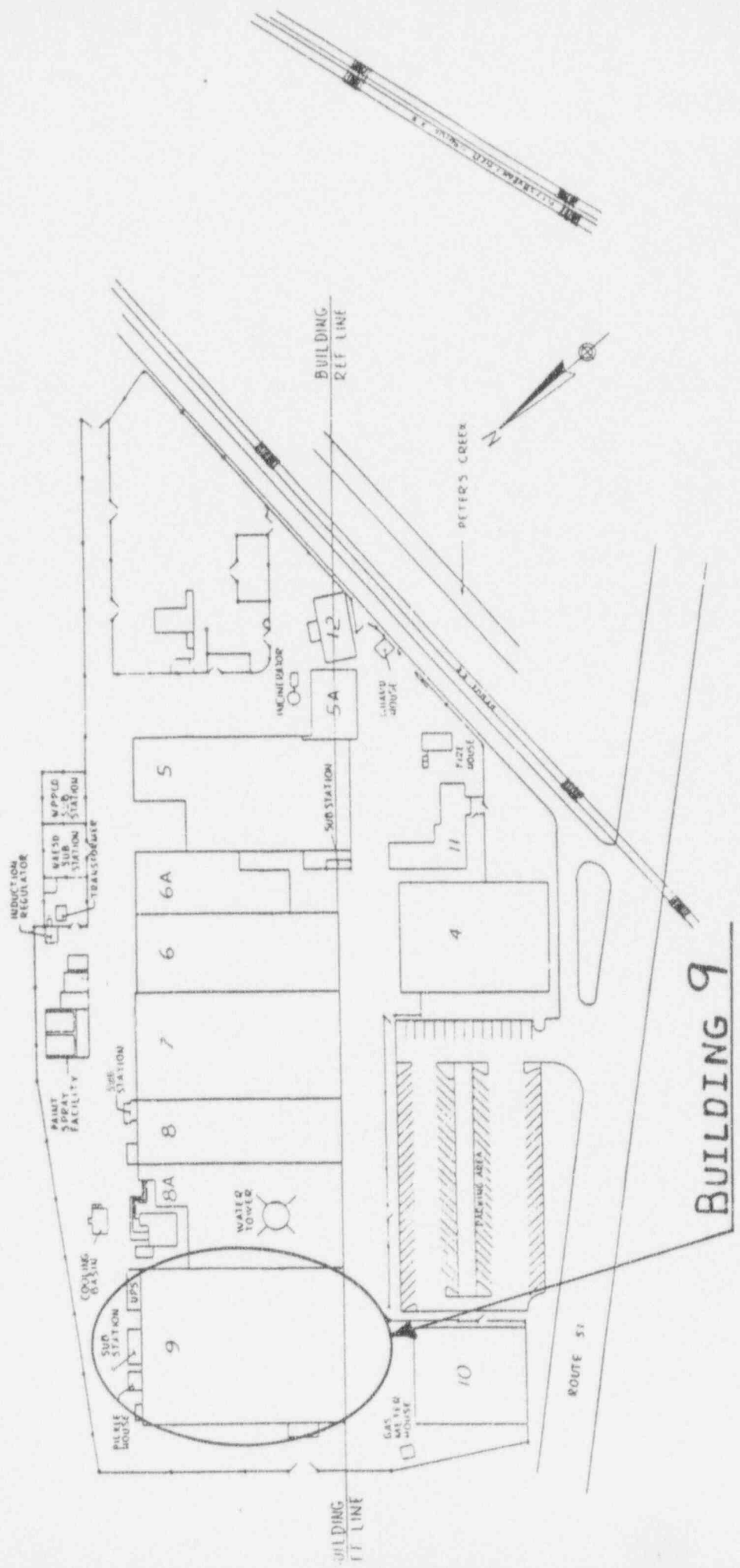
Appendix A incorporates all of the radiological survey data sheets for this floor. Table 1 presents the survey data for the survey unit with all the results converted, as appropriate, to the units necessary for comparison against the radiological acceptance criteria. A statistical analysis is included at the end of the table to determine if the acceptance criteria have been met at the desired degree of confidence.

Current Status

Building 9 is an occupied area. It is anticipated that use of this building will continue throughout the project. No radioactive material is utilized and no such use is anticipated.

Conclusions

The statistical analysis of the radiological survey data presented in this report indicates that the current condition of this floor 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 floor can be released for unrestricted use. There is no potential for this floor to become contaminated after the surveys which have been made and documented in 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 E S D L A R G E . P A
JN030

REVISIONS			
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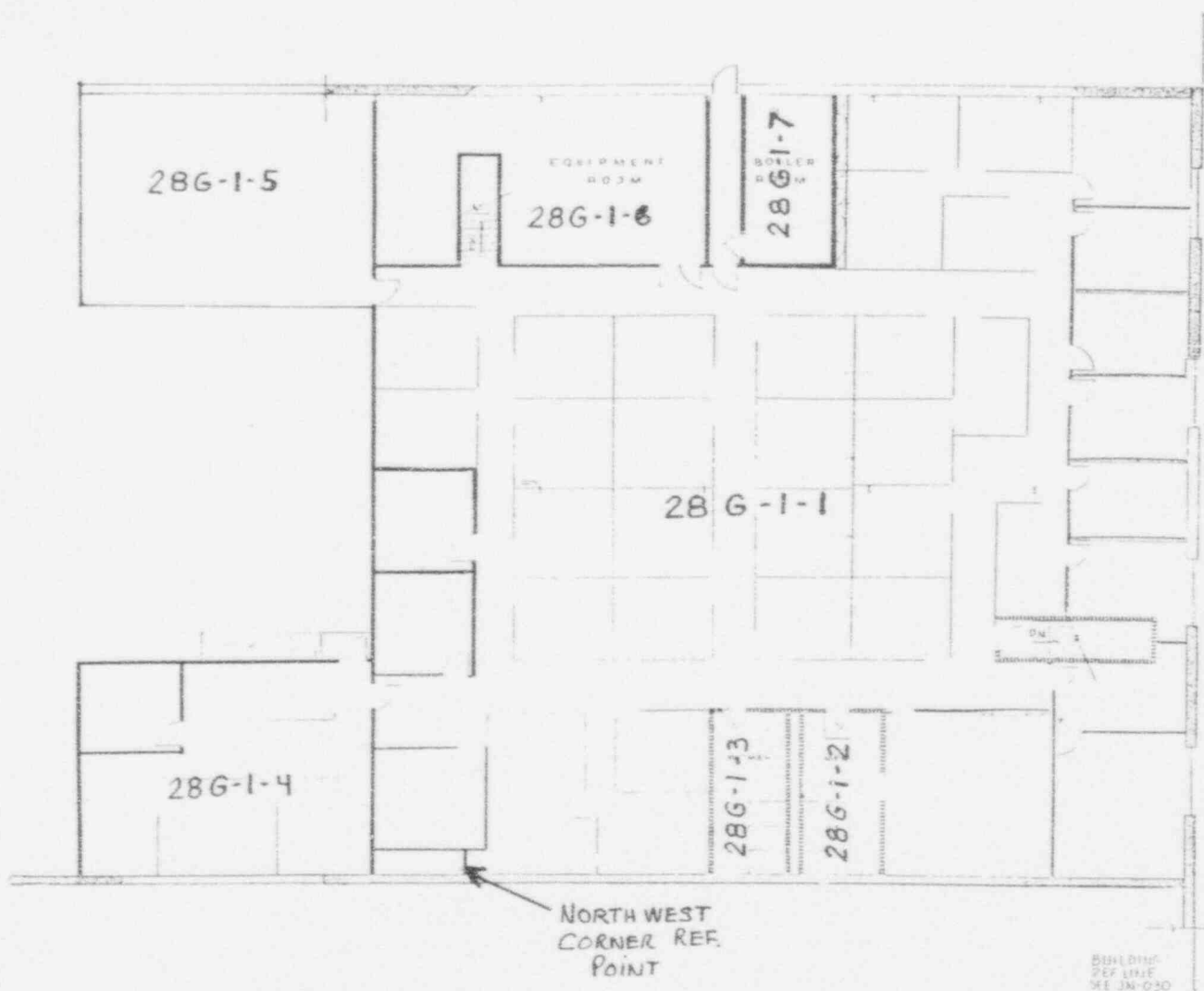


FIGURE 2
BUILDING 9, SECOND FLOOR

LEGEND

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

SCALE: FEET

QTY	SYM	ITEM NO.	NUMERATURE OR DESCRIPTION	CODE IDENT NO.	PLAT OR IDENTIFYING NO.	MATERIAL	SPECIFICATION	EQW
PARTS LIST								
UNLESS OTHERWISE SPECIFIED				CONTRACT NO. _____ DATE OF DOC. _____ INTERPRET DWG PER MIL-D-1000 DIM. IN INCHES BASED ON NET TOLERANCES -- DO NOT SCALE				
SPL DEC SPL DEC ANGLES K S S				WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION Pittsburgh, Pennsylvania SECOND FLOOR BUILDING NO 9 WAESD LARGE PA				
SPECIFICATION TYPE DWG CODE NO.				DWG SIZE D 14683		DWG NO. JN-025		REV. A
SCALE: 1/4" = 1'-0"				BY ACTS		BY CALC		SHEET OF

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #9, SECOND FLOOR (SECTION 28G, UNIT 1)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE								
?	Floor	N/A	2, -2	28G-1-1	8	0.010	95.9	35.2	2.4	75.2	-0.26	3.41
?	"	"	2, -4	28G-1-1	8	0.020	34.4	-24.8	3.7	26.4	-0.26	-2.49
?	"	"	2, -8	28G-1-1	7	0.010	99.9	35.2	6.1	60.8	-0.26	-2.49
?	"	"	4, -4	28G-1-1	7	0.010	103.1	55.2	-1.2	55.2	-0.26	-2.49
?	"	"	6, -8	28G-1-1	7	0.010	98.3	35.2	2.4	56.0	-0.26	-2.49
?	"	"	10, -4	28G-1-1	6	0.010	112.7	35.2	1.2	11.2	5.02	7.54
?	"	"	10, -8	28G-1-1	5	0.010	32.8	-12.8	2.4	-15.2	-0.26	3.59
?	"	"	12, -8	28G-1-1	5	0.010	25.6	-20.8	0.0	-35.2	-0.26	3.41
?	"	"	12, -6	28G-1-1	6	0.010	-75.2	-124.7	-2.4	-46.4	-0.26	3.41
?	"	"	14, -8	28G-1-1	7	0.010	-3.2	-44.8	3.7	-7.2	-0.26	-2.49
?	"	"	24, -16	28G-1-1	6	0.020	102.3	35.2	0.0	30.4	-0.26	3.59
?	"	"	20, -18	28G-1-1	6	0.010	24.8	-24.8	-2.4	52.0	-0.26	3.41
?	"	"	16, -16	28G-1-1	6	0.020	99.1	16.8	-3.7	54.4	-0.26	3.59
?	"	"	14, -18	28G-1-1	7	0.010	152.7	95.1	3.7	77.6	-0.26	-2.49
?	"	"	14, -20	28G-1-1	8	0.010	155.9	115.1	1.2	112.7	-0.26	3.41
?	Floor	N/A	12, -20	28G-1-1	9	0.010	64.8	15.2	-1.2	111.9	-0.26	3.59
?	"	"	10, -16	28G-1-1	6	0.010	-1.6	-24.8	4.9	-38.4	-0.26	-2.49
?	"	"	10, -12	28G-1-1	8	0.010	58.4	-16.8	-1.2	-7.2	-0.26	3.41
?	"	"	20, -6	28G-1-1	6	0.010	33.6	-8.8	3.7	2.4	-0.26	-2.49
?	"	"	20, -8	28G-1-1	7	0.010	137.5	79.2	-1.2	1.6	-0.26	3.41
?	Floors	N/A	2, -2	28G-1-2	10	0.020	184.7	142.3	-1.2	98.3	-0.26	-2.49
?	"	"	4, -2	28G-1-2	9	0.020	200.7	166.3	1.2	97.5	-0.26	-2.49
?	Floor	N/A	4, -1	28G-1-5	8	0.010	107.9	37.6	6.1	42.4	-0.26	3.41
?	"	"	1, -2	28G-1-5	10	0.020	132.7	77.6	-1.2	97.5	-0.26	3.59
?	"	"	1, -4	28G-1-5	11	0.010	175.1	109.5	8.5	72.0	-0.26	-2.49
?	"	"	1, -8	28G-1-5	11	0.010	169.5	117.5	3.7	142.3	-0.26	-2.49
?	Floor	N/A	1, -6	28G-1-6	6	0.010	-22.4	-63.2	0.0	-14.4	0.00	3.41
?	"	"	1, -10	28G-1-6	7	0.010	96.7	32.8	-4.9	-15.2	-0.26	-2.49

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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1031

SURVEY DATE: 3/17/93
COUNT DATE: 3/16/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	µR/hr
*	PRM7: 234	7 µR/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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	GRID	X, Y REF POINT	GAMMA @ 1 M. µR/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	8	.01	1151	1075	6	1125	-0.264	3.41	Tile on Concrete
"	"	2, -4	8	.02	1074	1000	7	1064	-0.264	-2.49	"
"	"	2, -8	7	.01	1156	1075	9	1107	-0.264	-2.49	"
"	"	4, -4	7	.01	1160	1100	3	1100	-0.264	-2.49	"
"	"	6, -8	7	.01	1154	1075	6	1101	-0.264	-2.49	"
"	"	10, -4	6	.01	1172	1075	5	1045	5.019	7.54	"
"	"	10, -8	5	.01	1072	1015	6	1012	-0.264	3.59	"
"	"	12, -8	5	.01	1063	1005	4	987	-0.264	3.41	"
"	"	12, -6	6	.01	937	875	2	973	-0.264	3.41	"
"	"	14, -8	7	.01	1027	1000	7	1022	-0.264	-2.49	"
"	"	24, -16	6	.02	1159	1000	4	1069	-0.264	3.59	"
"	"	20, -18	6	.01	1062	1000	2	1096	-0.264	3.41	"
"	"	16, -16	6	.02	1155	1052	1	1099	-0.264	3.59	"
"	"	14, -18	7	.01	1222	1150	7	1128	-0.264	-2.49	"
"	"	14, -20	8	.01	1226	1175	5	1172	-0.264	3.41	"

FORM SERIAL #: 28 G - 002 (Survey Section - Sequential survey #)	LOCATION # 28 G-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0366	SURVEYOR SIGNATURE: AS/TS <i>Debra M. Schaffer</i>
---	---	--	--------------------------	---

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1031

SURVEY DATE: 3/17/93
COUNT DATE: 3/16/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	7 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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	12, -20	9	.01	1112	1050	3	1171	-0.264	3.59	Tile on Concrete
"	"	10, -16	6	.01	1029	1000	8	983	-0.264	-2.49	"
"	"	10, -12	8	.01	1104	1010	3	1022	-0.264	3.41	"
"	"	20, -6	6	.01	1073	1020	7	1034	-0.264	-2.49	"
"	"	20, -8	7	.01	1203	1130	3	1033	-0.264	3.41	"

FORM SERIAL #: 28 G - 002 (Survey Section - Sequential survey #)	LOCATION # 28 G - 1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0367	SURVEYOR SIGNATURE: MS/19 <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/16/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\28G0101.XLD
 Batch Ended: 3/16/93 9:32
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 28G - 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	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:12
2	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/16/93 9:12
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.53	0.33	-0.100	-1.24	3/16/93 9:13
4	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/16/93 9:13
5	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/16/93 9:14
6	5.019	3.85	At AL	11.27	7.54	5.02	<AL	15.88	1.00	1.900	3.76	3/16/93 9:15
7	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/16/93 9:16
8	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:16
9	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:17
10	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/16/93 9:17
11	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/16/93 9:18
12	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:18
13	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/16/93 9:19
14	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/16/93 9:19
15	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:20
16	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/16/93 9:20
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/16/93 9:21
18	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:21
19	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/16/93 9:22
20	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:22
21	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/16/93 9:23
22	-0.264	1.63	<MDA	28.84	0.66	0.46	<AL	34.63	0.33	-0.100	4.82	3/16/93 9:24
23	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/16/93 9:24
24	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/16/93 9:25
25	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/16/93 9:25

————— = Survey points not needed

MP
3/17

LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po219.ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 14.35

Date: 3/16/93

Counting Unit id: 1

Data file name: C:\LBL\UNIT1\28G0101.XLD

Batch Ended: 3/16/93 9:32

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137.ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

Application Version: Standard

Batch ID: TSB_28G_1-1 walls and floor

Chan	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ				
26	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	1.79	3/16/93 9:26
27	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	1.70	3/16/93 9:26
28	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	3/16/93 9:27
29	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	3/16/93 9:27
30	-0.264	0.93	<MDA	11.27	3.59	4.14	<MDA	15.88	1.76	3/16/93 9:28
31	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	3/16/93 9:29
32	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	4.64	3/16/93 9:29
33	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	4.82	3/16/93 9:30
34	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	1.70	3/16/93 9:30
35	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	3/16/93 9:31
36	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	1.24	3/16/93 9:31
37	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	4.64	3/16/93 9:32

_____ = Survey points not needed.

MRS 3/17

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	4	*	FLMON:91943	28.8%	3.47	1007

SURVEY DATE: 3/12/93
 COUNT DATE: 3/16/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
Floors	N/A	2, -2	10	.02	1238	1185	3	1130	-0.264	-2.49	Tile on Concrete
"	"	4, -2	9	.02	1258	1215	3	1129	-0.264	-2.49	"

FORM SERIAL #: 28 G - 001 (Survey Section - Sequential survey #)	LOCATION # 28 G-1-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0365	SURVEYOR SIGNATURE: MS <i>M. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/16/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\28G0102.XLD
 Batch Ended: 3/16/93 9:33
 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: 1435

Application Revision: 2
 Application Version: Standard

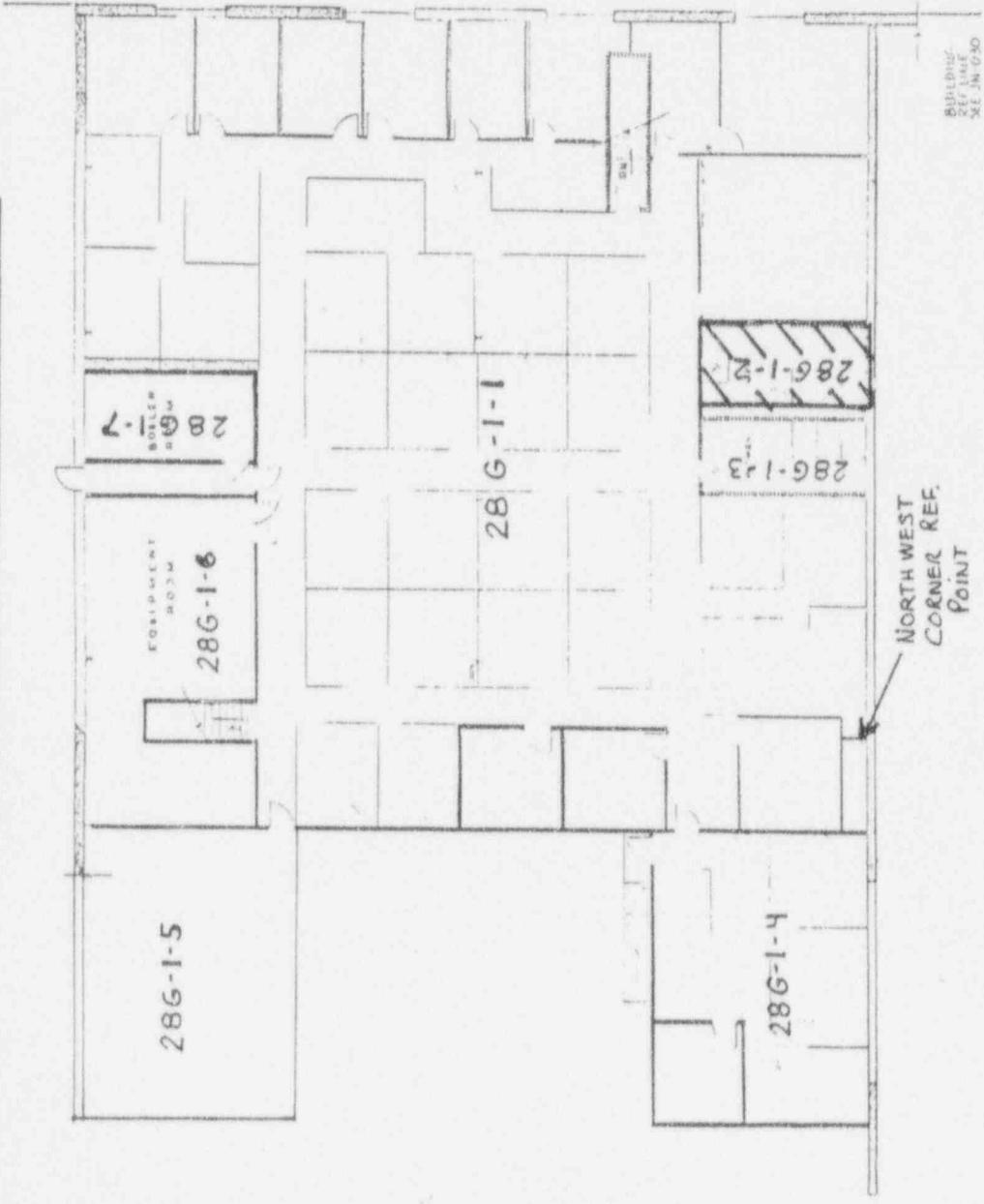
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 28G-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				
38	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/16/93 9:32
39	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/16/93 9:33

BUDG. 9 2ND FLOOR



NORTH WEST
CORNER REF.
POINT

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

UNLESS OTHERWISE SPECIFIED	CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

OPTION	DESCRIPTION	DATE	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

CONTRACT NO.	DESCRIPTION	DATE	BY	CHK

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

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION
 Building 9, Pittsburgh

SECOND FLOOR
 BUILDINGS NO 9
 W A E S D L A R G E P A

DATE: JUN 14 1983
 DRAWN BY: JN-025
 SCALE: 1/4" = 1'-0"

1 2 3 4 5 6 7

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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	5	*	FLMON:91943	28.8%	3.47	1603

SURVEY DATE: 3/17/93
COUNT DATE: 3/16/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.66	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	4, -1	8	.01	1738	1650	10	1656	-0.264	3.41	Raw Concrete
"	"	1, -2	10	.02	1769	1700	4	1725	-0.264	3.59	"
"	"	1, -4	11	.01	1822	1740	12	1693	-0.264	-2.49	"
"	"	1, -8	11	.01	1815	1750	5	1781	-0.264	-2.49	"

FORM SERIAL #: 28 - G - 003 (Survey Section - Sequential survey #)	LOCATION # 28 G-1-5 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0368	SURVEYOR SIGNATURE: <i>W. Sheffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/16/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIT1\28G0105.XLD
 Batch Ended: 3/16/93 9:37
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

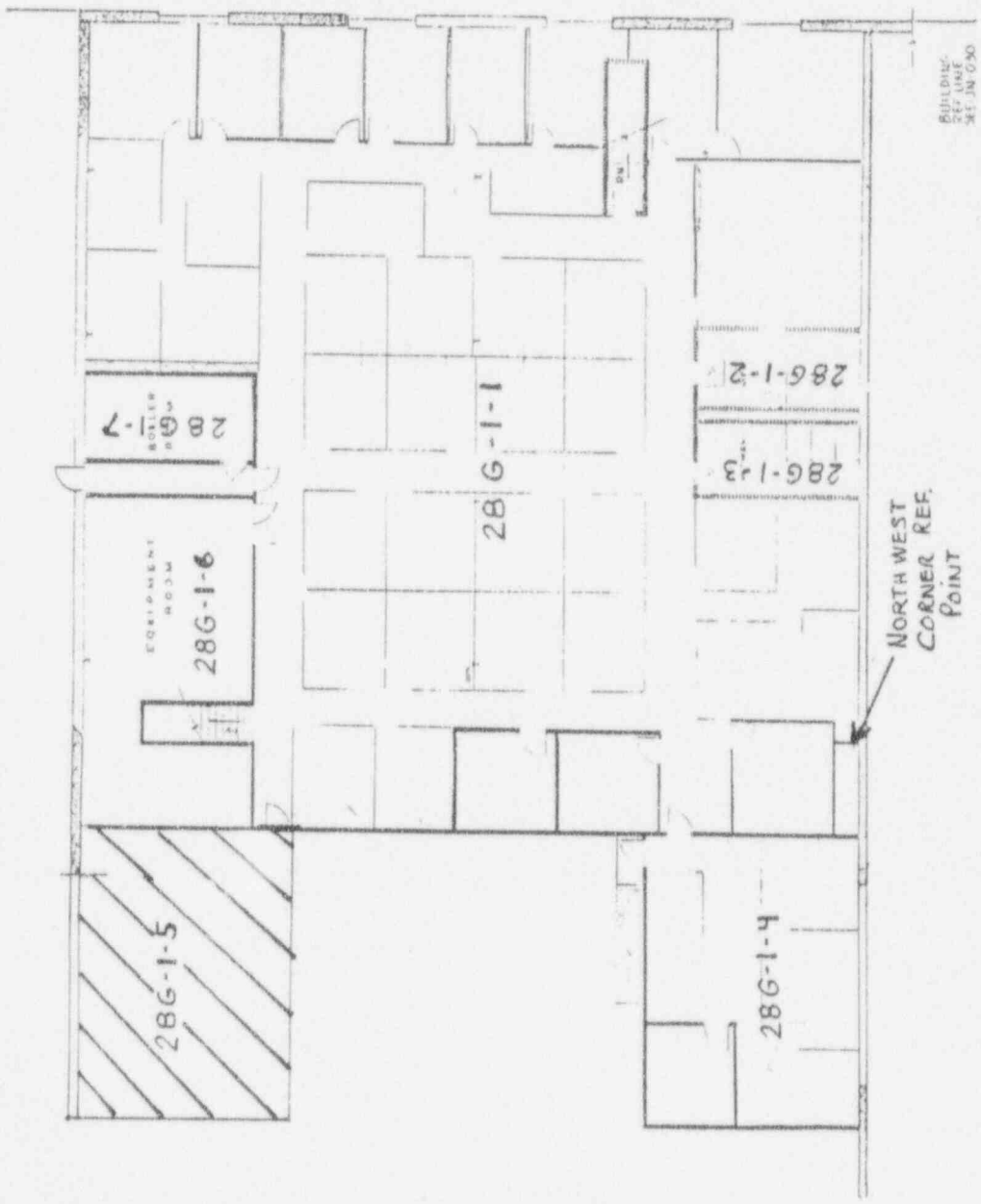
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 28G-1.5 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				
40	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/16/93 9:33
41	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/16/93 9:34
42	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/16/93 9:35
47	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/16/93 9:35
43	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/16/93 9:36
44	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/16/93 9:36
45	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/16/93 9:37

———— = Survey points not needed

MTS 3/17



NORTH WEST
CORNER REF
POINT

BUILDING
REF LINE
35 JUN 050

LEGEND

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

SCALE - FEET



REV	DATE	DESCRIPTION	BY	CHKD	DATE	REV	DATE	DESCRIPTION	BY	CHKD	DATE

UNLESS OTHERWISE SPECIFIED	CONCRETE	NO. OF BRK
WETWORK JOINTS PER AIA 1008	1008	2 - 7/8
DO NOT SCALE	UNLESS	OTHER
TOLERANCES - DO NOT SCALE	UNLESS	OTHER
FIN. DIM. IN. REC. ANGLES	UNLESS	OTHER
FIN. DIM. IN. REC. OTHER	UNLESS	OTHER

DATE	CON. NO.	REV.	DATE	REV.

DESCRIPTION	TITLE

DRWG. CODE NO.	

WESTINGHOUSE Advanced Energy Systems Division
Pittsburgh, Pennsylvania

SECOND FLOOR

BUILDING NO 9

BASED LARGE PA

DATE: JUN 05 1950
DRAWN BY: D
CHECKED BY: JN-025
SCALE: 1/4" = 1'-0"

D C B 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			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	5	*	FLMON:91943	28.8%	3.47	1179

SURVEY DATE: 3/17/93
COUNT DATE: 3/16/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PRM7: 234	5 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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	1, -6	6	.01	1151	1100	5	1161	-0/264	3.41	Painted Concrete
"	"	1, -10	7	.01	1300	1220	1	1160	-0.264	-2.49	"
"	"	6, -10	11*	.01	1385	1300	4	1356	-0.264	-2.49	"
"	"	6, -8	13*	.02	1459	1360	3	1395	-0.264	-2.49	"
"	"	2, -2	8	.01	1242	1180	4	1172	-0.264	-2.49	"
"	"	4, -4	8	.01	1428	1345	7	1290	-0.264	-2.49	"
* = Elevated because of brick wall (east side)											

FORM SERIAL #: 28 G - 04 (Survey Section - Sequential survey #)	LOCATION # 28 G-1-6 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0369	SURVEYOR SIGNATURE: MS/TS <i>Michael J. Steff</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 3/16/93
 Counting Unit id: 1
 Data file name: C:\LBX\UNIFF1\28G0106.XLD
 Batch Ended: 3/16/93 9:55
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 28G - 1.6 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	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/16/93 9:48
2	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/16/93 9:49
3	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:49
4	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:50
5	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:50
6	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:51
7	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:51
8	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.70	3/16/93 9:52
9	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:53
10	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.70	3/16/93 9:53
11	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:54
12	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/16/93 9:54
13	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.70	3/16/93 9:55

— = Survey points not needed.

MS 3/17

(*)IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT	INST: S/N	EFF	C.F.	BKG CPM
	INST: S/N	EFF					
	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	
	ESP2:1601-L	23.1%	4.33	ESP2:1588-L	34.3%	2.91	
	ESP2:			ESP2:			
	ESP2:			E520: 5242	20.3%	4.92	
	ASPT: 1891	19.1%	5.23	E520: 5245			
	PAC4G:4478	18.5%	5.4	PAC4G:4478	33.5%	3.0	
*	FLMON:91943	18.8%	5.3	FLMON:91943	28.8%	3.47	1007

SURVEY DATE: 3/12/93
COUNT DATE: 3/16/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP		R/S: L-2088	UR/hr
	INST: S/N	BKG		
*	PRM7: 234			9 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
	INST: S/N	EFF				
*	TENN: 13295	37.8%	13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%			2.46	
	SAC4: 263	34.7%			2.88	
(*)IF USED	COUNTING EQUIPMENT (BETA)		INST: S/N	EFF	C.F.	BKG
	INST: S/N	EFF				
*	TENN: 13295	49.9%	13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%			3.8	
	BC-4: 808	16.9%			5.92	

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	
Floors	N/A	1, -1	10	.02	1268	1204	4	1217	-0.264	-2.49	Painted Concrete
"	"	1, -2	11	.01	1263	1213	4	1234	-0.264	-2.49	"
"	"	5, -1	12	.02	1350	1225	7	1357	-0.264	-2.49	"
"	"	5, -2	11	.01	1335	1292	7	1380	-0.264	-2.49	"

FORM SERIAL #: 28 G - 005 (Survey Section - Sequential survey #)	LOCATION # 28 G-1-7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0370
			SURVEYOR SIGNATURE: <i>M. Schaffer</i>

LL15100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210.ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 1435

Batch Entered: 3/16/93 9:58

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137.ab

Beta Efficiency: 49.89%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

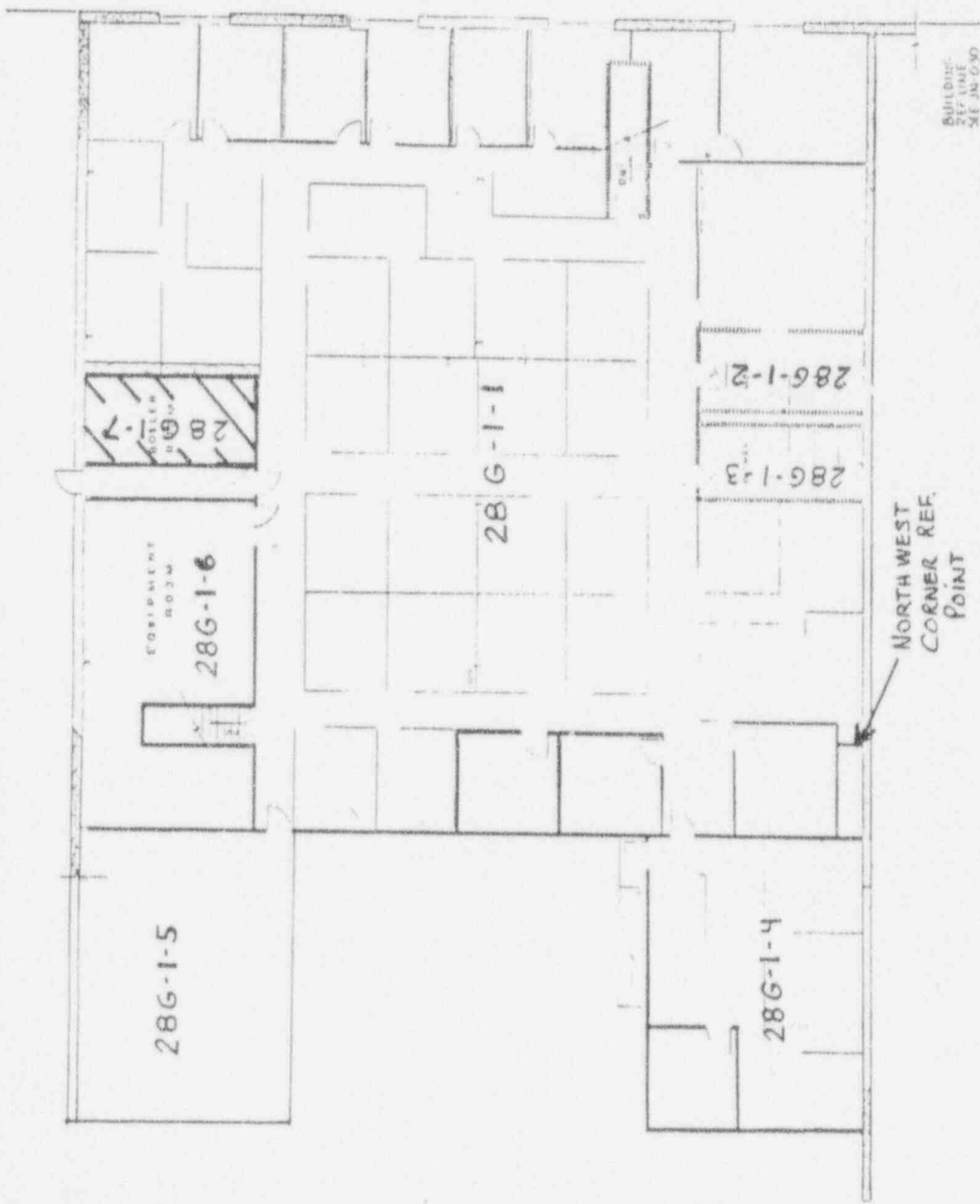
Application Version: Standard

Batch ID: TSB - 28G - 1.7 walls and floor

Carrier	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion (1:0)
	DPM	σ	flags	MDA	DPM	σ				
14	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-1.24	3/16/93 9:55
15	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	3/16/93 9:56
16	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-1.24	3/16/93 9:56
17	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-1.24	3/16/93 9:57
18	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	1.24	3/16/93 9:57
19	7.500	7.94	At M	28.10	3.41	7.00	<MDA	31.88	1.70	3/16/93 9:58
20	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-1.24	3/16/93 9:58

_____ = Survey Point not needed

MSB 3/16



BUILDING
286 LINE
SE JN 0/90

LEGEND
BRICK

EXPOSED CONCRETE BLOCK EXT
CONCRETE BLOCK INT
DRYWALL & PARTING

SCALE - FEET



REV		DATE		DESCRIPTION		PART OR IDENTIFYING NO.		MATERIAL		QUANTITY	
<p>UNLESS OTHERWISE SPECIFIED ASSUMPT 286 PER 286-1000 DO NOT SCALE TOLERANCES - DO NOT SCALE</p> <p>TYPE OF BRICK 1 - 2 1/2 2 - 2 1/2</p> <p>TYPE OF CONCRETE 1 - 4000 PSI 2 - 3000 PSI</p> <p>TYPE OF DRYWALL 1 - 5/8" 2 - 1/2"</p> <p>TYPE OF PARTING 1 - 1/2" WOOD</p>											
<p>WITHOUT DIMENSIONS SPECIFIED USE DIMENSIONS FROM DRAWING DO NOT SCALE</p>											
<p>CONTRACT NO. 286-1000 DATE OF BRICK 2-27-1968 TYPE OF CONCRETE 4000 PSI TYPE OF DRYWALL 5/8" TYPE OF PARTING 1/2" WOOD</p>											
<p>ENGINEER'S NAME AND TITLE J. N. GARDNER, JR., CIVIL ENGINEER STATE OF PENNSYLVANIA No. 1025</p>											
<p>PROJECT NO. 286-1000 DRAWING NO. 286-1000-2 DATE 2-11-68</p>											
<p>SCALE: 1/8" = 1'-0"</p>											
<p>PROJECT: WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION BUILDING NO. 9 FLOOR: SECOND FLOOR PROJECT: MAESD LARGE PA</p>											
<p>PROJECT NO. 286-1000 DRAWING NO. 286-1000-2 DATE 2-11-68</p>											

A

B

C

D

7 6 5 4 3 2 1

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 5
(SURVEY SECTION 2)

MARCH 30, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #023

FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 5
(SURVEY SECTION 2)

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Appendix C - Radiological Survey Data Sheets For Unit 3	
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Appendix E - Radiological Survey Data Sheets for Floor Scans	

**FINAL RADIOLOGICAL SURVEY
OF THE SECOND FLOOR OF BUILDING NUMBER 5**

(Survey Section 2)

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 5 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 5 will be documented in separate reports.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 5 on the site. Figure 2 presents the floor plan for the second floor of the building. This floor has been designated as Survey Section 2. (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 back half of the building was known to have involved the use of radioactive material. The front half of the building had not been used as far as was known. It was administratively decided however to designate the front half as Class 3 rather than a lower classification.

Appendices A through D incorporate all of the radiological survey data sheets for each of the four survey units. Tables 2 through 5 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 6 presents a summary of the statistical information.

Floor scans of portions of each area were also conducted. Appendix E contains the radiological data survey sheets for these floor scans. Table 7 presents the results of the floor scan data in units directly comparable with the applicable acceptance criteria.

Current Status

The second floor of Building 5 is a partially occupied area. It is anticipated that use of this area will continue throughout the project. No radioactive material is utilized and no such use is anticipated.

