SURVEY PACKAGE COVER SHEET

Survey Area: C	Survey Unit: 707030 A	Building/Structure: B707
Survey Unit/Area Description: Building 707 -1st floor - B module WALLS, COLUMNS, CEILING		

Building Information:

Survey Type: Reconnaissance Level Characterization Survey ☐ Pre-Demolition Survey ☑

Building Type: Type 1 ☐ Type 2 ☐ Type 3 ☑

Classification: Class 1 ☑ Class 2 ☐ Class 3 ☐ Unknown ☐

Contaminants of Concern: Plutonium ☑ Uranium ☐ Other ☐

Types of Surveys Required: Alpha ☑ Beta ☐ Gamma ☐

Justification for Classification: Area has been decontaminated and surveyed previously, it is not expected that contamination greater than the DCGLw will exist

Special Support Requirements: **A heated instrument storage location will need to be placed in B707.** Natural lighting may not illuminate some areas of survey unit - temperature and/or lighting set-up required for these areas as needed.

Special Safety Requirements:

Isolation Controls:

LEVEL 1 ☐ LEVEL 2 ☑ N/A ☐

No use, storage, or movement of radioactive material, with the exception of instrument check sources, is permitted in this survey unit.

Comments: TSA and removable measurments are only required where elevated readings are found by scanning or where media samples are obtained

Labeling Requirements: Survey area surfaces shall be labeled per the attached survey map(s). All areas surveyed will be marked on the surveyed surface with indelible ink pen or equivilant.

Survey Package Implementation:

[redacted] Date: 12-2-2004

[redacted] Date: 12-2-04

Comments: Block 19 surveyed twice to ensure 100% coverage.

Survey Package Closure:

[redacted] Date: 12-16-4

Date: 12/6/04

Date: 12/6/04

RE Manager or RSM Printed Name	Employee #	RE Manager or RSM Signature	Date

(PRO-475-RSP-16.01, effective 05/22/01)

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B707-A-000163

1/121

SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM

Survey Area: C	Survey Unit: 707030A	Building/Structure: B707

Survey Unit/Area Description: Building 707, 1st floor, B module

Minimum Survey/Sampling Measurement Requirements

Measurement	Number and Type		Comments	
Surface Activity Measurements	**TOTAL SURFACE CONTAMINATION** Any location identified by scanning that exceeds 300 dpm/100cm^2		60-second count time required	
RE Verification	Mattson Print Name	[redacted]	Matt Signature	12-6-04 Date
Surface Scanning	Scan 100% of each area marked in blue on the attached map.		Perform scans in accordance with the attached Flow chart. Note: All locations are denoted on survey package survey map.	
RE Verification	Mattson Print Name	[redacted]	Matt Signature	12-6-04 Date
Media Samples	N/A			
RE Verification	N/A Print Name	Employee #	Signature	Date

(PRO-475-RSP-16.01, effective 05/22/01)

2

SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM (cont)

Survey Area: C	Survey Unit: 707030A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, B module		

Survey/Sampling Instructions

- **NOTE:** Any changes to the Survey Package must be logged in the "Survey Package Correction/Change History Form."

- **RCT** – If not already completed, label the survey unit surfaces per the Survey Package Cover Sheet Grid Requirements Section and the attached survey map(s).

- **RCT** – If not already completed, transpose sample numbers from attached survey maps onto each corresponding survey location on the survey unit surfaces.

  Note: Work will be performed in cold conditions. Instrument operability may be affected. Increased operability checks are required.

- **RCT – Perform pre-use performance checks of all instrumentation to be utilized in conjunction with this survey plan. Perform operational checks with sources attached to the instrument frequently, at least once every survey location. If operational check performed during work is 20% less than check performed prior to work, return instrument to the heated storage location. Obtain new instrument from heated storage location, perform operational check and re-survey the square meter where previous instrument failed operational check before proceeding to next area.**

- **RCT** – A priori Minimum Detectable Concentrations (MDCs) listed in the RFETS Pre-Demolition Survey Plan (PDSP) may be used. If MDCs are calculated, use the formula indicated below in the sampling instructions. Verify that computed MDCs are less than 50% of the applicable $DCGL_W$. Record all information on the Instrument Data Sheet.

$$MDC = \frac{3 + 3.29\sqrt{R_b t_s (1 + \frac{t_s}{t_b})}}{E_t (A/100) t_s}$$

Where,

R_b = Background counting rate
t_s = sample counting time interval
t_b = background counting time
E_t = total efficiency
A = physical surface area of the detector (or area sampled for smears)

Note: Ensure that a 90 second count time is utilized when determining the MDC of the NE Electra. A ten minute background and a two minute sample count time shall be used for the SAC-4. This will allow a correspondence between the MDC calculations and field measurements.

- **RCT** – Local Area Background values should be obtained at each survey block either just before or just after obtaining the actual total surface activity. Only one LAB per survey block is required.

SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM (cont)

Survey Area: C	Survey Unit: 707030A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, B module		

Survey/Sampling Instructions

- **RCT** - Obtain 100cm^2 total surface activity measurements (and local area background measurements) on areas that exceed 300 dpm/100cm^2. Document results on the " Investigation Data Sheet"

- **RCT** – perform ALPHA scans and ALPHA investigation scans. Complete the " Investigation Data Sheet" as appropriate.