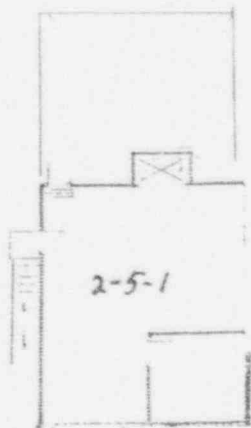
Conclusions

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

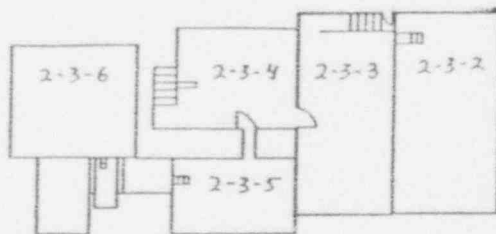
North



Floor P.V. Labs



High bay east rear
Bldg. 5



*** Not to scale ***

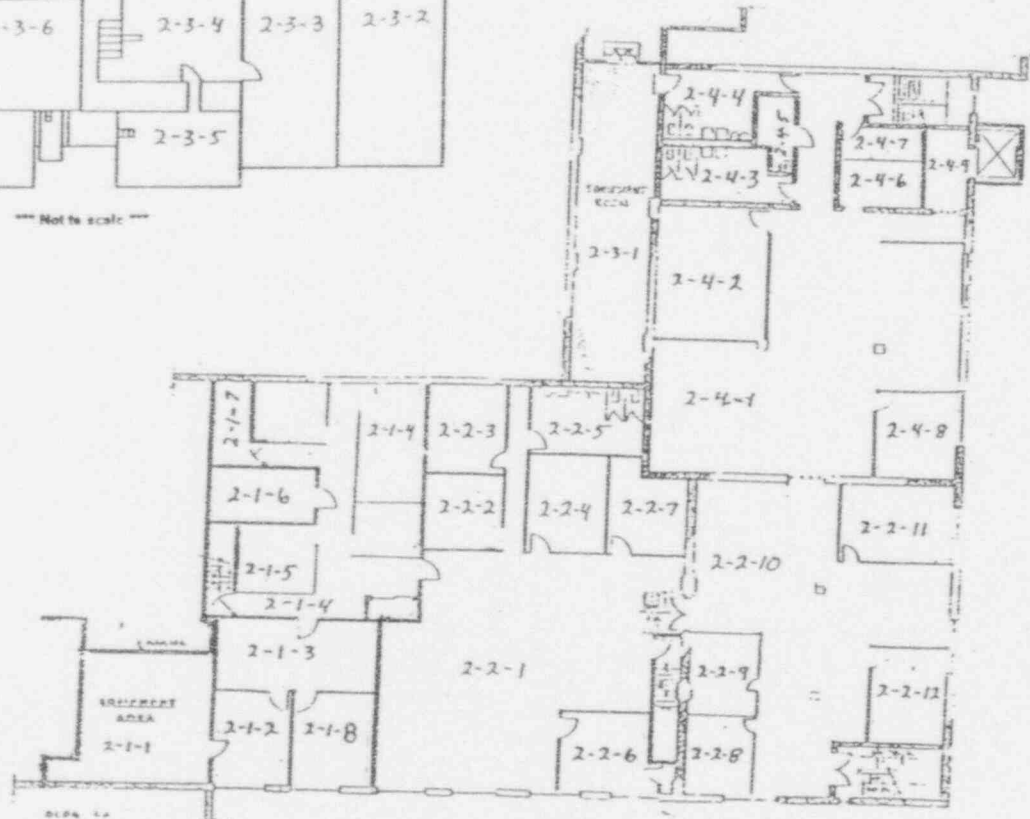


FIGURE 2
BUILDING 5, SECOND FLOOR

TABLE 1

SURVEY CLASSIFICATION FOR THE SECOND FLOOR OF BUILDING 5

SURVEY SECTION	UNIT	SUBUNIT	CLASSIFICATION
2	1	1	4
2	1	2	4
2	1	3	4
2	1	4	4
2	1	5	4
2	1	6	4
2	1	7	4
2	1	8	4
2	1	9	4
2	2	1	3
2	2	2	3
2	2	3	3
2	2	4	3
2	2	5	3
2	2	6	3
2	2	7	3
2	2	8	3

TABLE 1 (continued)

SURVEY CLASSIFICATION FOR THE SECOND FLOOR OF BUILDING 5

SURVEY SECTION	UNIT	SUBUNIT	CLASSIFICATION
2	2	9	3
2	2	10	3
2	2	11	3
2	2	12	3
2	3	1	1
2	3	2	1
2	3	3	1
2	3	4	1
2	3	5	1
2	3	6	1
2	4	1	3
2	4	2	3
2	4	3	3
2	4	4	3
2	4	5	3
2	4	6	3
2	4	7	3
2	4	8	3
2	4	9	3

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, SECOND FLOOR (SECTION 2, UNIT 1)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)	
?	?	?	REF POINT	CODE									
?	West Wall	?	N/A	?	2, -2	2-1-1		407.4	235.7	8.7	160.1	-0.26	3.59
?	"	?	"	?	4, -2	2-1-1		471.4	189.2	13.0	136.8	-0.26	-2.49
?	"	?	"	?	6, -2	2-1-1		765.3	363.8	0.0	378.3	-0.26	3.59
?	North Wall	?	"	?	2, -2	2-1-1		334.7	238.6	0.0	378.3	-0.26	-2.49
?	"	?	"	?	4, -2	2-1-1		264.8	174.6	4.3	259.0	-0.26	3.59
?	"	?	"	?	6, -2	2-1-1		494.7	232.8	0.0	209.5	-0.26	3.59
?	Concrete Floor	?	N/A	?	2, -6	2-1-1	9	151.1	96.7	0.0	67.2	-0.26	-2.49
?	"	?	"	?	2, -4	2-1-1	9	67.2	36.8	1.2	80.0	-0.26	-2.49
?	Floor Tile	?	N/A	?	2, -8	2-1-4	10	110.3	50.4	1.2	99.1	-0.26	-2.49
?	"	?	"	?	2, -4	2-1-4	8	-9.6	-49.6	4.9	20.8	-0.26	-2.49
?	"	?	"	?	6, -4	2-1-4	8	19.2	-49.6	3.7	3.2	-0.26	-2.49
?	"	?	"	?	8, -4	2-1-4	8	165.5	130.3	0.0	60.0	-0.26	-2.49
?	"	?	"	?	10, -2	2-1-4	9	179.9	110.3	3.7	86.4	-0.26	-2.49
?	West Wall	?	N/A	?	2, -5	2-1-4		302.6	113.5	21.7	87.3	-0.26	-2.49
?	South Wall	?	"	?	2, -5	2-1-4		564.5	244.4	0.0	218.3	7.74	-2.49
?	"	?	"	?	4, -5	2-1-4		360.8	61.1	13.0	96.0	-0.26	5.53
?	"	?	"	?	6, -5	2-1-4		311.4	128.0	13.0	151.3	7.51	-2.49
?	"	?	"	?	8, -5	2-1-4		416.1	87.3	8.7	131.0	-0.26	-2.49
?	West Wall	?	"	?	2, -5	2-1-4		195.0	55.3	8.7	101.9	-0.26	-2.49
?	North Wall	?	"	?	2, -1	2-1-4		561.6	227.0	30.3	209.5	-0.26	-2.49
?	East Wall	?	N/A	?	2, -2	2-1-6		154.2	8.7	4.3	49.5	-0.26	9.31
?	"	?	"	?	4, -2	2-1-6		125.1	23.3	26.0	5.8	-0.26	3.41
?	West Wall	?	N/A	?	2, -2	2-1-6		186.2	32.0	4.3	113.5	7.51	3.41
?	"	?	"	?	4, -2	2-1-6		177.5	37.8	0.0	23.3	-0.26	3.59
?	East Wall	?	N/A	?	1, -2	2-1-7		817.7	439.4	8.7	541.3	-0.26	-2.49
?	North West	?	"	?	2, -1	2-1-7		93.1	-96.0	4.3	-142.6	-0.26	-2.49
?	West Wall	?	N/A	?	2, -2	2-1-9		375.4	227.0	0.0	58.2	-0.26	3.59
?	"	?	"	?	4, -2	2-1-9		430.7	227.0	0.0	113.5	-0.26	-2.49

TABLE 2

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, SECOND FLOOR (SECTION 2, UNIT 1)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
				@1 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)
"	"	6, -2	2-1-9			372.5	227.0	13.0	151.3	-0.26	-2.49
"	"	8, -2	2-1-9			355.0	227.0	0.0	104.8	-0.26	-2.49
East Wall	"	2, -1.5	2-1-9			308.5	227.0	8.7	-11.6	-0.26	3.59
"	"	4, -1.5	2-1-9			293.9	154.2	4.3	81.5	-0.26	-2.49
"	"	6, -1.5	2-1-9			244.4	154.2	4.3	81.5	-0.26	-2.49
"	"	8, -1.5	2-1-9			305.6	154.2	8.7	177.5	-0.26	3.41
South Wall	"	2, -1.5	2-1-9			584.9	445.2	0.0	494.7	-0.26	-2.49
"	"	4, -1.5	2-1-9			704.2	445.2	0.0	491.8	-0.26	3.59
"	"	6, -1.5	2-1-9			756.6	445.2	0.0	454.0	-0.26	-2.49
Floor	"	2, -2	2-1-9		9	20.8	-21.6	2.4	80.8	-0.26	3.41
"	"	2, -4	2-1-9		10	105.5	58.4	2.4	24.8	-0.26	-2.49
"	"	2, -6	2-1-9		13	200.7	158.3	2.4	164.7	2.38	1.52
"	"	4, -6	2-1-9		12	176.7	138.3	4.9	74.4	-0.26	9.31
Floor	N/A	4, -4	2-1-9		10	82.4	50.4	1.2	57.6	-0.26	3.59
"	"	6, -2	2-1-9		9	72.0	18.4	9.8	-15.2	-0.26	-2.49
"	"	6, -4	2-1-9		11	102.3	58.4	2.4	63.2	-0.26	-2.49
"	"	6, -6	2-1-9		13	198.3	158.3	3.7	156.7	-0.26	9.31
"	"	8, -6	2-1-9		12	98.3	38.4	1.2	116.7	-0.26	-2.49
"	"	8, -4	2-1-9		9	114.3	58.4	6.1	28.8	-0.26	-2.49
"	"	8, -2	2-1-9		9	20.8	-1.6	1.2	0.0	-0.26	-2.49
"	"	12, -2	2-1-9		11	-8.8	-61.6	-1.2	-47.2	-0.26	3.59
"	"	14, -6	2-1-9		12	300.6	238.3	0.0	263.0	-0.26	-2.49
South Wall	N/A	6, -5	2-1-9			579.1	445.2	4.3	579.1	-0.26	-2.49
"	"	4, -5	2-1-9			745.0	518.0	0.0	529.6	-0.26	3.59
"	"	2, -5	2-1-9			538.4	445.2	4.3	465.6	-0.26	-2.49
East Wall	"	8, -5	2-1-9			439.4	299.7	0.0	253.2	-0.26	3.41
"	"	6, -5	2-1-9			462.7	227.0	0.0	125.1	-0.26	-2.49
"	"	4, -5	2-1-9			328.8	183.3	4.3	81.5	-0.26	-2.49

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, SECOND FLOOR (SECTION 2, UNIT 2)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @ 1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE	(microR/hr)	(mR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	Floor Tile	? N/A	? 2, -2	2-2-1	10	0.020	-33.6	-72.0	3.7	0.0	-0.26	-2.49
?	"	"	? 2, -4	2-2-1	11	0.020	-8.0	-56.0	6.1	-77.6	-0.26	-2.49
?	"	"	? 2, -6	2-2-1	10	0.010	71.2	-16.0	6.1	-7.2	-0.26	-2.49
?	"	"	? 2, -8	2-2-1	10	0.020	-6.4	-95.9	3.7	-74.4	-0.26	-2.49
?	"	"	? 4, -8	2-2-1	9	0.020	6.4	-95.9	2.4	24.8	-0.26	-2.49
?	"	"	? 4, -10	2-2-1	11	0.010	56.0	-16.0	-2.4	38.4	-0.26	3.41
?	"	"	? 4, -12	2-2-1	12	0.020	75.2	-16.0	3.7	-47.2	-0.26	-2.49
?	"	"	? 4, -6	2-2-1	9	0.020	72.8	-16.0	2.4	8.8	-0.26	3.59
?	"	"	? 4, -4	2-2-1	9	0.020	-0.8	-56.0	2.4	-109.5	-0.26	-2.49
?	"	"	? 4, -2	2-2-1	9	0.010	51.2	-36.0	-2.4	-37.6	-0.26	3.59
?	"	"	? 6, -2	2-2-1	10	0.020	-56.8	-95.9	8.5	-98.3	-0.26	-2.49
?	"	"	? 6, -4	2-2-1	10	0.020	-38.4	-115.9	-1.2	-119.1	-0.26	-2.49
?	"	"	? 6, -6	2-2-1	8	0.010	-23.2	-76.0	3.7	-45.6	-0.26	-2.49
?	"	"	? 6, -4	2-2-1	10	0.010	-50.4	-115.9	4.9	-71.2	-0.26	-2.49
?	"	"	? 6, -6	2-2-1	8	0.020	-48.8	-76.0	3.7	-45.6	-0.26	3.59
?	Floor Tile	? N/A	? 6, -12	2-2-1	9	0.010	-23.2	-76.0	8.5	-76.0	-0.26	-2.49
?	"	"	? 8, -10	2-2-1	11	0.010	-25.6	-76.0	8.5	-14.4	-0.26	9.31
?	"	"	? 8, -8	2-2-1	9	0.020	-14.4	-56.0	6.1	-77.6	-0.26	-2.49
?	"	"	? 8, -6	2-2-1	10	0.010	-13.6	-76.0	4.9	-60.8	-0.26	3.59
?	"	"	? 8, -4	2-2-1	8	0.020	48.0	-16.0	4.9	-40.0	-0.26	-2.49
?	"	"	? 8, -2	2-2-1	10	0.010	56.0	-16.0	1.2	-20.8	-0.26	-2.49
?	"	"	? 12, -6	2-2-1	8	0.010	-33.6	-76.0	7.3	-36.8	-0.26	9.31
?	"	"	? 14, -6	2-2-1	10	0.010	-38.4	-95.9	2.4	-86.4	-0.26	9.66
?	"	"	? 16, -6	2-2-1	11	0.010	51.2	-16.0	15.9	-21.6	2.38	1.52
?	West Wall	? N/A	? 2, -1	2-2-1			52.4	-32.0	8.7	-29.1	7.74	3.59
?	"	"	? 6, -1	2-2-1			69.8	-46.6	0.0	-23.3	-0.26	-2.49
?	North Wall	"	? 2, -1	2-2-1			259.0	171.7	4.3	145.5	-0.26	-2.49
?	"	"	? 6, -1	2-2-1			-90.2	55.3	8.7	40.7	-0.26	-2.49
?	South Wall	"	? 2, -1	2-2-1			261.9	113.5	8.7	145.5	-0.26	3.41
?	Ceiling Beam	"	? 2, -7	2-2-1			-128.0	-235.7	13.0	-247.4	-0.26	-2.49
?	Ceiling	"	? 2, -1	2-2-1			-64.0	-148.4	-8.7	-131.0	-0.26	-2.49

TABLE 3

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, SECOND FLOOR (SECTION 2, UNIT 2)

SURFACE DESCRIPTION	GRID	X, Y REF POINT	LOCATION CODE	GAMMA	BETA/GAMMA	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
				@1 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)
"	"	6, -2	2-2-1			-40.7	-148.4	-8.7	-136.8	-0.26	-2.49
Ceiling Beam	"	6, -4	2-2-1			-122.2	-206.6	-8.7	-215.3	-0.26	3.41
Ceiling	"	8, -4	2-2-1			-58.2	-206.6	8.7	-218.3	7.51	3.41
Ceiling Beam	"	8, -6	2-2-1			-215.3	-323.0	17.3	-331.7	7.74	-2.49
Ceiling	"	6, -10	2-2-1			-29.1	-133.9	39.0	-136.8	-0.26	9.66
"	"	8, -10	2-2-1			0.0	-90.2	4.3	-157.1	-0.26	-2.49
"	"	8, -12	2-2-1			116.4	-32.0	17.3	-26.2	-0.26	-2.49
"	"	8, -12	2-2-1			-81.5	-177.5	0.0	-186.2	-0.26	-2.49
Wall in SW Closet	N/A	2, -8	2-2-6			605.3	375.4	4.3	346.3	-0.26	3.59
West Wall	"	2, -1	2-2-6			296.8	142.6	17.3	69.8	7.74	-2.49
South Wall	"	2, -1	2-2-6			590.7	229.9	13.0	256.1	-0.26	3.59
Ceiling	"	2, -4	2-2-6			11.6	-119.3	8.7	-128.0	-0.26	3.41
"	"	3, -2	2-2-6			72.8	-90.2	0.0	-64.0	-0.26	3.59
North Wall	N/A	2, -7	2-2-10			849.7	689.7	8.7	733.3	-0.26	-2.49
"	"	4, -7	2-2-10			713.0	605.3	4.3	777.0	-0.26	-2.49
"	"	6, -7	2-2-10			942.8	660.6	4.3	628.6	-0.26	-2.49
East Wall	"	4, -7	2-2-10			471.4	317.2	-8.7	529.6	-0.26	-2.49
"	"	6, -7	2-2-10			468.5	302.6	4.3	363.8	-0.26	3.59
South Wall	"	2, -7	2-2-10			389.9	174.6	13.0	261.9	-0.26	-2.49
Floor Tile	N/A	2, -2	2-2-10		14	199.9	151.9	0.0	191.1	-0.26	3.41
"	"	4, -2	2-2-10		15	208.7	171.9	7.3	134.3	-0.26	-2.49
"	"	6, -2	2-2-10		17	157.5	91.9	11.0	97.5	-0.26	-2.49
"	"	6, -4	2-2-10		17	88.7	32.0	7.3	65.6	-0.26	3.53
"	"	4, -4	2-2-10		14	205.5	151.9	6.1	131.9	-0.26	-2.49
"	"	2, -4	2-2-10		13	130.3	72.0	3.7	107.1	-0.26	7.54
"	"	2, -6	2-2-10		12	24.8	-28.0	1.2	84.8	-0.26	3.41
"	"	4, -6	2-2-10		13	-4.8	-68.0	4.9	2.4	-0.26	-2.49
"	"	6, -6	2-2-10		15	88.7	32.0	1.2	72.8	7.74	-2.49
"	"	2, -8	2-2-10		12	61.6	12.0	0.0	0.0	7.74	-2.49
South Wall	N/A	2, -7	2-2-12			1164.0	410.3	8.7	357.9	7.74	-2.49
"	"	4, -7	2-2-12			500.5	331.7	4.3	177.5	-0.26	-2.49

TABLE 4

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, SECOND FLOOR (SECTION 2, UNIT 3)

?	?	?	X,Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)	
?	SURFACE DESCRIPTION	GRID	REF	POINT	CODE								
?	South Wall, Brick	2, -1	N/A		2-3-1			492.8	240.0	-13.8	480.0	-0.26	9.31
?	"	4, -1	"		2-3-1			566.4	432.0	-9.2	537.6	-0.26	9.66
?	"	6, -1	"		2-3-1			444.8	240.0	-4.6	393.6	-0.26	3.59
?	"	8, -1	"		2-3-1			512.0	368.0	-9.2	534.4	-0.26	-2.49
?	"	14, -1	"		2-3-1			659.2	464.0	-13.8	604.8	-0.26	-2.49
?	West Wall, Brick	2, -1	"		2-3-1			368.0	208.0	-18.4	358.4	-0.26	-2.49
?	Compressor Base	12, -2	(Floor)		2-3-1	8	0.018	-16.0	-144.0	-18.4	0.0	-0.26	3.41
?	East Wall	N/A	2, -1.1		2-3-2			579.1	334.7	8.7	349.2	-0.26	-2.49
?	"	"	4, -1.1		2-3-2			419.0	189.2	43.3	328.8	-0.26	-2.49
?	South Wall	"	2, -1.1		2-3-2			753.7	422.0	13.0	256.1	-0.26	9.66
?	"	"	4, -1.1		2-3-2			669.3	451.1	8.7	195.0	-0.26	3.59
?	"	"	6, -1.1		2-3-2			561.6	334.7	4.3	518.0	-0.26	3.41
?	"	"	8, -1.1		2-3-2			276.5	101.9	13.0	81.5	-0.26	3.41
?	"	"	10, -1.1		2-3-2			564.5	392.9	13.0	334.7	-0.26	9.31
?	"	"	12, -1.1		2-3-2			643.1	247.4	17.3	110.6	-0.26	-2.49
?	"1" Beam/N. Wall	"	3.7, -1		2-3-2			-241.5	-363.8	8.7	-177.5	-0.26	-2.49
?	"	"	9, -1		2-3-2			328.8	72.8	8.7	-160.1	-0.26	-2.49
?	South Wall	"	14, -1.1		2-3-2			552.9	247.4	8.7	381.2	-0.26	3.59
?	Floor Painted	2, -2	N/A		2-3-3	11	0.023	57.6	-96.0	-4.6	-16.0	-0.26	3.41
?	Concrete	2, -4	"		2-3-3	12	0.018	0.0	-64.0	-4.6	38.4	-0.26	-2.49
?	"	4, -2	"		2-3-3	12	0.017	0.0	-48.0	9.2	-35.2	-0.26	3.41
?	"	4, -4	"		2-3-3	11	0.014	131.2	0.0	-4.6	19.2	-0.26	3.41
?	"	6, -2	"		2-3-3	11	0.013	28.8	-128.0	-4.6	0.0	-0.26	-2.49
?	"	6, -4	"		2-3-3	14	0.012	-3.2	-64.0	0.0	-60.8	-0.26	-2.49
?	Floor Painted	2, -4	N/A		2-3-4	11	0.012	83.2	-64.0	-4.6	-99.2	-0.26	-2.49
?	Concrete	4, -4	"		2-3-4	10	0.013	41.6	-96.0	13.8	-57.6	-0.26	3.41
?	"	6, -4	"		2-3-4	8	0.008	60.8	-64.0	-4.6	-67.2	-0.26	-2.49

TABLE 5

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, SECOND FLOOR (SECTION 2, UNIT 4)

SURFACE DESCRIPTION	GRID	X, Y	REF	LOCATION	GAMMA SURVEY	BETA/GAMMA SURVEY	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							@1 METER	ON CONTACT	MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA
		POINT		CODE	(microR/hr)	(nR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
Floor Tile	N/A	2, -2		2-4-1	13	0.010	117.5	64.8	3.7	140.7	-0.26	-2.49
"	"	2, -4		2-4-1	15	0.010	162.3	104.7	2.4	170.3	-0.26	-2.49
"	"	2, -6		2-4-1	14	0.010	116.7	84.8	8.5	64.0	-0.26	-2.49
"	"	2, -8		2-4-1	15	0.010	92.7	64.8	4.9	90.3	-0.26	-2.49
"	"	2, -10		2-4-1	15	0.010	102.3	64.8	0.0	111.9	-0.26	-2.49
"	"	4, -10		2-4-1	14	0.020	98.3	44.8	2.4	48.8	-0.26	-2.49
"	"	4, -8		2-4-1	13	0.010	95.9	24.8	0.0	38.4	-0.26	-2.49
"	"	4, -6		2-4-1	13	0.010	117.5	64.8	-1.2	44.8	-0.26	-2.49
"	"	4, -4		2-4-1	13	0.010	122.3	64.8	3.7	80.0	-0.26	-2.49
"	"	4, -2		2-4-1	12	0.020	103.1	44.8	12.2	32.0	-0.26	3.59
"	"	6, -6		2-4-1	13	0.010	-9.6	-35.2	12.2	-21.6	-0.26	3.59
"	"	6, -8		2-4-1	12	0.010	1.6	-35.2	7.3	-33.6	-0.26	-2.49
"	"	6, -12		2-4-1	15	0.020	95.1	24.8	6.1	99.1	-0.26	-2.49
"	"	8, -12		2-4-1	13	0.010	63.2	24.8	-3.7	56.8	-0.26	-2.49
"	"	8, -10		2-4-1	12	0.010	20.8	-15.2	3.7	9.6	-0.27	-2.49
Floor Tile	N/A	8, -8		2-4-1	12	0.020	40.0	-15.2	3.7	65.6	-0.26	-2.49
"	"	8, -6		2-4-1	12	0.020	52.8	-15.2	4.9	-28.0	-0.26	-2.49
"	"	10, -6		2-4-1	13	0.010	144.7	104.7	0.0	95.9	-0.26	-2.49
"	"	10, -8		2-4-1	12	0.010	22.4	44.8	13.4	13.6	-0.26	3.41
"	"	10, -10		2-4-1	13	0.010	76.0	44.8	2.4	79.2	-0.26	3.41
"	"	10, -12		2-4-1	15	0.020	103.1	44.8	4.9	24.0	-0.26	3.59
"	"	18, -8		2-4-1	12	0.010	100.7	44.8	12.2	32.0	-0.26	9.66
North Wall	N/A	4, -7		2-4-1			550.0	323.0	17.3	331.7	-0.26	3.59
West Wall	"	2, -7		2-4-1			296.8	84.4	13.0	209.5	-0.26	3.59
Ceiling	"	2, -2		2-4-1			340.5	235.7	8.7	113.5	-0.26	-2.49
"	"	2, -4		2-4-1			270.6	192.1	8.7	323.0	-0.26	-2.49
"	"	2, -6		2-4-1			104.8	-2.9	13.0	93.1	-0.26	-2.49
"	"	10, -8		2-4-1			69.8	-113.5	30.3	-128.0	-0.26	-2.49

TABLE 5

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, SECOND FLOOR (SECTION 2, UNIT 4)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER	BETA/GAMMA SURVEY ON CONTACT	SCAN RESULTS		TOTAL FIXED ACTIVITY		REMOVABLE ACTIVITY	
							MAXIMUM BETA	AVERAGE BETA	ALPHA	BETA	ALPHA	BETA
?	?	?	REF POINT	CODE	(microR/hr)	(nR/hr)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)	(dpm/100cm ²)
?	"	?	8, -12	2-4-1			291.0	168.8	17.3	212.4	-0.26	-2.49
?	East Wall	?	4, -.7	2-4-1			366.7	177.5	39.0	116.4	-0.26	-2.49
?	"	?	6, -.7	2-4-1			337.6	189.2	0.0	128.0	-0.26	9.31
?	"	?	8, -.7	2-4-1			317.2	174.6	8.7	197.9	-0.26	-2.49
?	South Wall	?	2, -.7	2-4-1			1053.4	550.0	30.3	576.2	-0.26	-2.49
?	"	?	6, -.7	2-4-1			616.9	212.4	8.7	183.3	-0.26	-2.49
?	West Wall	?	4, -.7	2-4-1			427.8	142.6	17.3	302.6	-0.26	3.41
?	Floor Tile	?	2, -2	2-4-2	15	0.010	143.1	104.7	6.1	128.7	-0.26	-2.49
?	"	?	2, -4	2-4-2	13	0.010	128.7	64.8	3.7	68.0	-0.26	-2.49
?	"	?	4, -4	2-4-2	13	0.020	83.2	44.8	4.9	32.0	-0.26	9.66
?	"	?	4, -2	2-4-2	15	0.020	154.3	64.8	7.3	96.7	-0.26	-2.49
?	North Wall	?	2, -.7	2-4-2			707.1	550.0	8.7	759.5	-0.26	3.59
?	"	?	4, -.7	2-4-2			715.9	416.1	8.7	486.0	-0.26	9.66
?	"	?	6, -.7	2-4-2			788.6	561.6	21.7	605.3	-0.26	-2.49
?	East Wall	?	2, -.7	2-4-2			532.5	430.7	13.0	512.2	-0.26	-2.49
?	"	?	4, -.7	2-4-2			267.7	154.2	17.3	227.0	-0.26	-2.49
?	Floor Tile	?	1, -4	2-4-3	15	0.010	157.5	104.7	7.3	86.4	-0.26	-2.49
?	"	?	1, -2	2-4-3	15	0.010	143.1	64.8	4.9	92.7	-0.26	3.59
?	West Wall	?	2, -.7	2-4-3			945.8	701.3	13.0	692.6	-0.26	3.53
?	"	?	4, -.4	2-4-3			902.1	730.4	21.7	742.1	-0.26	3.41
?	Ceiling	?	1, -2	2-4-3			352.1	235.7	8.7	238.6	-0.26	-2.49
?	"	?	1, -4	2-4-3			323.0	250.3	17.3	267.7	-0.26	-2.49
?	Floor Tile	?	2, -2	2-4-6,7	13	0.010	70.4	24.8	0.0	24.0	-0.26	-2.49
?	East Wall	?	1, -.7	2-4-6			232.8	148.4	13.0	140.1	7.51	3.41
?	"	?	2, -.7	2-4-6			264.8	148.4	8.7	165.9	-0.26	9.31
?	Ceiling	?	2, -2	2-4-6			119.3	61.1	4.3	40.7	-0.26	-2.49
?	South Wall	?	2, -.7	2-4-8			1236.8	759.5	8.7	730.4	-0.26	-2.49
?	"	?	4, -.7	2-4-8			669.3	439.4	21.7	422.0	-0.26	-2.49

TABLE 6
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 2 - BUILDING 5, SECOND FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
** SURVEY TYPE = GAMMA DOSE RATE AT 1 METER FROM SURFACE						
2 -1	20	8.000	13.000	10.050	1.600	MicroR/hour
2 -2	34	8.000	17.000	11.000	2.440	MicroR/hour
2 -3	13	8.000	14.000	10.770	1.580	MicroR/hour
2 -4	30	12.000	15.000	13.500	1.180	MicroR/hour
** Subtotal **	97					
** SURVEY TYPE = BETA/GAMMA DOSE RATE ON CONTACT WITH SURFACE						
2 -1	20	0.010	0.020	0.011	0.003	MilliRem/hour
2 -2	34	0.010	0.020	0.014	0.005	MilliRem/hour
2 -3	13	0.008	0.023	0.015	0.004	MilliRem/hour
2 -4	30	0.010	0.020	0.013	0.005	MilliRem/hour
** Subtotal **	97					
** SURVEY TYPE = MAXIMUM - BETA SCAN OF SURFACE NEAR SURVEY POINT						
2 -1	62	-9.600	817.700	305.000	210.400	DPM/100 cm ²
2 -2	64	-215.300	1164.000	137.100	268.200	DPM/100 cm ²
2 -3	30	-241.500	753.700	282.200	281.000	DPM/100 cm ²
2 -4	61	-9.600	1236.800	281.400	275.500	DPM/100 cm ²
** Subtotal **	217					
** SURVEY TYPE = AVERAGE - BETA SCAN OF SURFACE NEAR SURVEY POINT						
2 -1	62	-96.000	518.000	160.700	147.700	DPM/100 cm ²
2 -2	64	-323.000	689.700	28.500	202.800	DPM/100 cm ²
2 -3	30	-363.800	464.000	110.900	223.800	DPM/100 cm ²
2 -4	61	-113.500	759.500	165.800	193.300	DPM/100 cm ²
** Subtotal **	217					
** SURVEY TYPE = FIXED ALPHA SURVEY AT SURVEY POINT						
2 -1	62	-1.200	30.300	4.900	6.300	DPM/100 cm ²
2 -2	64	-8.700	39.000	5.400	7.100	DPM/100 cm ²
2 -3	30	-18.400	43.300	2.100	12.500	DPM/100 cm ²
2 -4	61	-3.700	39.000	9.900	8.300	DPM/100 cm ²
** Subtotal **	217					
** SURVEY TYPE = FIXED BETA SURVEY AT SURVEY POINT						
2 -1	62	-142.600	579.100	159.600	164.900	DPM/100 cm ²
2 -2	64	-331.700	777.000	42.700	214.300	DPM/100 cm ²
2 -3	30	-177.500	604.800	156.400	237.300	DPM/100 cm ²
2 -4	61	-128.000	759.500	186.100	203.800	DPM/100 cm ²
** Subtotal **						

TABLE 6
SUMMARY OF SURVEY RESULTS
(SURVEY SECTION 2 - BUILDING 5, SECOND FLOOR)

LOCATION CODE	NUMBER OF SURVEY POINTS	MINIMUM VALUE	MAXIMUM VALUE	AVERAGE VALUE	STANDARD DEVIATION	UNITS
	217					
** SURVEY TYPE = REMOVABLE ALPHA SMEAR SURVEY AT SURVEY POINT						
2 -1	62	-0.260	7.740	0.160	1.710	DPM/100 cm ²
2 -2	64	-0.260	7.740	0.650	2.500	DPM/100 cm ²
2 -3	30	-0.260	-0.260	-0.260	0.000	DPM/100 cm ²
2 -4	61	-0.270	7.510	-0.140	0.990	DPM/100 cm ²
** Subtotal **	217					
** SURVEY TYPE = REMOVABLE BETA SMEAR SURVEY AT SURVEY POINT						
2 -1	62	-2.490	9.310	-0.080	3.480	DPM/100 cm ²
2 -2	64	-2.490	9.660	0.070	3.710	DPM/100 cm ²
2 -3	30	-2.490	9.660	1.290	4.220	DPM/100 cm ²
2 -4	61	-2.490	9.660	-0.130	3.810	DPM/100 cm ²
** Subtotal **	217					
*** Total ***	1496					

TABLE 7
SUMMARY OF RADIOLOGICAL SCAN DATA

LOCATION CODE	SURFACE DESCRIPTION	EST % SCANNED	BETA SCAN SURVEY		ACCEPTANCE CRITERIA		UNITS	% OF ACCEPTANCE CRITERIA	
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE		MAXIMUM	AVERAGE
2-1-1	TILE/CONCRETE	80%	-2	-60	15,000	5,000	DPM/100 cm ²	-0.02%	-1.20%
2-1-2	CARPET	80%	273	216	15,000	5,000	DPM/100 cm ²	1.82%	4.32%
2-1-3	CARPET	80%	297	240	15,000	5,000	DPM/100 cm ²	1.98%	4.80%
2-1-4	TILE	100%	105	14	15,000	5,000	DPM/100 cm ²	0.70%	0.27%
2-1-5	TILE	100%	105	14	15,000	5,000	DPM/100 cm ²	0.70%	0.27%
2-1-6	TILE	100%	105	14	15,000	5,000	DPM/100 cm ²	0.70%	0.27%
2-1-7	TILE	100%	72	-86	15,000	5,000	DPM/100 cm ²	0.48%	-1.73%
2-1-9	TILE ON CONCRETE	80%	165	38	15,000	5,000	DPM/100 cm ²	1.10%	0.75%
2-2-1	TILE	90%	75	-12	15,000	5,000	DPM/100 cm ²	0.50%	-0.24%
2-2-2	TILE	90%	75	-12	15,000	5,000	DPM/100 cm ²	0.50%	-0.24%
2-2-3	TILE	90%	75	-12	15,000	5,000	DPM/100 cm ²	0.50%	-0.24%
2-2-4	TILE	90%	75	-12	15,000	5,000	DPM/100 cm ²	0.50%	-0.24%
2-2-5	TILE	90%	166	48	15,000	5,000	DPM/100 cm ²	1.10%	0.96%
2-2-6	TILE	90%	166	48	15,000	5,000	DPM/100 cm ²	1.10%	0.96%
2-2-7	TILE	90%	166	48	15,000	5,000	DPM/100 cm ²	1.10%	0.96%
2-2-8	TILE	100%	166	61	15,000	5,000	DPM/100 cm ²	1.11%	1.22%
2-2-9	TILE	100%	138	61	15,000	5,000	DPM/100 cm ²	0.92%	1.22%
2-2-10	TILE	80%	181	61	15,000	5,000	DPM/100 cm ²	1.20%	1.22%
2-2-11	TILE	80%	181	61	15,000	5,000	DPM/100 cm ²	1.20%	1.22%
2-2-12	TILE	80%	181	61	15,000	5,000	DPM/100 cm ²	1.20%	1.22%
2-4-1	TILE	80%	272	105	15,000	5,000	DPM/100 cm ²	1.81%	2.09%
2-4-2	TILE	100%	253	105	15,000	5,000	DPM/100 cm ²	1.69%	2.09%
2-4-6,7	TILE	100%	110	65	15,000	5,000	DPM/100 cm ²	0.73%	1.30%
2-4-9	TILE	100%	113	85	15,000	5,000	DPM/100 cm ²	0.75%	1.70%

APPENDIX A

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 1

(*)IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF C.F.	INST: S/N	EFF C.F.	INST: S/N	EFF C.F.	BKG	
*	ESP2:1517	21.1% 4.74	ESP2:1595	34.2% 2.92	TENN: 13295	37.8%	2.64 0.1	
	ESP2:1517-L	21.7% 4.60	ESP2:1595-L	31.3% 3.20	SAC4: 1128	40.6%	2.46	
	ESP2:1601-L	23.1% 4.33	ESP2:1588-L	34.3% 2.91	SAC4: 263	34.7%	2.88	
	ESP2:		ESP2:		COUNTING EQUIPMENT (BETA)			
	ESP2:		ESP2: 5242	20.3% 4.92	INST: S/N	EFF	C.F.	BKG
	ASP1: 1891	19.1% 5.23	ESP2: 5245		TENN: 13295	49.9%	2.0 1.24	
	PAC4G:4478	18.5% 5.4	PAC4G:4478	33.5% 3.0	MS-2: 1848	26.4%	3.8	
	FLMON:91943	18.8% 5.3	FLMON:91943	28.8% 3.47	BC-4: 808	16.9%	5.92	

SURVEY DATE: 3/18/93
COUNT DATE: 3/18/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP		UR/hr
	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	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		GAMMA @ 1 M. UR/hr	X, Y REF POINT	GRID	SCAN CONTACT GROSS CPM			CONTACT GROSS 1 MIN. CT.			SHEAR LEVELS IN DPM/100CM ²		COMMENTS
	INST: S/N	EFF C.F.	INST: S/N	EFF C.F.				MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	ALPHA	BETA	
	ESP2:1517	21.1% 4.74	ESP2:1595	34.2% 2.92	N/A	2, -2	N/A	305	246	2	220	-0.264	3.59		Cement Block	
	ESP2:1517-L	21.7% 4.60	ESP2:1595-L	31.3% 3.20	"	4, -2	"	327	230	3	212	-0.264	-2.49		"	
	ESP2:1601-L	23.1% 4.33	ESP2:1588-L	34.3% 2.91	"	6, -2	"	428	290	0	295	-0.264	3.59		"	
	ESP2:		ESP2:		"	2, -2	"	280	247	0	295	-0.264	-2.49		"	
	ESP2:		ESP2: 5242	20.3% 4.92	"	4, -2	"	256	225	1	254	-0.264	3.59		"	
	ASP1: 1891	19.1% 5.23	ESP2: 5245		"	6, -2	"	335	245	0	237	-0.264	3.59		"	
	PAC4G:4478	18.5% 5.4	PAC4G:4478	33.5% 3.0												
	FLMON:91943	18.8% 5.3	FLMON:91943	28.8% 3.47												

FORM SERIAL #: 2 -009 (Survey Section - Sequential survey #)	LOCATION # 2-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0374	SURVEYOR SIGNATURE: MS
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LB5100W Low Background Counting System -- Smear Analysis

Date: 3/18/93
 Counting Unit id: 1
 Data file name: CALBXQ\UNIT1\020101UP.XLD
 Batch Ended: 3/18/93 15:48
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: MTS 2-1-1 upper surfaces

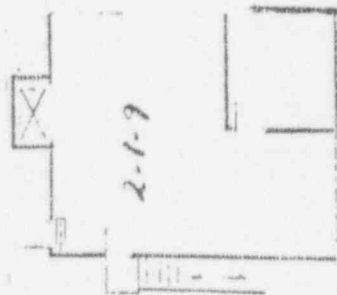
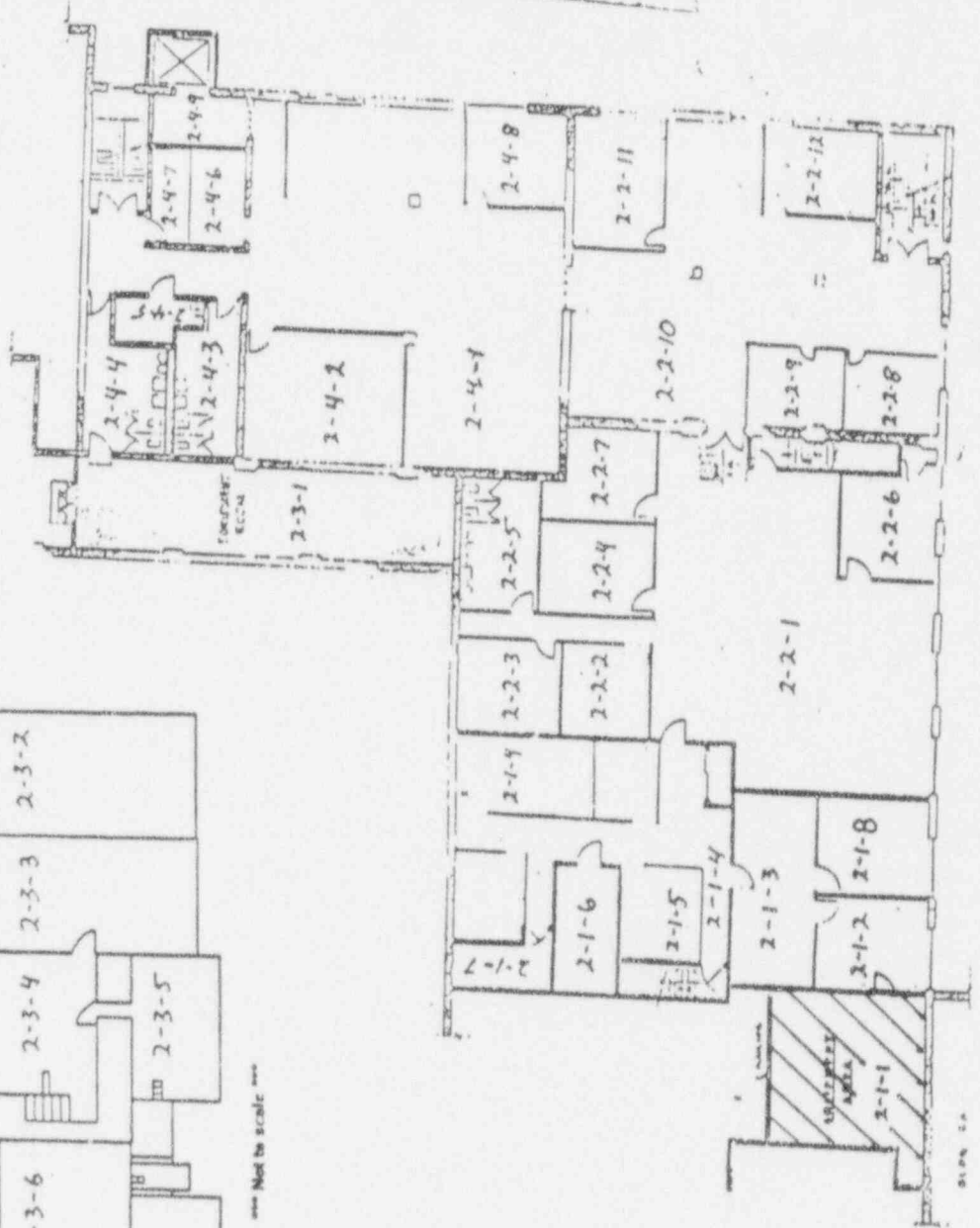
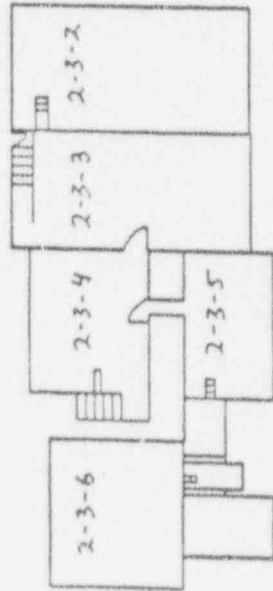
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOI
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/18/93 15:46
2	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/18/93 15:46
3	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/18/93 15:47
4	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/18/93 15:47
5	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/18/93 15:48
6	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/18/93 15:48

Building 5 Second Floor

North



Above P.V. Labs



High bay east rear
Bldg. 5

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	6	*	FLMON:91943	28.8%	3.47	1254

SURVEY DATE: 3/22/93
COUNT DATE: 3/22/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
Concrete Floor	N/A	2, -6	9	.01	1443	1375	6	1338	-0.264	-2.49	Floor monitor used
"	"	2, -4	9	.01	1338	1300	7	1354	-0.264	-2.49	for scans & 1 minute counts

FORM SERIAL #: 2 - 034 (Survey Section - Sequential survey #)	LOCATION # 2-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS - 0410	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020101AD.XLD
 Batch Ended: 3/22/93 13:47
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2-1-1 lower surfaces added points

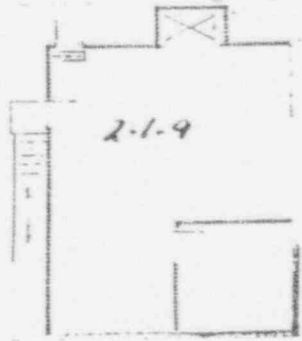
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
32	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 13:47
33	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 13:47

Building 5 Second Floor

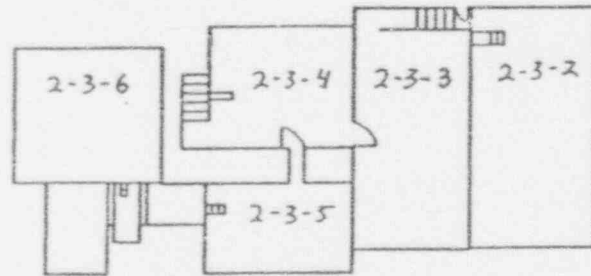
North



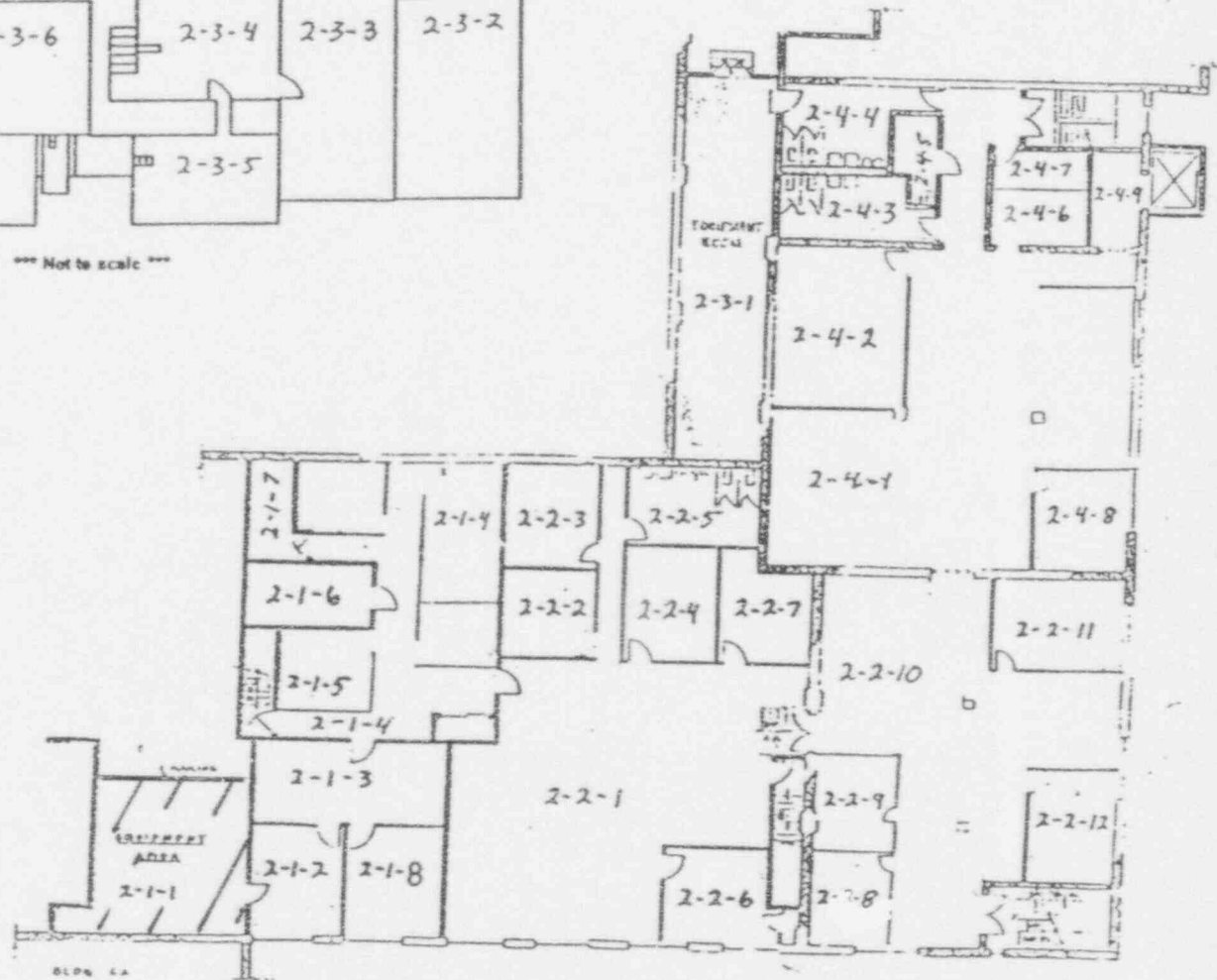
Above P.V. Labs



High bay east rear
Bldg. 5



*** Not to scale ***



DECOMMISSIONING FIELD DATA SHEET

SURVEY TYPE: Floors & Walls

(*) IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		(*) IF USED	INST: S/N	BKG CPM
	INST: S/N	C.F.	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: 1601-L	23.1%	4.33	ESP2: 1588-L		34.3%	2.91
	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	18.8%	5.3	FLMON: 91943		28.8%	3.47
							1112