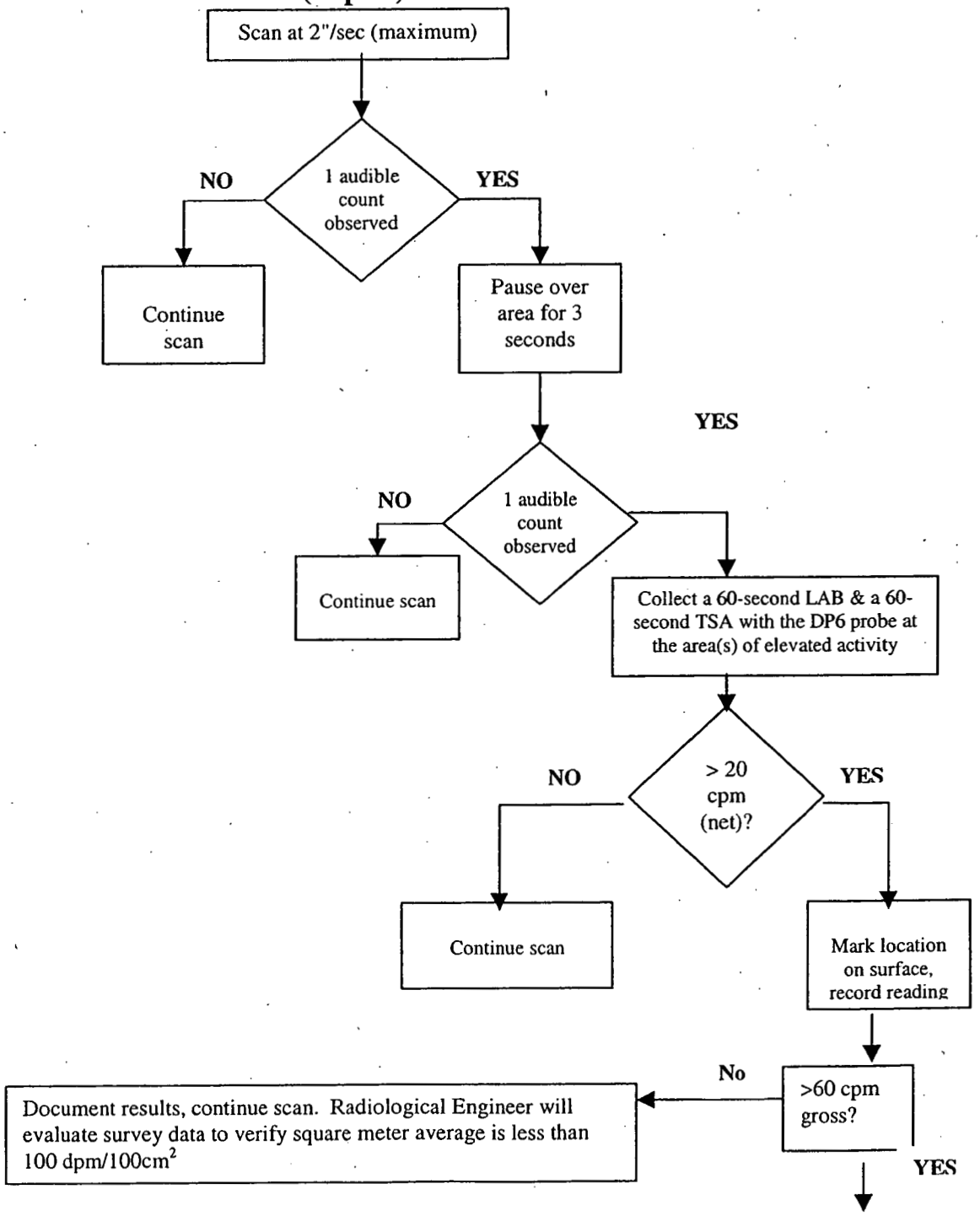
-

- **RCT** - Perform post-use performance checks immediately following use, typically following the conclusion of measurements on the same day. The post-use performance checks SHALL fall within ± 20% of the established range to be considered acceptable.

- **RCT Supervisor** – Review the applicable forms in the survey package for completeness, complete the "Survey Signature Sheet," and forward the survey package to Characterization Radiological Engineering for final disposition.

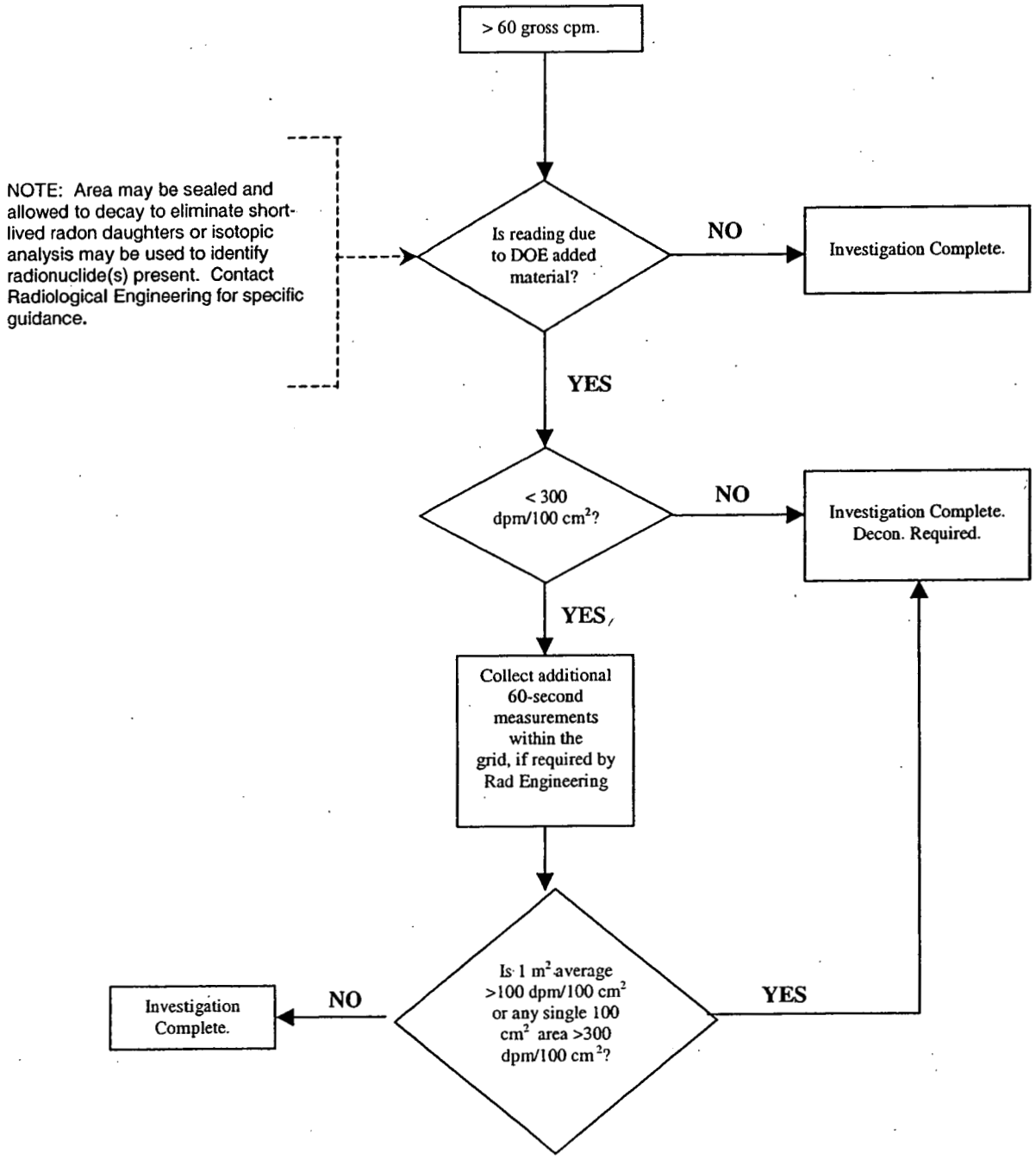
SCAN AND INVESTIGATION METHODS WITH SELECTED INSTRUMENTS

Scan Method with DP6 (example) (Alpha)



5

Investigation Method with DP6 (verify no areas >300 dpm/100cm^2) (Alpha)



6

SURVEY PACKAGE CORRECTION/CHANGE HISTORY FORM

Survey Area:	C	Survey Unit:	707030A	Building/Structure:	B707
Change #	Description			Initiator/ Date	RE

(PRO-475-RSP-16.01, effective 05/22/01)

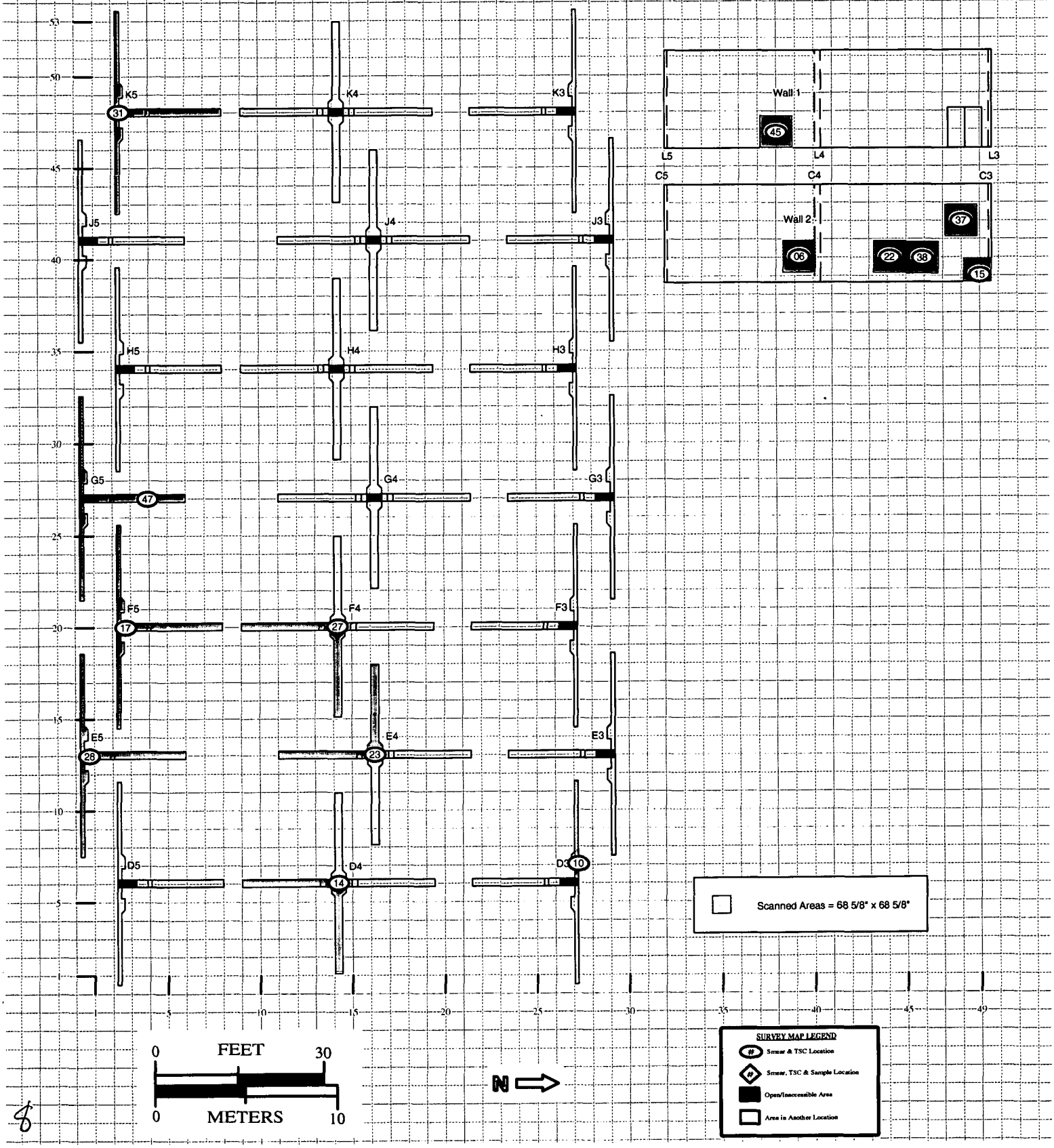
7

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 707 CLUSTER

Survey Area: C **Survey Unit: 707030A** **Classification: 2**
Building: 707
Survey Unit Description: First floor (B Module walls and ceiling)

Total Floor Area: 0 sq. m **Total Area: 1911 sq. m** **Block Size: 68 5/8" x 68 5/8"**

SURVEY UNIT 707030A - MAP 1 OF 2



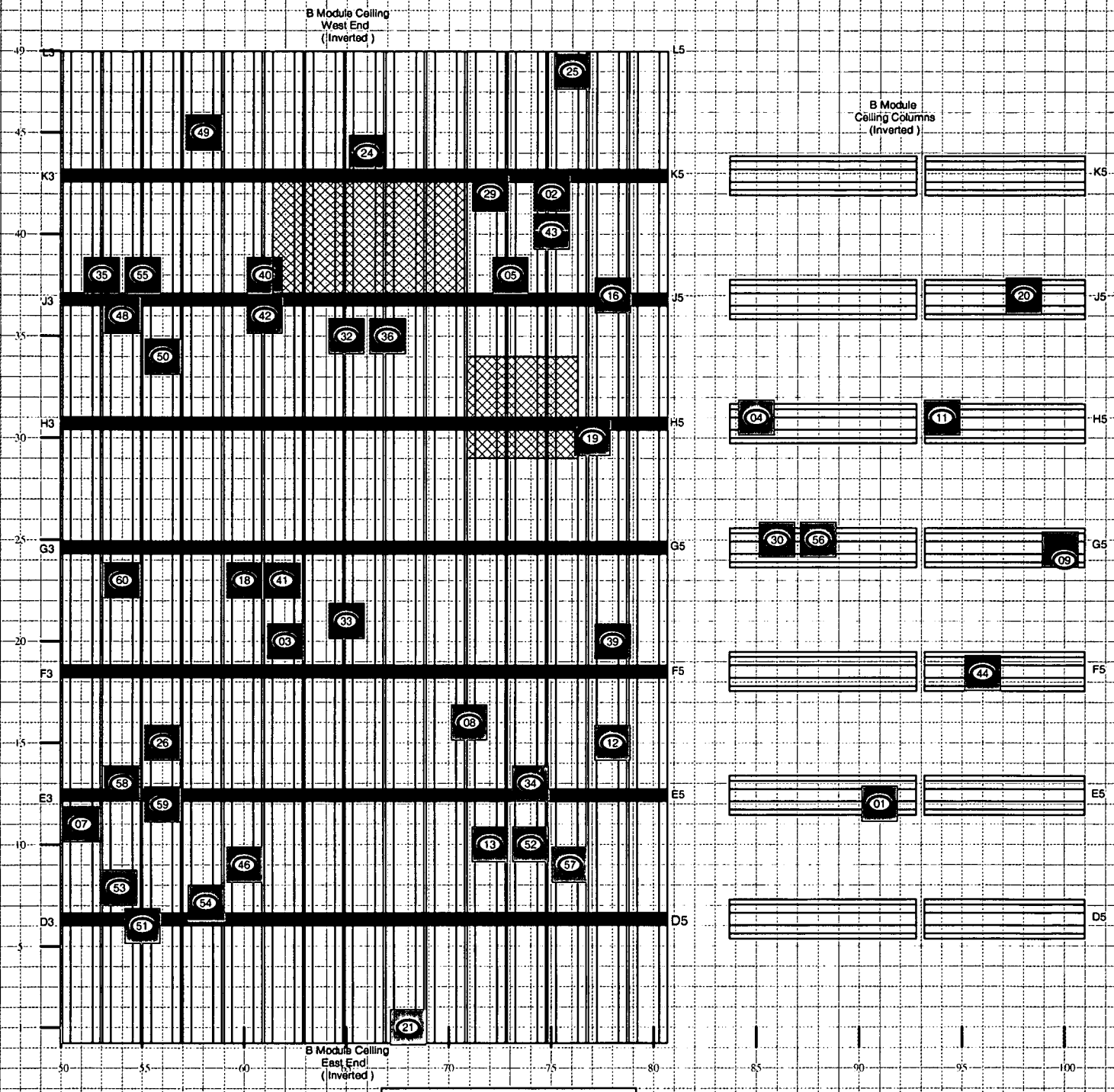
8

RADIOLOGICAL CLOSEOUT SURVEY FOR THE 707 CLUSTER

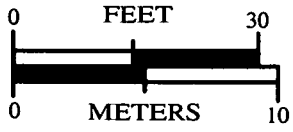
Survey Area: C **Survey Unit: 707030A** **Classification: 2**
Building: 707
Survey Unit Description: First floor (B Module walls and ceiling)

Total Floor Area: 0 sq. m **Total Area: 1911 sq. m** **Block Size: 68 5/8" x 68 5/8"**

SURVEY UNIT 707030A - MAP 2 OF 2



Scanned Areas = 68 5/8" x 68 5/8"