SURVEY DATE: 3/17/93
COUNT DATE: 3/17/93

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

(*) IF USED	COUNTING EQUIPMENT (ALPHA)		C.F.	BKG
	INST: S/N	EFF		
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
(*) IF USED	COUNTING EQUIPMENT (BETA)		C.F.	BKG
	INST: S/N	EFF		
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	10	.01	1250	1175	9	1236	-0.264	-2.49	
"	"	2, -4	8	.01	1100	1050	12	1138	-0.264	-2.49	
"	"	6, -4	8	.01	1136	1050	11	1116	-0.264	-2.49	
"	"	8, -4	8	.02	1319	1275	8	1187	-0.264	-2.49	
"	"	10, -2	9	.01	1337	1250	11	1220	-0.264	-2.49	

FORM SERIAL #: 2 - 008 (Survey Section - Sequential survey #)	LOCATION # 2-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0373	SURVEY DR. SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.86%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

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: 1435

Application Revision: 2
 Application Version: Standard

Date: 3/17/93
 Counting Unit id: 1
 Data file name: C:\EXL\MUNIT\1026104 X.D
 Batch Ended: 3/17/93 15:57
 Crosstalk Correction: Not Applied

Batch ID: USB - 2-1-4 floor

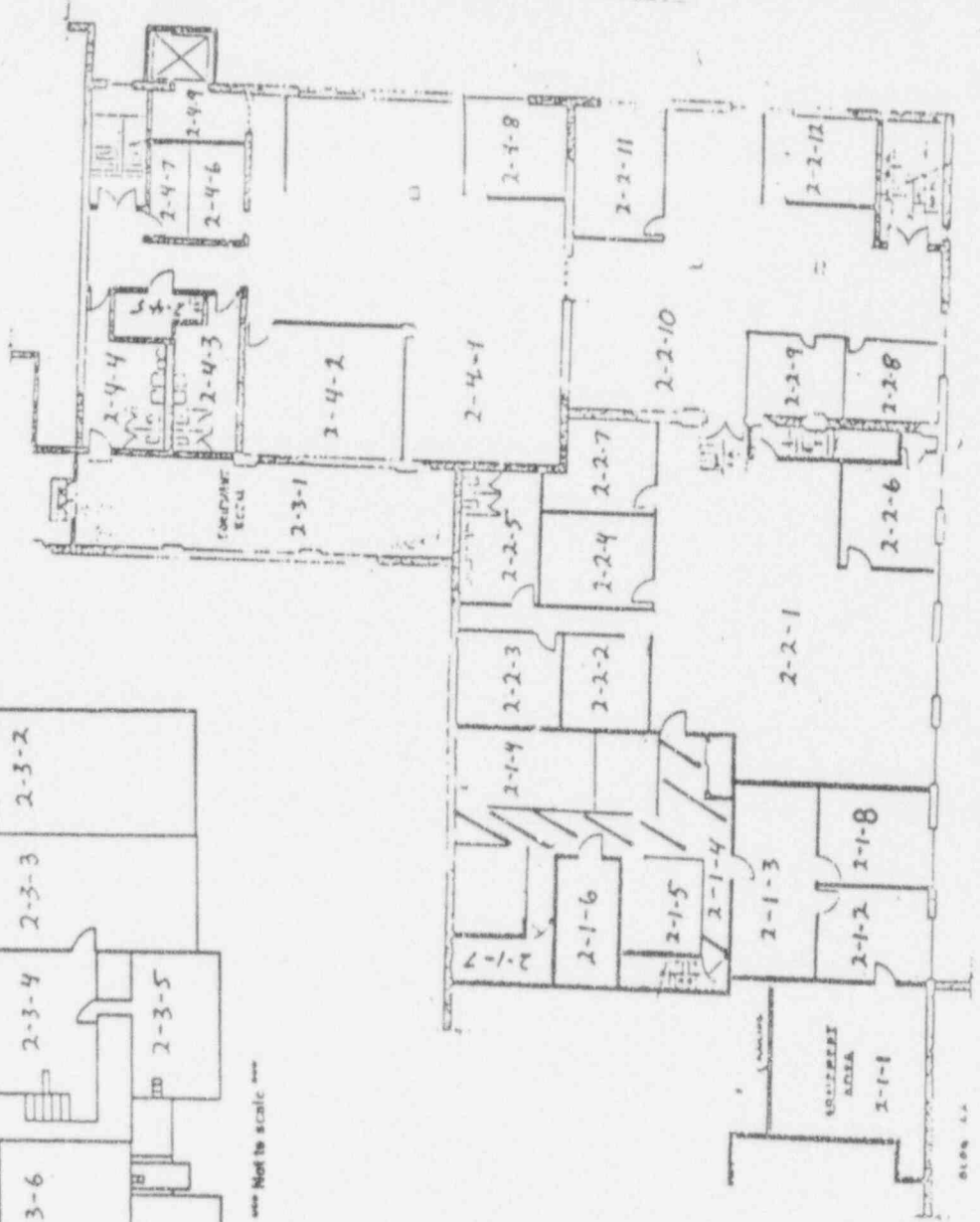
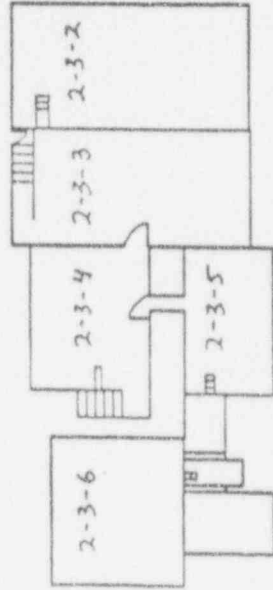
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TGP
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
1	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/17/93 15:55
2	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/17/93 15:55
3	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/17/93 15:56
4	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/17/93 15:56
5	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/17/93 15:57

Building 5 Second Floor

North



Above P.V. Labs



High bay east rear
Bldg. 5


(*)IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		(*)IF USED	INST: S/N	BKG CPM
	INST: S/N	EFF	EFF	C.F.			
	ESP2:1517	21.1%	4.74	34.2%		ESP2:1595	2.92
	ESP2:1517-L	21.7%	4.60	31.3%		ESP2:1595-L	3.20
*	ESP2:1601-L	23.1%	4.33	34.3%	*	ESP2:1588-L	2.91
	ESP2:					ESP2:	
	ESP2:			20.3%		E520: 5242	4.92
	ASP1: 1891	19.1%	5.23			E520: 5245	
	PAC4G:4478	18.5%	5.4	33.5%		PAC4G:4478	3.0
	FLMON:91943	18.8%	5.3	28.8%		FLMON:91943	3.47

SURVEY DATE: 3/18/93
COUNT DATE: 3/18/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP		UR/hr
	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)		BKG
	INST: S/N	EFF	
*	TENN: 13295	37.8%	2.64
	SAC4: 1128	40.6%	2.46
	SAC4: 263	34.7%	2.88
(*)IF USED	COUNTING EQUIPMENT (BETA)		BKG
	INST: S/N	EFF	
*	TENN: 13295	49.9%	2.0
	MS-2: 1848	26.4%	3.8
	BC-4: 808	16.9%	5.92

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/100CM ²		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
West Wall	N/A	2, -5	N/A	N/A	325	260	5	251	-0.264	-2.49	Unpainted Cement Block
South Wall	"	2, -5	"	"	415	305	0	296	7.741	-2.49	"
"	"	4, -5	"	"	345	242	3	254	-0.264	5.53	"
"	"	6, -5	"	"	328	265	3	273	7.506	-2.49	"
"	"	8, -5	"	"	364	251	2	266	-0.264	-2.49	"
West Wall	"	2, -5	"	"	288	240	2	256	-0.264	-2.49	"
North Wall	"	2, -1	"	"	414	299	7	293	-0.264	-2.49	"

FORM SERIAL #: 2- 010 (Survey Section - Sequential survey #)	LOCATION # 2-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0375	SURVEY SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020104UP.XLD
 Batch Ended: 3/18/93 15:53
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.65%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: MTS 2-1-4 upper surfaces

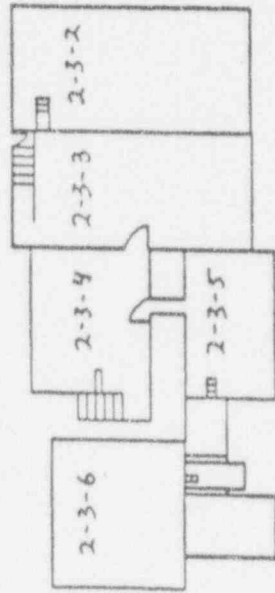
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
7	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/18/93 15:49
8	7.741	8.17	At AL	28.84	2.49	3.93	<MDA	34.63	0.33	2.930	-1.24	3/18/93 15:49
9	0.264	0.93	<MDA	11.27	5.53	4.60	<AL	15.88	1.00	-0.100	2.76	3/18/93 15:51
10	7.506	7.94	At AL	28.10	2.49	3.87	<MDA	33.88	0.34	2.841	-1.24	3/18/93 15:51
11	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/18/93 15:52
12	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/18/93 15:52
13	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/18/93 15:53

Building 5 Second Floor

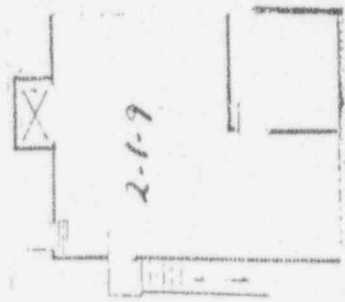
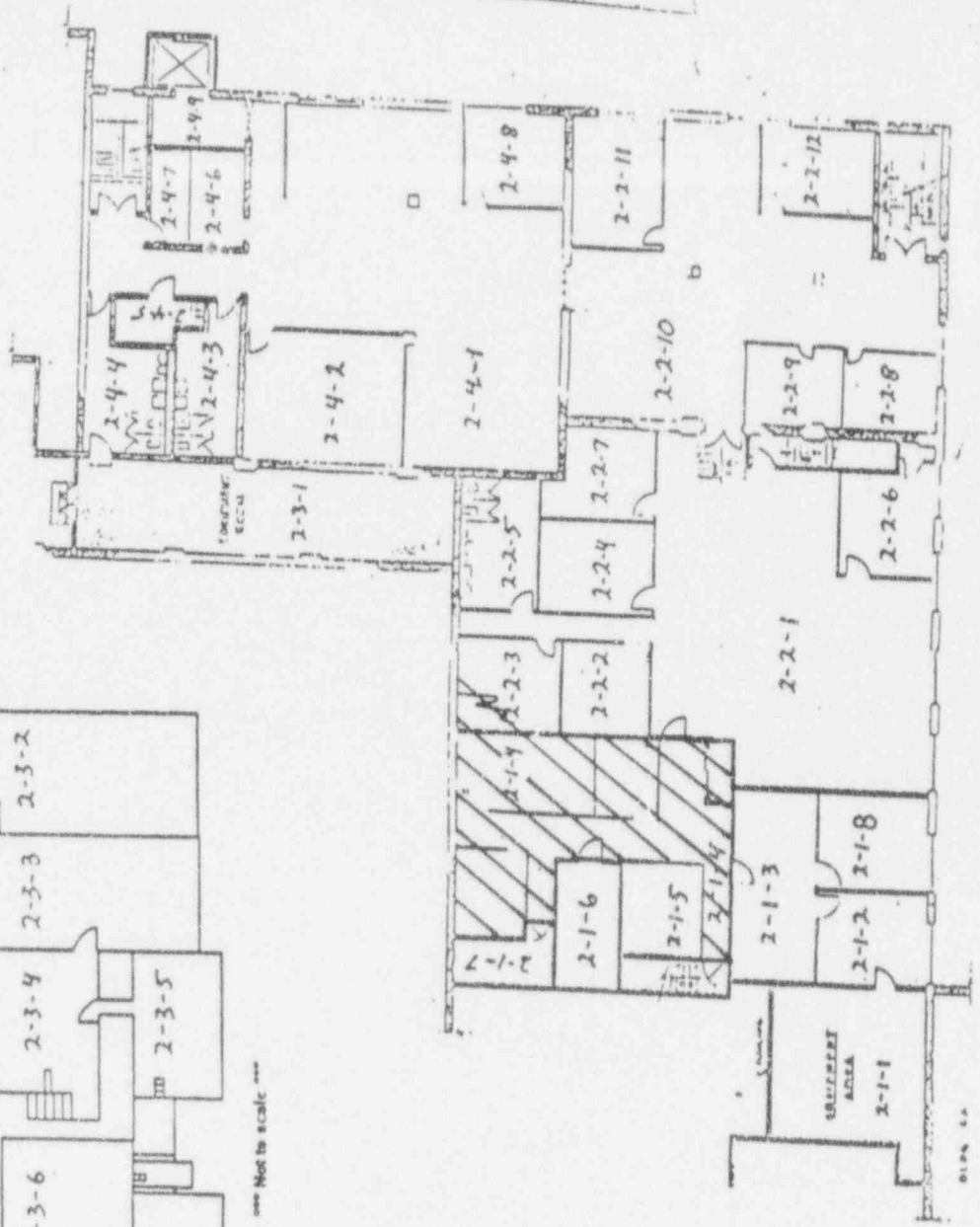
North



Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5

LB5100W Low Background Counting System – Smear Analysis

Date: 3/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020106UP.XLD
 Batch Ended: 3/18/93 15:54
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainly level for MDA and flags: 95.00%
 High Voltage Setting: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: MTS 2-1-6 upper surfaces

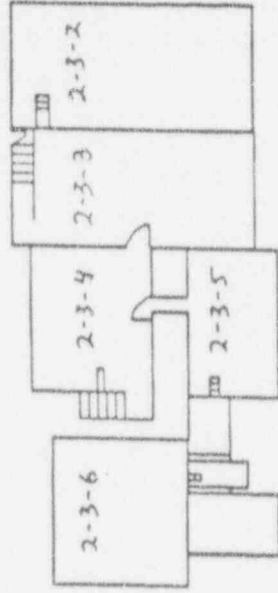
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOI
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
14	0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	0.100	4.64	3/18/93 15:53
15	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/18/93 15:54

Building 5 Second Floor

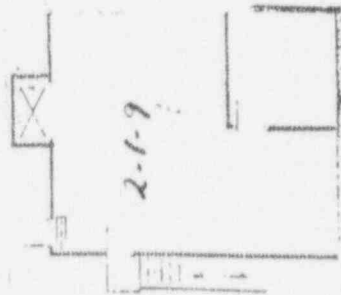
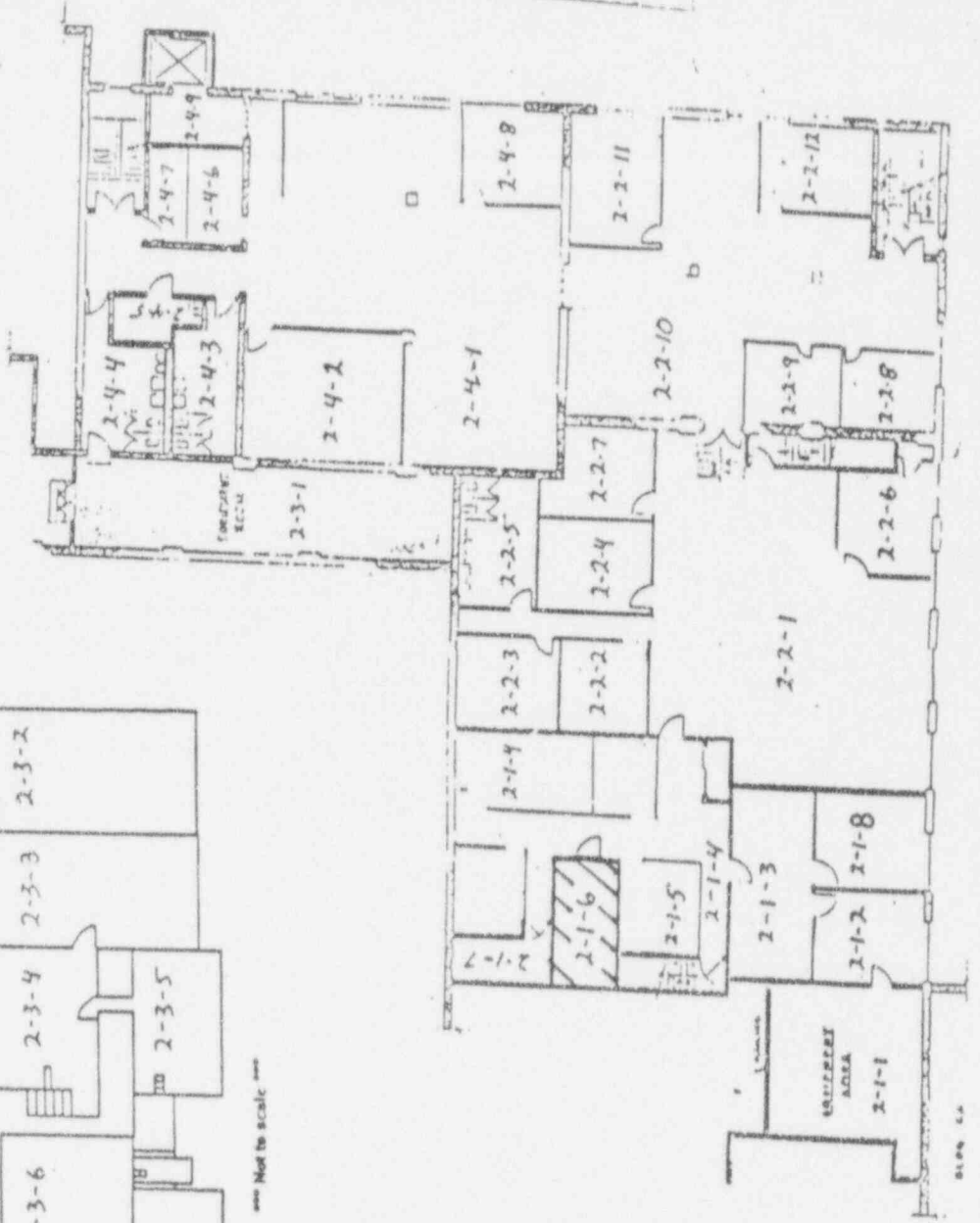
North



Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5

LB5100W Low Background Counting System – Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020106UP.XLD
 Batch Ended: 3/22/93 14:36
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2-1-6 upper surfaces

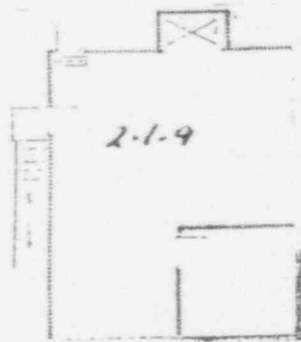
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
19	7.506	7.94	At AL	28.10	3.41	7.06	<MDA	33.88	0.34	2.841	1.70	3/22/93 14:35
20	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/22/93 14:36

Building 5 Second Floor

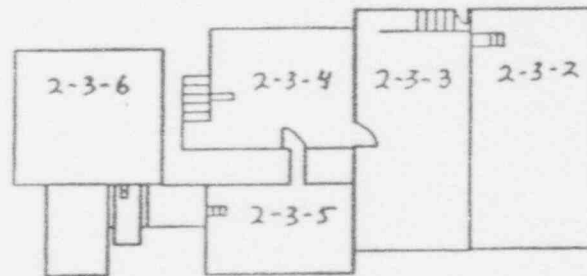
North



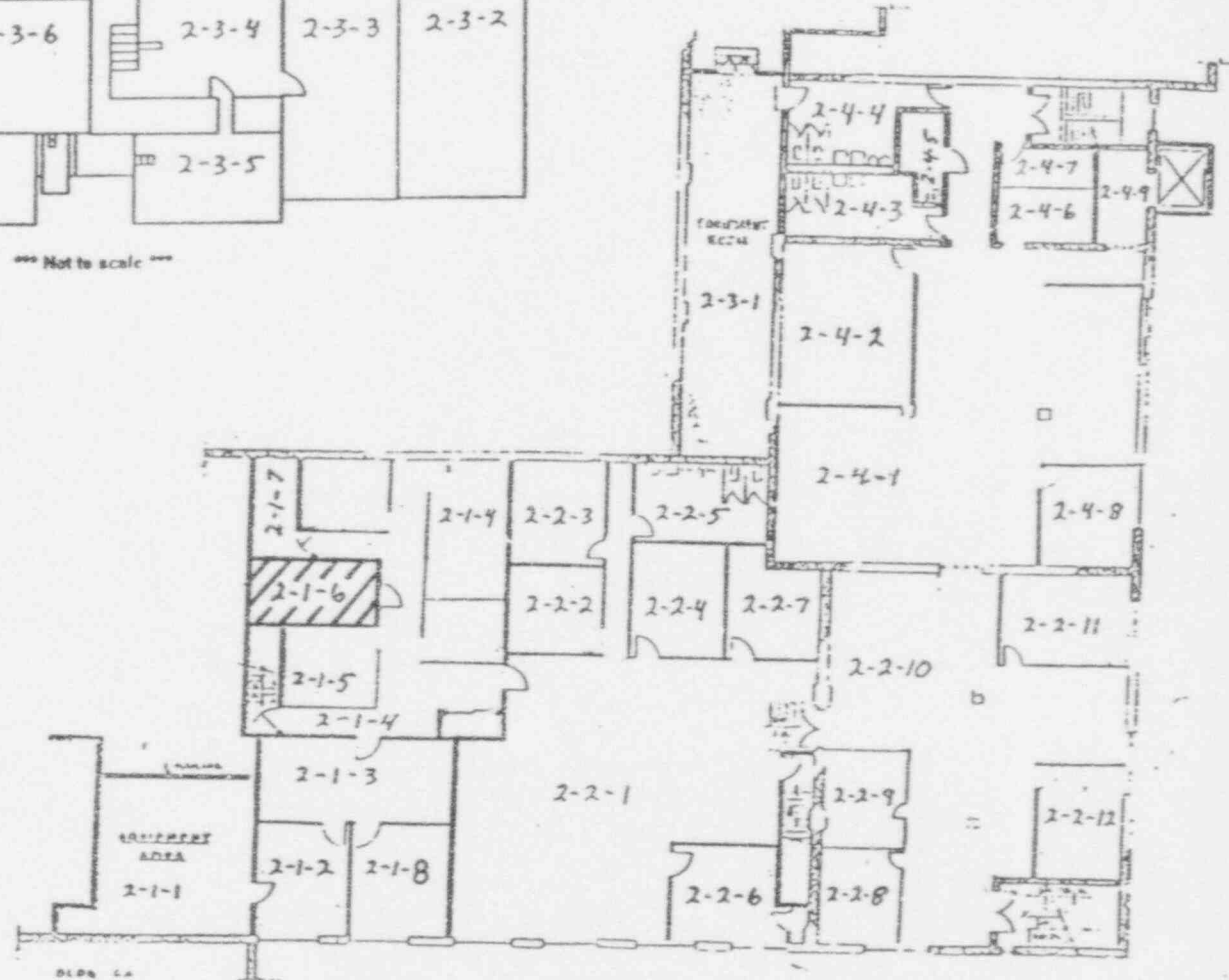
Above P.V. Labs



High bay east rear
Bldg. 5



*** Not to scale ***



LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210.ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.97%

Alpha Background (CPM): 0.1

Beta efficiency log file: cs137.ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

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: 14.35

Application Revision: 2

Application Version: Standard

Date: 3/18/93

Counting Unit id: 1

Data file name: C:\LBXL\UNIT1\02010\TUP.XLD

Batch Ended: 3/18/93 15:55

Crosstalk Correction: Not Applied

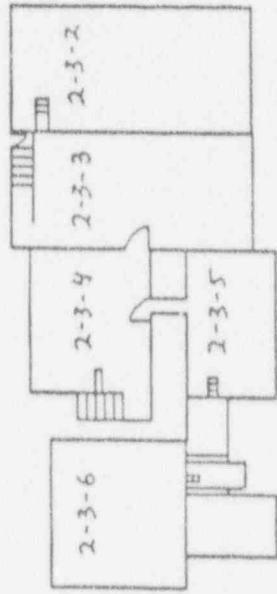
Batch ID: MTS 2-1-7 upper surfaces

Carrier	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion ID
	DPM	σ	flags	MDA	DPM	σ				
16	0.254	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-1.24	3/18/93 15:54
17	0.254	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-1.24	3/18/93 15:55

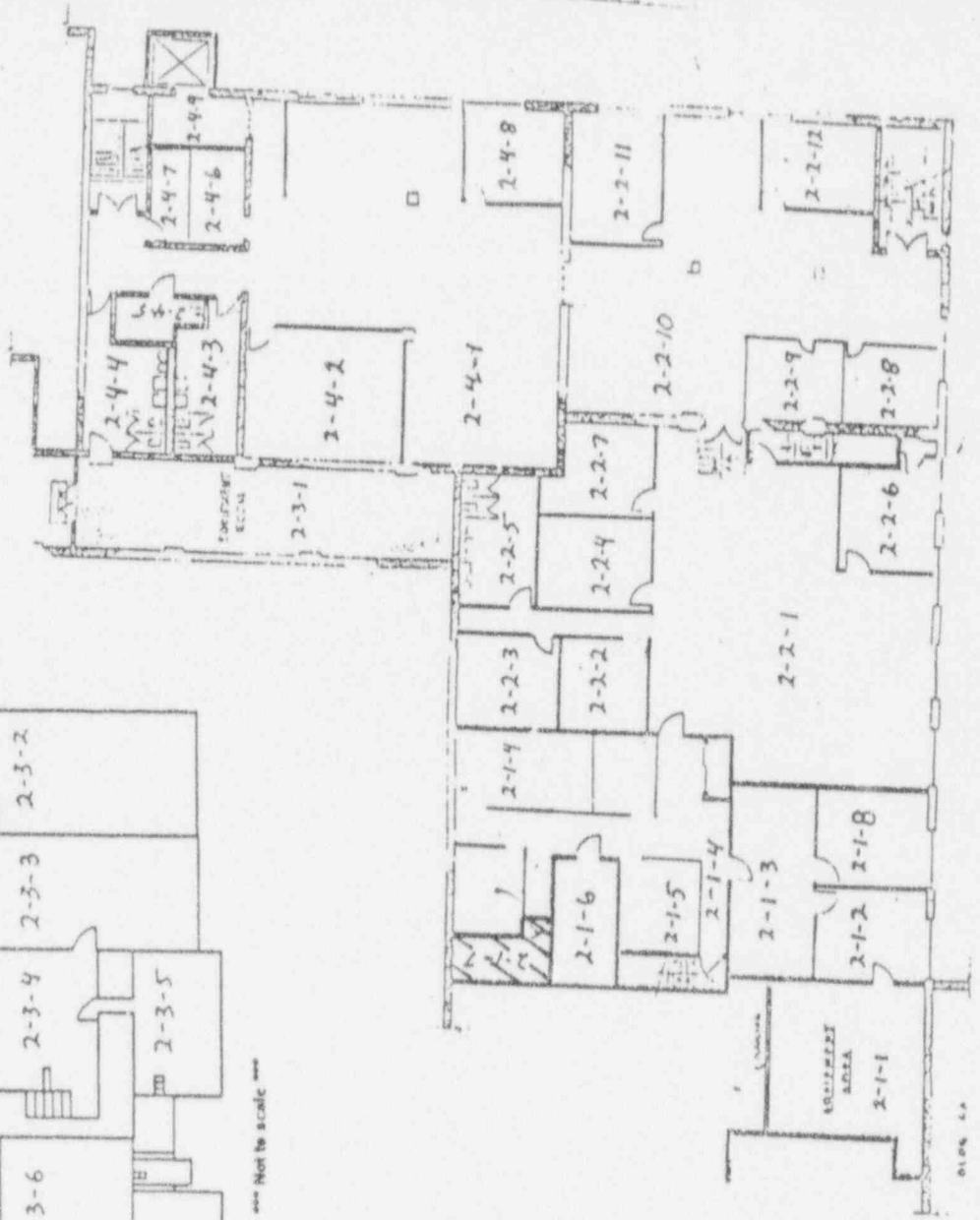
Building 5 Second Floor

North
←

Above P.V. Labs



*** Not to scale ***



High bay east rear
Bldg. 5

(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	297
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/16/93
COUNT DATE: 3/17/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.5%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
South Wall	N/A	6, -.5	N/A	N/A	496	450	1	496	-0.264	-2.49	Brick
"	"	4, -.5	"	"	553	475	0	479	-0.264	3.59	"
"	"	2, -.5	"	"	482	450	1	457	-0.264	-2.49	"
East Wall	"	8, -.5	"	"	448	400	0	384	-0.264	3.41	Block
"	"	6, -.5	"	"	456	375	0	340	-0.264	-2.49	"
"	"	4, -.5	"	"	410	360	1	325	-0.264	-2.49	"
"	"	2, -.5	"	"	452	325	0	324	-0.264	-2.49	"
South Wall	"	8, -.5	"	"	440	375	0	440	-0.264	-2.49	Brick
South Wall	"	10, -.5	"	"	476	450	2	459	-0.264	-2.49	"
"	"	14, -.5	"	"	410	340	3	363	-0.264	-2.49	"
West Wall	"	4, -.5	"	"	327	300	1	302	-0.264	-2.49	Block
"	"	6, -.5	"	"	335	300	2	297	-0.264	3.41	"

FORM SERIAL #: 2-005 (Survey Section - Sequential survey #)	LOCATION # 2-1-9 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0364	SURVEYOR SIGNATURE: MS <i>MS Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020109UP.XLD
 Batch Ended: 3/17/93 10:14
 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: 1435

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Application Revision: 2
 Application Version: Standard

Batch ID: TSB - 2 - 1 - 9 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
40	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:08
41	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 10:08
42	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:09
43	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/17/93 10:09
44	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:10
45	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:11
46	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:11
47	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:12
48	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:12
49	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:13
50	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:13
51	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/17/93 10:14
52	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:14

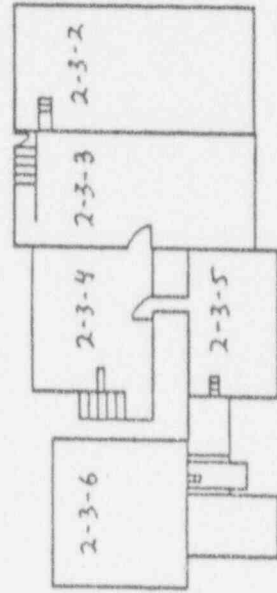
→ *SMEAR DATA NOT NEEDED*

Building 5 Second Floor

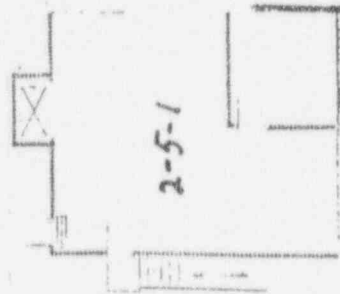
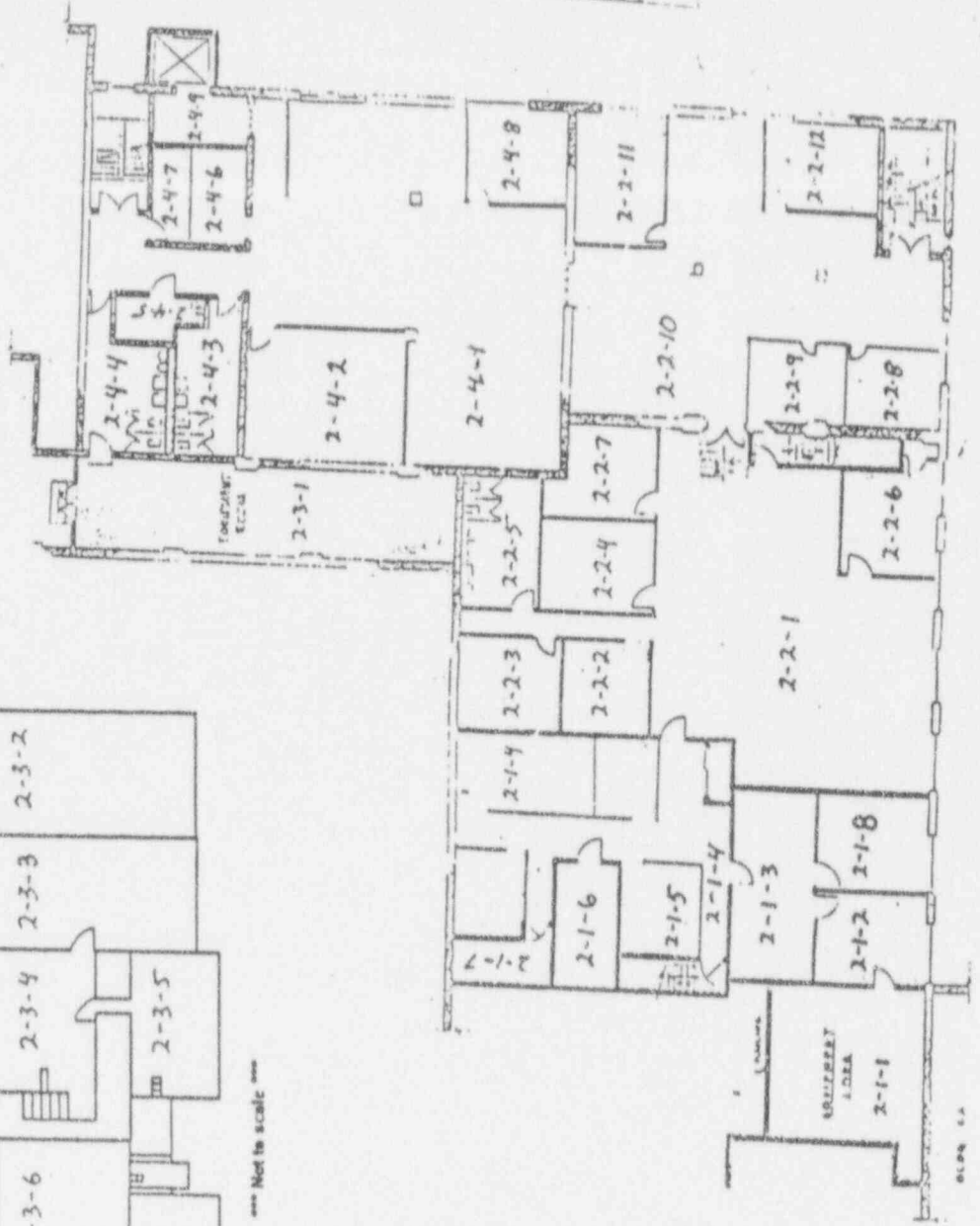
North



Above P.V. Labs



*** Not to scale ***



High bay east rear
Bldg. 5

(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	297
	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	18.8%	5.3	2	*	FLMON:91943	28.8%	3.47	1177

SURVEY DATE: 3/16/93
 COUNT DATE: 3/17/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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.		SNEAR LEVELS IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
West Wall	N/A	2, -2	N/A	N/A	426	375	0	317	-0.264	3.59	
"	"	4, -2	"	"	445	375	0	336	-0.264	-2.49	
"	"	6, -2	"	"	425	375	3	349	-0.264	-2.49	
"	"	8, -2	"	"	419	375	0	333	-0.264	-2.49	
East Wall	"	2, -1.5	"	"	403	375	2	293	-0.264	3.59	
"	"	4, -1.5	"	"	398	350	1	325	-0.264	-2.49	
"	"	6, -1.5	"	"	381	350	1	325	-0.264	-2.49	
"	"	8, -1.5	"	"	402	350	2	358	-0.264	3.41	
South Wall	"	2, -1.5	"	"	498	450	0	467	-0.264	-2.49	Brick
"	"	4, -1.5	"	"	539	450	0	466	-0.264	3.59	"
"	"	6, -1.5	"	"	557	450	0	453	-0.264	-2.49	"
Floor	"	2, -2	9	.01	1203	1150	4	1278	-0.264	3.41	Floor monitor used for
"	"	2, -4	10	.01	1309	1250	4	1208	-0.264	-2.49	scans and 1 minute
"	"	2, -6	13	.01	1428	1375	4	1383	2.378	1.52	counts
"	"	4, -6	12	.015	1398	1350	6	1270	-0.264	9.31	"

FORM SERIAL #: 2-004 (Survey Section - Sequential survey #)	LOCATION # 2-1-9 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0362	SURVEYOR SIGNATURE: JS/MS <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			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	2	*	FLMON:91943	28.8%	3.47	1177

SURVEY DATE: 3/16/93
 COUNT DATE: 3/17/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	4, -4	10	.01	1280	1240	3	1249	-0.264	3.59	Tile on Concrete
"	"	6, -2	9	.01	1267	1200	10	1158	-0.264	-2.49	"
"	"	6, -4	11	.02	1305	1250	4	1256	-0.264	-2.49	"
"	"	6, -6	13	.01	1425	1375	5	1373	-0.264	9.31	"
"	"	8, -6	12	.01	1300	1225	3	1323	-0.264	-2.49	"
"	"	8, -4	9	.01	1320	1250	7	1213	-0.264	-2.49	"
"	"	8, -2	9	.01	1203	1175	3	1177	-0.264	-2.49	"
"	"	12, -2	11	.01	1166	1100	1	1118	-0.264	3.59	Painted Concrete
"	"	14, -6	12	.01	1553	1475	2	1506	-0.264	-2.49	"

FORM SERIAL #: 2-004 (Survey Section - Sequential survey #)	LOCATION # 2-1-9 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: IV (Group I, II, III, IV)	DISK FILE CODE: FDS-0363	SURVEYOR SIGNATURE: <i>[Signature]</i>
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LB5100W Low Background Counting System - Smear Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 14.35

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

Application Version: Standard

Batch ID: TSB- 2-1-9 floor and walls

Carrier	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion 100	
	DPM	σ	Flags	MDA	DPM	σ					Flags
1	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	-0.100	1.79	3/17/93 9:46
2	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:47
3	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:47
4	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:48
5	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	-0.100	1.79	3/17/93 9:49
6	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:49
7	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-0.100	-1.24	3/17/93 9:50
8	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	-0.100	1.70	3/17/93 9:50
9	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-0.100	-1.24	3/17/93 9:51
10	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	-0.100	1.79	3/17/93 9:51
11	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:52
12	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	-0.100	1.70	3/17/93 9:52
13	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:53
14	2.378	2.80	<AL	11.27	1.52	3.63	<MDA	15.88	0.900	0.76	3/17/93 9:54
15	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	-0.100	4.64	3/17/93 9:54
16	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	-0.100	1.79	3/17/93 9:55
17	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:55
18	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-0.100	-1.24	3/17/93 9:56
19	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	-0.100	4.64	3/17/93 9:56
20	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:57
21	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-0.100	-1.24	3/17/93 9:58
22	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:58
23	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	-0.100	1.79	3/17/93 9:59
24	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	-0.100	-1.24	3/17/93 9:59
25	-0.264	1.60	<MDA	28.10	9.44	7.86	<MDA	35.06	-0.100	1.70	3/17/93 10:00

Smear Data Not Needed

LB5100W Low Background Counting System – Smear Analysis

Date: 3/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020109.XLD
 Batch Ende: 3/17/93 10:07
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2-1-9 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	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/17/93 10:00
27	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 10:01
28	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:01
29	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:02
30	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:02
31	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:03
32	2.378	2.80	<AL	11.27	3.53	4.14	<MDA	15.88	1.00	0.900	1.76	3/17/93 10:04
33	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:04
34	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:05
35	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:05
36	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 10:06
37	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:06
38	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 10:07
39	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 10:07

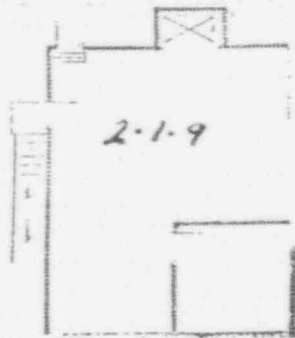
—: SMEAR DATA NOT NEEDED

Building 5 Second Floor

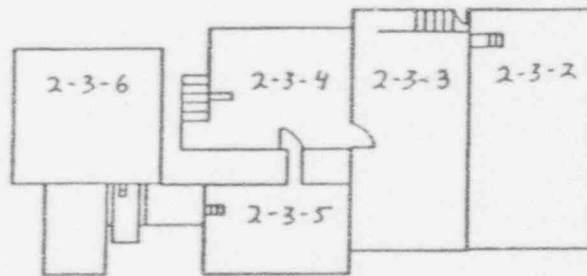
North



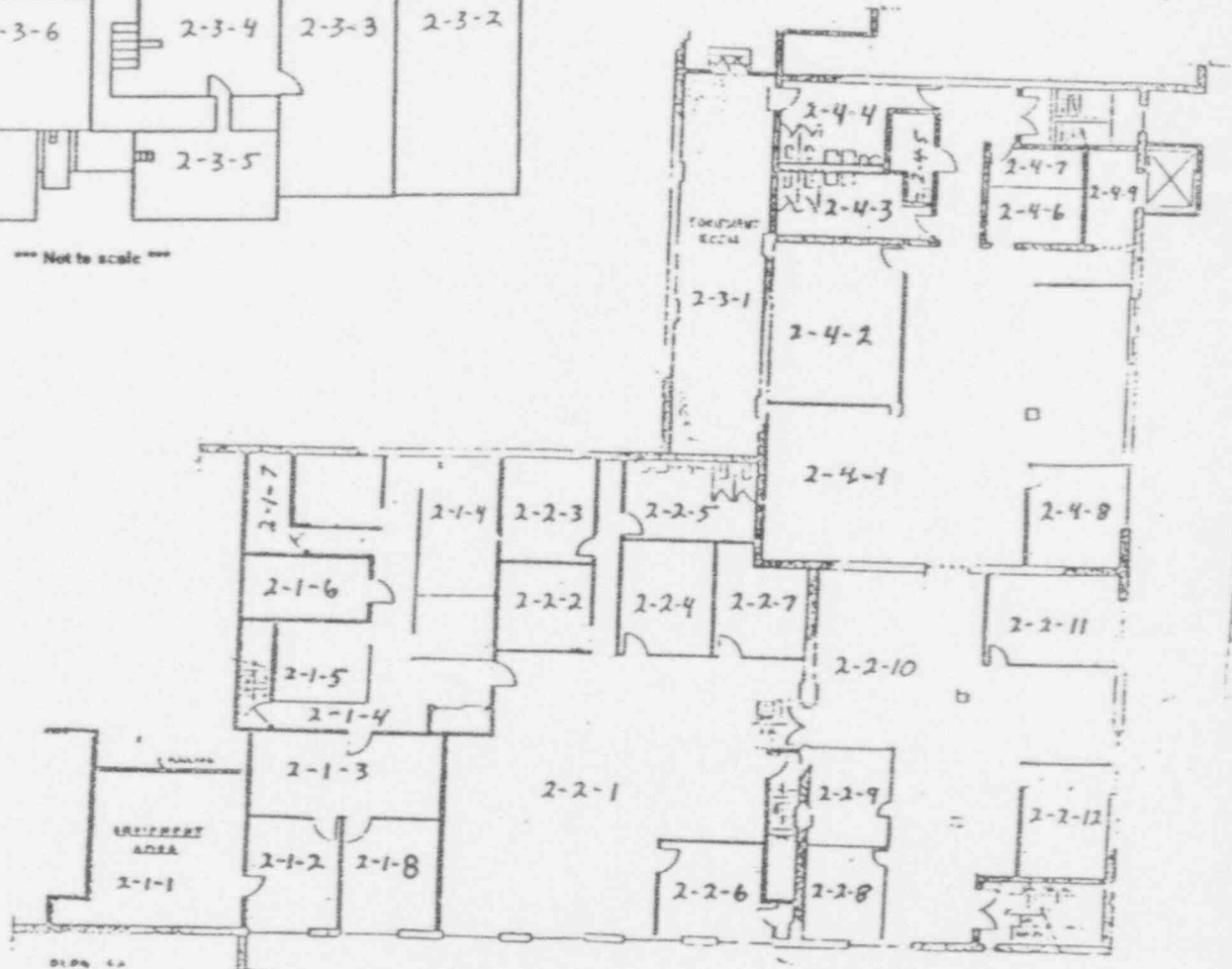
Above P.V. Labs



High bay east rear
Bldg. 5



*** Not to scale ***



APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR UNIT 2

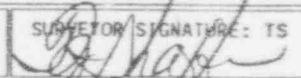
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/W	EFF	C.F.	BKG CPM		INST: S/W	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	ESP2:					ESP2:			
	ESP2:					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	18.8%	5.3	10	*	FLMON:91943	28.8%	3.47	1270

SURVEY DATE: 3/17/93
COUNT DATE: 3/17/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/W	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -2	10	.2	1228	1180	13	1270	-0.264	-2.49	
"	"	2, -4	11	.02	1260	1200	15	1173	-0.264	-2.49	
"	"	2, -6	10	.01	1359	1250	15	1261	-0.264	-2.49	
"	"	2, -8	10	.02	1262	1150	13	1177	-0.264	-2.49	
"	"	4, -8	9	.02	1278	1150	12	1301	-0.264	-2.49	
"	"	4, -10	11	.01	1340	1250	8	1318	-0.264	3.41	
"	"	4, -12	12	.02	1364	1250	13	1211	-0.264	-2.49	
"	"	4, -6	9	.02	1361	1250	12	1281	-0.264	3.59	
"	"	4, -4	9	.02	1269	1200	12	1133	-0.264	-2.49	
"	"	4, -2	9	.01	1334	1225	8	1223	-0.264	3.59	
"	"	6, -2	10	.02	1199	1150	17	1147	-0.264	-2.49	
"	"	6, -4	10	.02	1222	1125	9	1121	-0.264	-2.49	
"	"	6, -6	8	.01	1241	1175	13	1213	-0.264	-2.49	
"	"	6, -4	10	.01	1207	1125	14	1181	-0.264	-2.49	
"	"	6, -6	8	.02	1209	1175	13	1213	-0.264	3.59	

FORM SERIAL #: 2-007 (Survey Section - Sequential survey #)	LOCATION # 2-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0371	SUPERVISOR 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			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	10	*	FLMON:91943	28.8%	3.47	1270

SURVEY DATE: 3/17/93
COUNT DATE: 3/17/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	6, -12	9	.01	1241	1175	17	1175	-0.264	-2.49	
"	"	8, -10	11	.01	1238	1175	17	1252	-0.264	9.31	
"	"	8, -8	9	.02	1252	1200	15	1173	-0.264	-2.49	
"	"	8, -6	10	.01	1253	1175	14	1194	-0.264	3.59	
"	"	8, -4	8	.02	1330	1250	14	1220	-0.264	-2.49	
"	"	8, -2	10	.01	1340	1250	11	1244	-0.264	-2.49	
"	"	12, -6	8	.01	1228	1175	16	1224	-0.264	9.31	
"	"	14, -6	10	.01	1222	1150	12	1162	-0.264	9.66	
"	"	16, -6	11	.01	1334	1250	23	1243	2.378	1.52	

FORM SERIAL #: 2 - 007 (Survey Section - Sequential survey #)	LOCATION # 2-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0372	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/17/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020201.XL.D
 Batch Ended: 3/17/93 16:10
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB 2-2-1 floor

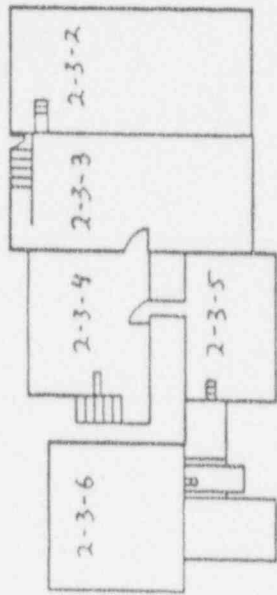
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
6	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 15:57
7	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 15:58
8	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 15:58
9	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 15:59
10	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 15:59
11	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/17/93 16:00
12	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 16:00
13	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/17/93 16:01
14	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 16:01
15	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 16:02
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 16:02
17	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 16:03
18	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 16:03
19	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 16:04
20	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 16:04
21	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 16:05
22	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/17/93 16:05
23	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 16:06
24	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/17/93 16:06
25	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/17/93 16:07
26	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/17/93 16:07
27	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/17/93 16:08
28	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/17/93 16:08
29	2.378	2.80	<AL	11.27	1.52	3.63	<MDA	15.88	1.00	0.900	0.76	3/17/93 16:10

Building 5 Second Floor

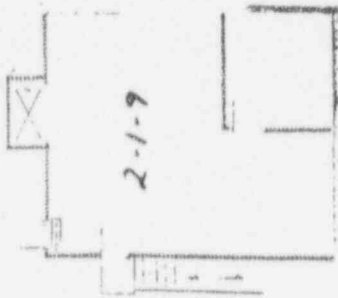
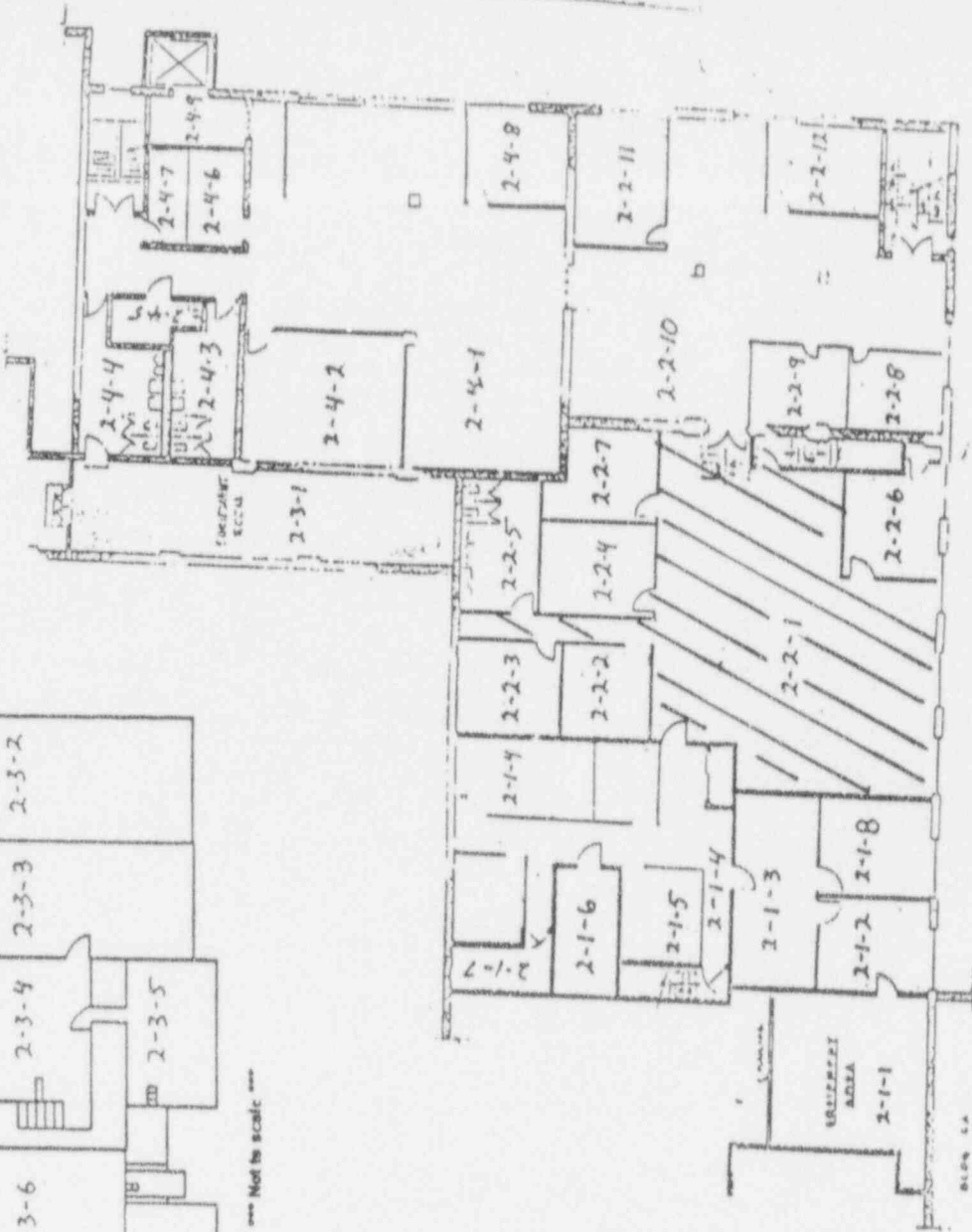
North



Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5

(*)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	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	271
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/19/93
COUNT DATE: 3/19/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	
West Wall	N/A	2, -1	N/A	N/A	289	260	4	261	7.741	3.59	Cement Block
"	"	6, -1	"	"	295	255	2	263	-0.264	-2.49	"
North Wall	"	2, -1	"	"	360	330	3	321	-0.264	-2.49	"
"	"	6, -1	"	"	240	290	4	285	-0.264	-2.49	"
South Wall	"	2, -1	"	"	361	310	4	321	-0.264	3.41	"
Ceiling Beam	"	2, -7	"	"	227	190	5	186	-0.264	-2.49	Steel/Concrete
Ceiling	"	2, -1	"	"	249	220	0	226	-0.264	-2.49	"
"	"	6, -2	"	"	257	220	0	224	-0.264	-2.49	"
Ceiling Beam	"	6, -4	"	"	229	200	0	197	-0.264	3.41	"
Ceiling	"	8, -4	"	"	271	200	4	196	7.506	3.41	"
Ceiling Beam	"	8, -6	"	"	197	160	6	157	7.741	-2.49	"
Ceiling	"	6, -10	"	"	261	225	11	224	-0.264	9.66	"
"	"	8, -10	"	"	271	240	3	217	-0.264	-2.49	"
"	"	8, -12	"	"	311	260	6	262	-0.264	-2.49	"
"	"	8, -12	"	"	243	210	2	207	-0.264	-2.49	"

FORM SERIAL #: 2 - 016 (Survey Section - Sequential survey #)	LOCATION # 2-2-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS -0378	SURVEYOR SIGNATURE: LS/MS <i>W. Blaffer</i>
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LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency log file: po210.ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 14.35

Date: 3/19/93

Counting Unit id: 1

Data file name: C:\BXL\UNIT\02020\HIF\XLD

Batch Ended: 3/19/93 13:57

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137.ab

Beta Efficiency: 49.89%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

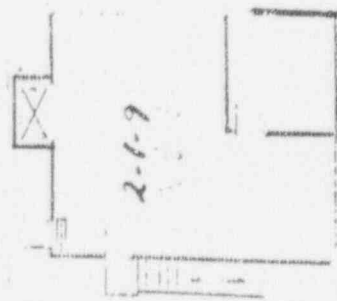
Application Version: Standard

Batch ID: USB 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
1	7.741	8.17	At AL	26.84	3.59	7.74	<MDA	34.63	2.930	1.79	3/19/93 13:50
2	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.100	-1.24	3/19/93 13:50
3	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.100	-1.24	3/19/93 13:51
4	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.100	-1.24	3/19/93 13:51
5	0.264	1.63	<MDA	28.10	3.41	7.06	<MDA	33.88	0.100	1.70	3/19/93 13:52
6	0.264	1.63	<MDA	28.10	2.49	3.87	<MDA	33.88	0.100	-1.24	3/19/93 13:52
7	0.264	1.63	<MDA	28.10	2.49	3.87	<MDA	33.88	0.100	-1.24	3/19/93 13:53
8	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.100	-1.24	3/19/93 13:53
9	0.264	1.63	<MDA	28.10	3.41	7.06	<MDA	33.88	0.100	1.70	3/19/93 13:54
10	7.506	7.94	At AL	28.10	3.41	7.06	<MDA	33.88	2.841	1.70	3/19/93 13:54
11	7.741	8.17	At AL	28.84	2.49	3.93	<MDA	34.63	2.930	1.24	3/19/93 13:55
12	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.100	4.82	3/19/93 13:55
13	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.100	-1.24	3/19/93 13:56
14	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.100	-1.24	3/19/93 13:57
15	0.264	1.63	<MDA	28.10	2.49	3.87	<MDA	33.88	0.100	-1.24	3/19/93 13:57

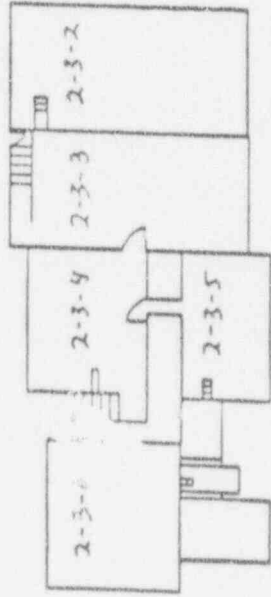
Building 5 Second Floor

North
←

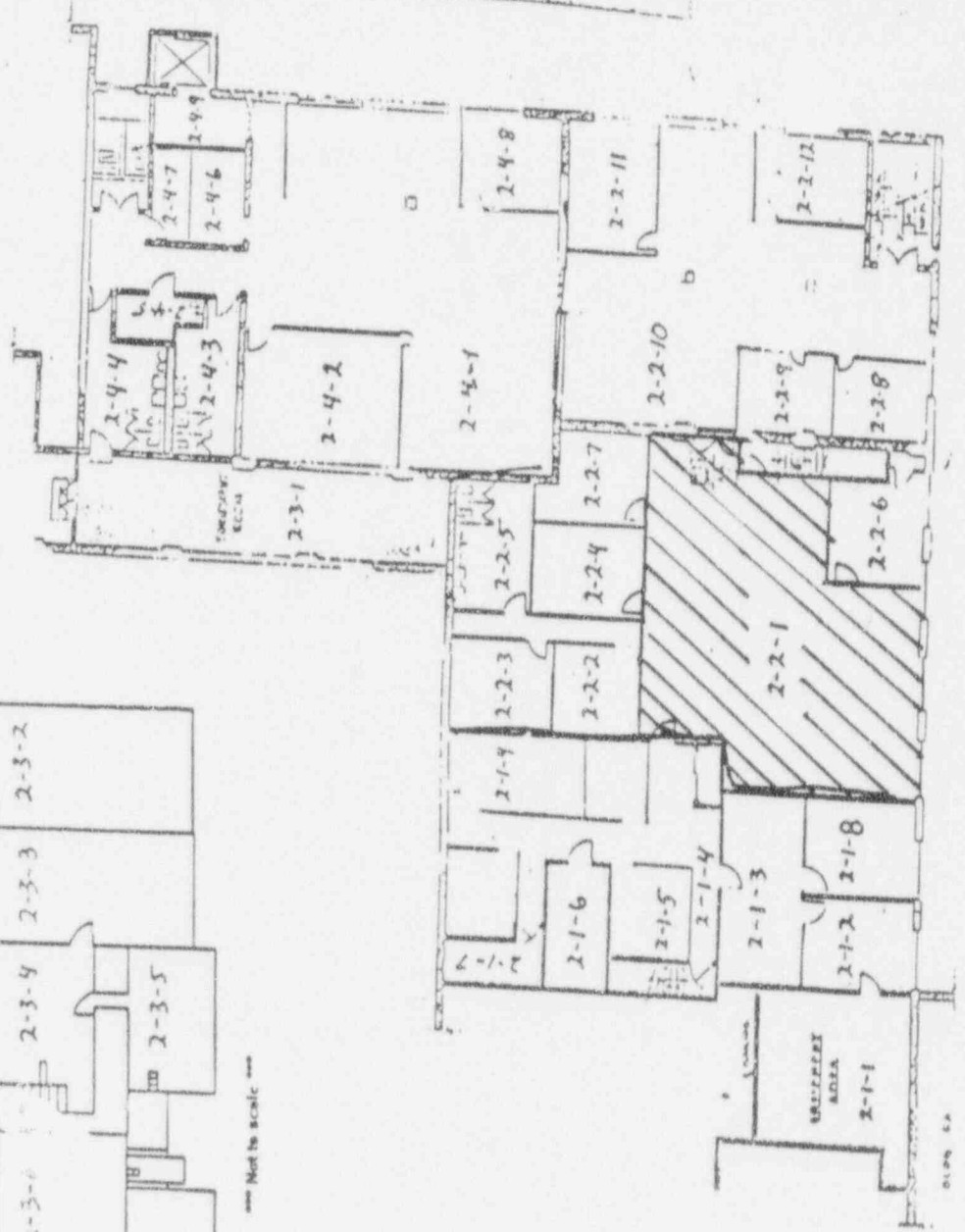


High bay east rear
Bldg. 5

Above P.V. Labs



--- Must be scenic ---



LB5100W Low Background Counting System -- Smear Analysis

Date: 3/19/93

Counting Unit Id: 1

Data file name: C:\LBX\UNIT1\020208IP.XLD

Batch Ended: 3/19/93 14:00

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: 14.5

Application Revision: 2

Application Version: Standard

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Batch ID: TSB - 2 - 2 - 6 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
16	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	1.79	3/19/93 13:58	
17	7.741	8.17	At AL	28.84	2.49	3.93	<MDA	34.63	0.33	-1.24	3/19/93 13:58	
18	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	1.79	3/19/93 13:59	
19	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	1.70	3/19/93 13:59	
20	0.264	1.33	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	1.79	3/19/93 14:00	

(*)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	
*	ESP2:1601-L	23.1%	4.33	2	*	ESP2:1588-L	34.3%	2.91	271
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/19/93
COUNT DATE: 3/19/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.45	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -.7	N/A	N/A	563	508	4	523	-0.264	-2.49	Brick
"	"	4, -.7	"	"	516	479	3	538	-0.264	-2.49	"
"	"	6, -.7	"	"	595	498	3	487	-0.264	-2.49	"
East Wall	"	4, -.7	"	"	433	380	0	453	-0.264	-2.49	"
"	"	6, -.7	"	"	432	375	3	396	-0.264	3.59	"
South Wall	"	2, -.7	"	"	405	331	5	361	-0.264	-2.49	"

FORM SERIAL #: 2 - 018 (Survey Section - Sequential survey #)	LOCATION # 2-2-10 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0380	SURVEYOR SIGNATURE: MS/LS <i>M. Shaffer</i>
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/19/93
 Counting Unit id: 1
 Data file name: C:\BXL\UNIT1\020210UP.XLD
 Batch Ended: 3/19/93 14:03
 Crosstalk Correction: Not Applied

Alpha activity action level (DPM): 10.00
 Beta activity action level (DPM): 200.00
 Certainly level for MDA and flags: 95.00%
 High Voltage Setting: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

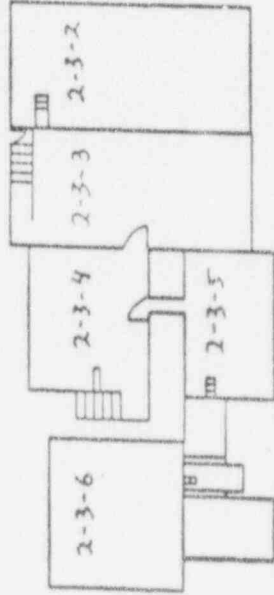
Batch ID: TSB - 2 2-10 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
21	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/19/93 14:00
22	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 14:01
23	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 14:01
24	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 14:02
25	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/19/93 14:02
26	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/19/93 14:03

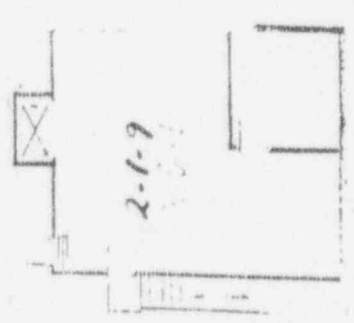
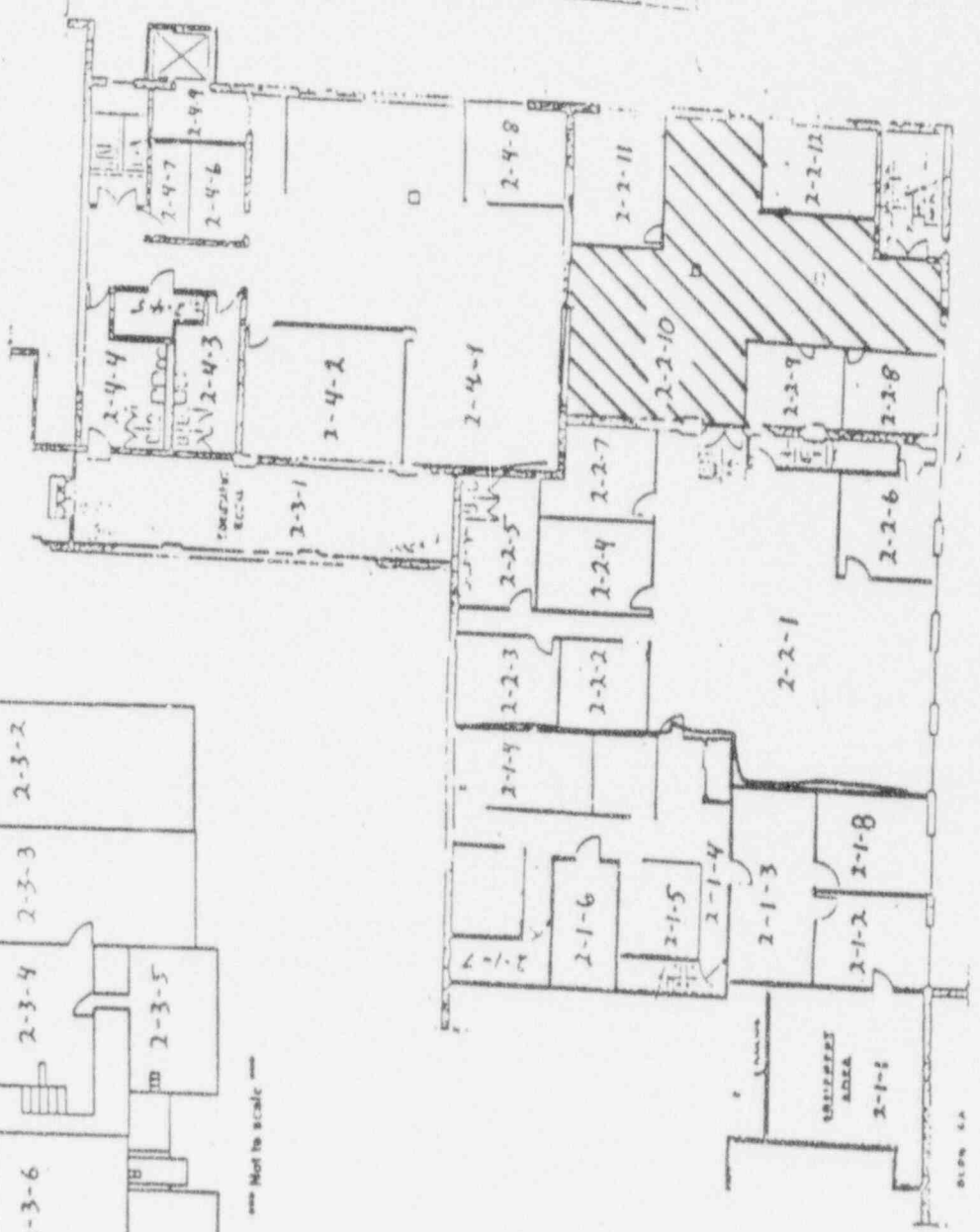
Building 5 Second Floor

North
←

Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5

(*)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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	8	*	FLMON:91943	28.8%	3.47	1160

SURVEY DATE: 3/19/93
COUNT DATE: 3/19/93

(*)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/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 184B	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -2	14	.01	1410	1350	8	1399	-0.264	3.41	
"	"	4, -2	15	.01	1421	1375	14	1328	-0.264	-2.49	
"	"	6, -2	17	.01	1357	1275	17	1282	-0.264	-2.49	
"	"	6, -4	17	.02	1271	1200	14	1242	-0.264	3.53	
"	"	4, -4	14	.01	1417	1350	13	1325	-0.264	-2.49	
"	"	2, -4	13	.01	1323	1250	11	1294	-0.264	7.54	
"	"	2, -6	12	.01	1191	1125	9	1266	-0.264	3.41	
"	"	4, -6	13	.01	1154	1075	12	1163	-0.264	-2.49	
"	"	6, -6	15	.01	1271	1200	9	1251	7.741	-2.49	
"	"	2, -8	12	.01	1237	1175	8	1160	7.741	-2.49	

FORM SERIAL #: 2 - 025 (Survey Section - Sequential survey #)	LOCATION # 2-2-10 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0388	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 3/19/93
 Counting Unit id: 1
 Data file name: C:\LBXI\UNIT1\020210.XLD
 Batch Ended: 3/19/93 12:50
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210a0
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137a0
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2-2-10 floor and walls

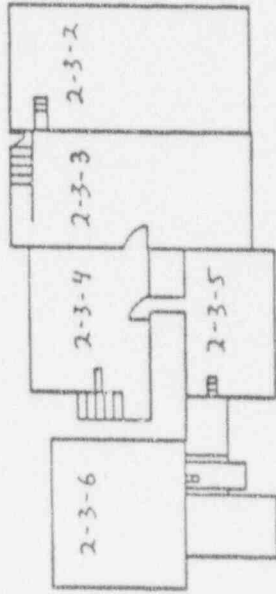
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
31	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/19/93 12:45
32	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 12:45
33	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/19/93 12:46
34	0.264	0.93	<MDA	11.27	3.53	4.14	<MDA	15.88	1.00	0.100	1.76	3/19/93 12:47
35	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 12:47
36	0.264	0.93	<MDA	11.27	7.54	5.02	<AL	15.88	1.00	-0.100	3.76	3/19/93 12:48
37	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/19/93 12:49
38	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/19/93 12:49
39	7.741	8.17	At AL	28.84	-2.49	3.93	<MDA	34.63	0.33	2.930	-1.24	3/19/93 12:50
40	7.741	8.17	At AL	28.84	-2.49	3.93	<MDA	34.63	0.33	2.930	-1.24	3/19/93 12:50

Building 5 Second Floor

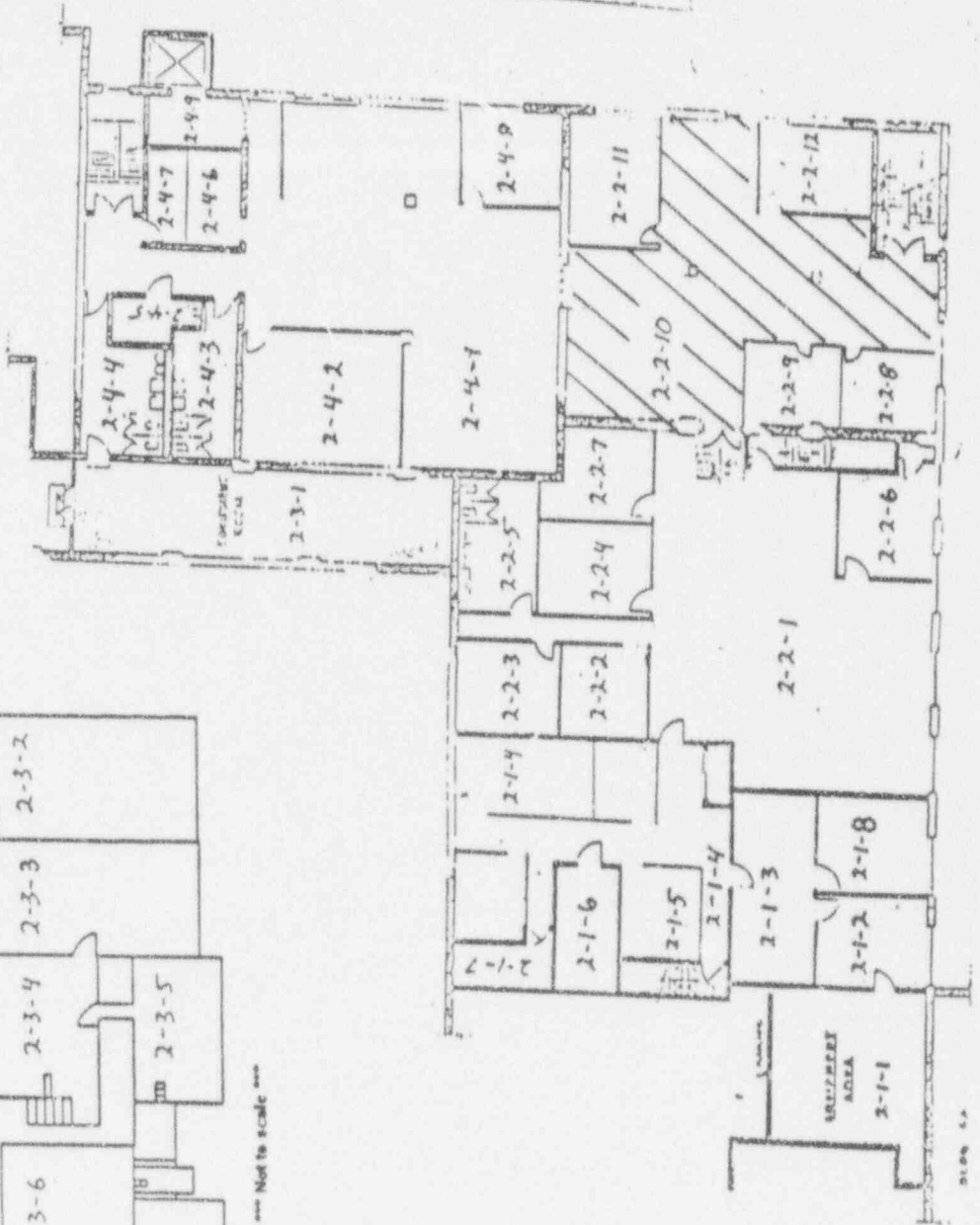
North



Above P.V. Labs



*** Not to scale ***



PLAN 5.2



High bay east rear
Bldg. 5

LB5100W Low Background Counting System – Smear Analysis

Date: 3/19/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020212UP.XLD
 Batch Ended: 3/19/93 14:05
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2-2-12 upper surfaces

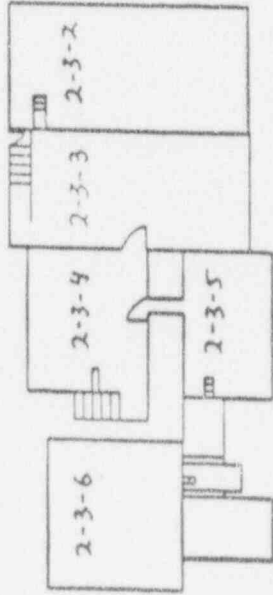
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
27	7.741	8.37	At AL	28.84	2.49	3.93	<MDA	34.63	0.33	2.930	-1.24	3/19/93 14:03
28	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	-1.24	3/19/93 14:04
29	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 14:04
30	0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 14:05

Building 5 Second Floor

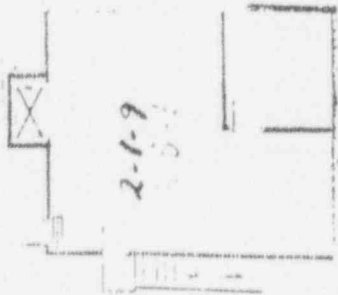
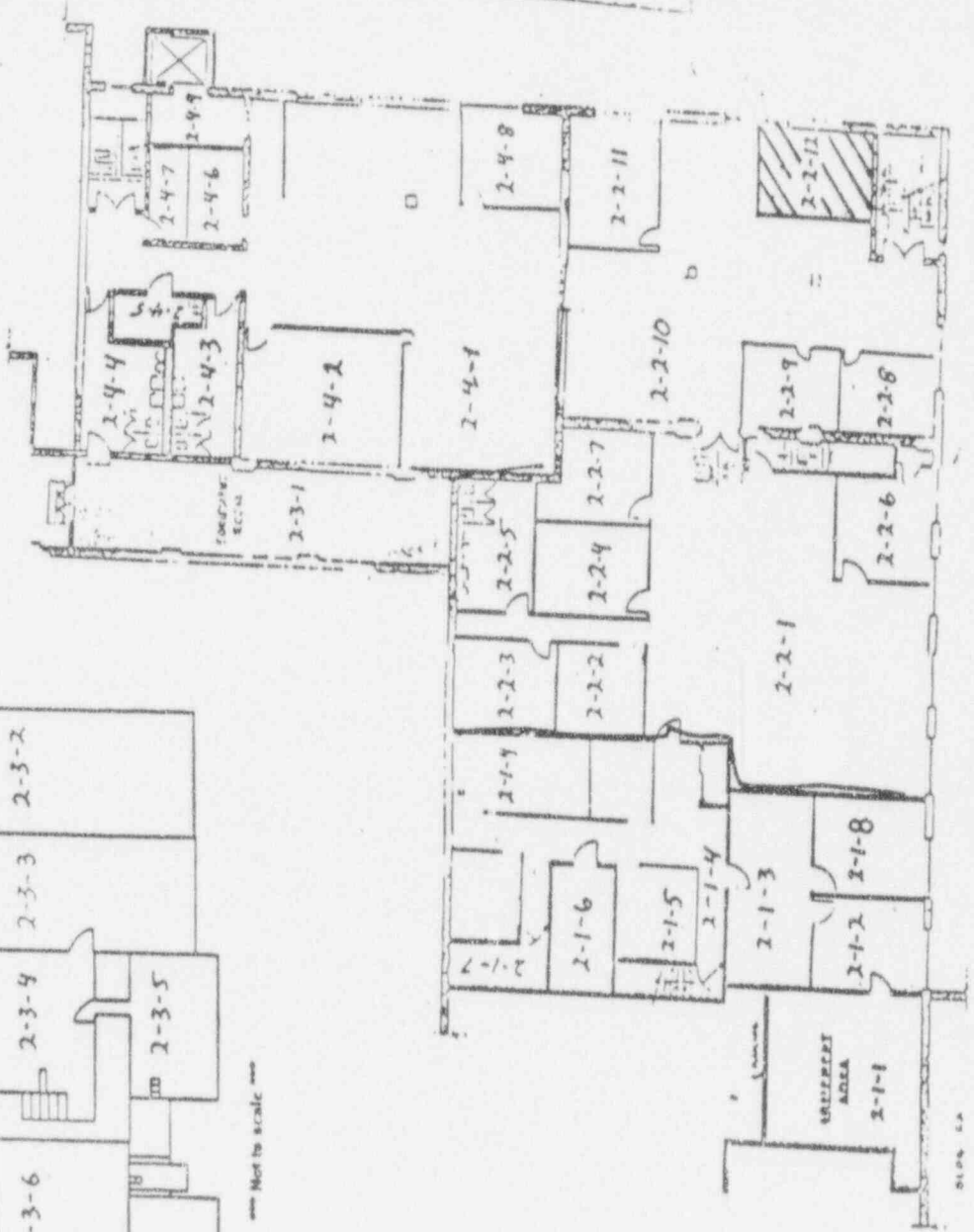
North



Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5

APPENDIX C

RADIOLOGICAL SURVEY DATA SHEETS FOR 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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	4	*	ESP2:1595-L	31.3%	3.20	125
	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: 2/9/93
COUNT DATE: 2/9/93

(*)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	.016 mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	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	
South Wall, Brick	2, -1	N/A	N/A	N/A	279	200	.999	275	-0.264	9.31	ESP's used for smears
"	4, -1	"	"	"	302	260	2	293	-0.264	9.66	& 1 minute counts
"	6, -1	"	"	"	264	200	3	248	-0.264	3.59	"
"	8, -1	"	"	"	285	240	2	292	-0.264	-2.49	"
"	14, -1	"	"	"	331	270	.999	314	-0.264	-2.49	"
West Wall, Brick	2, -1	"	"	"	240	190	0	237	-0.264	-2.49	"
Compressor Base	12, -2	(Floor)	8	.018	120	80	0	125	-0.264	3.41	"

FORM SERIAL #: 2-003 (Survey Section - Sequential survey #)	LOCATION # 2-3-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0241	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

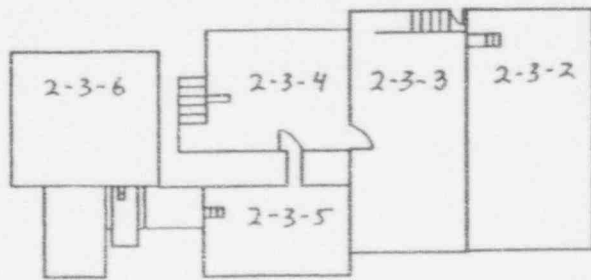
Date: 2/9/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020301.XLD
 Batch Ended: 2/9/93 9:01
 Crosstalk Correction: Not Applied

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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2-3-1 walls and miscellaneous surfaces

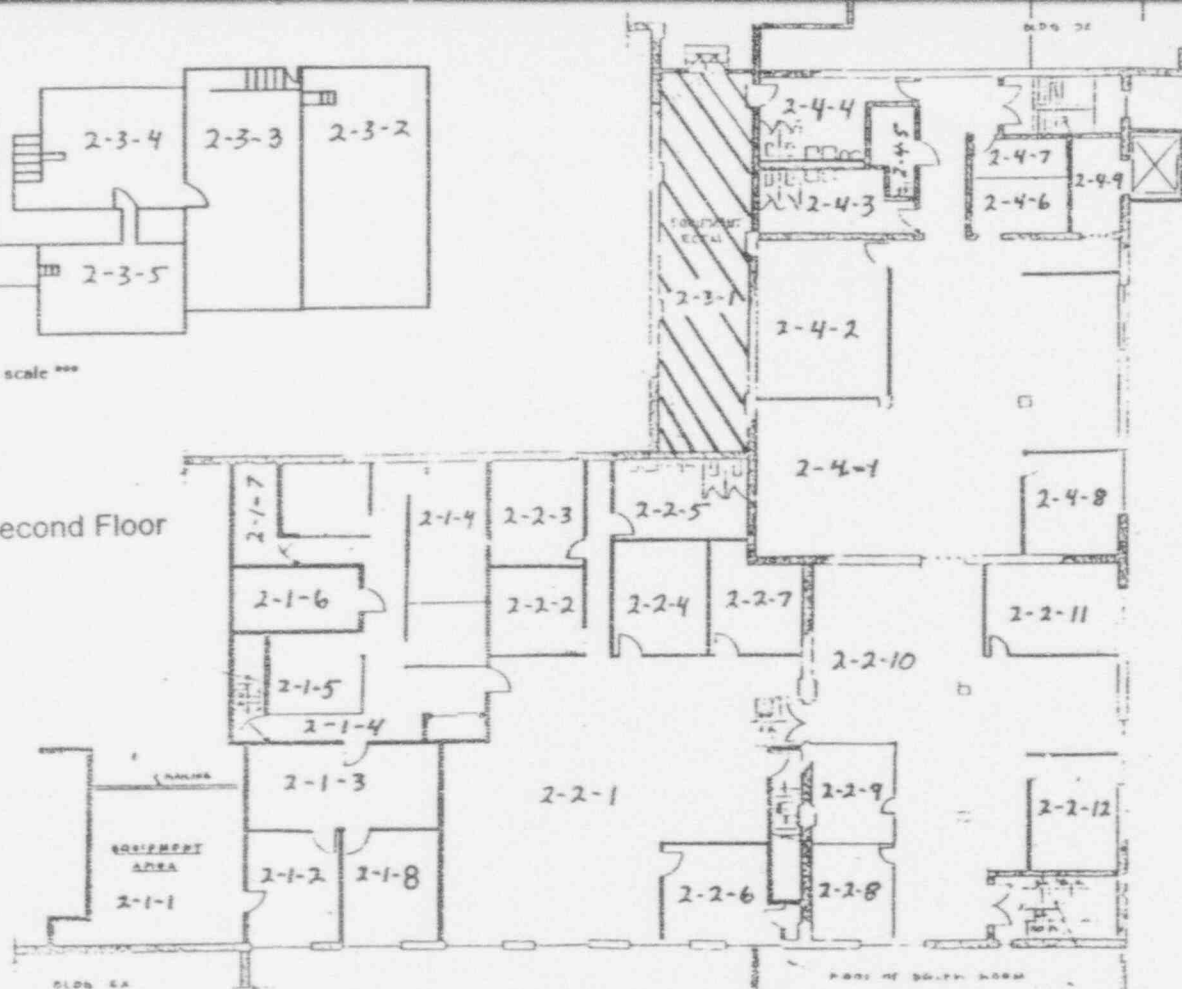
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	2/9/93 8:58
2	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	2/9/93 8:58
3	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	2/9/93 8:59
4	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/9/93 8:59
5	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/9/93 9:00
6	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/9/93 9:00
7	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/9/93 9:01



*** Not to scale ***

Building 5 Second Floor

North



LEGEND

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

SCALE : FEET

REV	DATE	DESCRIPTION OR REVISION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
PARTS LIST								
UNLESS OTHERWISE SPECIFIED			CONTRACT NO.			WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION		
DIMENSIONS ARE PER UNLESS OTHERWISE SPECIFIED			DATE			Pittsburgh, Pennsylvania		
TOLERANCES - DO NOT SCALE			MATERIAL			SECOND FLOOR		
FIN.	INT.	ANGLE	FIN.	INT.	ANGLE	FIN.	INT.	ANGLE
SPECIFICATIONS			DRAWING NO.			D 14683		
DATE			SCALE			JN 011		
						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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	285
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/23/93
COUNT DATE: 3/23/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -1.1	N/A	N/A	484	400	2	405	-0.264	-2.49	Brick
"	"	4, -1.1	"	"	429	350	10	398	-0.264	-2.49	"
South Wall	"	2, -1.1	"	"	544	430	3	373	-0.264	9.66	"
"	"	4, -1.1	"	"	515	440	2	352	-0.264	3.59	"
"	"	6, -1.1	"	"	478	400	1	453	-0.264	3.41	"
"	"	8, -1.1	"	"	380	320	3	313	-0.264	3.41	"
"	"	10, -1.1	"	"	479	420	3	400	-0.264	9.31	"
"	"	12, -1.1	"	"	506	370	4	323	-0.264	-2.49	"
"1" Beam/N. Wall	"	3.7, -1	"	"	202	160	2	224	-0.264	-2.49	Steel
"	"	9, -1	"	"	398	310	2	230	-0.264	-2.49	"
South Wall	"	14, -1.1	"	"	475	370	2	416	-0.264	3.59	Brick

FORM SERIAL #: 2 - 033 (Survey Section - Sequential survey #)	LOCATION # 2-3-2 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS -0405	SURVEYOR SIGNATURE: [Signature]
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Handwritten signature: Jerry D...