N

SURVEY MAP LEGEND

- Smear & TSC Location
- Smear, TSC & Sample Location
- Open/Inaccessible Area
- Area in Another Location
- Flow Fill Areas

9

Random Set
707030

Location	Page	X-Coordinate	Y-Coordinate	Location	Page	X-Coordinate	Y-Coordinate
NA	1	35	9	NA	2	92	3
1	2	91	12	NA	1	10	46
NA	1	49	26	NA	1	26	29
2	2	75	42	NA	2	92	10
NA	1	23	38	23	1	16	10
3	2	62	20	NA	1	35	26
4	2	85	31	24 Note 1	2	69	40
NA	1	9	32	NA	2	84	39
NA	1	18	35	NA	1	42	33
5	2	73	38	25	2	76	48
6	1	39	40	NA	2	91	11
7	2	51	11	26	2	56	15
8	2	71	16	27	1	14	16
NA	1	24	18	28	1	3	13
9	2	100	24	NA	2	88	1
10	1	27	7	29	2	72	42
11	2	94	31	NA	2	93	39
NA	1	42	52	30	2	86	25
NA	1	49	17	NA	1	45	29
12	2	78	15	NA	1	26	46
NA	1	46	16	31	1	6	48
13	2	72	8	NA	1	35	16
14	1	14	10	32 Note 1	2	65	37
15	1	49	39	NA	1	22	32
NA	1	46	10	33	2	65	21
NA	2	51	12	34	2	74	13
NA	1	12	23	NA	1	19	36
NA	1	24	3	NA	2	84	38
16	2	78	37	35	2	52	37
NA	1	46	36	36 Note 1	2	67	37
NA	2	98	46	37	1	42	41
NA	1	26	26	38	1	45	44
17	1	3	20	NA	2	96	1
NA	1	20	2	NA	1	11	9
18	2	60	23	NA	1	9	24
NA	1	40	46	NA	2	82	34
NA	2	81	30	NA	1	21	44
19	2	77	40	39	2	78	20
NA	2	93	44	40	2	61	38
20	2	98	36	NA	2	83	32
NA	1	35	8	41	2	61	23
NA	1	13	4	NA	2	89	46
NA	2	83	2	42	2	61	36
21	2	68	1	43	2	75	41
22	1	44	44	44	2	96	18
45	1	38	46	NA	2	63	31
NA	1	17	21	NA	1	27	3

LEGEND:

C-NA= UNPAINTED CEILING
X-NA=> NUMBER OF SAMPLES REQUIRED

Note 1: Moved due to inaccessiblity

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10

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707030

46	2	60	9	69	2	73	15
47	1	4	27	NA	1	13	36
NA	1	43	3	NA	1	1	14
48	2	54	36	NA	1	46	31
NA	1	8	16	70	2	68	14
49	2	58	45	71	2	74	11
50	2	56	34	NA	1	22	23
NA	1	8	43	NA	1	34	20
51	2	55	6	72	2	69	30
NA	1	30	26	73	2	62	49
52	2	74	10	NA	1	22	10
53	2	52	27	NA	1	15	46
NA	1	30	44	NA	1	39	40
NA	1	43	27	NA	1	43	19
54	2	59	7	NA	1	7	38
55	2	55	38	74	2	58	30
NA	1	7	7	NA	1	7	48
56	2	88	25	NA	1	7	23
NA	2	82	35	75	2	72	40
NA	2	85	14	NA	2	54	23
NA	1	13	51	NA	2	92	35
57	2	76	9	76	2	52	12
58	2	54	13	NA	2	83	43
NA	1	29	38	NA	1	49	36
59	2	56	12	77	2	90	25
NA	1	30	37	78	1	34	51
60	2	54	23	NA	1	3	2
NA	2	91	41	NA	2	87	39
61	2	68	22	NA	1	24	46
NA	1	36	37	NA	2	82	13
62	1	49	44	NA	1	35	22
NA	1	5	28	NA	1	18	52
63	2	74	14	NA	1	10	47
NA	1	18	53	79	2	52	3
NA	1	41	11	80	2	73	12
64	2	77	28	NA	1	30	23
65	2	68	18	81	2	77	25
NA	1	5	23	NA	2	80	49
66	2	60	35	82	2	50	46
NA	1	31	19	83	2	68	12
67	2	57	19	NA	1	31	45
68	1	38	50	NA	1	12	31
NA	1	7	2	NA	1	4	50
NA	1	28	43	97	2	97	42
84	1	5	34	NA	2	92	13
85	2	95	7	98	2	56	30
NA	2	91	15	NA	1	18	22
NA	1	37	26	NA	1	43	24

LEGEND:

C-NA= UNPAINTED CEILING
X-NA=> NUMBER OF SAMPLES REQUIRED

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11

Random Set
707030

86	1	46	49	NA	2	99	26
NA	2	82	22	NA	1	19	6
87	2	69	46	NA	1	26	10
88	1	14	51	99	2	97	18
NA	1	10	49	NA	1	19	21
NA	1	21	33	NA	1	2	22
NA	1	12	30	NA	2	96	39
NA	1	20	52	NA	1	32	46
89	2	67	48	NA	2	90	3
NA	1	49	8	NA	1	38	14
90	1	38	40	NA	2	92	6
NA	1	34	8	100	2	61	6
NA	1	41	3	NA	1	15	49
91	1	26	27	101	2	90	6
NA	1	34	20	NA	2	97	2
NA	2	77	20	102	2	55	3
NA	2	86	24	NA	1	20	29
NA	1	12	42	NA	1	48	53
NA	1	21	52	NA	1	17	48
92	2	70	33	NA	1	41	27
93	2	51	10	NA	2	87	25
94	2	63	1	103	2	55	44
NA	1	1	16	NA	2	83	40
NA	1	38	19	104	2	78	22
NA	1	7	41	NA	1	35	37
NA	2	87	11	NA	1	18	45
NA	2	90	34	NA	1	27	27
NA	2	92	10	105	2	57	21
95	2	75	14	NA	1	5	31
96	2	64	11	NA	2	86	33
NA	2	68	11	NA	1	46	12
NA	2	95	2	106	2	59	17
NA	2	96	28	NA	1	29	34
NA	1	23	23	NA	1	38	14
NA	1	40	38	NA	1	7	48
NA	2	93	41	107	2	72	2
NA	1	10	20	108	2	50	1
NA	2	99	3	NA	1	38	13
NA	1	5	23	NA	1	1	20
NA	1	23	8	109	2	80	7
110	2	78	32		1	12	34
111	2	69	11		1	17	37
112	2	51	34		2	84	29
NA	1	46	18		2	94	21
113	2	59	5		2	92	37
NA	1	39	3		1	46	8
114	2	69	41		2	67	12
115	2	61	14		2	70	42

LEGEND:

C-NA= UNPAINTED CEILING
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Note 1: Moved due to inaccessiblity

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12

Random Set
707030

NA	1	20	23		2	99	38
116	1	45	47		2	50	18
NA	2	89	15		1	13	38
NA	1	23	9		2	51	2
NA	2	85	21		2	58	32
117	1	29	39		1	37	34
118	2	60	12		1	49	27
119	2	56	41		2	79	5
NA	2	90	45		1	4	1
NA	1	19	5		1	15	6
NA	2	70	29		2	70	19
120	2	62	13		1	13	45
	1	31	4		2	63	29
	2	93	44		2	64	41
	2	54	14		2	92	44
	1	20	35		1	13	10
	1	16	29		2	92	39
	1	10	19		1	8	11
	1	22	50		2	97	34
	1	9	10		1	25	27
	2	71	25		1	17	16
	1	32	9		2	90	36
	2	91	15		2	75	8
	2	55	25		2	76	28
	2	71	49		1	25	25
	2	68	36		1	49	53
	2	99	13		1	21	52
	2	71	13		2	87	3
	1	37	23		1	6	6
	2	59	42		2	89	1
	2	91	18		2	76	30
	2	56	22		1	16	28
	1	8	44		1	40	27
	2	62	28		2	61	25
	1	39	46		2	89	24
	1	21	53		2	53	44
	2	62	11		1	43	37