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/23/93
 Counting Unit id: 1
 Data file name: C:\EXL\UNIT1\020302.XLD
 Batch Ended: 3/23/93 14:19
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2 3-2 walls

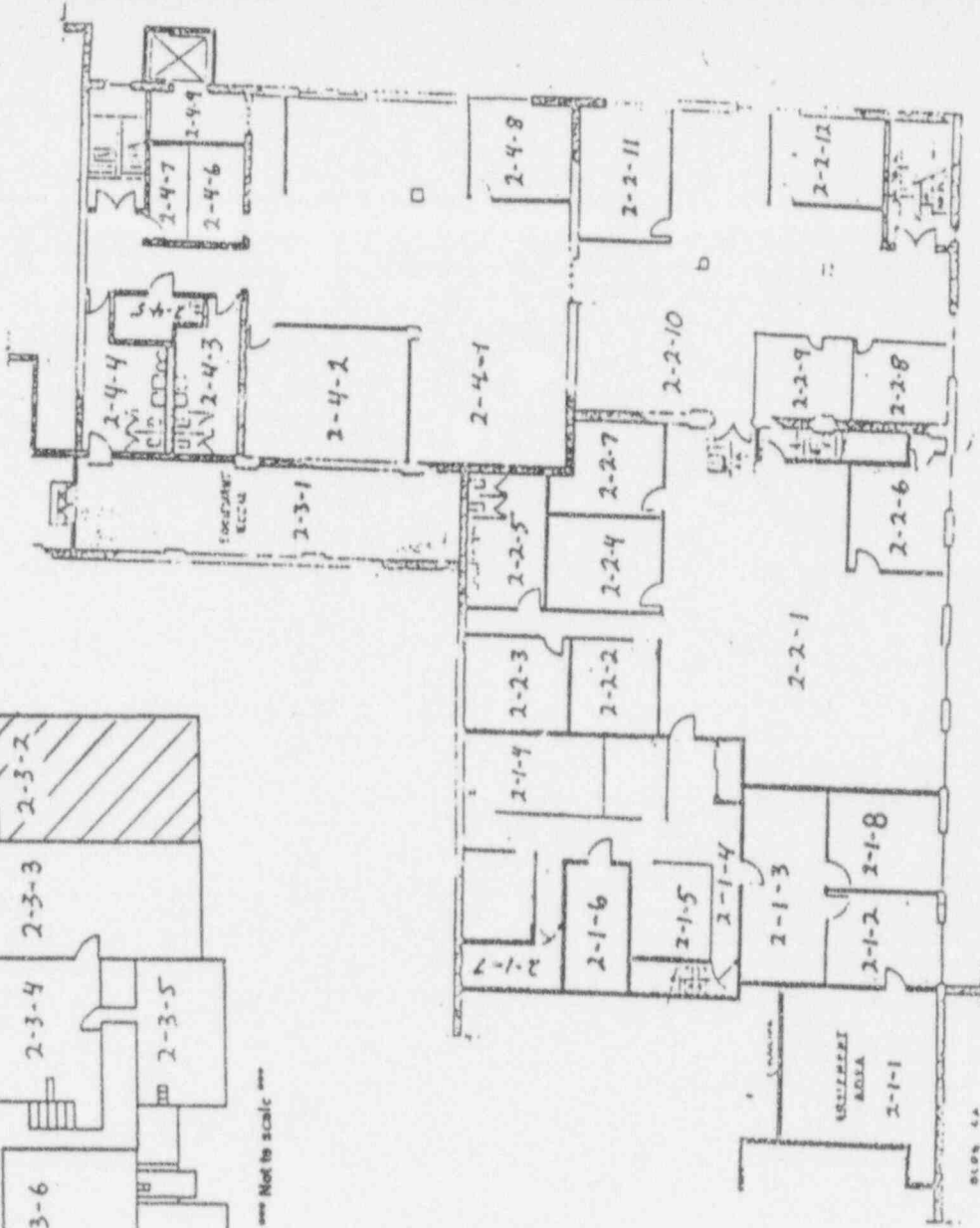
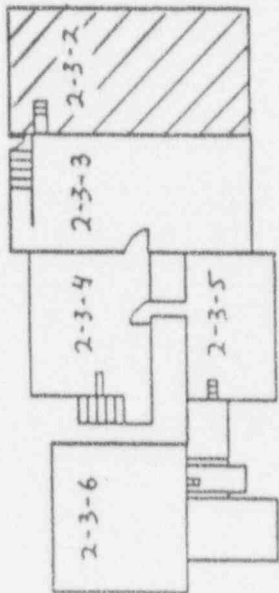
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 14:13
2	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.83	0.33	-0.100	-1.24	3/23/93 14:14
3	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/23/93 14:14
4	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/23/93 14:15
5	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/23/93 14:15
6	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/23/93 14:16
7	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/23/93 14:17
8	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 14:17
9	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 14:18
10	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 14:18
11	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/23/93 14:19

Building 5 Second Floor

North



Above P.V. Labs



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			SP2:1595	34.2%	2.92	
*	ESP2:1517-L	21.7%	4.60	.999	*	ESP2:1595-L	31.3%	3.20	120
	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: 2/8/93
COUNT DATE: 2/8/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2058	uR/hr
*	PRM7: 234	11 uR/hr
*	E520: 5242	.018 mr/hr
	E520: 5245	mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	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	49.9%	2.0	1.24
	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	2, -2	N/A	11	.023	138	90	0	115	-0.264	3.41	
Concrete	2, -4	"	12	.018	120	100	0	132	-0.264	-2.49	
"	4, -2	"	12	.017	120	105	3	109	-0.264	3.41	
"	4, -4	"	11	.014	161	120	0	126	-0.264	3.41	
"	6, -2	"	11	.013	129	80	0	120	-0.264	-2.49	
"	6, -4	"	14	.012	119	100	.999	101	-0.264	-2.49	

FORM SERIAL #: 2-001 (Survey Section - Sequential survey #)	LOCATION # 2-3-3 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: I (Group I, II, III, IV)	DISK FILE CODE: FDS-0226	SURVEYOR SIGNATURE: TB 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 2/8/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020303.XLD
 Batch Ended: 2/8/93 12:54
 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: 1435

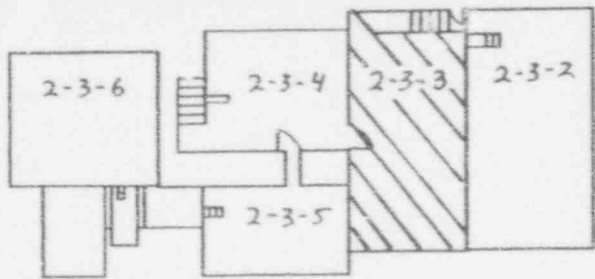
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: ISB - 2 3 3 floor

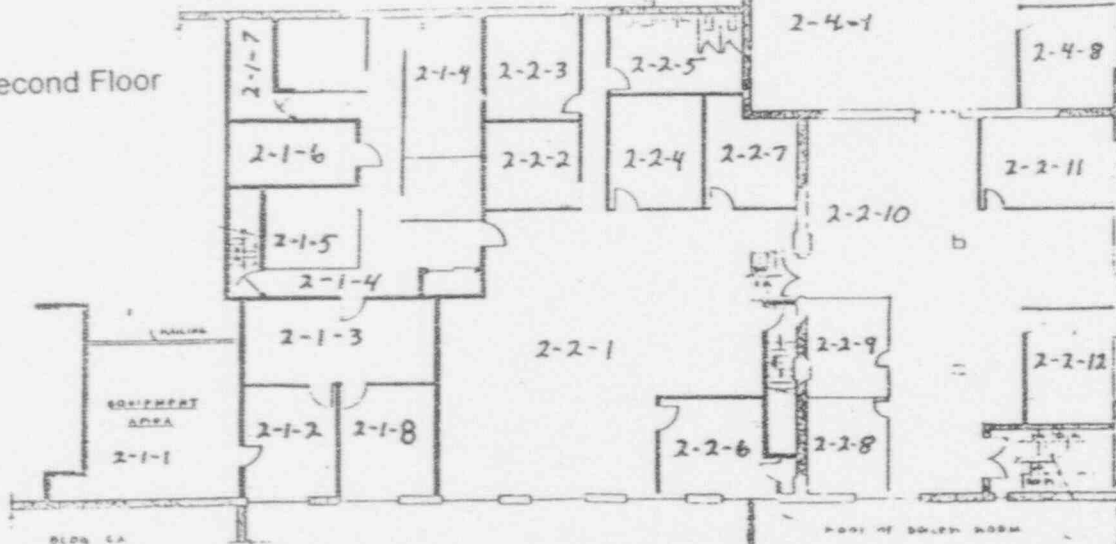
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
7	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/8/93 12:51
8	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/8/93 12:52
9	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/8/93 12:53
10	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/8/93 12:53
11	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/8/93 12:54
12	-0.264	1.63	<MDA	28.84	2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/8/93 12:54



*** Not to scale ***

Building 5 Second Floor

North
←



LEGEND

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

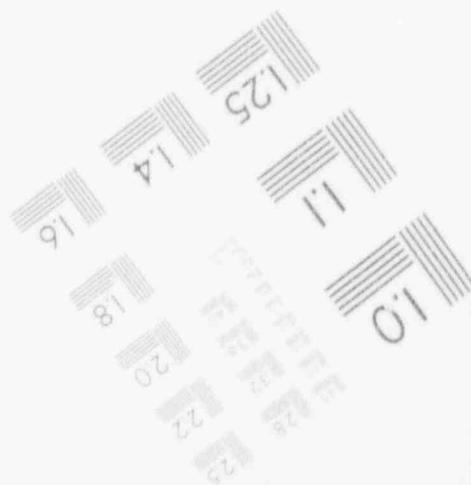
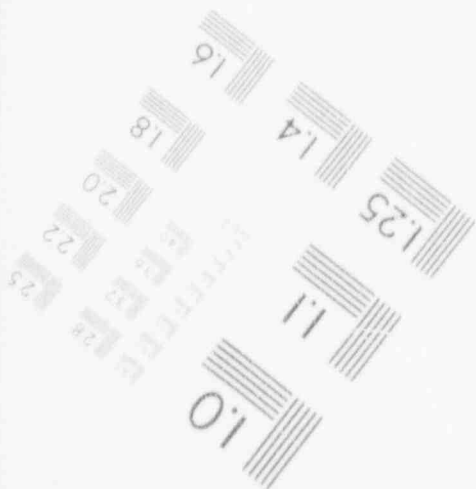
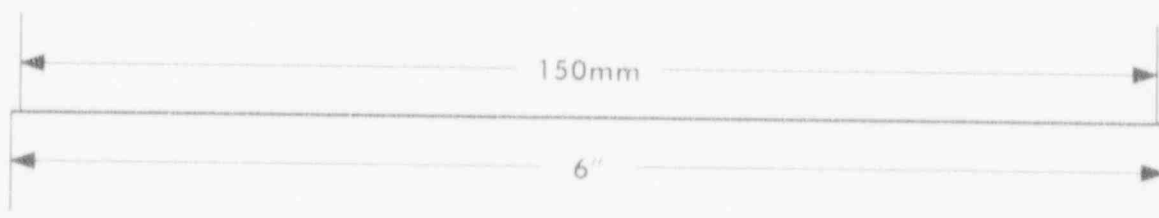
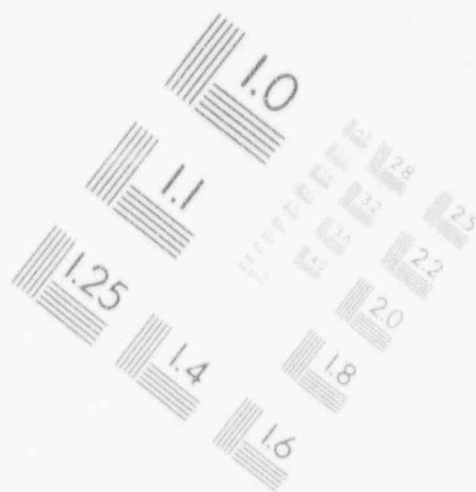
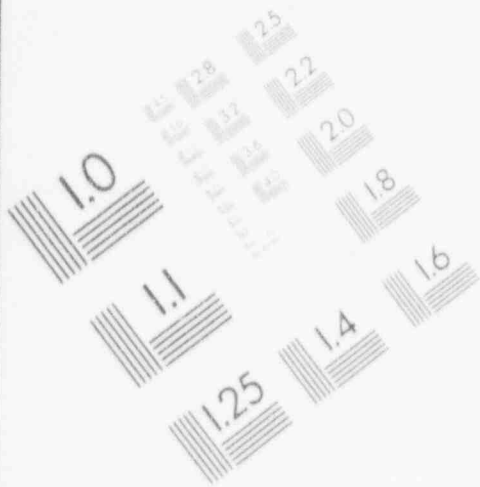
SCALE: FEET
0 5 10 15 20 25

QTY	UNIT	DESCRIPTION	QTY	UNIT	DESCRIPTION	QTY	UNIT	DESCRIPTION	QTY	UNIT	DESCRIPTION
PARTS LIST											
UNLESS OTHERWISE SPECIFIED						WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION Pittsburgh, Pennsylvania					
TOLERANCES - DO NOT SCALE						SECOND FLOOR BUILDING NO 5 BASED LARGE PA					
DWN						D 14683 JN 011 A					



2

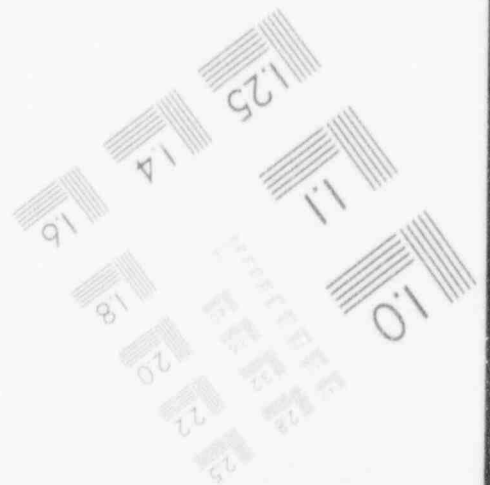
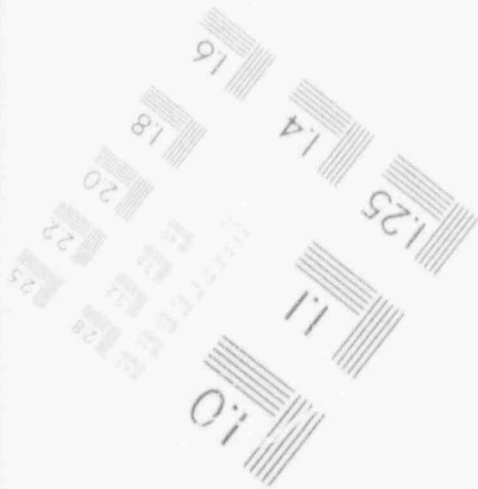
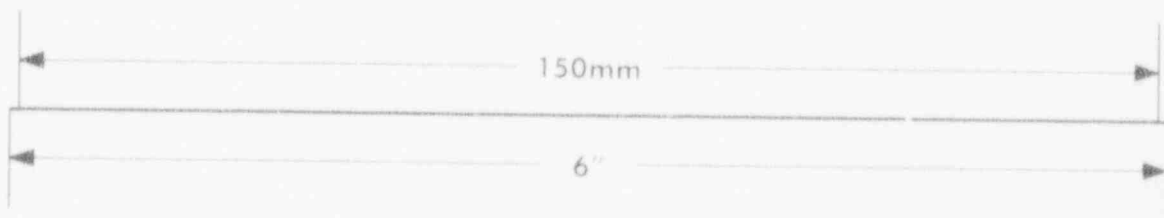
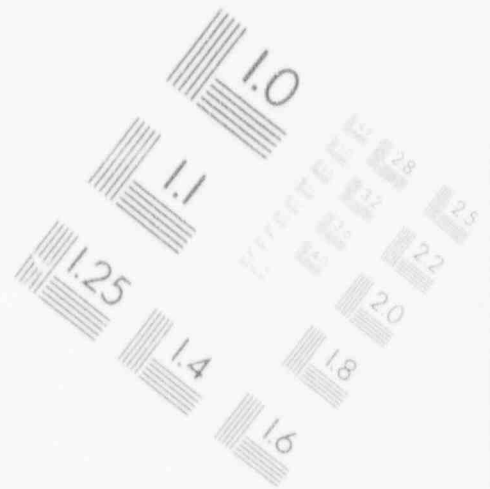
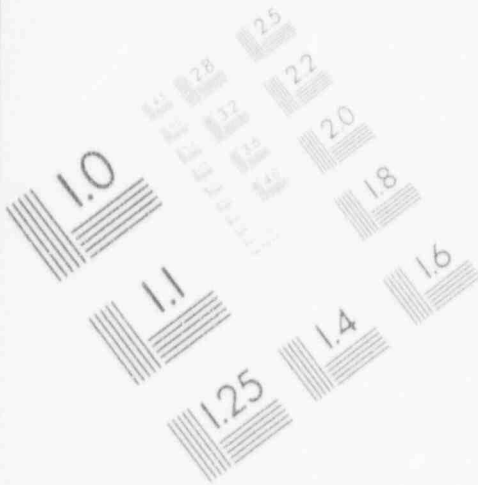
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

2

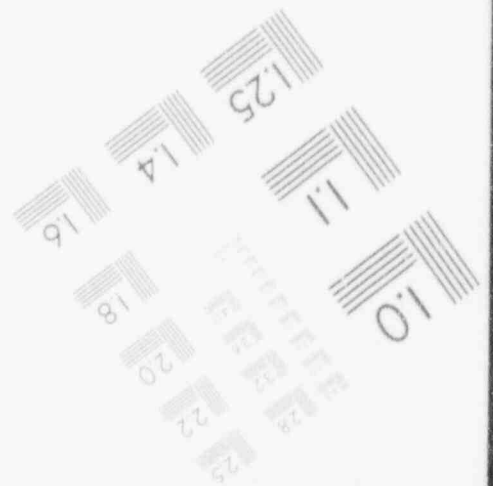
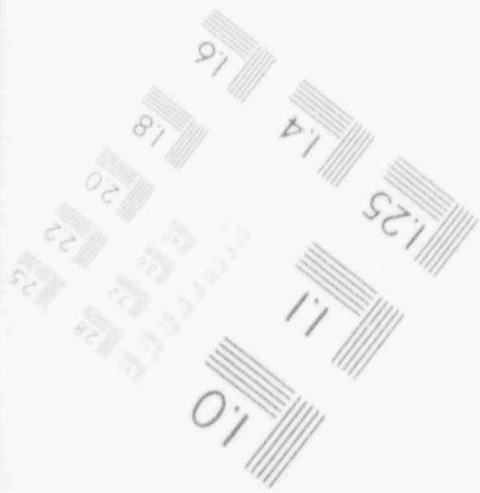
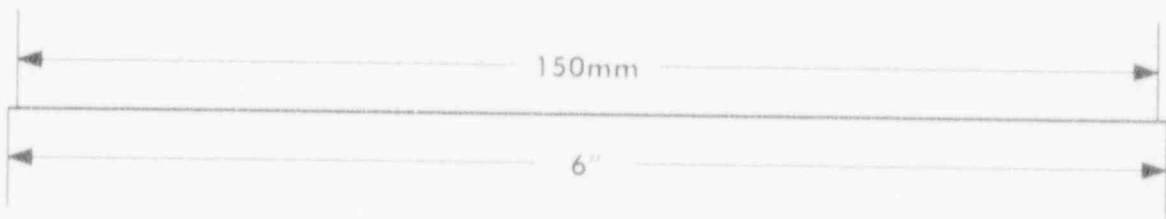
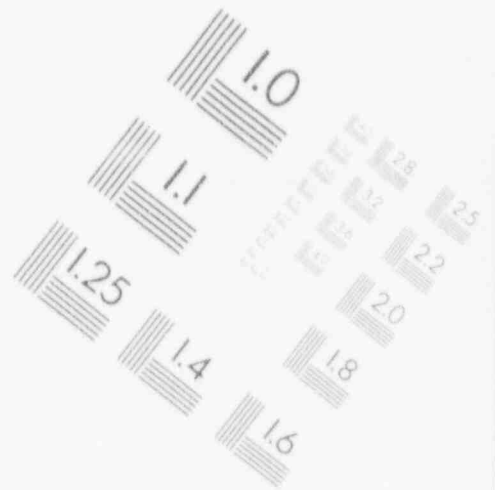
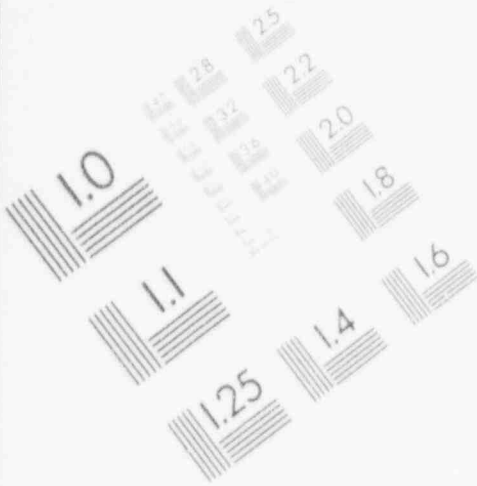
IMAGE EVALUATION TEST TARGET (MT-3)



PHOTOGRAPHIC SCIENCES CORPORATION
770 BASKET ROAD
P.O. BOX 338
WEBSTER, NEW YORK 14580
(716) 265-1600

2

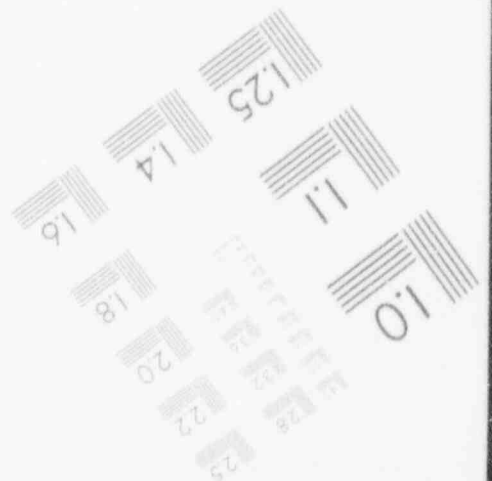
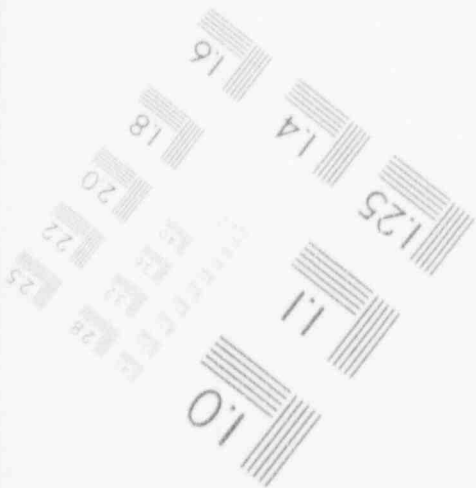
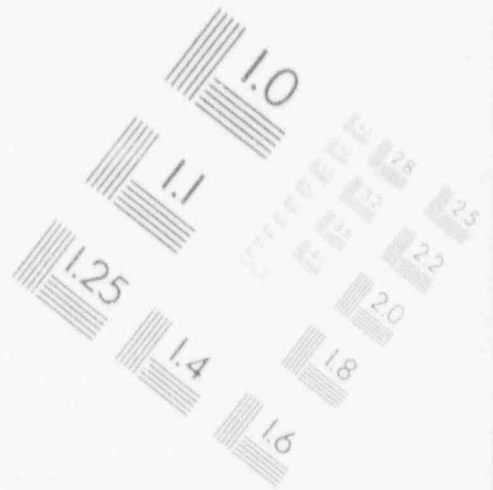
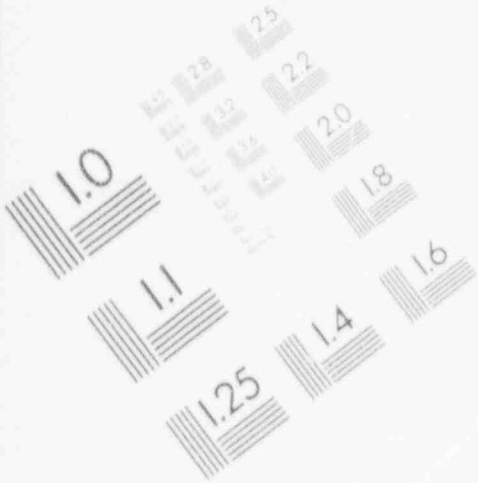
IMAGE EVALUATION TEST TARGET (MT-3)



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

LB5100W Low Background Counting System – Smear Analysis

Date: 3/18/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020304.XLD
 Batch Ended: 2/8/93 12:51
 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: 1435

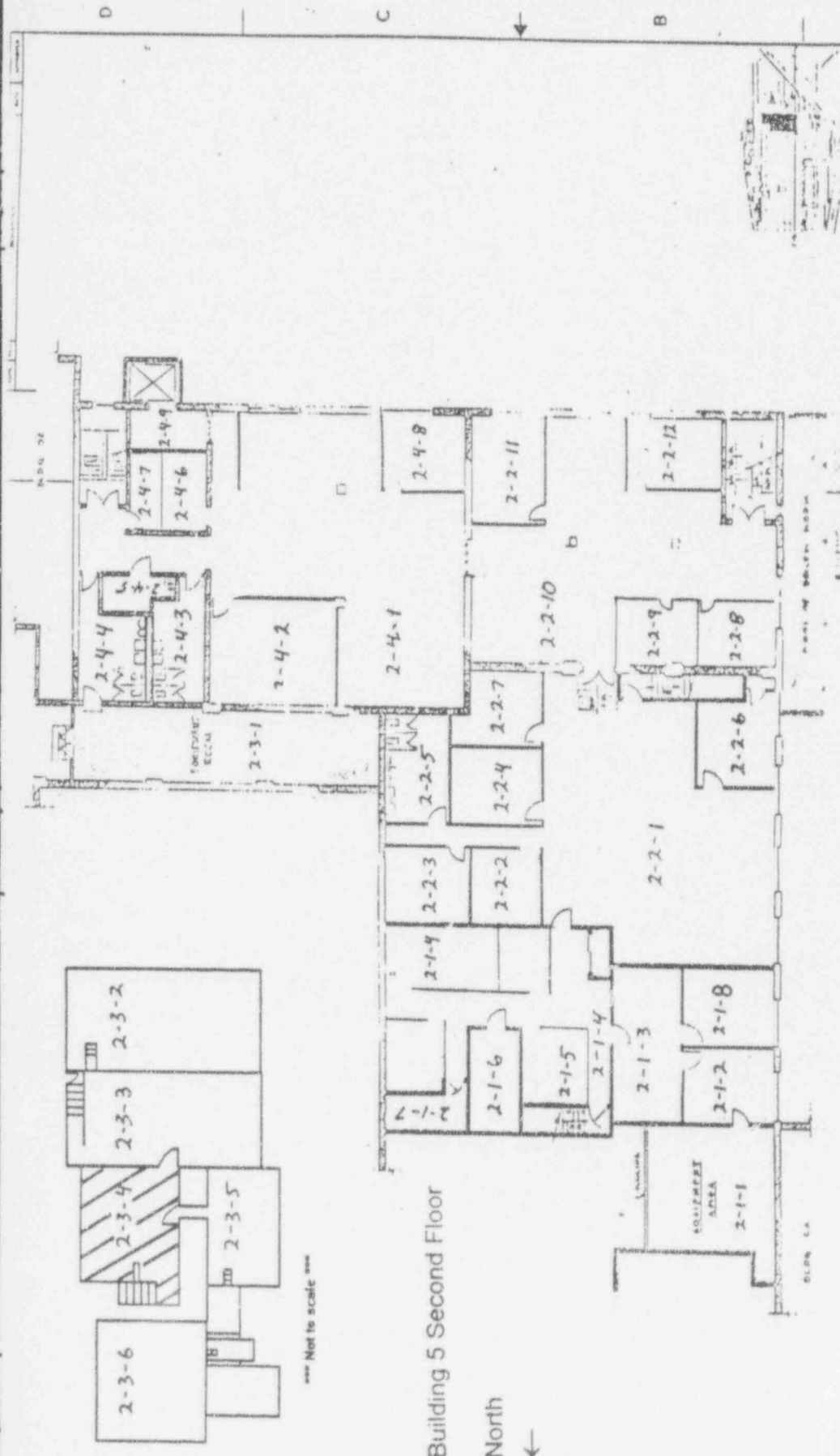
Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2-3-4 floor

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/8/93 12:48
2	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/8/93 12:49
3	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/8/93 12:49
4	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	2/8/93 12:50
5	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	2/8/93 12:50
6	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	2/8/93 12:51



*** Not to scale ***

Building 5 Second Floor
 North
 ←

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

PARTS LIST		QUANTITY		UNIT		DESCRIPTION	
NO.	DESCRIPTION	QTY.	UNIT	NO.	DESCRIPTION	QTY.	UNIT
WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION BUILDING NO. 5 BASED LARGE DA JN-C11 A D 14683 2 3 4 5 6 7 1 2 3							

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			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	7	*	FLMON:91943	28.8%	3.47	1119

SURVEY DATE: 3/19/93
COUNT DATE: 3/19/93

(*)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/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -2	13	.01	1266	
"	"	2, -4	15	.01	1322	1250	9	1332	-0.264	-2.49	
"	"	2, -6	14	.01	1265	1225	14	1199	-0.264	-2.49	
"	"	2, -8	15	.01	1235	1200	11	1232	-0.264	-2.49	
"	"	2, -10	15	.01	1247	1200	7	1259	-0.264	-2.49	
"	"	4, -10	14	.02	1242	1175	9	1180	-0.264	-2.49	
"	"	4, -8	13	.01	1239	1150	7	1167	-0.264	-2.49	
"	"	4, -6	13	.01	1266	1200	6	1175	-0.264	-2.49	
"	"	4, -4	13	.01	1272	1200	10	1219	-0.264	-2.49	
"	"	4, -2	12	.02	1248	1175	17	1159	-0.264	3.59	
"	"	6, -6	13	.01	1107	1075	17	1092	-0.264	3.59	
"	"	6, -8	12	.01	1121	1075	13	1077	-0.264	-2.49	
"	"	6, -12	15	.02	1238	1150	12	1243	-0.264	-2.49	
"	"	8, -12	13	.01	1198	1150	4	1190	-0.264	-2.49	
"	"	8, -10	12	.01	1145	1100	10	1131	-0.265	-2.49	

FORM SERIAL #: 2 - 020 (Survey Section - Sequential survey #)	LOCATION # 2-4-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0382	SURVEYOR SIGNATURE: <i>[Signature]</i>
--	--	--	----------------------------	--

(*)IF USED	ALPHA SURVEY EQUIPMENT			BKG CPM	(*)IF USED	BETA SURVEY EQUIPMENT		
	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
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91
	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	18.8%	5.3	7	*	FLMON:91943	28.8%	3.47
								1119

SURVEY DATE: 3/19/93
 COUNT DATE: 3/19/93

(*)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/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	8, -8	12	.02	1169	1100	10	1201	-0.264	-2.49	*NOTE: Some points are slightly higher due to the proximity to brick walls.
"	"	8, -6	12	.02	1185	1100	11	1084	-0.264	-2.49	
"	"	10, -6	13	.01	1300	1250	7	1239	-0.264	-2.49	
"	"	10, -8	12	.01	1147	1175	18	1136	-0.264	3.41	
"	"	10, -10	13	.01	1214	1175	9	1218	-0.264	3.41	
"	"	10, -12	15	.02	1248	1175	11	1149	-0.264	3.59	
"	"	13, -8	12	.01	1245	1175	17	1159	-0.264	9.66	

FORM SERIAL #: 2 - 020 LOCATION # 2-4-1 SURVEY CLASSIFICATION: III DISK FILE CODE: FDS - 0383 SURVEYOR SIGNATURE: TS
 (Survey Section - Sequential survey #) (Survey Section - Unit # - Sub Unit #) (Group I, II, III, IV)

160

LB5100W Low Background Counting System

Smart Analysis

Alpha efficiency log file: po210ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

Alpha activity action level (DPM): 10.00

Beta activity action level (DPM): 200.00

Counting Unit id: 1

Application Version: Standard

High Voltage Setting: 1435

Application Revision: 2

Application Version: Standard

Date: 3/19/93

Counting Unit id: 1

Data file name: C:\EXL\WBH11020401.XLD

Batch Enclod: 3/19/93 17:40

Crossstalk Correction: Not Applied

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Batch ID: TSB 2-4-1 floor and walls

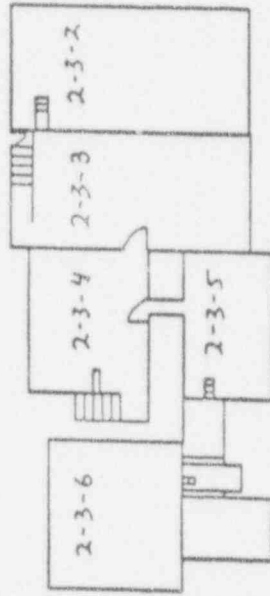
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOI
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
1	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:29
2	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:29
3	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:30
4	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:30
5	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:31
6	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:31
7	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:32
8	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:32
9	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:33
10	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/19/93 12:33
11	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/19/93 12:34
12	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:35
13	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:35
14	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:36
15	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:36
16	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:37
17	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:37
18	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	0.100	1.24	3/19/93 12:38
19	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/19/93 12:38
20	0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	0.100	1.70	3/19/93 12:39
21	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/19/93 12:39
22	0.264	1.63	<MDA	28.84	9.66	9.4	<AL	34.63	0.33	0.100	4.82	3/19/93 12:40

Building 5 Second Floor

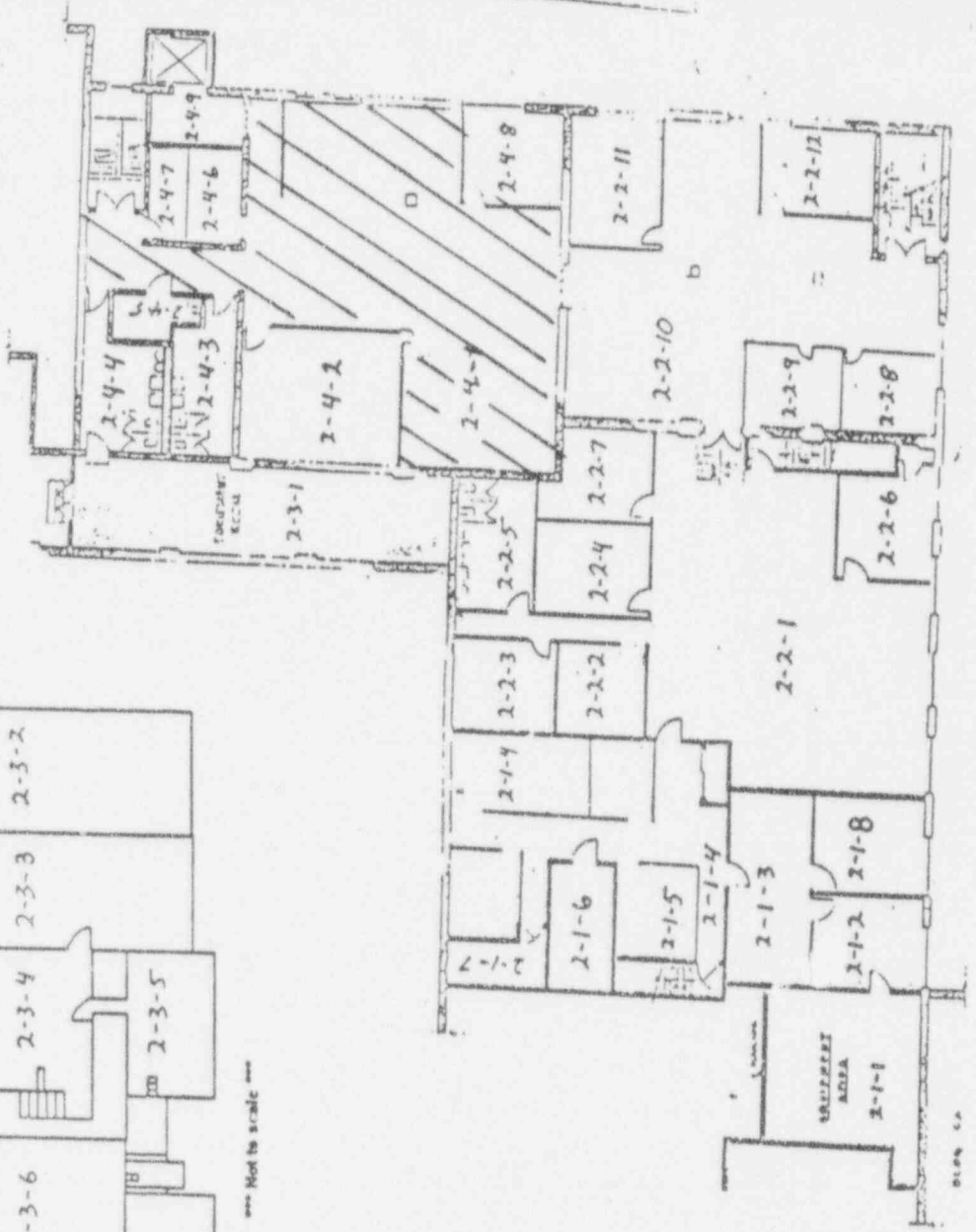
North



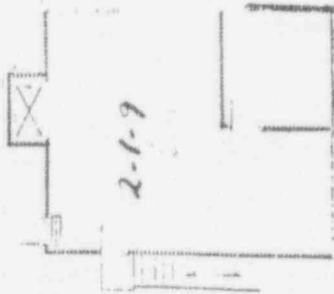
Above P.V. Labs



Not to scale



BLDG. 5



High bay east rear
Bldg. 5

(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	249
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/22/93
COUNT DATE: 3/22/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP INST: S/N	BKG
	R/S: L-2089	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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 1320	49.9%	2.0	1.24
	MS-2: 1648	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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/10cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
North Wall	N/A	4, -.7	N/A	N/A	438	360	4	363	-0.264	7.59	Brick
West Wall	"	2, -.7	"	"	351	278	3	321	-0.264	3.59	"
Ceiling	"	2, -2	"	"	366	330	2	288	-0.264	-2.49	Concrete
"	"	2, -4	"	"	342	315	2	360	-0.264	-2.49	"
"	"	2, -6	"	"	285	248	3	281	-0.264	-2.49	"
"	"	10, -8	"	"	273	210	7	205	-0.264	-2.49	"
"	"	8, -12	"	"	349	307	4	322	-0.264	-2.49	"
East Wall	"	4, -.7	"	"	375	310	9	289	-0.264	-2.49	Block
"	"	6, -.7	"	"	365	314	0	293	-0.264	9.31	"
"	"	8, -.7	"	"	358	309	2	317	-0.264	-2.49	"
South Wall	"	2, -.7	"	"	611	438	7	447	-0.264	-2.49	Brick
"	"	6, -.7	"	"	461	322	2	312	-0.264	-2.49	"
West Wall	"	4, -.7	"	"	396	298	4	353	-0.264	3.41	"

FORM SERIAL #: 2 - 027 (Survey Section - Sequential survey #)	LOCATION # 2-4-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0394	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXI\UNIT1\020401UP.XI.D
 Date Entered: 3/22/93 14:32
 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: 14.35

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: ps210ab
Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.00%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs13fab
Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Table ID: TSP_2.1.1_qpr_1.1

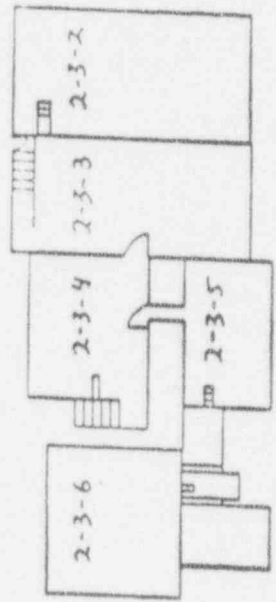
Turnet	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
1	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/22/93 14:26
2	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/22/93 14:27
3	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:27
4	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 14:28
5	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:28
6	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:29
7	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 14:29
8	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:30
9	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/22/93 14:30
10	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:31
11	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 14:31
12	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 14:32
13	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/22/93 14:32

Building 5 Second Floor

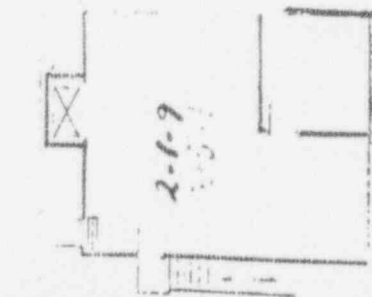
North



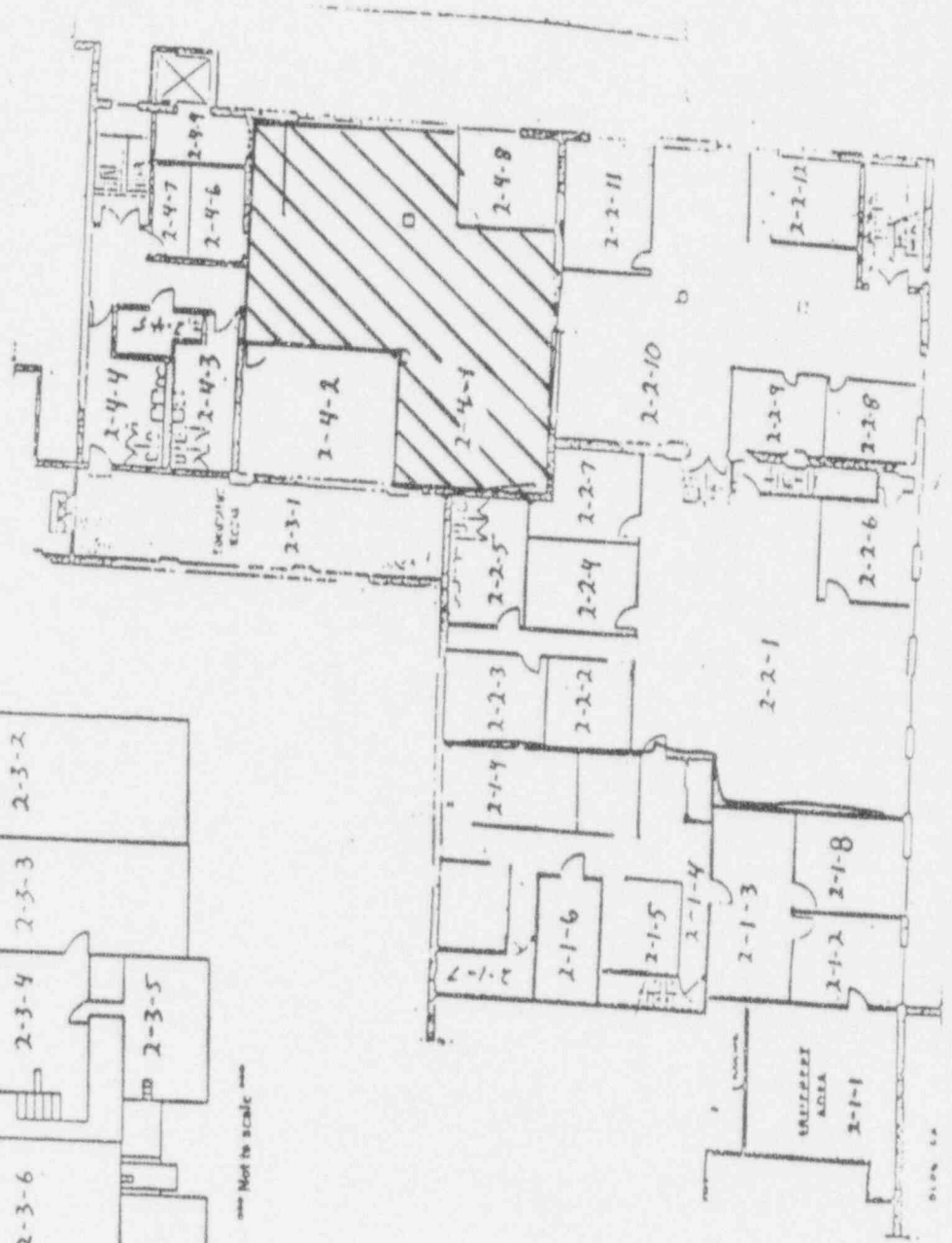
Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5