LEGEND:

C-NA= UNPAINTED CEILING
X-NA=> NUMBER OF SAMPLES REQUIRED

Note 1: Moved due to inaccessiblity

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13

41

707030A

Survey Area: C	Survey Unit: ~~707024~~	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module		

Scan Survey, RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12-4-04	ELECTRA	1266	S		04	Yes
	12-4-04	ELECTRA	1266	S		40	Yes
	12-4-04	ELECTRA	1266	S		01	Yes
	12-4-04	ELECTRA	1266	S		56	Yes
	12-4-04	ELECTRA	1266	S		30	yes.
	12-4-04	ELECTRA	3128	S		47	Yes
	12-4-04	ELECTRA	3128	S		17	yes.
	12-4-04	Electra	3128	S		11 ~~16~~	~~Yes~~ ~~NO~~ *
	12-4-04	Electra	3128	S		19 16	Yes
	12-4-04	Electra	3128	S		20	Yes
	12-4-04	Electra	3128	S		32	Yes
	12-4-04	Electra	3128	S		36	~~Yes~~ ~~NO~~ *

51

Survey Area: C	Survey Unit: 707030A	Building/Structure: B707
Survey Unit/Area Description: Building 707 1st floor, B module		

0

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12-4-04	ELECTRA	4408	S		6	yes
	12-4-04	ELECTRA	4408	S		14	yes
	12-4-04	ELECTRA	4408	S		15	yes
	12-4-04	ELECTRA	4408	S		22	yes
	12-4-04	ELECTRA	4408	S		37	yes
	12-4-04	ELECTRA	4408	S		38	No (see next entry)
	12-4-04	ELECTRA	4408	S		38	yes *
	12-4-04	ELECTRA	4408	S		23	yes
	12-4-04	ELECTRA	4408	S		27	yes
	12-4-04	ELECTRA	4408	S		21	yes
	12-4-04	ELECTRA	4408	S		51	yes
	12-4-04	ELECTRA	4068	S		33	No (see next entry)
	12-4-04	ELECTRA	4068	S		39	yes
	12-4-04	ELECTRA	4068	S		19	yes
	12-4-04	ELECTRA	4068	S		9	yes
	12-4-04	ELECTRA	4068	S		3	yes
			N/A				

[redacted]

1 [redacted]

S = Scan only
I = Investigation

* SECOND SURVEY AND TAPE PRESSES INDICATE RADON

10

12/5/04

Survey Area: C	Survey Unit: 707030A ~~707021~~	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module		

Scan Survey, RCT and Instrument Sign In Sheet

[redacted]		Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm^2 (Yes or No)
		12/05/04	ELECTRA	4398	I		38	YES
								NA
[redacted]								

1 - Su[redacted]
S = Scan only
I = Investigation

Survey Area: C	Survey Unit: 707030A	Building/Structure: B707

Survey Unit/Area Description: Building 707, 1st floor, B module

0

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12/5/04	ELECTRA	1266	S		5,10,25,31,33	Yes
	12/5/04	ELECTRA	1266	S		43	Yes
	12/5/04	ELECTRA	3973	S		2,29,44	Yes
	12/5/04	ELECTRA	3979	S		35,48,49,45	Yes
	12/5/04	ELECTRA	3978	S		55,24	Yes
	12/5/04	ELECTRA	4068	S		18,26,41,58,60,	Yes
	12/5/04	ELECTRA	1245	S		7,50,	Yes
	12/5/04	ELECTRA	1245	S		42,53,54,55	Yes
			N				
			A				

J. CRIDER	702002	J Crider 12/5/04
RCT Supervision Printed Name	Employee #	RCT Supervision Signature

1 - Survey Type:
S = Scan only
I = Investigation

Areas greater than 300 dpm/100cm2 will be documented on the investigation documentation sheet sheet.

B1

61, 12-4-01

707030A

Survey Area: C	Survey Unit: ~~707021~~	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, A module		

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm² (Yes or No)
	12-4-04	ELECTRA	3128	S		46	Yes
	12-4-04	ELECTRA	3128	S		08	Yes
	12-4-04	ELECTRA	3128	S		13	Yes
	12-4-04	ELECTRA	3128	S		52	Yes
	12-4-04	ELECTRA	3128	S		34	Yes
	12-4-04	ELECTRA	3128	S		57	Yes
	12-4-04	ELECTRA	3128	S		12	Yes
	12-4-04	ELECTRA	3128	S		28	Yes

P TABLE SCALER CONTAMINATION INSTRUMENT RFORMANCE TEST LOG RSFORMS-02.01-(

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 4408 CAL. DUE DATE: 4-18-05 INSTRUMENT EFFICIENCY: Alpha 21.9 / Beta N/A

PROBE S/N: 2154 BLDG. 70 (Range, 2714 / 3671)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	[redacted]
11-7-04		Y	Y	Alpha	2.0	3324	N/A		
				Beta	N/A	N/A			
11-8-04		Y	Y	Alpha	4.0	3122	N/A		
				Beta	N/A	N/A			
06:00 12/4/04		Yes	Yes	Alpha	6.0	3260	N/A		
				Beta	N/A	N/A			
1600 12-4-04		Yes	Yes	Alpha	5-0	3172	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
		N		Alpha			N/A		
				Beta	N/A	N/A			
		A		Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

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 * Guidance for use of this form is located on the back of the form

20

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2714 - 3671

SOURCE ISOTOPE (Beta) 219 N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
J. Crider			12/5/04
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

COPY

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01.04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 4068 CAL. DUE DATE: 01-19-05 INSTRUMENT EFFICIENCY: .217 / N/A

PROBE S/N: 2068 BLDG. 707 (Range, 2264 / 3063)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1605 12-4-04		yes	yes	Alpha	4.0	2501			
				Beta	N/A	N/A	N/A		
2000 12-4-04		yes	yes	Alpha	4.0	2674			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

COPY

N/A

 * Guidance for use of this form is located on the back of the form

22

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680138 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12275 Range (cpm) ± 15%: 2264 / 3063
.217

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by:
RS Supervision: J. CRIDER, [signature] [redacted] 12/5/04
Name (print) Signature Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

23

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3973 CAL. DUE DATE: 12/22/04 INSTRUMENT EFFICIENCY: .214 / N/A

PROBE S/N: 2093 BLDG. 70 (Range, 2232 / 3019)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service a[redacted]

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
1400 12-2-04		YES	YES	Alpha	210	2658			
				Beta	N/A	N/A	N/A		
2230 12/2/04		Y	Y	Alpha	1.0	2,638			
				Beta	N/A	N/A	N/A		
0730 12-3-04		Y	Y	Alpha	3.0	2742			
				Beta	N/A	N/A	N/A		
0730 12-5-04		Yes	Yes	Alpha	5.0	2670			
				Beta	N/A	N/A	N/A		
1040 12-5-04		YES	YES	Alpha	3.0	2614			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

COPY

N/A

N/A

N/A

 * Guidance for use of this form is located on the back of the form

24

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 (Circle One) Certification/Decay Chart Date: N/A (Circle One)

Source (dpm): 12275 .214 Range (cpm) ± 15%: 2232, 2626, 3019

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A (Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision: J. CRIDER,	[signature]	[redacted]	12/5/04
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 1245 CAL. DUE DATE: 2/23/05 INSTRUMENT EFFICIENCY: Alpha 22.36 / Beta N/A

PROBE S/N: 1019 BLDG. 70 (Range, 2762 / 3738)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0700 12/5/04		Yes	Yes	Alpha	2.0	3192	N/A		
				Beta	N/A	N/A			
1100 12-5-04		Y	Y	Alpha	4.0	3183	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

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26

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): _____ Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2762-3250-3738

.223

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision: J. CRIDER,	[redacted]	12/5/02
Name (print)	Signature	Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 4068 CAL. DUE DATE: 01/19/05 INSTRUMENT EFFICIENCY: Alpha 21.7% / Beta N/A

PROBE S/N: 2068 BLDG. 70 (Range, 2688 / 3637)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0700 12/5/04		Yes	Yes	Alpha	7.0	3024	N/A		
				Beta	N/A	N/A			
1030 12/5/04		Yes	Yes	Alpha	7.0	3055	N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			
				Alpha			N/A		
				Beta	N/A	N/A			

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28

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14578 .217 Range (cpm) ± 15%: 2688-3163-3637

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:	[redacted]	
Name (print)	Signature	Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

29

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3979 CAL. DUE DATE: 2/6/05 INSTRUMENT EFFICIENCY: 21.4% / N/A

PROBE S/N: 2079 BLDG. 70 (Range, 2233 / 3020)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
12-5-04 0745		YES	YES	Alpha	3.0	2794			
				Beta	N/A	N/A	N/A		
1020 12-5-04		YES	YES	Alpha	3.0	2737			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

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30

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2692 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 12,275 .214 Range (cpm) ± 15%: 2233-3020

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:			
J. CRIDER	[signature]	[redacted]	12/5/04
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

31

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 01/28/05 INSTRUMENT EFFICIENCY: 21.9% / N/A

PROBE S/N: 1026 BLDG. 70 (Range, 2713 / 3671)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0700 12/5/04		Yes	Yes	Alpha	2.0	3091			
				Beta	N/A	N/A	N/A		
1200 12/5/04		Yes	Yes	Alpha	7.0	3135			
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

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 * Guidance for use of this form is located on the back of the form

32

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 60-0145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14528 .219 Range (cpm) ± 15%: 2713 - 3192 - 3671

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 12/5/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

33

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01-04 30

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3128 CAL. DUE DATE: 4-25-05 INSTRUMENT EFFICIENCY: 21.9 / N/A 30.1

PROBE S/N: 1990 BLDG. 70 (Range, 2713 / 3671) Beta 4158 5626

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]		
11-10-04		Y	Y	Alpha	1.0	320	N/A			
				Beta	N/A	N/A				
11-12-04		Y	Y	Alpha	1.0	3186	N/A			
				Beta	N/A	N/A				
11-15-04		Y	Y	Alpha	1.0	3217	N/A			
				Beta	N/A	N/A				
11-15-04		Y	Y	Alpha	0.0	3165	N/A			
				Beta	457 N/A	~~4786~~ N/A 4471				
11-21-04		Y	Y	Alpha		11-15-04 N	N/A			
				Beta	N/A	N/A				
11-22-04		Y	Y	Alpha	2.0	3217	N/A			
				Beta	N/A	N/A				
11-24-04		Y	Y	Alpha	4.0	3191	N/A			
				Beta	N/A	N/A				
12-1-04		Y	Y	Alpha	3.0	3221	N/A			
				Beta	N/A	N/A				
00:00 ~~12/2/04~~		N 12/2/04 ~~Yes~~	~~Yes~~	Alpha			N/A			
				Beta	N/A	N/A				
0608 12/4/04		Yes	Yes	Alpha	4.0	3210	N/A			
				Beta	N/A	N/A				
1600 12-4-04		Yes	Yes	Alpha	7.0	3193	N/A			
				Beta	N/A	N/A				
				Alpha						
				Beta	N/A	N/A	N/A			
		N		Alpha						
				Beta	N/A	N/A	N/A			
				Alpha						
				Beta	N/A	N/A	N/A			

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34

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 (Circle One) Certification/Decay Chart Date: N/A (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2714 - 3671

SOURCE ISOTOPE (Beta) 16254 N/A .219 (CSL)/(S/N)/(Registry No.): 604024 N/A Certification/Decay Chart Date: N/A (Circle One)

Source (dpm): N/A Range (cpm) ± 20%: 4158 N/A 5626

Approved by: RS Supervision: J. CRIDER	[signature]	[redacted]	12/5/04
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

35

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01-04

(Alpha only) Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 3128 CAL. DUE DATE: 4-25-05 INSTRUMENT EFFICIENCY: 21.9 / N/A 30.1

PROBE S/N: 1990 BLDG. 70 (Range, 2713 / 3671) Beta 4158 5626

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service [redacted]

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]
11-10-04		Y	Y	Alpha	1.0	3210	N/A	
				Beta	N/A	N/A		
11-12-04		Y	Y	Alpha	1.0	3186	N/A	
				Beta	N/A	N/A		
11-15-04		Y	Y	Alpha	1.0	3217	N/A	
				Beta	N/A	N/A		
11-15-04		Y	Y	Alpha	0.0	3165	N/A	
				Beta	437 N/A	~~4908~~ N/A 4471 11-15-04 N'		
11-21-04		Y	Y	Alpha			N/A	
				Beta	N/A	N/A		
11-22-04		Y	Y	Alpha	[illegible]	3217	N/A	
				Beta	N/A	N/A		
11-24-04		Y	Y	Alpha	4.0	3191	N/A	
				Beta	N/A	N/A		
12-1-04		Y	Y	Alpha	3.0	3221	N/A	
				Beta	N/A	N/A		
00:00 ~~12/2/04~~		12/2/04 ~~Yes~~	~~Yes~~	Alpha			N/A	
				Beta	N/A	N/A		
0608 12/4/04		Yes	Yes	Alpha	4.0	3210	N/A	
				Beta	N/A	N/A		
1600 12-4-04		Yes	Yes	Alpha	7.0	3193	N/A	
				Beta	N/A	N/A		
1918 12-4-04		Yes	Yes	Alpha	6.0	3207	N/A	
				Beta	N/A	N/A		
				Alpha			N/A	
				~~Beta~~	~~N/A~~	~~N/A~~		
		A		Alpha			N/A	
				Beta	N/A	N/A		

COPY

 * Guidance for use of this form is located on the back of the form

36

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 (Circle One) Certification/Decay Chart Date: N/A (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2714 - 3671

SOURCE ISOTOPE (Beta) 16254 N/A 21.9 (CSL)/(S/N)/(Registry No.): 604024 N/A Certification/Decay Chart Date: N/A (Circle One)

Source (dpm): N/A Range (cpm) ± 20%: 4158 N/A 5626

Approved by: RS Supervision: J. CRIDER, [signature]	[redacted]	12/5/04
Name (print)	Signature	Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

37

P[illegible]ABLE SCALER CONTAMINATION INSTRUMENT [illegible]FORMANCE TEST LOG RSFORMS-02.01-[illegible]

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 01/28/05 INSTRUMENT EFFICIENCY: Alpha 21.9 % / Beta N/A