PLAN 5A

LB5100W Low Background Counting System — Smear Analysis

Alpha efficiency log file: po210.ab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 14.35

Date: 3/19/93

Counting Unit id: 1

Data file name: C:\EXL\LNH11020402.XLD

Batch Ended: 3/19/93 12:42

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137.ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

Application Version: Standard

Batch ID: TSB: 2.4.2 floor and walls

Cartridge	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ				
23	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	1.24	3/19/93 12:40
24	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	1.24	3/19/93 12:41
25	0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	4.82	3/19/93 12:41
26	0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	1.24	3/19/93 12:42

Building 5 Second Floor

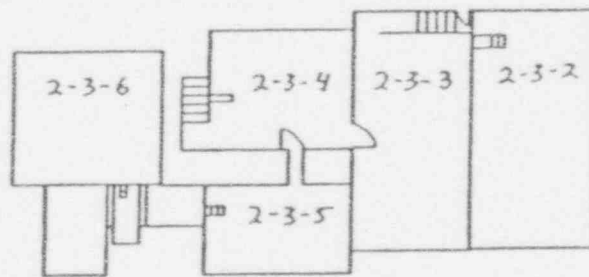
North



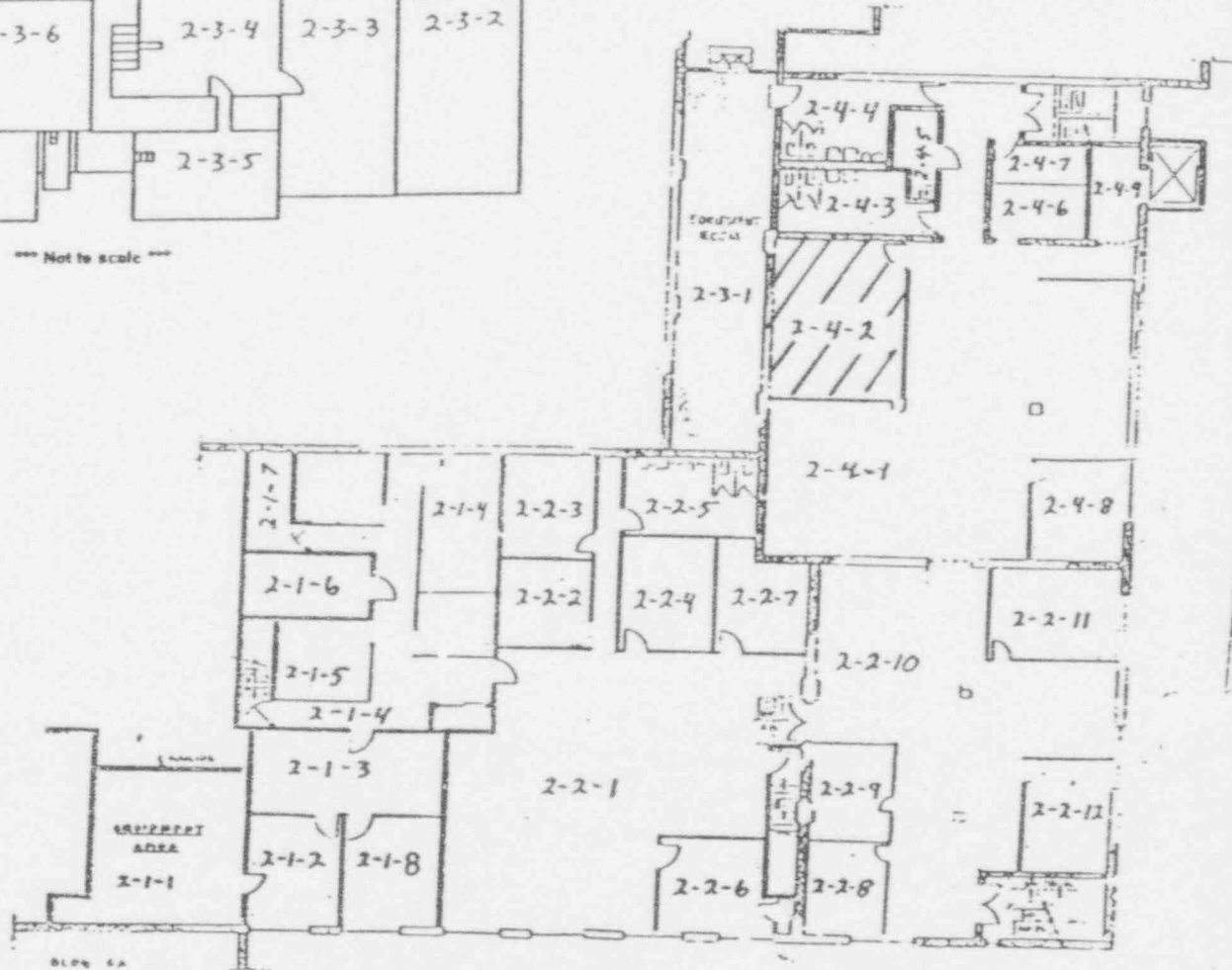
Above P.V. Labs



High bay east rear
Bldg. 5



*** Not to scale ***



BLDG 5A

LB5100W Low Background Counting System – Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020402LIP.XLD
 Batch Ended: 3/22/93 14:35
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

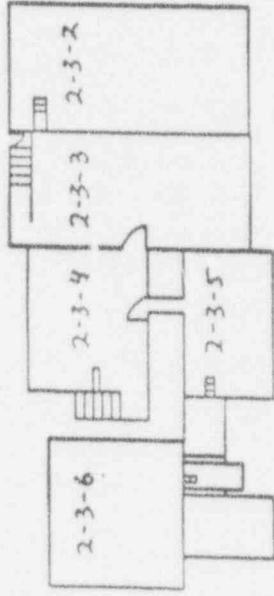
Batch ID: TSB - 2-4-2 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOI
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
14	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/22/93 14:33
15	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/22/93 14:33
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 14:34
17	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	1.24	3/22/93 14:34
18	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:35

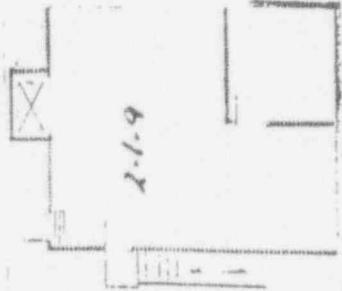
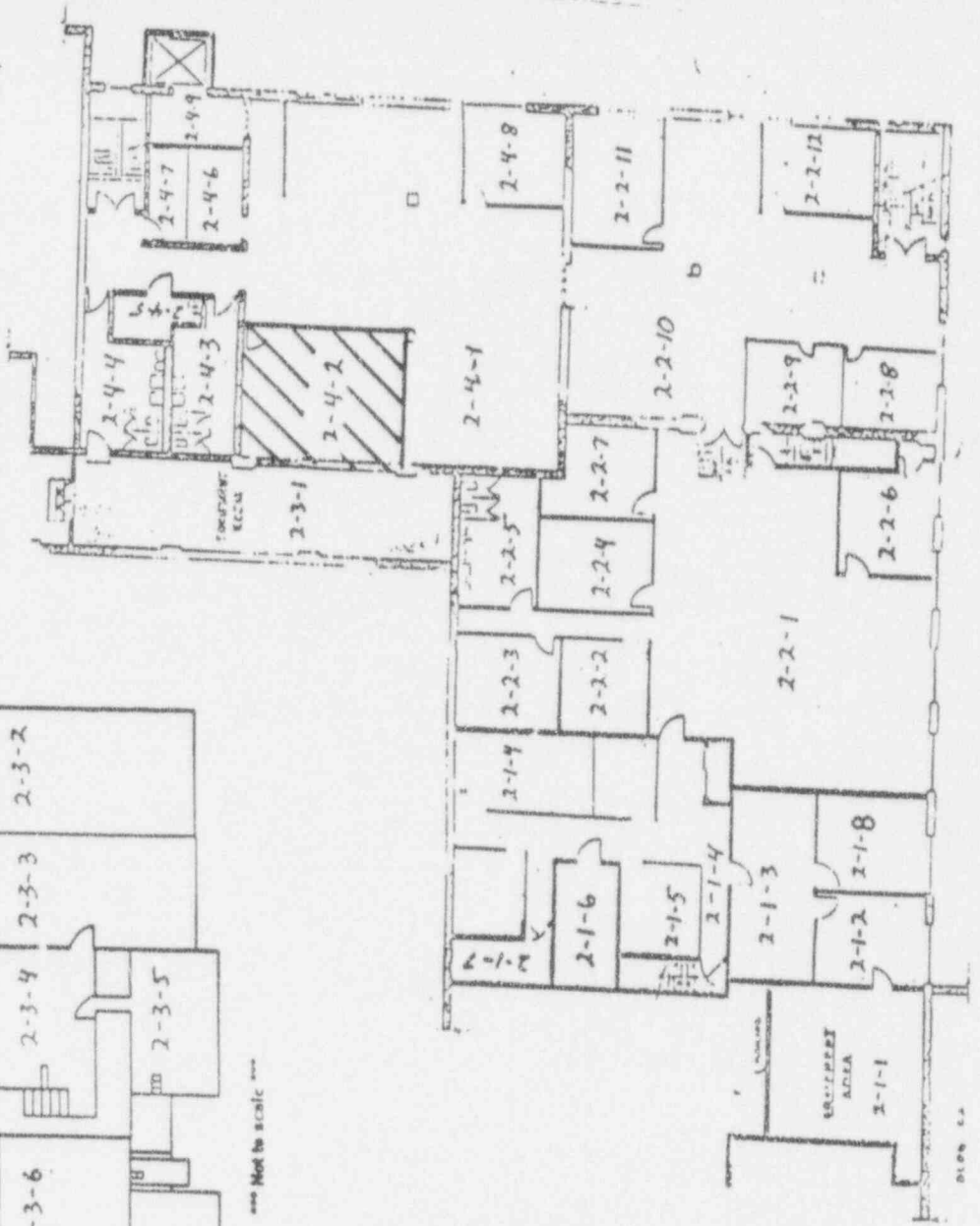
Building 5 Second Floor

North
←

Above P.V. Labs



*** Not to scale ***



High bay east rear
Bldg. 5

PLAN 5.2

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/19/93
 Counting Unit id: 1
 Data file name: C:\LBXLW\NIT15020403.XLD
 Batch Ended: 3/19/93 12:43
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB 2 4 3 floor

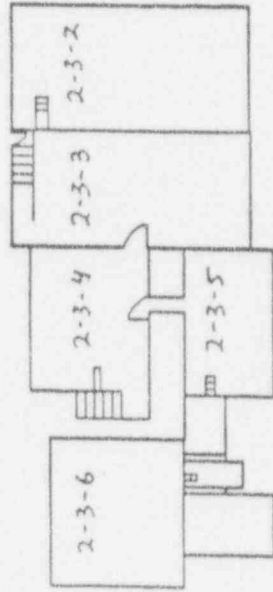
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
27	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:42
28	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/19/93 12:43

Building 5 Second Floor

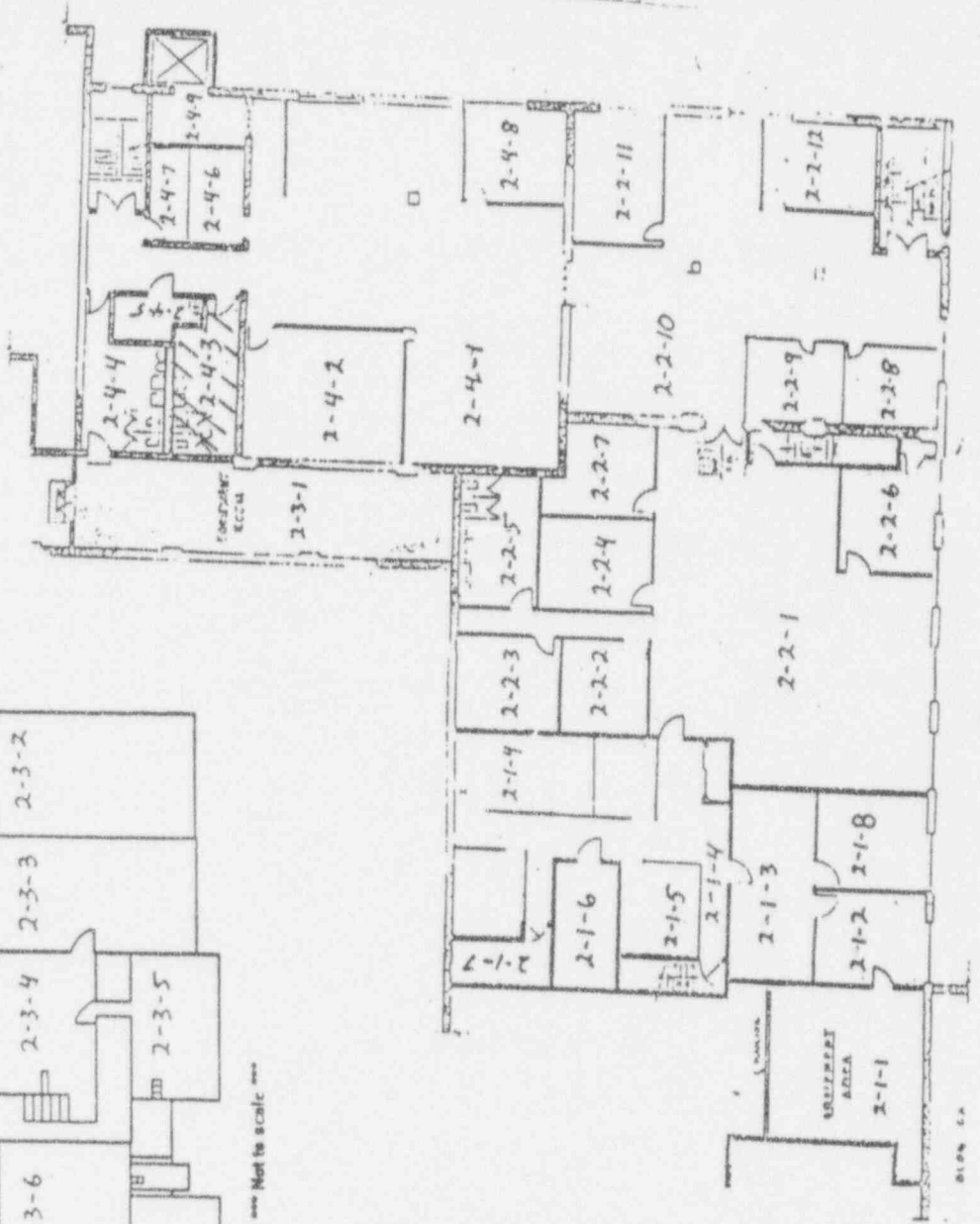
North



Above P.V. Labs



Note the scale



High bay east rear
Bldg. 5

(*)IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		(*)IF USED	INST: S/N	BKG CPM
	INST: S/N	EFF	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
*	ESP2:1601-L	23.1%	4.33	ESP2:1588-L	*	34.3%	2.91
	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	18.8%	5.3	FLMON:91943		26.8%	3.47

SURVEY DATE: 3/22/93
COUNT DATE: 3/22/93

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

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			(*)IF USED	COUNTING EQUIPMENT (BETA)		
	INST: S/N	EFF	C.F.		INST: S/N	EFF	C.F.
*	TENN: 13295	37.8%	2.64	*	TENN: 13295	49.9%	2.0
	SAC4: 1128	40.6%	2.46		MS-2: 1848	26.4%	3.8
	SAC4: 263	34.7%	2.88		BC-4: 808	16.9%	5.92

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	BETA	ALPHA	BETA	ALPHA		
West Wall	N/A	2, -7	N/A	N/A	574	490	487	3	487	3.53	-0.264	Brick
"	"	4, -4	"	"	559	500	504	5	504	3.41	-0.264	"
Ceiling	"	1, -2	"	"	370	330	331	2	331	-2.49	-0.264	Concrete
"	"	1, -4	"	"	360	335	341	4	341	-2.49	-0.264	"

FORM SERIAL #: 2 - 029 (Survey Section - Sequential survey #)

LOCATION # 2-4-3 (Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: III (Group I, II, III, IV)

DISK FILE CODE: FDS - 0396

SURVEYOR SIGNATURE: MS/LB

LB5100W Low Background Counting System -- Smear Analysis

Alpha efficiency log file: po210lab

Alpha Efficiency: 37.85%

Alpha to Beta Crosstalk: 4.92%

Alpha Background (CPM): 0.1

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: 1435

Crosstalk Correction: Not Applied

Beta efficiency log file: cs137ab

Beta Efficiency: 49.88%

Beta into Alpha Crosstalk: 0.36%

Beta Background (CPM): 1.24

Application Revision: 2

Application Version: Standard

Batch ID: TSB-2-4-3 upper surfaces

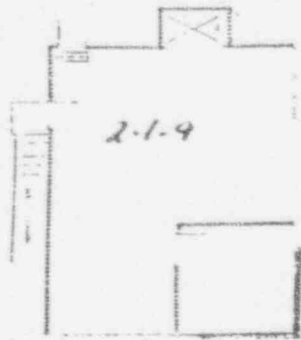
Carrier	Alpha Activity			Beta Activity			Count time (min)	Alpha CPM	Beta CPM	Completion TUT
	DPM	σ	flags	MDA	DPM	σ				
1	-0.264	0.93	<MDA	11.27	3.53	4.14	<MDA	15.88	1.76	3/22/93 14:45
2	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	1.70	3/22/93 14:45
3	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-1.24	3/22/93 14:46
4	-0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	-1.24	3/22/93 14:46

Building 5 Second Floor

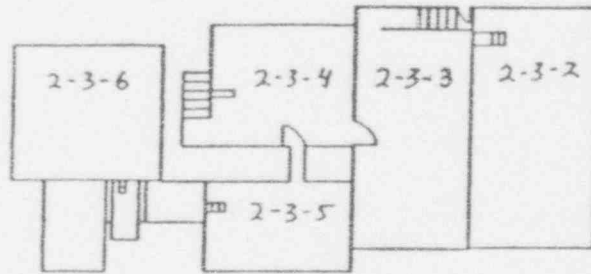
North



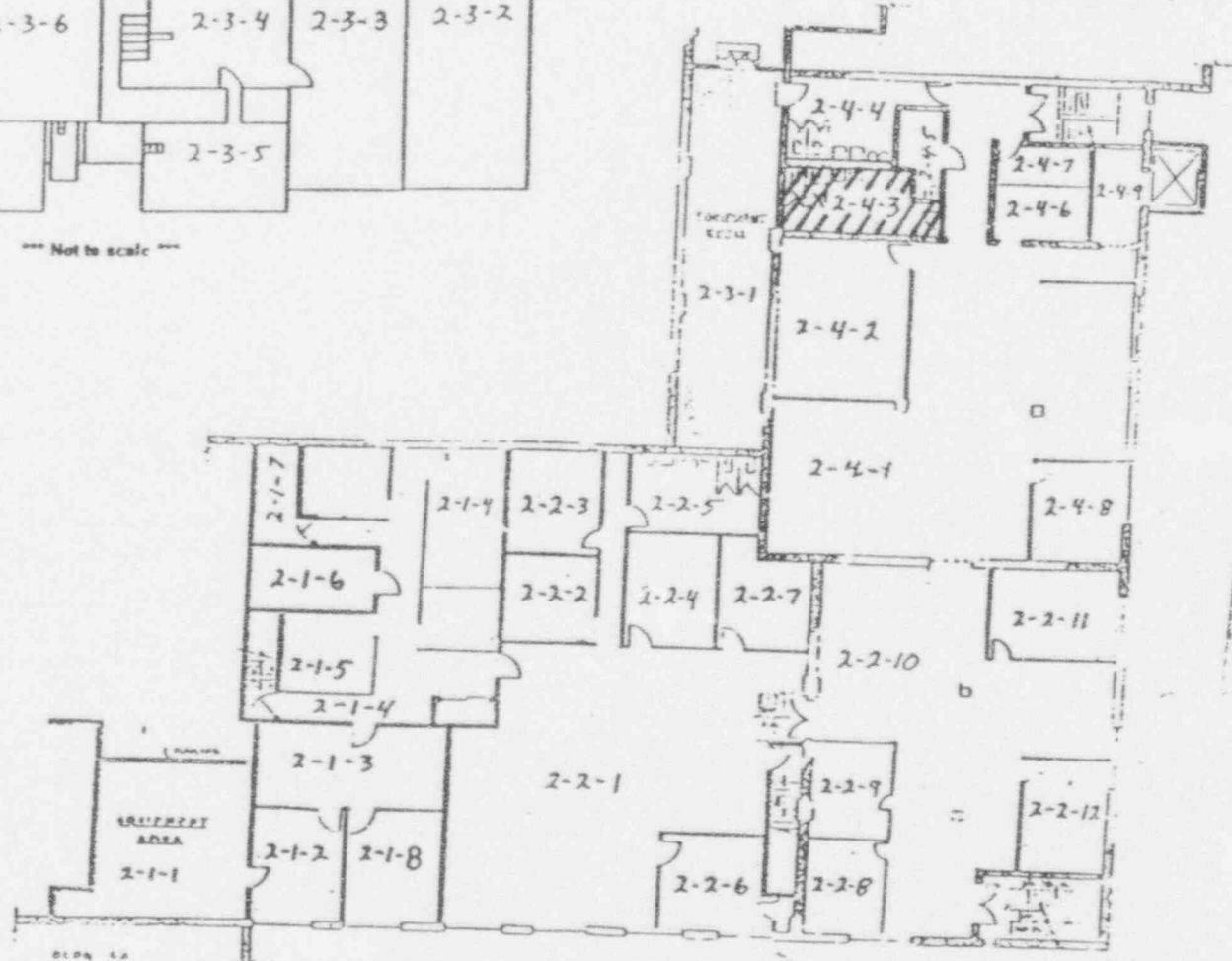
Above P.V. Labs



High bay east rear
Bldg. 5



*** Not to scale ***



(*)IF USED	ALPHA SURVEY EQUIPMENT		(*)IF USED	BETA SURVEY EQUIPMENT	
	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: 1601-L	23.1% 4.33		ESP2: 1588-L	34.3% 2.91
	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	18.8% 5.3	*	FLMON: 91943	28.8% 3.47
					1119

SURVEY DATE: 3/19/93
COUNT DATE: 3/19/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP	
	INST: S/N	BKG
	R/S: L-2088	uR/hr
*	PM7: 234	12 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.
*	TENN: 13295	37.8%	2.64
	SAC4: 1128	40.6%	2.46
	SAC4: 263	34.7%	2.88
COUNTING EQUIPMENT (BETA)			
(*)IF USED	INST: S/N	EFF	C.F.
*	TENN: 13295	49.9%	2.0
	MS-2: 1848	26.4%	3.8
	BC-4: 808	16.9%	5.92

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	BETA	ALPHA	BETA	ALPHA	BETA		
Floor Tite	N/A	2, -2	13	.01	1207	1150	7	1149	-0.264	-2.49			

FORM SERIAL #: 2 - 023 (Survey Section - Sequential survey #)	LOCATION # 2-4-6, 7 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0386
		SURVEYOR SIGNATURE:	

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/19/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020406.XLD
 Batch Ended: 3/19/93 12:43
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

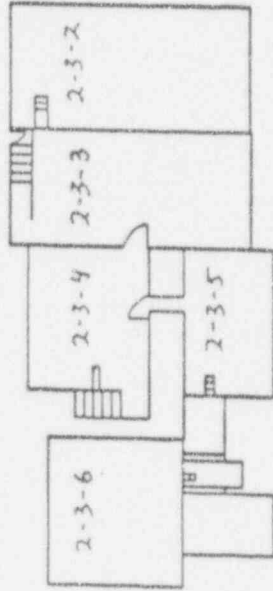
Batch ID: TSB-246 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
29	0.264	1.60	<MDA	28.10	2.49	3.87	<MDA	33.88	0.34	0.100	1.24	3/19/93 12:43

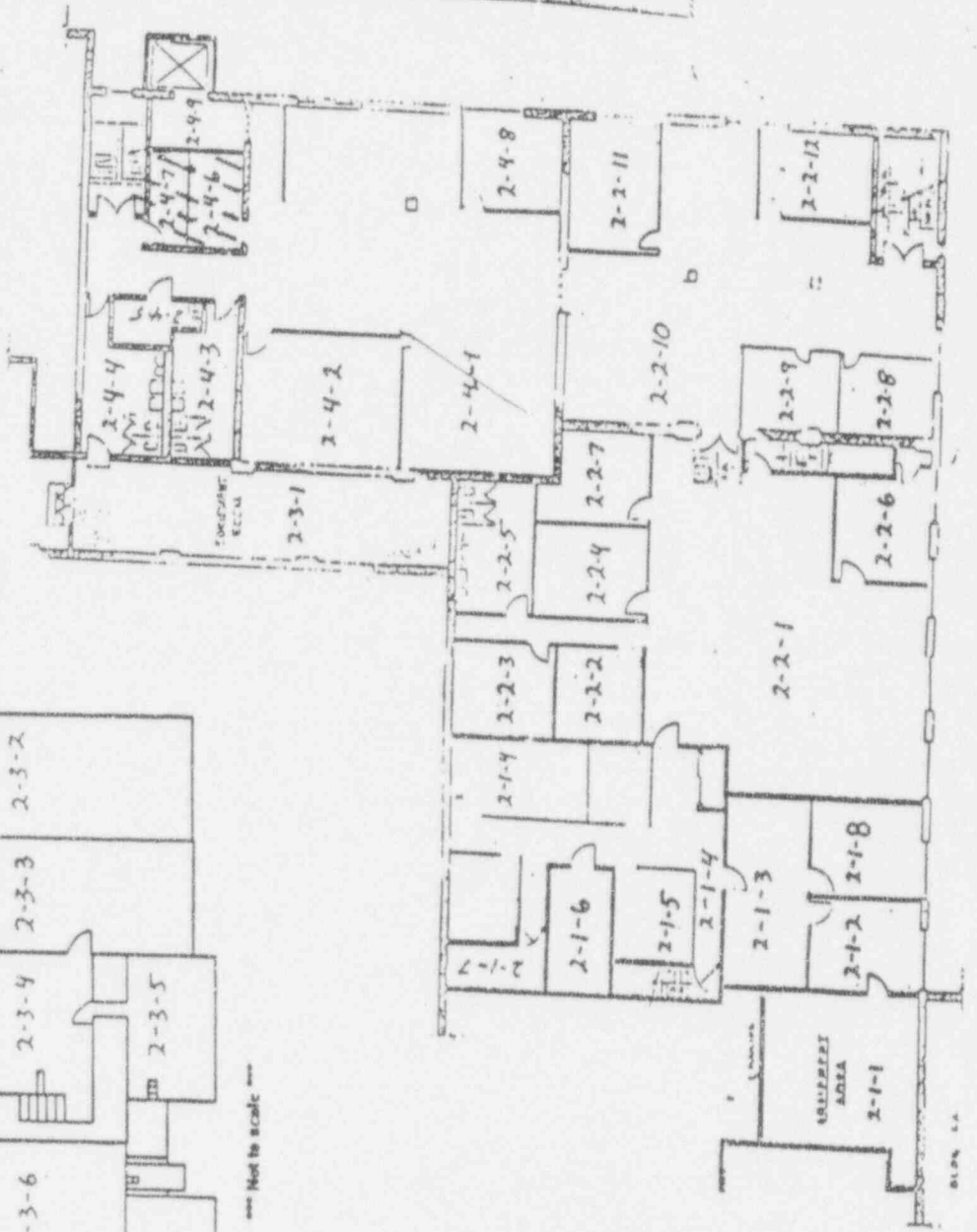
Building 5 Second Floor

North
←

Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5

BLDG. 5

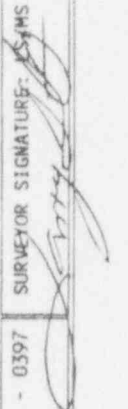
(*) IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		(*) IF USED	BETA SURVEY EQUIPMENT		BKG CPM
	INST: S/N	EFF	C.F.	INST: S/N		EFF	C.F.	
	ESP2:1517	21.1%	4.74	ESP2:1595	34.2%	2.92		
	ESP2:1517-L	21.7%	4.60	ESP2:1595-L	31.3%	3.20		
*	ESP2:1601-L	23.1%	4.33	ESP2:1588-L	34.3%	2.91	249	
	ESP2:			ESP2:				
	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	18.8%	5.3	FLMON:91943	28.8%	3.47		

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

(*) IF USED	COUNTING EQUIPMENT (ALPHA)		INST: S/N	EFF	C.F.	BKG
	INST: S/N	EFF				
*	TENN: 13295	37.8%	13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	1128	40.6%	2.46	
	SAC4: 263	34.7%	263	34.7%	2.88	
	COUNTING EQUIPMENT (BETA)					
	INST: S/N	EFF	C.F.	BKG		
*	TENN: 13295	49.9%	2.0	1.24		
	MS-2: 1848	26.4%	3.8			
	BC-4: 808	16.9%	5.92			

SURVEY DATE: 3/22/93
COUNT DATE: 3/22/93

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	N/A	1, -7	N/A	N/A	329	300	3	304	7.506	3.41	Block
"	"	2, -7	"	"	340	300	2	306	-0.264	9.31	"
Ceiling	"	2, -2	"	"	290	270	1	263	-0.264	-2.49	Concrete

FORM SERIAL #: 2 - 030 (Survey Section - Sequential survey #)	LOCATION # 2-4-6 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0397	SURVEYOR SIGNATURE: 
--	--	--	----------------------------	---

LB5100W Low Background Counting System – Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\0204061IP.XLD
 Batch Ended: 3/22/93 14:48
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.98%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

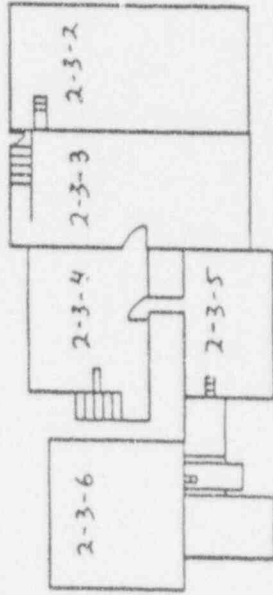
Batch ID: TSB - 2-4-6 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOB
	DPM	σ	Flags	MDA	DPM	σ	Flags	MDA				
5	7.506	7.94	At AL	28.10	3.41	7.06	<MDA	33.88	0.34	2.841	1.70	3/22/93 14:47
6	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/22/93 14:47
7	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	1.24	3/22/93 14:48

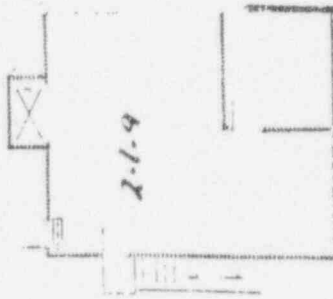
Building 5 Second Floor

North
←

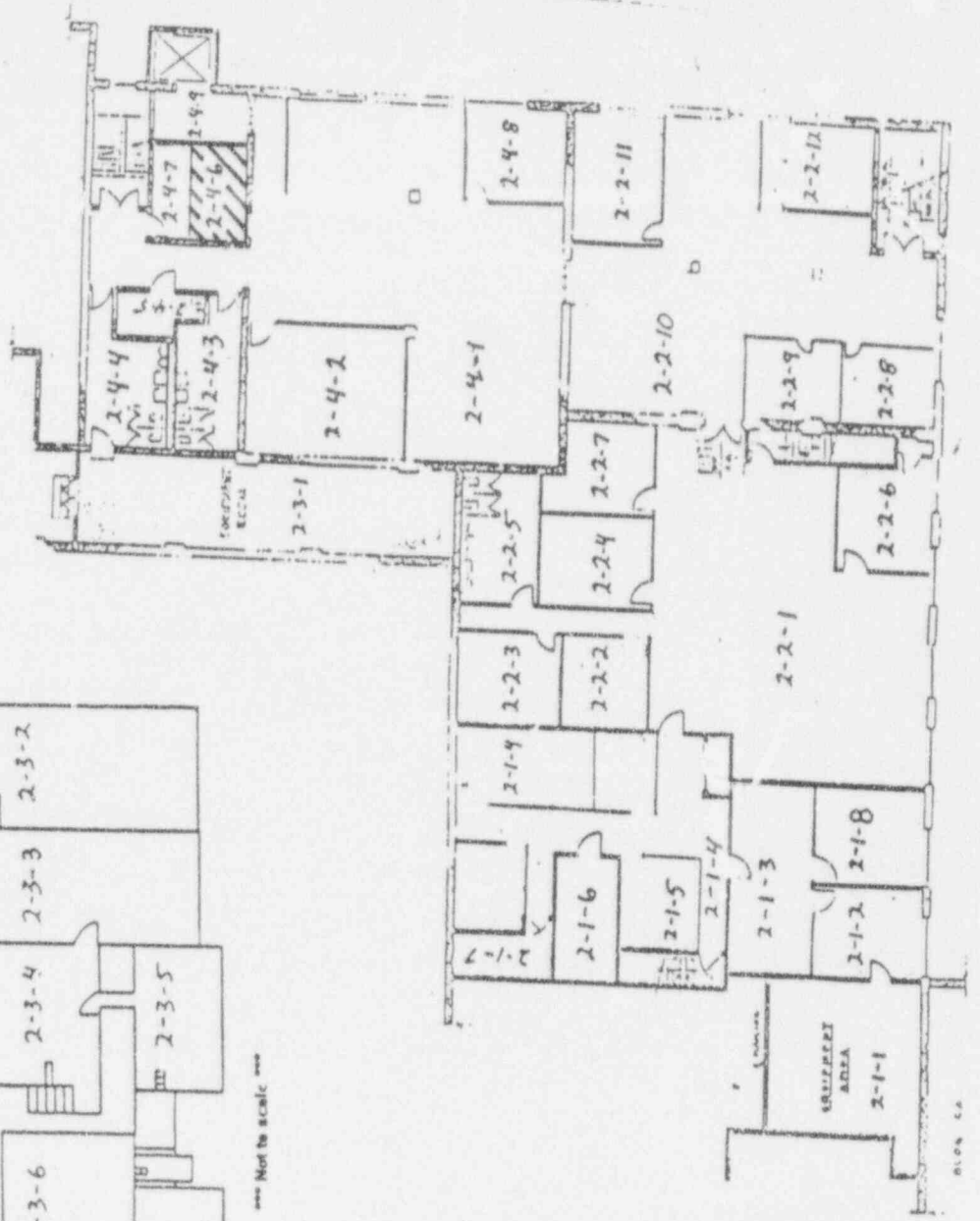
Above P. V. Labs



*** Not to scale ***



High bay east rear
Bldg. 5



(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	249
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/22/93
COUNT DATE: 3/22/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1 48	26.4%	3.8	
	BC-4: 81.8	16.9%	5.92	

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	
South Wall	N/A	2, -.7	N/A	N/A	674	510	2	500	-0.264	-2.49	Brick
"	"	4, -.7	"	"	479	400	5	394	-0.264	-2.49	"
Ceiling	"	4, -2	"	"	329	295	6	289	-0.264	-2.49	Concrete

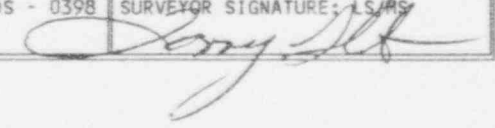
FORM SERIAL #: 2 - 031
(Survey Section - Sequential survey #)

LOCATION: 2-4-8
(Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: III
(Group I, II, III, IV)

DISK FILE CODE: FDS - 0398

SURVEYOR SIGNATURE: LS/RS



LB5100W Low Background Counting System – Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020408UP.XLD
 Batch Ended: 3/22/93 14:49
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

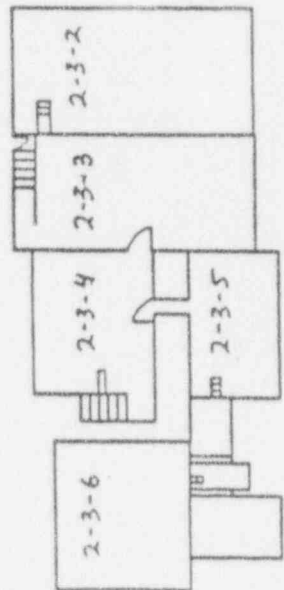
Batch ID: TSB - 2-4-8 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
8	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:48
9	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 14:49
10	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:49

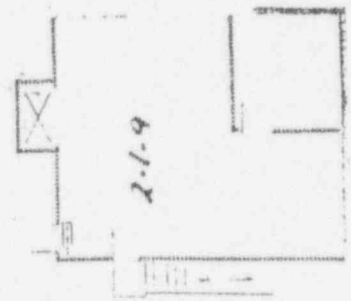
Building 5 Second Floor

North
←

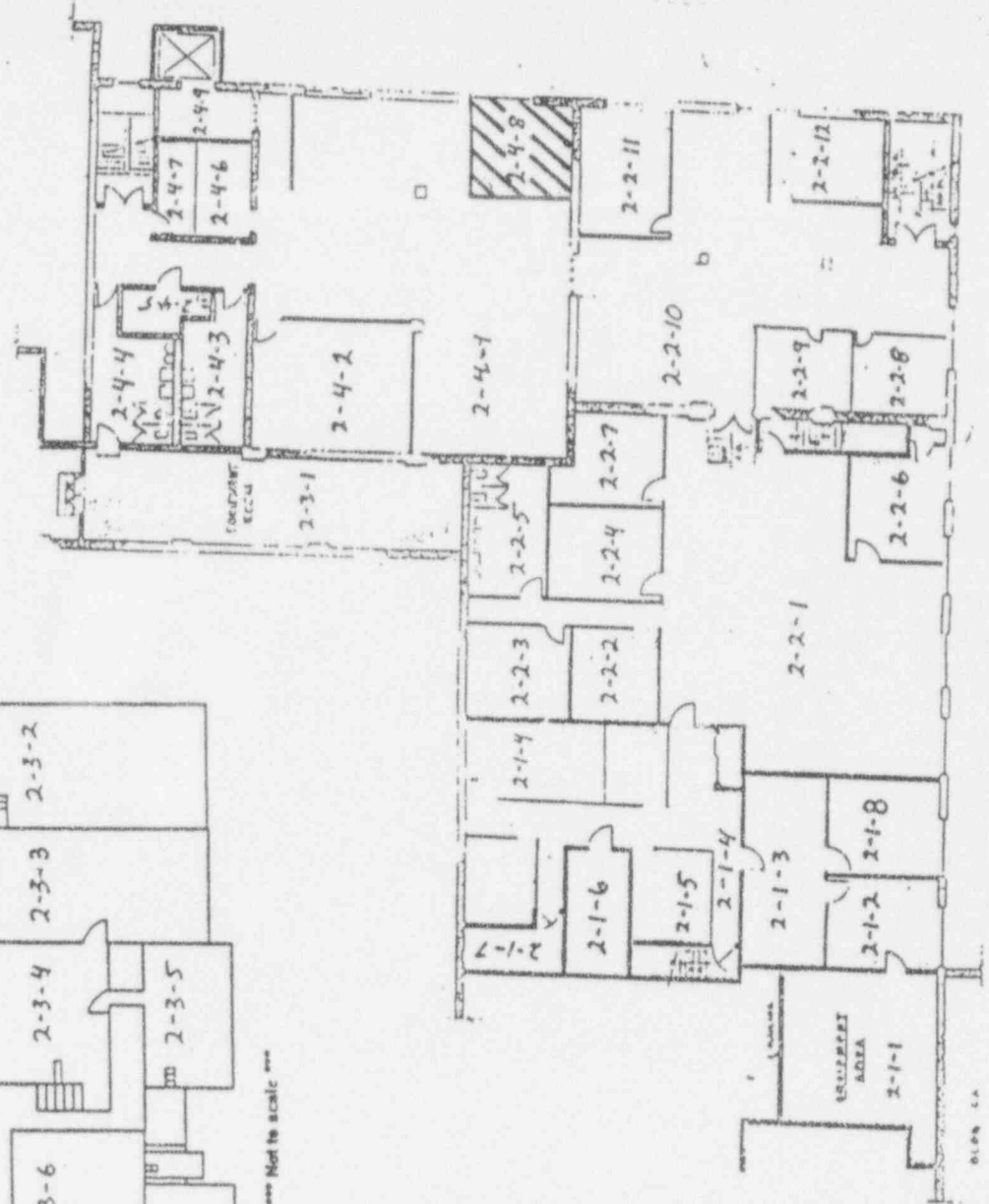
Above P.V. Labs



*** Not to scale ***



High bay east rear
Bldg. 5



BLDG 5

(*)IF USED	ALPHA SURVEY EQUIPMENT INST: S/N	EFF	C.F.	BKG CPM	(*)IF USED	BETA SURVEY EQUIPMENT 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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	ESP2:					ESP2:			
	ESP2:					E520: 5242	20.3%	4.92	
	ASP1: 1891	19.1%	5.23			E520: 5245	33.5%	3.0	
	PAC4G:4478	18.5%	5.4			PAC4G:4478	33.5%	3.0	
*	FLMON:91943	18.8%	5.3	7	*	FLMON:91943	28.8%	3.47	1119

SURVEY DATE: 3/19/93
COUNT DATE: 3/19/93

(*)IF USED	GAMMA OR BETA/GAMMA EQUIP INST: S/N	BKG	ur/hr
	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	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

SURFACE DESCRIPTION	GRID	X,Y REF POINT	GAMMA @ 1 M. ur/hr	BETA/GAMMA CONT. mr/hr	SCAM CONTACT GROSS CPM			CONTACT GROSS 1 MIN. CT.			SMEAR LEVELS IN DPM/100cm ²		COMMENTS
					MAX BETA	AVG BETA	BETA	ALPHA	BETA	ALPHA	BETA		
Floor Tile	N/A	2, -1	15	.02	1283	1200		13	1234	-0.264	-2.49		

FORM SERIAL #: 2 - 024
(Survey Section - Sequential survey #)

LOCATION # 2-4-9
(Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: III
(Group I, II, III, IV)

DISK FILE CODE: FDS - 039

SURVEY OR SIGNATURE: TS
[Signature]

LB5100W Low Background Counting System – Smear Analysis

Date: 3/19/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020409.XLD
 Batch Ended: 3/19/93 12:44
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 2 4 9 floor and walls

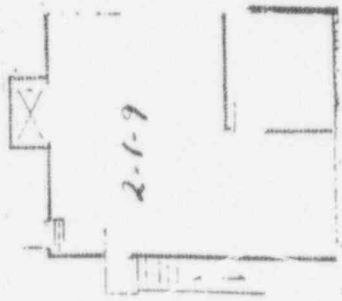
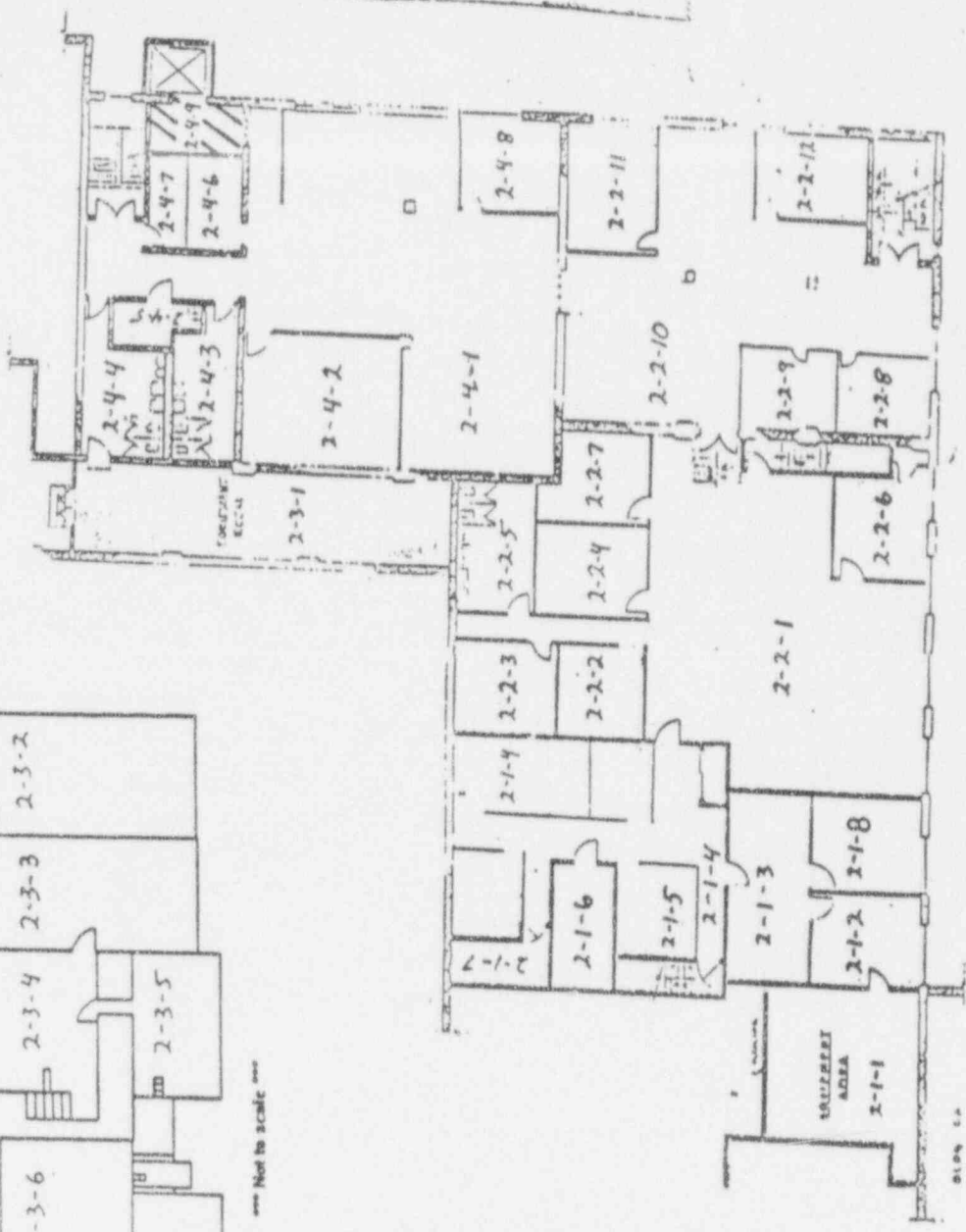
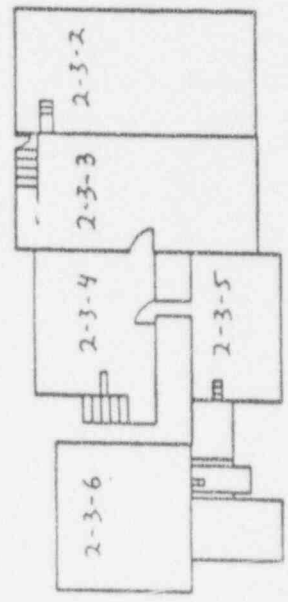
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
30	-0.264	1.63	<MDA	2.124	-2.49	3.93	<MDA	34.63	0.33	0.100	-1.24	3/19/93 12:44

Building 5 Second Floor

North



Above P.V. Labs



High bay east rear Bldg. 5

(*)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	
*	ESP2:1601-L	23.1%	4.33	0	*	ESP2:1588-L	34.3%	2.91	249
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/22/93
 COUNT DATE: 3/22/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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 LEVEL S IN DPM/100cm2		COMMENTS
					MAX BETA	AVG BETA	ALPHA	BETA	ALPHA	BETA	
Ceiling	N/A	1, -1	N/A	N/A	375	345	4	347	-0.264	3.11	Concrete
"	"	2, -1	"	"	366	320	2	328	-0.264	-2.49	"
East Wall	"	2, -1	"	"	340	315	1	310	-0.264	-2.49	Block

FORM SERIAL #: 2 - 032 LOCATION # 2-4-9 SURVEY CLASSIFICATION: III DISK FILE CODE: FDS - 0399 SURVEYOR SIGNATURE: LS/MS

(Survey Section - Sequential survey #) (Survey Section - Unit # - Sub Unit #) (Group I, II, III, IV)



LB5100W Low Background Counting System – Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\020409UP.XLD
 Batch Ended: 3/22/93 14:51
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

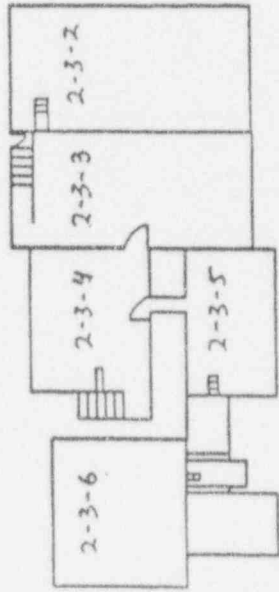
Batch ID: TSB - 2-4-9 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
11	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/22/93 14:50
12	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:51
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 14:51

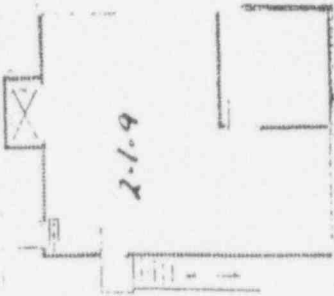
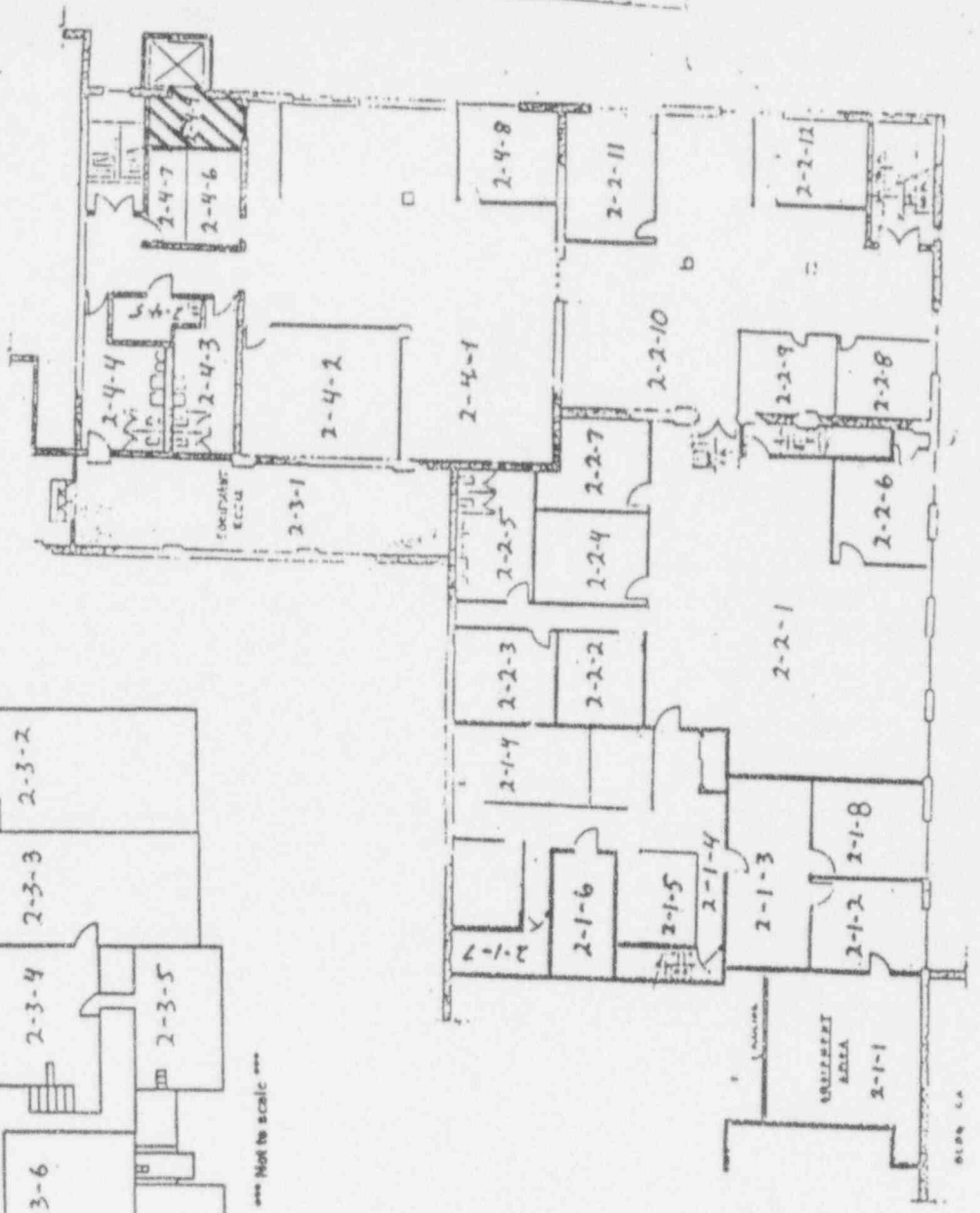
Building 5 Second Floor

North
←

Above P. V. Labs



*** Not to scale ***



High bay east rear
Bldg. 5

APPENDIX E

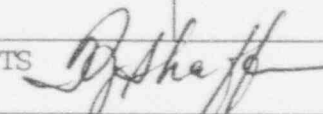
RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR SCANS

DECOMMISSIONING SURVEY SCAN DATA SHEET

IH & S FORM: SDS-REV0
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	1588-L	34.3%		2.91
	ESP-2				

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	33.5%		3.0
*	FLOOR MON.	91943	28.8%	1173	3.47
	E-520	5242	OOS	OOS	OOS
	E-520	5245	20.5%		4.87

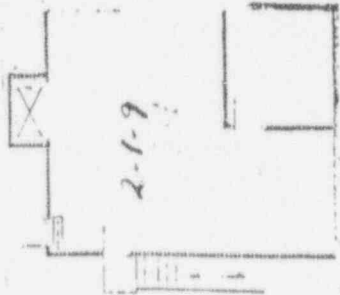
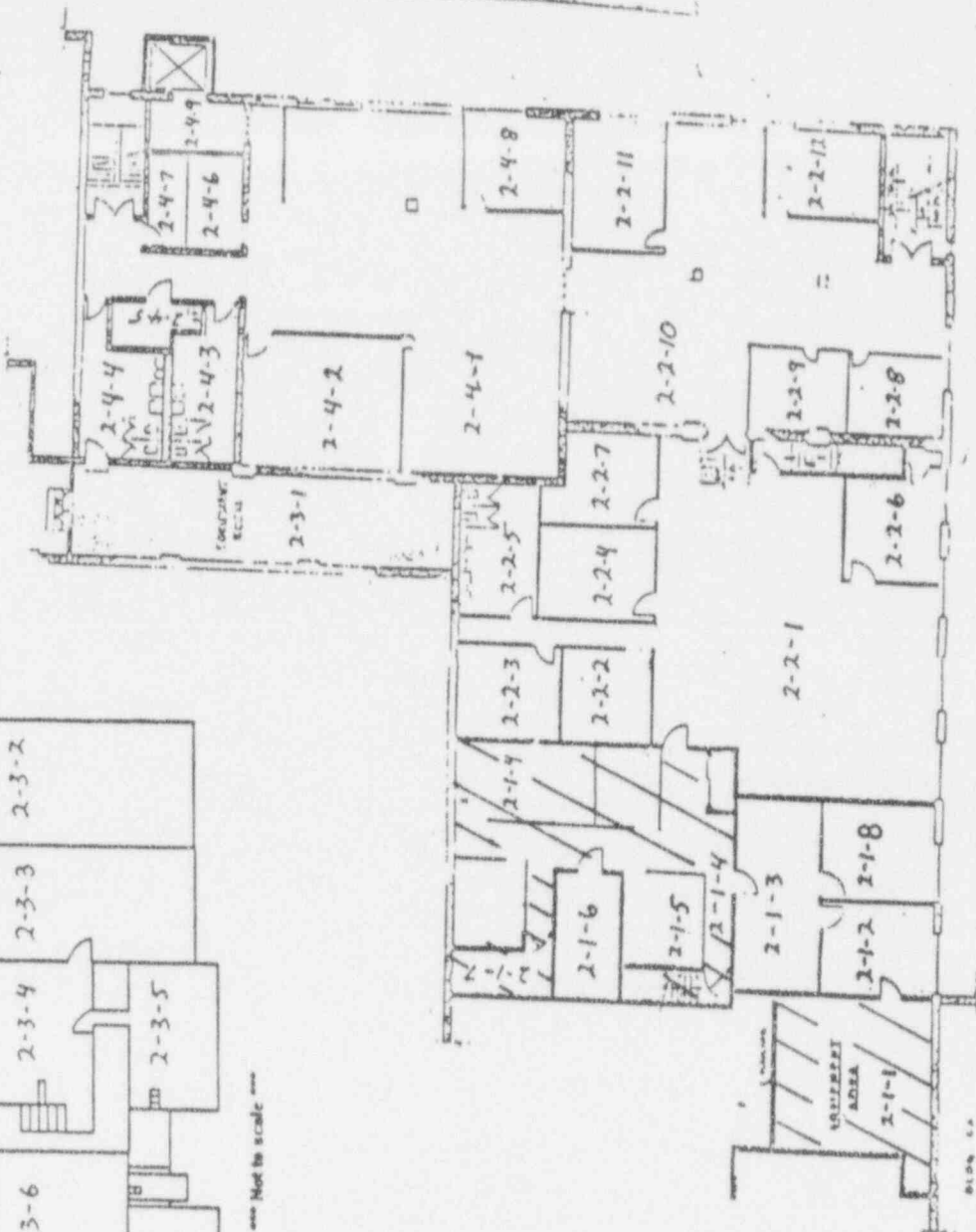
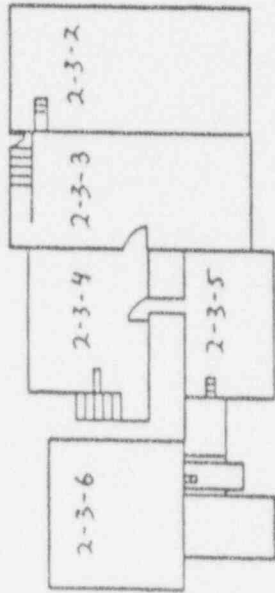
SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile/Concrete	80%	1422	1350	2-1-1	4	Background - 1425
Carpet	80%	1422	1350	2-1-2	4	" 1080
"	80%	1422	1350	2-1-3	4	" 1050
Tile	100%	1304	1190	2-1-4	4	" 1173
"	0%	1304	1190	2-1-5	4	" 1173
"	0%	1304	1190	2-1-6	4	" 1173
"	100%	1498	1300	2-1-7	4	" 1408
	>50% of entire	unit	floor	area scanned.		
REMARKS: SURVEY CLASSIFICATION (Group I, II, III, IV) (Install in column above)		LOCATION CODE DEFINED (Survey Sec - Unit - Subunit) (Install in column above)		SURVEYOR: TS SIGNATURE: 		SURVEY DATE: 3/18/93
				FORM S/N: 2 - 015 (Survey Section-Sequential #)		DISK FILE CODE: SDS-0035

Building 5 Second Floor

North



Above P.V. Labs



High bay east rear Bldg. 5

DECOMMISSIONING SURVEY SCAN DATA SHEET

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	1588-L	34.3%		2.91
	ESP-2				

(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	33.5%		3.0
*	FLOOR MON.	91943	28.8%	1203	3.47
	E-520	5242	OOS	OOS	OOS
	E-520	5245	20.5%		4.87

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile on Concrete	80%	1409	1250	2-1-9	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: TS
 SIGNATURE: *J. Shaffer*

FORM S/N: 2-006
 (Survey Section-Sequential #)

SURVEY DATE: 3/16/93

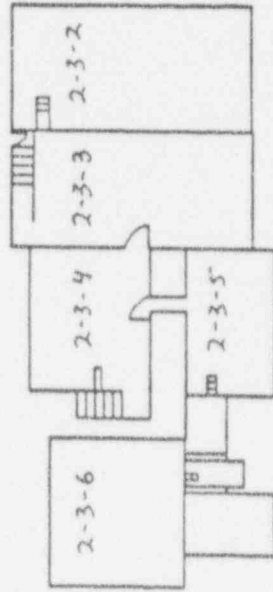
DISK FILE CODE: SDS-0031

Building 5 Second Floor

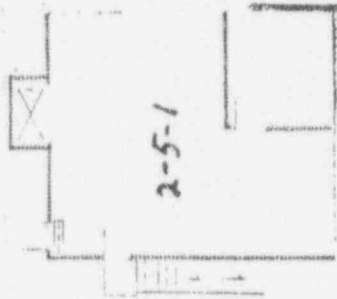
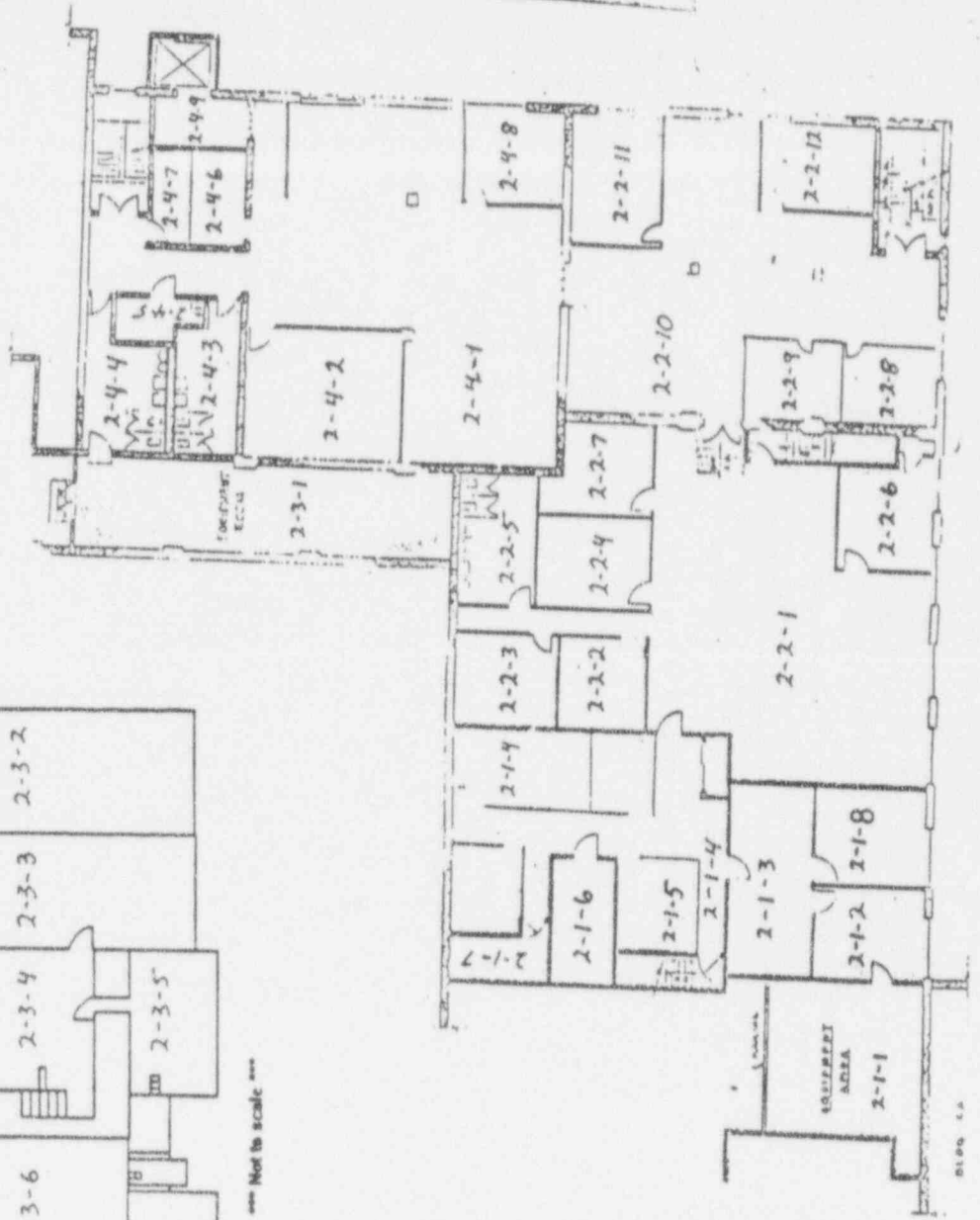
North



Above P.V. Labs



Not to scale



High bay east rear
Bldg. 5

DECOMMISSIONING SURVEY SCAN DATA SHEET

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	1588-L	34.3%		2.91
	ESP-2				

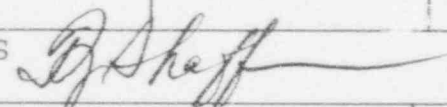
(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	33.5%		3.0
*	FLOOR MON.	91943	28.8%	1190	3.47
	E-520	5242	OOS	OOS	OOS
	E-520	5245	20.5%		4.87

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile	90%	1284	1175	2-2-1	3	Background - 1190
"	90%	1284	1175	2-2-2	3	"
"	90%	1284	1175	2-2-3	3	"
"	90%	1284	1175	2-2-4	3	"
"	90%	1397	1250	2-2-5	3	"
"	90%	1397	1250	2-2-6	3	"
"	90%	1397	1250	2-2-7	3	"
"	100%	1382	1250	2-2-8	3	" 1174
"	100%	1347	1250	2-2-9	3	"
"	80%	1400	1250	2-2-10	3	"
"	80%	1400	1250	2-2-11	3	"
"	80%	1400	1250	2-2-12	3	"
	>50% of floor	area	scanned	for unit.		

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

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

SURVEYOR: TS
SIGNATURE:



SURVEY DATE: 3/18/93

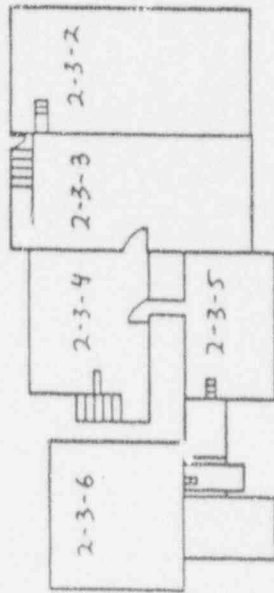
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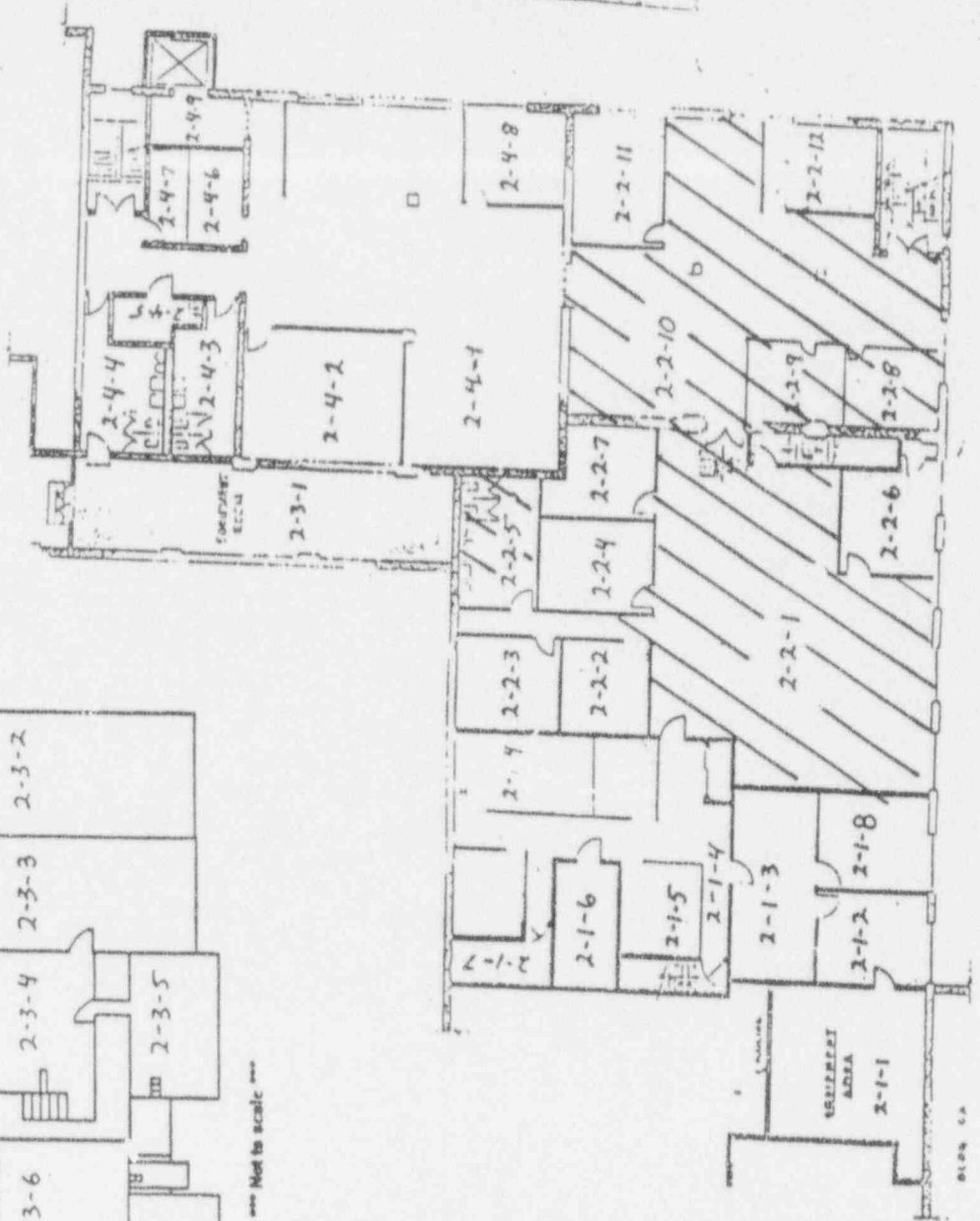
Building 5 Second Floor

North
←

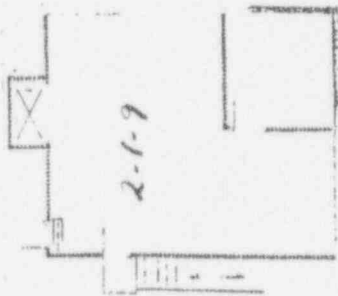
Above P.V. Labs



*** Not to scale ***



High bay east rear
Bldg. 5



DECOMMISSIONING SURVEY SCAN DATA SHEET

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	1588-L	34.3%		2.91
	ESP-2				

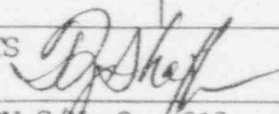
(*) IF USED	BETA SURVEY EQUIPMENT				
	INST	S/N	EFF	BKG	C.F.
	PAC4G	4478	33.5%		3.0
*	FLOOR MON.	91943	28.8%	1119	3.47
	E-520	5242	OOS	OOS	OOS
	E-520	5245	20.5%		4.87

SURFACE DESCRIPTION	EST % SCANNED	CONTACT GROSS CPM		LOCATION CODE (See Remarks)	SURVEY CLASSIFICATION (See Remarks)	COMMENTS
		MAXIMUM	AVERAGE			
Tile	80%	1459	1250	2-4-1	3	
"	100%	1436	1250	2-4-2	3	
"	100%	1256	1200	2-4-6,7	3	
"	100%	1260	1225	2-4-9	3	
	>30% of unit	scanned.				

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

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

SURVEYOR: TS
SIGNATURE:



SURVEY DATE: 3/18/93

FORM S/N: 2 - 013
(Survey Section-Sequential #)

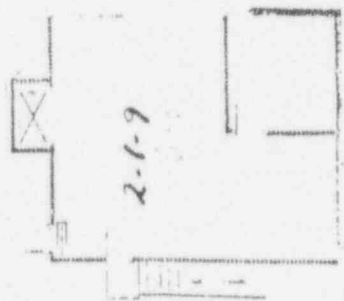
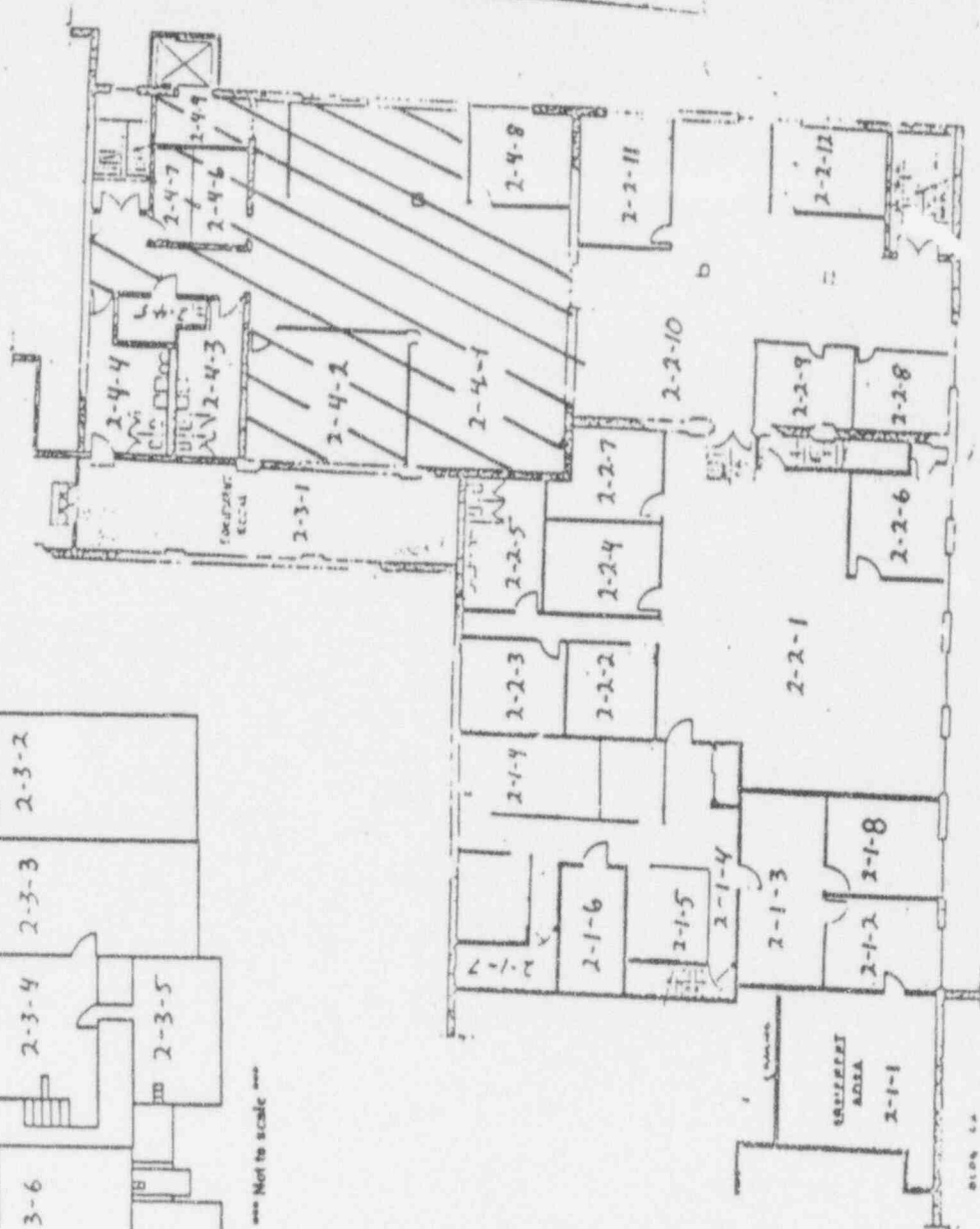
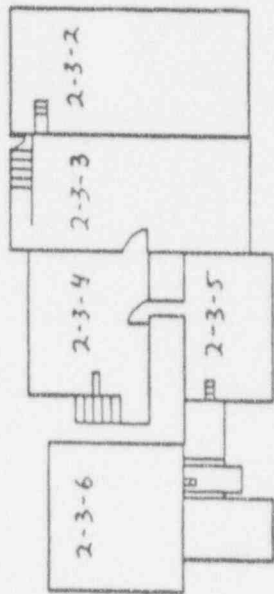
DISK FILE CODE: SDS-0033

Building 5 Second Floor

North



Above P.V. Labs



High bay east rear Bldg. 5

LICENSE TERMINATION REPORT

USNRC LICENSE NO. SNM-951

FINAL RADIOLOGICAL SURVEY
OF THE THIRD FLOOR OF BUILDING NUMBER 5
(SURVEY SECTION 3)

MARCH 31, 1993

WESTINGHOUSE ELECTRIC CORPORATION
LARGE, PA

REPORT #024

FINAL RADIOLOGICAL SURVEY
OF THE THIRD FLOOR OF BUILDING NUMBER 5
(SURVEY SECTION 3)

TABLE OF CONTENTS

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Analysis of Results	1
Current Status	2
Conclusions	2
Appendix A - Radiological Survey Data Sheets For Unit 1	
Appendix B - Radiological Survey Data Sheets for Floor Scans	

**FINAL RADIOLOGICAL SURVEY
OF THE THIRD FLOOR OF BUILDING NUMBER 5**

(Survey Section 3)

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 third floor of Building Number 5 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 5 are documented in other Reports.

Analysis of Results

Figure 1 presents the Site Plot Plan and identifies the location of Building Number 5 on the site. Figure 2 presents the floor plan for the third floor of the building. This floor has been designated as Survey Section 3. (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. Survey Unit 1 (see Figure 2) is an office area which has no history of the use of radioactive material, but was support offices for a work area. It was administratively decided to designate this office area as Class 3 rather than a lower classification.

Appendix A incorporates all of the radiological survey data sheets for the survey unit. Table 1 presents the survey data for the survey unit 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 the table to determine if the acceptance criteria have been met at the desired degree of confidence.

Floor scans of portions of several areas were also conducted. Appendix B contains the radiological data survey sheets for these floor scans. Table 2 presents the results of the floor scan data in units directly comparable with the applicable acceptance criteria.

Current Status

The third floor of Building 5 is a partially occupied area. It is anticipated that use of this floor will continue throughout the project. No radioactive material is utilized and no such use is anticipated.

Conclusions

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

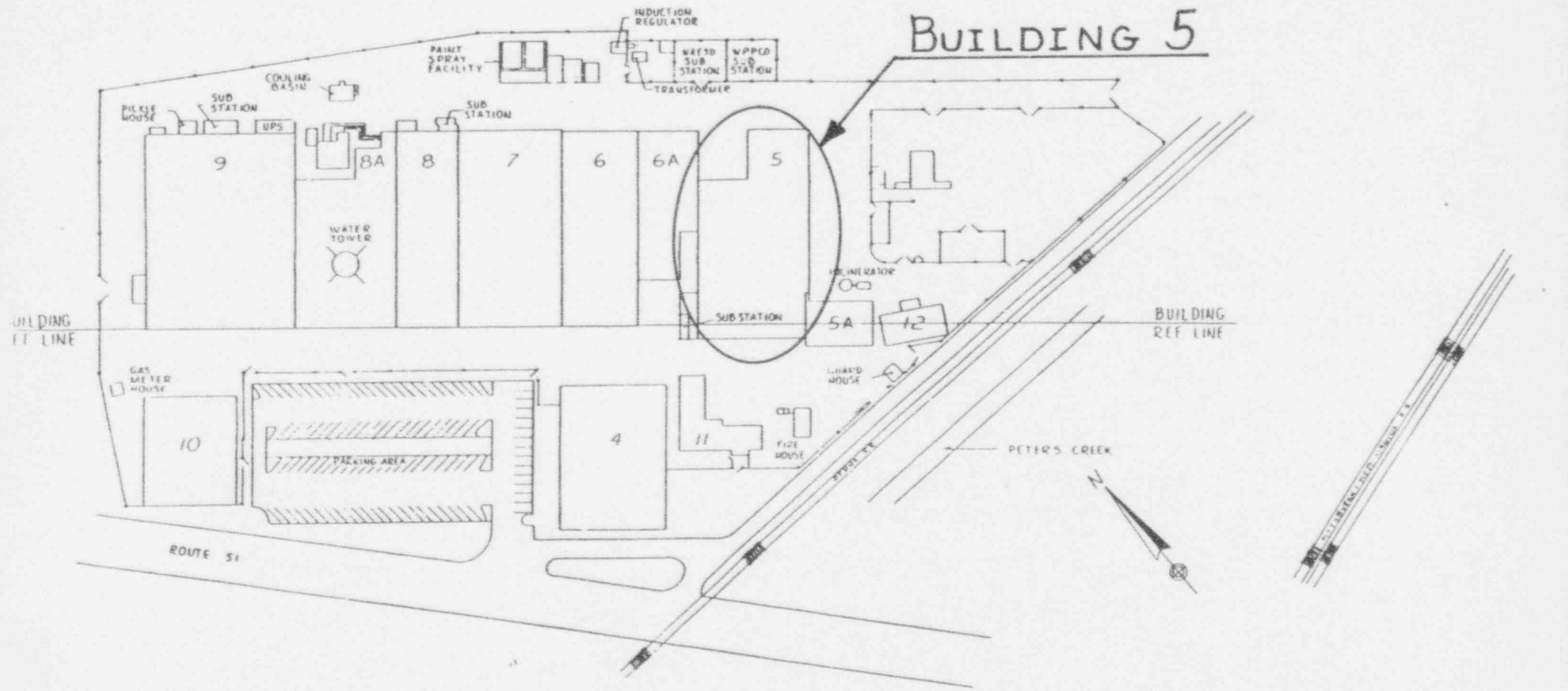


FIGURE 1
SITE PLOT PLAN

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
PARTS LIST							
UNLESS OTHERWISE SPECIFIED				DRAWN BY		CHECKED BY	
SPECIFIED DIMS PER ASME Y14.5M				DATE		SCALE	
DIMENSIONS - DO NOT SCALE				MATERIAL		FINISH	
Ø	R	PL	ARC	ANGLE	FINISH	FINISH	FINISH
				°	Ø	Ø	Ø
					Ø	Ø	Ø
SPECIFICATION				TYPE		QUANTITY	
DWS CODE NO.							
				DATE		BY	
				14683		JN030	
				DATE		BY	

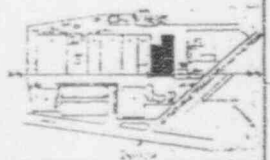
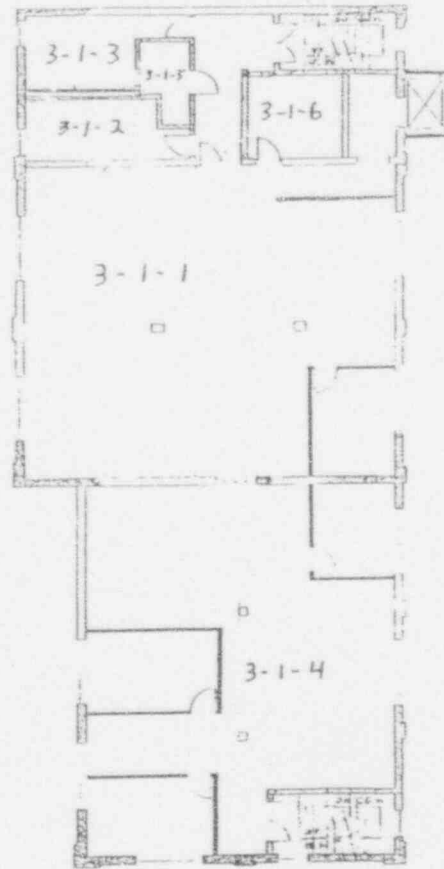
Westinghouse Advanced Energy Systems Div.
 Pittsburgh, Pennsylvania

VAESD LARGE.P4

REVISED		REVISIONS		DATE	APPROVED

**Building 5
Third Floor**

North



**FIGURE 2
BUILDING 5, THIRD FLOOR**

LEGEND

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

SCALE : FEET



QTY	REV	DESCRIPTION	CONC	PART OR	MATERIAL	SPECIFICATION	NOTE
PARTS LIST							
UNLESS OTHERWISE SPECIFIED			CONTRACT NO.				
INTERFAC SHG FOR WLD-100			DATE OF BLDG				
SHG BY POWER BASED ON SHG			DRAWING NO.				
TOLERANCES - 30 NOT SCALE			DESIGN & DATE				
DPL SHG			CONTRACTOR				
DPL SHG			SYMBOL				
AMSLN			SYMBOL				
AA			SYMBOL				
REEL			SYMBOL				
SPECIFICATION			DATE				
DWG CODE NO.			SCALE				

Westinghouse Advanced Energy Systems Division <i>Pittsburgh, Pennsylvania</i>	
THIRD & FOURTH FLOORS	
BUILDING NO 5	
WARD LARGE PA	
DATE	DRAWING NO.
D	14683
SCALE	DWG NO.
1/4" = 1'	JN-012
BY	APP

D
C
B
A

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, THIRD FLOOR (SECTION 3, UNIT 1)

SURFACE DESCRIPTION	GRID	X, Y	REF	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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 Tile	N/A	2, -2		3-1-1	15	0.020	175.9	110.3	-2.4	121.5	-0.26	-2.49
"	"	2, -4		3-1-1	13	0.010	135.1	70.4	-6.1	80.0	-0.26	-2.49
"	"	2, -6		3-1-1	12	0.020	110.3	50.4	2.4	60.8	-0.26	-2.49
"	"	2, -8		3-1-1	12	0.010	106.3	30.4	0.0	64.8	-0.26	-2.49
"	"	2, -10		3-1-1	13	0.020	41.6	10.4	2.4	68.8	-0.26	3.59
"	"	4, -10		3-1-1	11	0.010	93.5	30.4	0.0	59.2	-0.26	-2.49
"	"	4, -8		3-1-1	12	0.010	17.6	-49.6	6.1	4.0	-0.26	3.41
"	"	4, -6		3-1-1	12	0.010	-0.8	-49.6	-2.4	-12.8	-0.26	-2.49
"	"	4, -4		3-1-1	13	0.010	52.8	-9.6	0.0	55.2	-0.26	3.59
"	"	4, -2		3-1-1	13	0.010	71.2	10.4	0.0	64.0	-0.26	-2.49
"	"	6, -2		3-1-1	12	0.010	148.7	70.4	3.7	88.7	-0.26	-2.49
"	"	6, -4		3-1-1	12	0.010	135.9	70.4	4.9	7.2	-0.26	3.53
"	"	6, -6		3-1-1	11	0.010	18.4	-49.6	2.4	-36.8	-0.26	-2.49
"	"	6, -8		3-1-1	11	0.010	49.6	-29.6	2.4	54.4	-0.26	-2.49
"	"	6, -12		3-1-1	13	0.020	68.8	-9.6	2.4	0.0	-0.26	-2.49
Tile	N/A	8, -12		3-1-1	15	0.010	177.5	110.3	0.0	52.8	-0.26	-2.49
"	"	8, -10		3-1-1	11	0.010	64.0	10.4	12.2	40.8	-0.26	-2.49
"	"	8, -8		3-1-1	11	0.010	158.3	70.4	4.9	56.8	-0.26	3.59
"	"	8, -6		3-1-1	11	0.010	89.5	30.4	2.4	32.8	-0.26	-2.49
"	"	8, -4		3-1-1	12	0.010	40.0	-9.6	-2.4	52.8	-0.26	-2.49
"	"	8, -2		3-1-1	13	0.010	125.5	70.4	-2.4	70.4	-0.26	3.59
"	"	10, -2		3-1-1	12	0.020	174.3	90.3	7.3	128.7	-0.26	-2.49
"	"	10, -4		3-1-1	14	0.020	157.5	90.3	3.7	86.4	-0.26	-2.49
"	"	10, -6		3-1-1	13	0.010	100.7	10.4	0.0	68.0	-0.26	-2.49
"	"	10, -8		3-1-1	14	0.010	100.7	10.4	3.7	12.0	-0.26	-2.49
"	"	10, -10		3-1-1	12	0.010	66.4	-9.6	8.5	43.2	-0.26	9.66
"	"	12, -10		3-1-1	12	0.020	-0.8	-49.6	2.4	72.8	-0.26	9.31
"	"	14, -7		3-1-1	11	0.010	41.6	-9.6	7.3	-37.6	-0.26	-2.49
"	"	16, -7		3-1-1	11	0.010	-68.8	-129.5	8.5	-12.8	-0.26	9.66
"	"	16, -9		3-1-1	11	0.010	76.8	10.4	6.1	58.4	-0.26	-2.49
West Wall	N/A	6, 0		3-1-1			663.5	183.3	13.0	459.8	-0.26	3.59