PROBE S/N: 1026 BLDG. 70 (Range, 2714 / 3672 .219

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]
11-01-04	[redacted]	Y	Y	Alpha	3.0	3239	N/A	[redacted]
				Beta	N/A	N/A		
11-2-04	[redacted]	YES	YES	Alpha	3.0	3246	N/A	[redacted]
				Beta	N/A	N/A		
11-3-04	[redacted]	Y	Y	Alpha	2.0	3211	N/A	[redacted]
				Beta	N/A	N/A		
11-4-04	[redacted]	Y	Y	Alpha	2.0	3347	N/A	[redacted]
				Beta	N/A	N/A		
11-5-04	[redacted]	Y	Y	Alpha	3.0	3366	N/A	[redacted]
				Beta	N/A	N/A		
11-7-04	[redacted]	Y	Y	Alpha	4.0	3187	N/A	[redacted]
				Beta	N/A	N/A		
11-8-04	[redacted]	Y	Y	Alpha	4.0	3176	N/A	[redacted]
				Beta	N/A	N/A		
00:00 12/2/04	[redacted]	Yes	Yes	Alpha	0.0	3123	N/A	[redacted]
				Beta	N/A	N/A		
05:00 12/2/04	[redacted]	Yes	Yes	Alpha	2.0	3349	N/A	[redacted]
				Beta	N/A	N/A		
00:00 12/3/04	[redacted]	Yes	Yes	Alpha	3.0	3144	N/A	[redacted]
				Beta	N/A	N/A		
0530 12/3/04	[redacted]	Y	Y	Alpha	4.0	3212	N/A	[redacted]
				Beta	N/A	N/A		
0600 12-4-04	[redacted]	Y	Y	Alpha	3.0	3187	N/A	[redacted]
				Beta	N/A	N/A		
1600 12-4-04	[redacted]	Y	Y	Alpha	4.0	3241	N/A	[redacted]
				Beta	N/A	N/A		
2000 12-4-04	[redacted]	Y	Y	Alpha	5.0	3111	N/A	[redacted]
				Beta	N/A	N/A		

COPY

 * Guidance for use of this form is located on the back of the form

58

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 680145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2714-3672

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 15%: N/A

Approved by: RS Supervision:			
J. CRIDER	[signature]	[redacted]	12/5/04
Name (print)	Signature		Date

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

39

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

(Alpha only)

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 01/28/05 INSTRUMENT EFFICIENCY: Alpha 21.9% / Beta N/A

PROBE S/N: 1026 BLDG. 70 (Range, 2713 / 3671)

This form is used to record parameters noted during daily performance checks on NE Electra, Bicron Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service are returned to Instrumentation Repair Facility.

TIME/ DATE	[redacted]	IN CAL Yes No	BATT SAT Yes No	COUNT TYPE	BKG (cpm)	INSTRUMENT READING (Net cpm)	FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials)	[redacted]	
0700 12/5/04		Yes	Yes	Alpha	2.0	3091	N/A		
				Beta	N/A	N/A			
1200 12/5/04		Yes	Yes	Alpha	7.0	3135	N/A		
				Beta	N/A	N/A			
0800 12/6/04		Yes	Yes	Alpha	3.0	3249	N/A		
				Beta	N/A	N/A			
1230 12/6/04		Yes	Yes	Alpha	2.0	3077	N/A		
				Beta	N/A	N/A			
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		
				Alpha					
				Beta	N/A	N/A	N/A		

N/A

CCIX

 * Guidance for use of this form is located on the back of the form

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 60-0145 Certification/Decay Chart Date: N/A
(Circle One) (Circle One)

Source (dpm): 14528 Range (cpm) ± 15%: 2713 - 3192 - 3671

SOURCE ISOTOPE (Beta) N/A (CSL)/(S/N)/(Registry No.): N/A Certification/Decay Chart Date: N/A
(Circle One)

Source (dpm): N/A Range (cpm) ± 20%: N/A

Approved by: RS Supervision:		[redacted]	
Name (print)	Signature		Date 12/6/04

$$\%Error = \frac{(Net\ cpm + eff) - Source\ dpm}{Source\ dpm} \times (100)$$

Where Net cpm = Source cpm - Background cpm

GUIDANCE:

- The appropriate instrument data and building location is recorded on RSFORMS-02.01-04.
- Obtain an appropriate certified source or decay chart source for the instrument being tested.
- A general inspection is performed on the instrument for the following:
  - * Physical condition of the detector, cables, and instrument
  - * Instrument battery/power supply check is satisfactory
  - * Instrument audio check is satisfactory, as applicable
  - * Instrument light leak check is satisfactory, as applicable
  - * Instrument background response check is within tolerances of expected values (typically 1 minute count)
  - * Instrument corrected source count reading falls within an acceptable range (± 15% of source value typically using a 1 minute count)
- Performance test data is recorded (as applicable) to each portable contamination survey instrument with signature upon completion.

Survey unit 707030A
Grid # 01

< 94dpm

Pre Source check 400 clm
Post Source check 421 clm
Post Source check +or- 20% Yes X No —

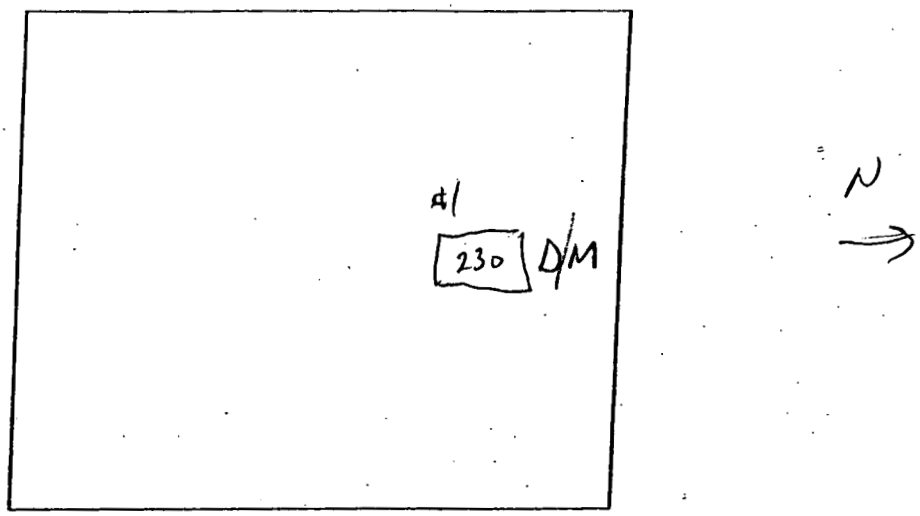
Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 1266
Cal Date Due 1-29-05
Eff 21.9%
LAB 3 clm 15 dlm
LAB Taken in Center of Grid
J. CRIDER [redacted]
Supervisor J. Crider ~~RSM~~ 12/5/04 signature J Crider [redacted]
Date 12/5/04

41

Survey unit 707030A

Grid # 02



Pre Source check 516 c/m

Post Source check 568 c/m

Post Source check +or- 20% Yes X No —

#1 TSA 46.0 cpm

NAME [redacted]

Rct #

Date 12/5/04

Inst Electra

S/N 3973

Cal Date Due 12/22/04

Eff 21.4%

LAB 3.0 c/m 15.0 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 [redacted]

Survey Area:	C	Survey Unit:	707030 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor - B module

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
2	1	512999	3973	3.0	46.0	NA	NA	NA	NA	12-5-04
NA	NA	NA	NA	NA	NA					NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

RCT ID #		Date
1	[redacted]	12/5/04
2		NA
3		
4		NA

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3973	12/22/04	21.47	NA
2	NA	NA	NA	
3				
4	NA	NA	NA	NA

Comments

J. CRIVER
Supervisor (print)

[redacted]
Supervisor (signature)