TABLE 1

ANALYSIS OF SURVEY RESULTS AND COMPARISON AGAINST LIMITS FOR BUILDING #5, THIRD FLOOR (SECTION 3, UNIT 1)

?	?	?	X, Y	LOCATION	GAMMA SURVEY @1 METER (microR/hr)	BETA/GAMMA SURVEY ON CONTACT (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)
?	SURFACE DESCRIPTION	GRID	REF POINT	CODE								
?	"	"	8, 0	3-1-1			395.8	241.5	17.3	311.4	-0.26	9.31
?	"	"	10, 0	3-1-1			512.2	328.8	21.7	596.6	-0.26	3.41
?	"	"	12, 0	3-1-1			398.7	183.3	8.7	206.6	-0.26	-2.49
?	"	"	14, 0	3-1-1			410.3	212.4	13.0	331.7	-0.26	-2.49
?	"	"	2, 0	3-1-1			459.8	183.3	8.7	215.3	-0.26	-2.49
?	East Wall	"	12, 0	3-1-1			389.9	241.5	13.0	311.4	-0.26	-2.49
?	"	"	14, 0	3-1-1			325.9	125.1	4.3	317.2	-0.26	-2.49
?	Ceiling	"	2, -2	3-1-1			320.1	96.0	21.7	-81.5	-0.23	-2.49
?	"	"	6, -2	3-1-1			160.1	66.9	34.6	-26.2	-0.26	-2.49
?	"	"	10, -3	3-1-1			407.4	183.3	4.3	-104.8	-0.26	3.59
?	"	"	8, -6	3-1-1			416.1	-49.5	26.0	-264.8	-0.26	7.54
?	"	"	10, -6	3-1-1			424.9	8.7	8.7	-81.5	-0.26	-2.49
?	"	"	4, -7	3-1-1			66.9	-107.7	8.7	-174.6	-0.26	3.59
?	"	"	4, -10	3-1-1			14.6	-165.9	13.0	-261.9	-0.26	-2.49
?	Ceiling	N/A	6, -11	3-1-1			66.9	-78.6	8.7	-142.6	2.38	7.54
?	"	"	10, -12	3-1-1			261.9	96.0	4.3	-29.1	-0.26	3.41
?	West Wall	N/A	2, 0	3-1-2			416.1	212.4	39.0	203.7	-0.26	-2.49
?	"	"	4, 0	3-1-2			934.1	416.1	0.0	663.5	-0.26	-2.49
?	Tile	N/A	2, -6	3-1-3		12	155.9	90.3	4.9	20.0	-0.26	-2.49
?	"	"	2, -4	3-1-3		14	128.7	70.4	11.0	81.6	-0.26	-2.49
?	"	"	2, -2	3-1-3		14	102.3	50.4	0.0	46.4	-0.26	9.66
?	West Wall	N/A	6, +4	3-1-4			192.1	96.0	0.0	160.1	-0.26	3.41
?	Ceiling	"	4, -4	3-1-4			136.8	-165.9	21.7	-116.4	-0.26	3.41
?	"	"	4, -2	3-1-4			357.9	-49.5	8.7	-40.7	-0.26	9.31
?	South Wall	"	4, 0	3-1-4			308.5	183.3	17.3	259.0	-0.26	-2.49
?	"	"	8, 0	3-1-4			299.7	270.6	8.7	564.5	-0.26	3.41
?	"	"	10, 0	3-1-4			381.2	241.5	-4.3	270.6	-0.26	-2.49
?	East Wall	"	2, 0	3-1-4			873.0	328.8	30.3	599.5	-0.26	-2.49
?	"	"	4, 0	3-1-4			410.3	183.3	4.3	480.2	-0.26	9.31
?	"	"	6, 0	3-1-4			340.5	125.1	0.0	596.6	-0.26	-2.49
?	"	"	8, 0	3-1-4			369.6	125.1	13.0	259.0	-0.26	-2.49

TABLE 2
SUMMARY OF RADIOLOGICAL FLOOR SCAN DATA
(BUILDING 5, THIRD FLOOR, SURVEY SECTION 3)

LOCATION CODE	SURFACE DESCRIPTION	EST. % SCANNED	BETA SCAN SURVEY		ACCEPTANCE CRITERIA		UNITS	% OF ACCEPTANCE CRITERIA	
			MAXIMUM	AVERAGE	MAXIMUM	AVERAGE		MAXIMUM	AVERAGE
3-1-1	TILE	100%	190	110	15,000	5,000	DPM/100 cm ²	1.27%	2.21%
3-1-2	TILE	100%	112	50	15,000	5,000	DPM/100 cm ²	0.75%	1.01%
3-1-3	TILE	100%	174	130	15,000	5,000	DPM/100 cm ²	1.16%	2.61%
3-1-6	TILE	100%	196	110	15,000	5,000	DPM/100 cm ²	1.31%	2.21%

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	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	9	*	FLMON:91943	28.8%	3.47	1162

SURVEY DATE: 3/19/93
COUNT DATE: 3/22/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N			
	EFF	C.F.	BKG	
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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, -2	15	.02	1382	
"	"	2, -4	13	.01	1331	1250	4	1262	-0.264	-2.49	
"	"	2, -6	12	.02	1300	1225	11	1238	-0.264	-2.49	
"	"	2, -8	12	.01	1295	1200	9	1243	-0.264	-2.49	
"	"	2, -10	13	.02	1214	1175	11	1248	-0.264	3.59	
"	"	4, -10	11	.01	1279	1200	9	1236	-0.264	-2.49	
"	"	4, -8	12	.01	1184	1100	14	1167	-0.264	3.41	
"	"	4, -6	12	.01	1161	1100	7	1146	-0.264	-2.49	
"	"	4, -4	13	.01	1228	1150	9	1231	-0.264	3.59	
"	"	4, -2	13	.01	1251	1175	9	1242	-0.264	-2.49	
"	"	6, -2	12	.01	1348	1250	12	1273	-0.264	-2.49	
"	"	6, -4	12	.01	1332	1250	13	1171	-0.264	3.53	
"	"	6, -6	11	.01	1185	1100	11	1116	-0.264	-2.49	
"	"	6, -8	11	.01	1224	1125	11	1230	-0.264	-2.49	
"	"	6, -12	13	.02	1248	1150	11	1162	-0.264	-2.49	

FORM SERIAL #: 3 - 002 (Survey Section - Sequential survey #)	LOCATION # 3-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0389	SURVEY SIGNATURE: TS <i>T. Schaff</i>
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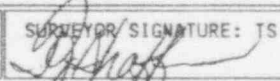
(*)IF USED	ALPHA SURVEY EQUIPMENT				(*)IF USED	BETA SURVEY EQUIPMENT			
	INST: S/N	EFF	C.F.	BKG CPM		INST: S/N	EFF	C.F.	BKG CPM
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	ESP2:					ESP2:			
	ESP2:					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	18.8%	5.3	9	*	FLMON:91943	28.8%	3.47	1162

SURVEY DATE: 3/19/93
COUNT DATE: 3/22/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	8, -12	15	.01	1384	1300	9	1228	-0.264	-2.49	
"	"	8, -10	11	.01	1242	1175	19	1213	-0.264	-2.49	
"	"	8, -8	11	.01	1360	1250	13	1233	-0.264	3.59	
"	"	8, -6	11	.01	1274	1200	11	1203	-0.264	-2.49	
"	"	8, -4	12	.01	1212	1150	7	1228	-0.264	-2.49	
"	"	8, -2	13	.01	1319	1250	7	1250	-0.264	3.59	
"	"	10, -2	12	.02	1380	1275	15	1323	-0.264	-2.49	
"	"	10, -4	14	.02	1359	1275	12	1270	-0.264	-2.49	
"	"	10, -6	13	.01	1288	1175	9	1247	-0.264	-2.49	
"	"	10, -8	14	.01	1288	1175	12	1177	-0.264	-2.49	
"	"	10, -10	12	.01	1245	1150	16	1216	-0.264	9.66	
"	"	12, -10	12	.02	1161	1100	11	1253	-0.264	9.31	
"	"	14, -7	11	.01	1214	1150	15	1115	-0.264	-2.49	
"	"	16, -7	11	.01	1076	1000	16	1146	-0.264	9.66	
"	"	16, -9	11	.01	1258	1175	14	1235	-0.264	-2.49	

FORM SERIAL #: 3 - 002 (Survey Section - Sequential survey #)	LOCATION # 3-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0390	SURVEYOR SIGNATURE: TS 
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LB5100W Low Background Counting System – Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\030101.XLD
 Batch Ended: 3/22/93 11:32
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 3-1-1 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	0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:16
2	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:16
3	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:17
4	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:17
5	0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/22/93 11:18
6	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:18
7	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/22/93 11:19
8	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:19
9	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/22/93 11:20
10	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:21
11	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:21
12	-0.264	0.93	<MDA	11.27	3.53	4.14	<MDA	15.88	1.00	-0.100	1.76	3/22/93 11:22
13	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:23
14	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:23
15	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:24
16	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:24
17	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:25
18	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/22/93 11:25
19	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:26
20	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:26
21	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/22/93 11:27
22	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:27
23	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:28
24	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:28
25	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:29

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\030101.XLD
 Batch Ended: 3/22/93 11:32
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

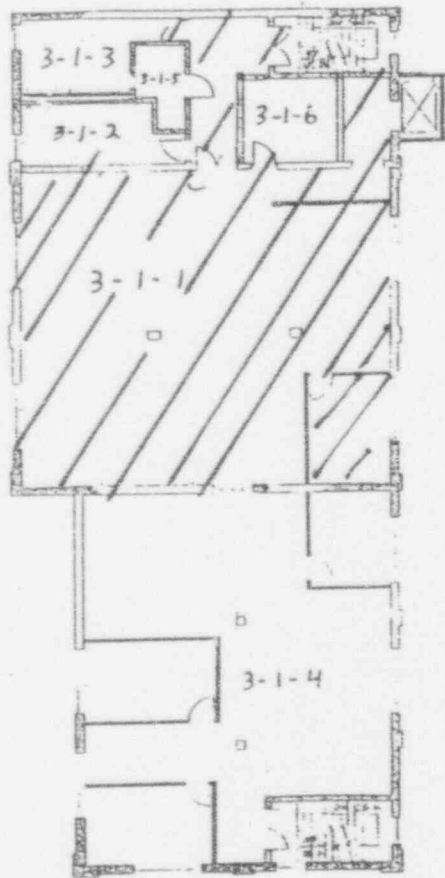
Batch ID: TSB - 3-1-1 floor and walls

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
26	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/22/93 11:30
27	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/22/93 11:30
28	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:31
29	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/22/93 11:31
30	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:32

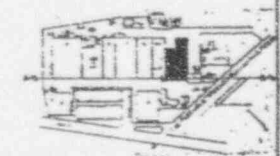
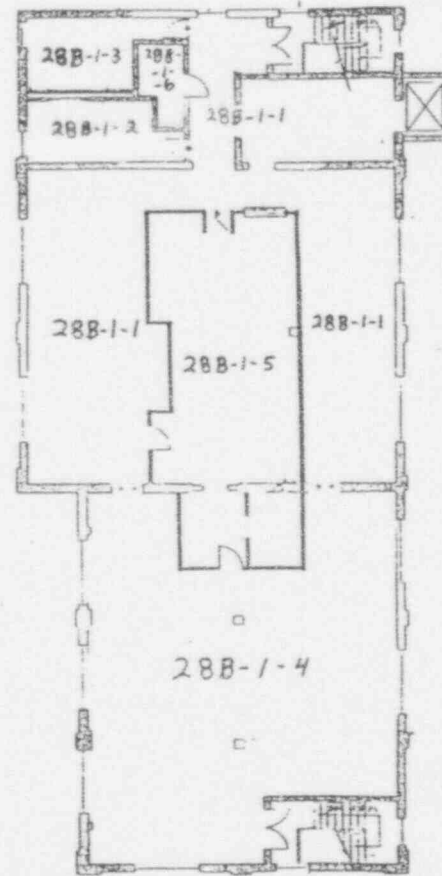
NO.	DATE	REVISIONS	BY	APP'D

Building 5
Third Floor

North



Building 5
Fourth Floor



LEGEND

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

SCALE : FEET



REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

REV	DATE	DESCRIPTION	BY	APP'D

Westinghouse Advanced Energy Systems Division
Pittsburgh, Pennsylvania
THIRD & FOURTH FLOORS
BUILDING N-5
W A E S D LARGE PA

14683 JN-012

D
C
B
A

6 5 4 3 2 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	
*	ESP2:1601-L	23.1%	4.33	3	*	ESP2:1588-L	34.3%	2.91	337
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/23/93
COUNT DATE: 3/23/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	6, 0	N/A	N/A	565	400	6	495	-0.264	3.59	Brick
"	"	8, 0	"	"	473	420	7	444	-0.264	9.31	"
"	"	10, 0	"	"	513	450	8	542	-0.264	3.41	"
"	"	12, 0	"	"	474	400	5	408	-0.264	-2.49	"
"	"	14, 0	"	"	478	410	6	451	-0.264	-2.49	"
"	"	2, 0	"	"	495	400	5	411	-0.264	-2.49	"
East Wall	"	12, 0	"	"	471	420	6	444	-0.264	-2.49	"
"	"	14, 0	"	"	449	380	4	446	-0.264	-2.49	"
Ceiling	"	2, -2	"	"	447	370	8	309	-0.2264	-2.49	Concrete
"	"	6, -2	"	"	392	360	11	328	-0.264	-2.49	"
"	"	10, -3	"	"	477	400	4	301	-0.264	3.59	"
"	"	8, -6	"	"	480	320	9	246	-0.264	7.54	"
"	"	10, -6	"	"	483	340	5	309	-0.264	-2.49	"
"	"	4, -7	"	"	360	300	5	277	-0.264	3.59	"
"	"	4, -10	"	"	342	280	6	247	-0.264	-2.49	"

FORM SERIAL #: 3 - 005 (Survey Section - Sequential survey #)	LOCATION # 3-1-1 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0406	SURVEYOR SIGNATURE: LB/TB <i>[Signature]</i>
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[Handwritten Signature]

LB5100W Low Background Counting System – Smear Analysis

Date: 3/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\030101UP.XLD
 Batch Ended: 3/23/93 13:12
 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: 1435
 Application Revision: 2
 Application Version: Standard

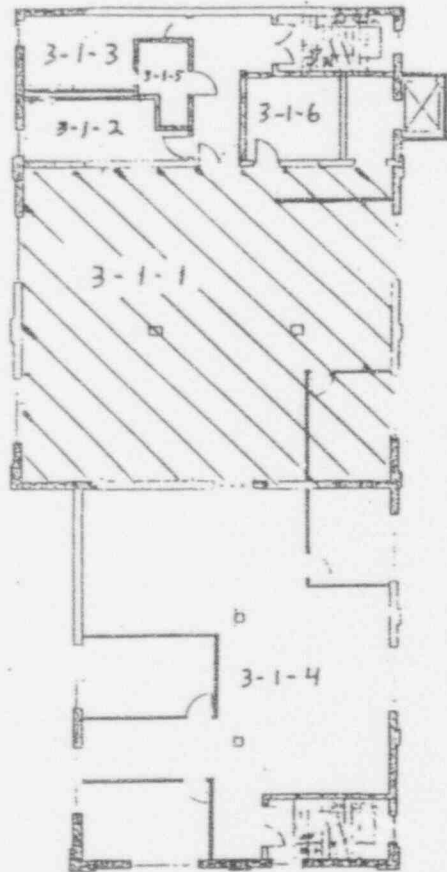
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.98%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 3-1-1 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	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/23/93 13:02
2	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/23/93 13:03
3	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/23/93 13:03
4	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:04
5	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:04
6	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:05
7	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:05
8	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:06
9	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:06
10	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:07
11	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/23/93 13:07
12	-0.264	0.93	<MDA	11.27	7.54	5.02	<AL	15.88	1.00	-0.100	3.76	3/23/93 13:09
13	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:09
14	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	-0.100	1.79	3/23/93 13:10
15	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:10
16	2.378	2.80	<AL	11.27	7.54	5.02	<AL	15.88	1.00	0.900	3.76	3/23/93 13:11
17	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/23/93 13:12

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED

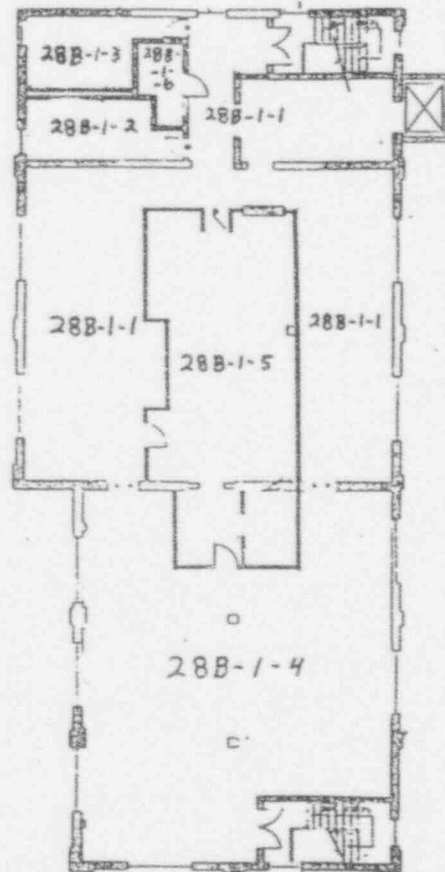
Building 5
Third Floor



North



Building 5
Forth Floor



LEGEND

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

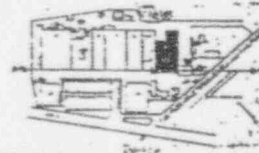
SCALE: FEET



REV	NO.	DESCRIPTION	DATE	BY	CHECKED	APPROVED

PARTS LIST		COMPANY NO.		DATE OF REV.	

Westinghouse Advanced Energy Systems Division Pittsburgh, Pennsylvania	
THIRD & FOURTH FLOORS BUILDING N-5 W AESD LARGE PA	
REV. NO.	
DWG. NO.	14683
SCALE	1/4" = 1'-0"
DATE	
BY	
CHECKED	
APPROVED	



LB5100W Low Background Counting System -- Smear Analysis

Date: 3/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\030102UP.XLD
 Batch Ended: 3/23/93 13:13
 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: 1435
 Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

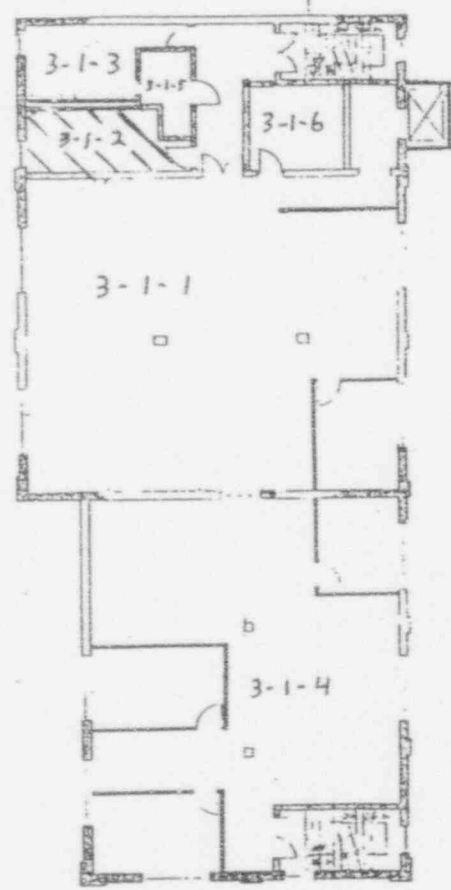
Batch ID: TSB - 3-1-2 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
18	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:12
19	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:13

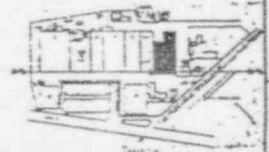
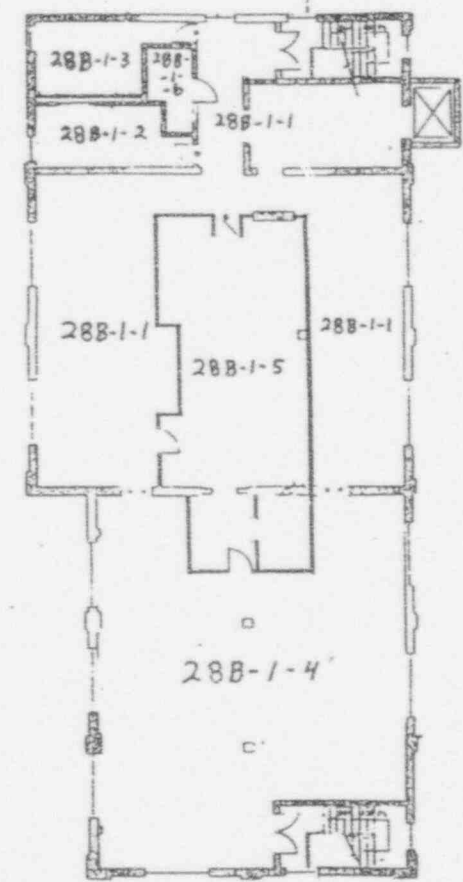
REVISIONS			
NO.	DATE	DESCRIPTION	BY

Building 5 Third Floor

North
←



Building 5 Fourth Floor



LEGEND
 BRICK
 CONC BLOCK EXT
 CONC BLOCK INT
 DRYWALL & PANELING
SCALE : FEET

REV	NO.	DESCRIPTION	DATE	BY	APP'D

PARTS LIST		DESCRIPTION	QTY	UNIT

WESTINGHOUSE ADVANCED ENERGY SYSTEMS DIVISION PITTSBURGH, PENNSYLVANIA	
THIRD & FOURTH FLOORS BUILDING N-5 W A E S D LARGE PA	
DWG NO. 14683	REV. NO. JN-012
SCALE: 3/4" = 1'-0"	DATE:

(*) IF USED	ALPHA SURVEY EQUIPMENT		BETA SURVEY EQUIPMENT		BKG CPM
	INST: S/N	EFF	INST: S/N	EFF	
	ESP2: 1517	21.1%	ESP2: 1595	34.2%	2.92
	ESP2: 1517-L	21.7%	ESP2: 1595-L	31.3%	3.20
	ESP2: 1601-L	23.1%	ESP2: 1588-L	34.3%	2.91
	ESP2:		ESP2:		
	ESP2:		E520: 5242	20.3%	4.92
	ASP1: 1891	19.1%	E520: 5245		
	PAC4G: 4478	18.5%	PAC4G: 4478	33.5%	3.0
*	FLMON: 91943	18.8%	FLMON: 91943	28.8%	3.47
					1162

SURVEY DATE: 3/19/93
COUNT DATE: 3/22/93

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

(*) IF USED	COUNTING EQUIPMENT (ALPHA)		C.F.	BKG	
	INST: S/N	EFF			
*	TENN: 13295	37.8%	2.64	0.1	
	SAC4: 1128	40.6%	2.46		
	SAC4: 263	34.7%	2.88		
COUNTING EQUIPMENT (BETA)					
(*) IF USED	INST: S/N		EFF	C.F.	BKG
*	TENN: 13295	49.9%	3.0	1.24	
	MS-2: 1848	26.4%	3.3		
	BC-4: 808	16.9%	5.92		

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	GROSS CPM	ALPHA	BETA	ALPHA	BETA	ALPHA		BETA
Tile	N/A	2, -6	12	.02	1357	1275	13	1187	-0.264	-2.49		Mens Room		
"	"	2, -4	14	.01	1323	1250	18	1264	-0.264	-2.49		"		
"	"	2, -2	14	.01	1290	1225	9	1220	-0.264	9.66		"		

FORM SERIAL #: 3 - 003
(Survey Section - Sequential survey #)

LOCATION # 3-1-3
(Survey Section - Unit # - Sub Unit #)

SURVEY CLASSIFICATION: III
(Group I, II, III, IV)

DISK FILE CODE: FDS - 0391

SURVEY SIGNATURE: TS
[Signature]

LB5100W Low Background Counting System -- Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\030103.XLD
 Batch Ended: 3/22/93 11:33
 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: 1435
 Application Revision: 2
 Application Version: Standard

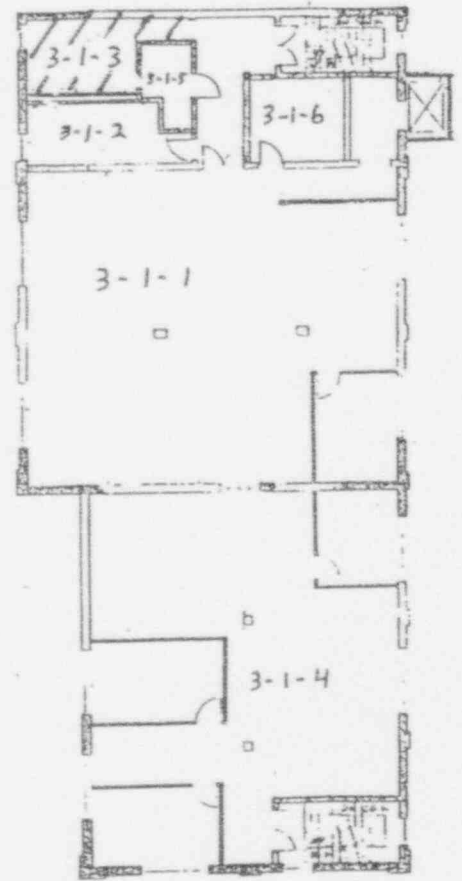
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

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

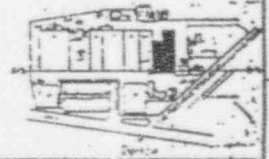
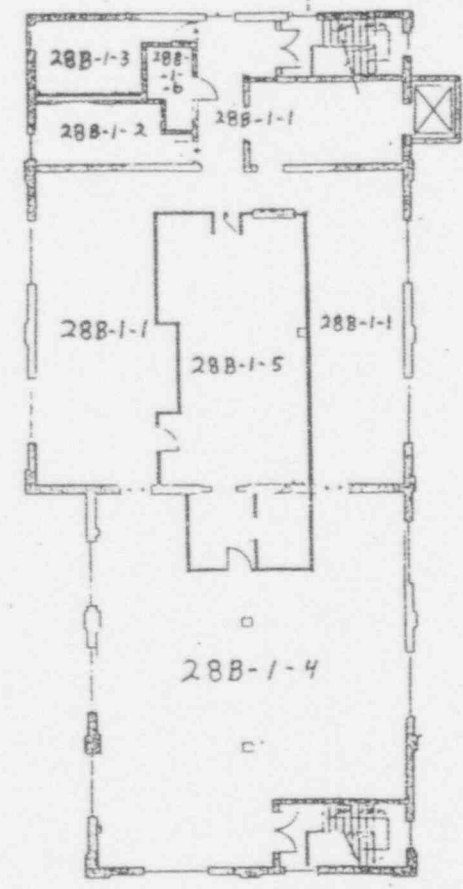
Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
31	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/22/93 11:32
32	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/22/93 11:33
33	-0.264	1.63	<MDA	28.84	9.66	9.45	<AL	34.63	0.33	-0.100	4.82	3/22/93 11:33

Building 5 Third Floor

North
←



Building 5 Forth Floor



LEGEND

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

SCALE : FEET
0 5 10 15 20 25

REV	REV NO.	DESCRIPTION OR REVISION	DATE	BY	APPROVED
PARTS LIST					
QTY	DESCRIPTION	UNLESS OTHERWISE SPECIFIED	COMPANY NO.	DATE OF SPEC	Westinghouse Advanced Energy Systems Division Pittsburgh, Pennsylvania
		INTERPRET SPEC FOR WELDING WELDING SYMBOLS SEE DET.		2-77	
		TOLERANCES - NO AMT SCALE			THIRD & FOURTH FLOORS BUILDING N-5 W A E S D L A R G E P A
		SPL DEC SPL DEC ANGLES A A A	BLOCK TRUCKS CELL	SIZE FINISH MATERIAL	
SYMBOLS	TYPE				DWG NO. 14683 JN-012
DWG CODE NO.					SCALE 1/8" = 1'-0" WY CALD DWST AP


(*)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	
*	ESP2:1601-L	23.1%	4.33	3	*	ESP2:1588-L	34.3%	2.91	337
	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	18.8%	5.3			FLMON:91943	28.8%	3.47	

SURVEY DATE: 3/23/93
COUNT DATE: 3/23/93

(*)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	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	COUNTING EQUIPMENT (BETA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	6, +.4	N/A	N/A	403	
Ceiling	"	4, -4	"	"	384	280	8	297	-0.264	3.41	Concrete
"	"	4, -2	"	"	460	320	5	323	-0.264	9.31	"
South Wall	"	4, 0	"	"	443	400	7	426	-0.264	-2.49	Brick
"	"	8, 0	"	"	440	430	5	531	-0.264	3.41	"
"	"	10, 0	"	"	468	420	2	430	-0.264	-2.49	"
East Wall	"	2, 0	"	"	637	450	10	543	-0.264	-2.49	"
"	"	4, 0	"	"	478	400	4	502	-0.264	9.31	"
"	"	6, 0	"	"	454	380	3	542	-0.264	-2.49	"
"	"	8, 0	"	"	464	380	6	426	-0.264	-2.49	"
"	"	10, 0	"	"	524	440	5	429	-0.264	-2.49	"

FORM SERIAL #: 3 - 007 (Survey Section - Sequential survey #)	LOCATION # 3-1-4 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS - 0409	SURVEYOR SIGNATURE: 
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LB5100W Low Background Counting System -- Smear Analysis

Date: 3/23/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\030104UP.XLD
 Batch Ended: 3/23/93 13:19
 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: 1435

Application Revision: 2
 Application Version: Standard

Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1

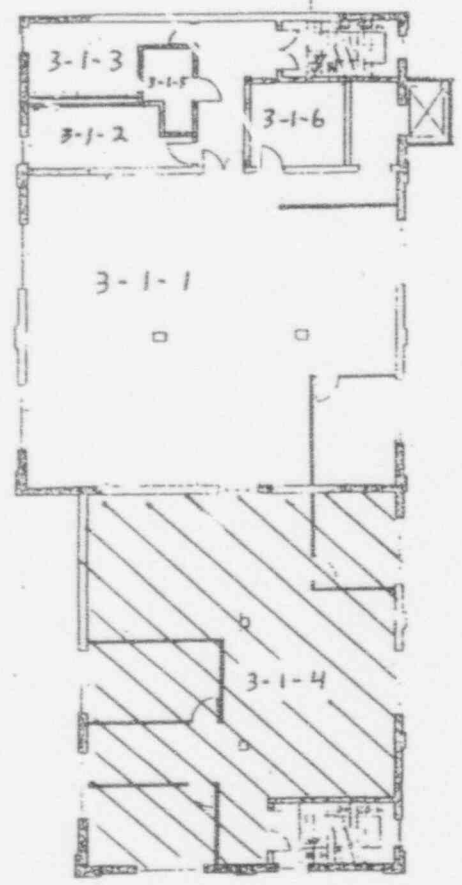
Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 3-1-4 upper surfaces

Carrier	Alpha Activity				Beta Activity				Count time (min)	Alpha CPM	Beta CPM	Completion TOD
	DPM	σ	flags	MDA	DPM	σ	flags	MDA				
20	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/23/93 13:14
21	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/23/93 13:14
22	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/23/93 13:15
23	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:15
24	-0.264	1.60	<MDA	28.10	3.41	7.06	<MDA	33.88	0.34	-0.100	1.70	3/23/93 13:16
25	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:16
26	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:17
27	-0.264	1.60	<MDA	28.10	9.31	9.20	<AL	33.88	0.34	-0.100	4.64	3/23/93 13:17
28	-0.264	1.60	<MDA	28.10	-2.49	3.87	<MDA	33.88	0.34	-0.100	-1.24	3/23/93 13:18
29	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:18
30	-0.264	1.63	<MDA	28.84	-2.49	3.93	<MDA	34.63	0.33	-0.100	-1.24	3/23/93 13:19

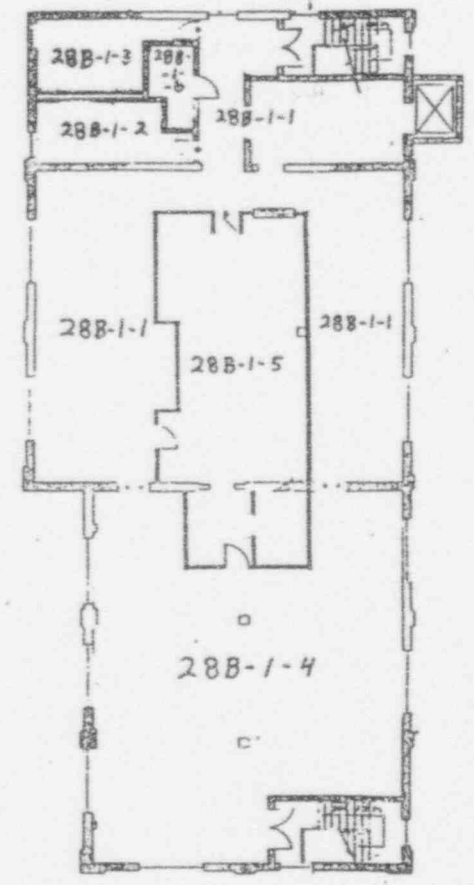
REVISIONS			
NO.	DATE	DESCRIPTION	BY

Building 5
Third Floor



North
←

Building 5
Forth Floor



LEGEND

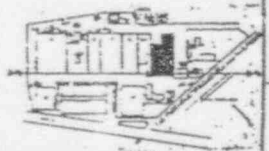
- BRICK
- CONC BLOCK EXT
- CONC BLOCK INT
- DRYWALL & PANELING

SCALE : FEET

REV	FOR	DESCRIPTION	DATE	BY

PARTS LIST		COMPANY NO.	DATE OF SPEC

Westinghouse Advanced Energy Systems Division Pittsburgh, Pennsylvania			
THIRD & FOURTH FLOORS BUILDING N-5 W A E S D LARGE PA			
DATE D 14683	DRAWING NO. JN-012	SHEET NO. A	SCALE 1/4" = 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
	ESP2:1517	21.1%	4.74			ESP2:1595	34.2%	2.92	
	ESP2:1517-L	21.7%	4.60			ESP2:1595-L	31.3%	3.20	
	ESP2:1601-L	23.1%	4.33			ESP2:1588-L	34.3%	2.91	
	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	18.8%	5.3	9	*	FLMON:91943	28.8%	3.47	1162

SURVEY DATE: 3/19/93
COUNT DATE: 3/22/93

(*)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	.01 mr/hr
	ESP2: 1522	mr/hr

(*)IF USED	COUNTING EQUIPMENT (ALPHA)			
	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	37.8%	2.64	0.1
	SAC4: 1128	40.6%	2.46	
	SAC4: 263	34.7%	2.88	
COUNTING EQUIPMENT (BETA)				
(*)IF USED	INST: S/N	EFF	C.F.	BKG
*	TENN: 13295	49.9%	2.0	1.24
	MS-2: 1848	26.4%	3.8	
	BC-4: 808	16.9%	5.92	

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	N/A	2, -2	12	.01	1304	1225	14	1211	-0.264	3.59	

FORM SERIAL #: 3 - 004 (Survey Section - Sequential survey #)	LOCATION # 3-1-6 (Survey Section - Unit # - Sub Unit #)	SURVEY CLASSIFICATION: III (Group I, II, III, IV)	DISK FILE CODE: FDS-0392	SURVEYOR SIGNATURE: TS <i>[Signature]</i>
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LB5100W Low Background Counting System -- Smear Analysis

Date: 3/22/93
 Counting Unit id: 1
 Data file name: C:\LBXL\UNIT1\030106.XLD
 Batch Ended: 3/22/93 11:34
 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: 1435
 Application Revision: 2
 Application Version: Standard

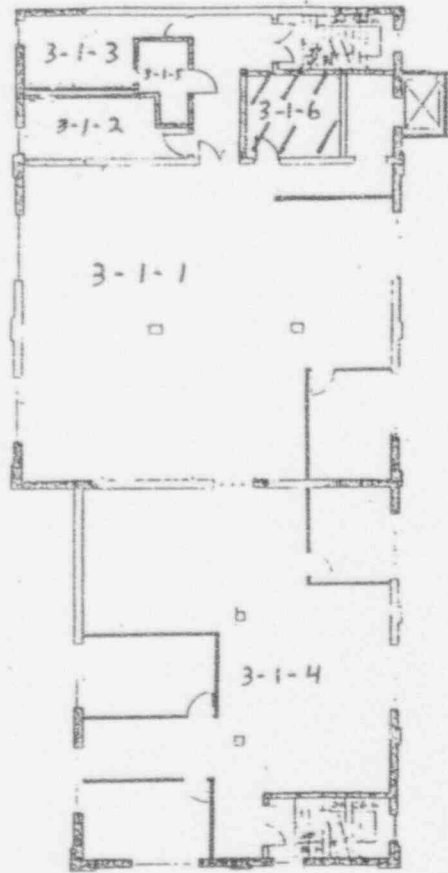
Alpha efficiency log file: po210ab
 Alpha Efficiency: 37.85%
 Alpha to Beta Crosstalk: 4.92%
 Alpha Background (CPM): 0.1
 Beta efficiency log file: cs137ab
 Beta Efficiency: 49.88%
 Beta into Alpha Crosstalk: 0.36%
 Beta Background (CPM): 1.24

Batch ID: TSB - 3-1-6 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	-0.264	1.63	<MDA	28.84	3.59	7.24	<MDA	34.63	0.33	0.100	1.79	3/22/93 11:34

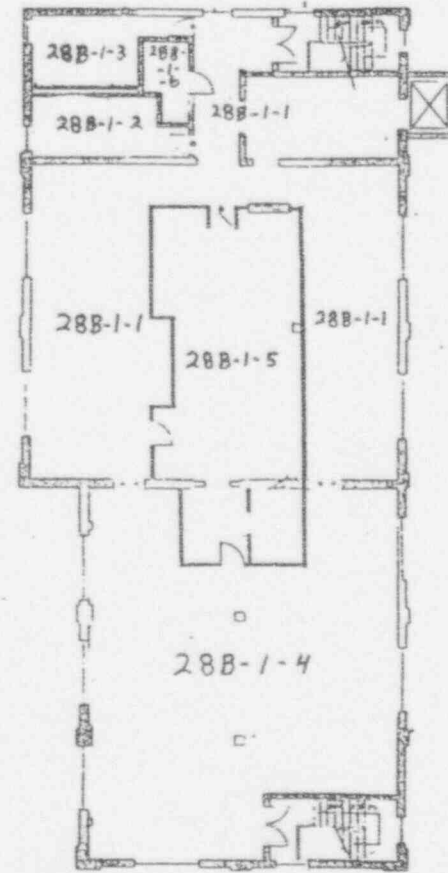
REVISIONS			
NO.	DATE	DESCRIPTION	BY

**Building 5
Third Floor**



North
←

**Building 5
Forth Floor**



LEGEND

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

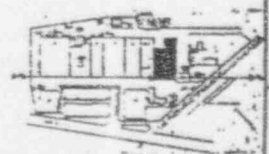
SCALE : FEET

QTY	REV.	PRO. NO.	SYMBOLS OR DESCRIPTION	CONC. QUANT. NO.	PART OR IDENTIFYING NO.	MATERIAL	PRESCRIPTION	NOTE
PARTS LIST								

Westinghouse Advanced Energy Systems Division
Pittsburgh, Pennsylvania

**THIRD & FOURTH FLOORS
BUILDING N-5
W A E S D LARGE PA**

DATE: 11/10/83
CONC. QUANT. NO.: 14683
PART OR IDENTIFYING NO.: JN-012
MATERIAL: A

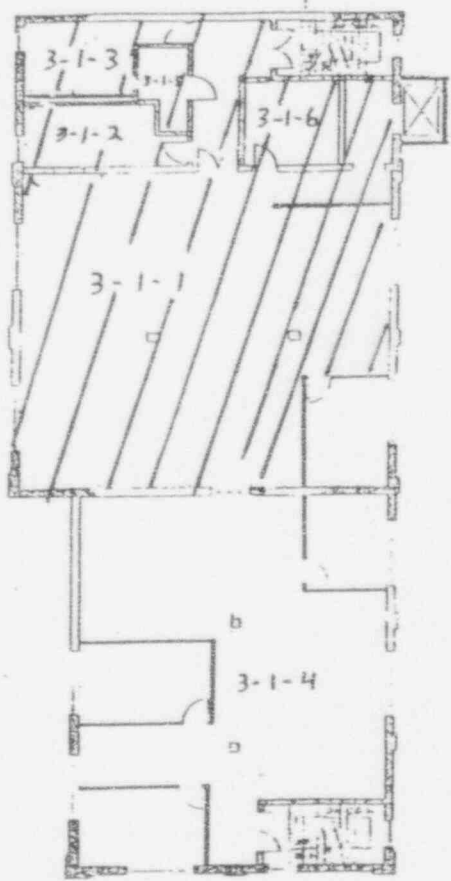


APPENDIX B

RADIOLOGICAL SURVEY DATA SHEETS FOR FLOOR SCANS

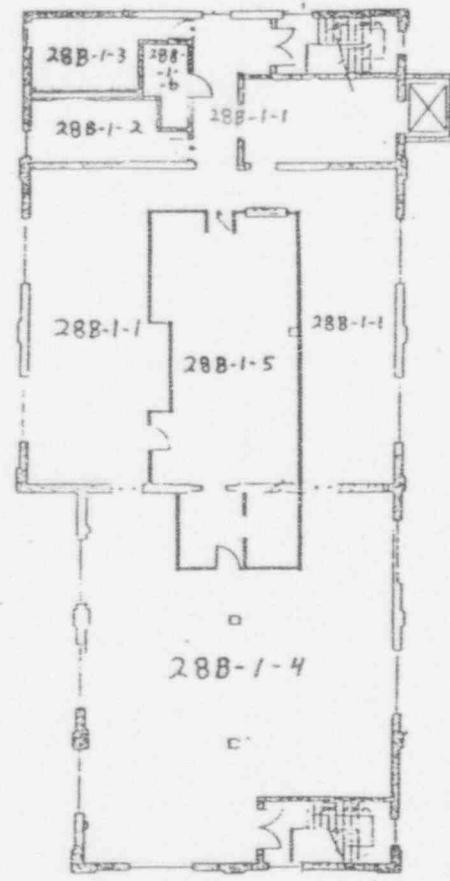
REVISIONS			
NO.	DATE	DESCRIPTION	BY

Building 5
Third Floor



North
←

Building 5
Fourth Floor



LEGEND

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

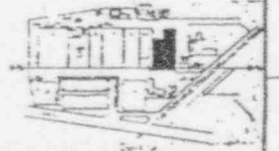
SCALE : FEET

REV	DATE	DESCRIPTION	BY	CHKD	DATE	DESCRIPTION	BY	CHKD

CONTRACT NO.		DATE OF ORDER		SCALE	

DESCRIPTION	QTY	UNIT	PRICE	TOTAL

Westinghouse Advanced Energy Systems Division Pittsburgh, Pennsylvania	
THIRD & FOURTH FLOORS BUILDINGS N-5 W A E S D LARGE PA	
DRAWING NO. D 14583	PROJECT NO. JN-012
SCALE: 1/4" = 1'-0"	SHEET NO. A



D
C
B
A