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

43

Survey unit 707030A
Grid # 03

<94 DPM

Pre Source check 400 c/m
Post Source check 398 c/m
Post Source check for - 20% Yes ✓ No

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 4068
Cal Date Due 01-19-05
Eff .217
LAB 4.0 c/m 12.0 D/m
LAB Taken in Center of Grid

J CRIDER J. Crider
Supervisor [redacted] ~~RSM~~ 12/5/04 Signature J. Crider E [redacted]
Date 12/5/04

44

Survey unit 707030A
Grid # 04

<94 dpm

Pre Source check 400 cpm
Post Source check 422 cpm
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 1266
Cal Date Due 1-28-05
Eff 21.9%
LAB 7.0 cpm 35.0 dpm
LAB Taken in Center of Grid
Supervisor J. CRIDER [redacted] ~~RSM~~ 12/5/04 signature [redacted]
Date 12/5/04

45

Survey unit 707030A
Grid # 05

<94 dpm

Pre Source check 343 c/m
Post Source check 393 c/m
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct #
Date 12-5-04

Inst Electra
S/N 1266
Cal Date Due 1/28/05
Eff 21.9%
LAB 6.0 c/m 30 D/M N/A
LAB TAKEN IN CENTER OF GRID
SUPERVISOR NAME J. CRIDER SIGNATURE [signature]
DATE 12/5/04 [redacted]

Survey unit 707030A

Grid # 06

<94 dpm

Pre Source check 404 clm

Post Source check 395 clm

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/4/2004

Inst Electra

S/N 4408

Cal Date Due 4/18/2004

Eff 21.9%

LAB 8 clm 40 dlm

LAB Taken in Center of Grid

J. CRIDER [redacted]

Supervisor # [signature] RSM 12/5/04 Signature [signature] [redacted]

Date 12/5/04

47

Survey unit 707030A
Grid # 07

< 94 DPM

Pre Source check 432 c/m
Post Source check 438 c/m
Post Source check for - 20% Yes ✓ No —

Name [redacted]
Rct #
Date 12.5.04

Inst Electra
S/N 1245
Cal Date Due 2.23.05
Eff 22.3%
LAB 8 c/m ~~40~~ 40 RA 12.5.04 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ QC 12/5/04 Signature J Crider [redacted]
Date 12/5/04

48

Survey unit 70703dA

Grid # 08

<94 dpm

Pre Source check 415 clm

Post Source check 463 clm

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12-4-04

Inst Electra

S/N 3128

Cal Date Due 4-25-05

Eff 21.9%

LAB 30 clm 150 dlm

LAB Taken in Center of Grid

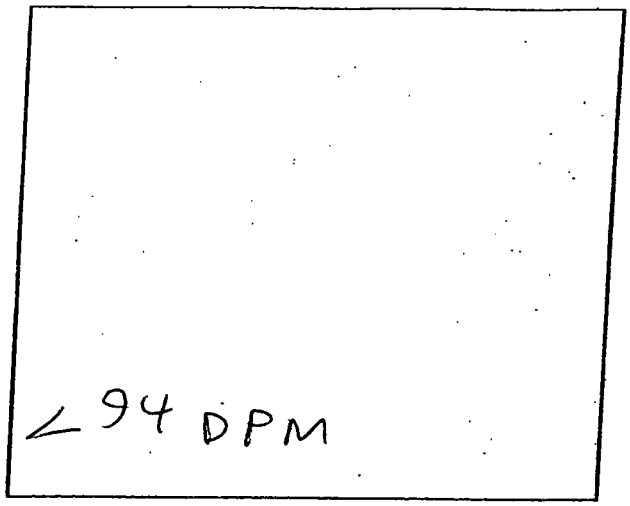
Supervisor J. CRIDER [redacted] or RSM 12/5/04 signature [redacted]

Date 12/5/04

49

Survey unit 707030A

Grid # 09



Pre Source check 409 c/m

Post Source check 416 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12-4-04

Inst Electra

S/N 4068

Cal Date Due 01-19-05

Eff .217

LAB 4.0 c/m 12.0 d/m

LAB Taken in Center of Grid

Supervisor J. CRIDER [redacted] J. Crider RSM 12/5/04 Signature J. Crider [redacted]

Date 12/5/04

50

Survey unit 7070 30A

Grid # 10

< 94 dpm

Pre Source check 343 c/m

Post Source check 379 c/m

Post Source check +or- 20% Yes X No —

NAME [redacted]

Rct #

Date 12/5/04

Inst Electra

S/N 1266

Cal Date Due 1/28/05

Eff 21.9%

LAB 8.0 c/m 40 d/m

LAB TAKEN IN CENTER OF GRID

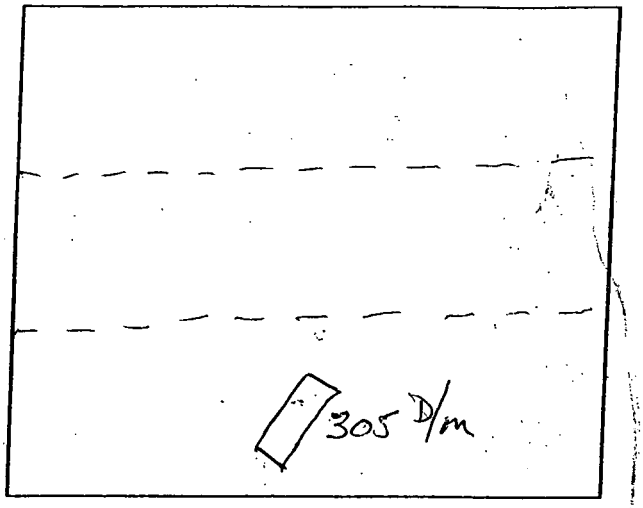
SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE [redacted]

51

Survey unit 707030A
Grid # 11

South →



Pre Source check 430 c/m
Post Source check 447 c/m
Post Source check for - 20 % Yes No

Name [redacted]
Rct #
Date 12-04-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9 D/m
LAB 5.0 c/m 25 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER [redacted] ~~RSM~~ 12/5/04 Signature [redacted]
Date 12/5/04

JE, 12-4-04

Survey Area: C	Survey Unit: 707096 30 A	Building: 707
Survey Unit/Area Description: Building 707 1st floor, J module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X Y Coord)	Survey #	RCT ID #	Inst. ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
11	1	1	1	5.0	61	N/A	N/A	N/A	N/A	12-4-04

RCT ID #		Date
1	[redacted]	12-4-04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3128	4-25-05	.219	
2				
3				
4				

Comments $\frac{61-5}{.219} = 256$ dpm

J. CRIDER
Supervisor (print)

Supervisor (signature) [redacted]

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

Survey unit 7070 30A
Grid # 12

<294 dpm

Pre Source check 415 c/m
Post Source check 451 c/m
Post Source check for - 20% Yes X No —

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 10.0 c/m ~~30.0~~ 50.0 D/m STH 12-4-04
LAB Taken in Center of Grid

Supervisor J. CRIDER
~~RSM~~ JC 12/5/04 Signature J Crider [redacted]
Date J Crider

54

Survey unit 707030

Grid # 13

<294 dpm

Pre Source check 415 cpm

Post Source check 429 cpm

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12-4-04

Inst Electra

S/N 3129

Cal Date Due 4-25-05

Eff 21.9%

LAB 9.0 cpm 450 dpm

LAB Taken in Center of Grid

Supervisor J. CRIVER [redacted] ~~RSM~~ 12/5/04 Signature [redacted]

Date 12/5/04

55

Survey unit 707030A
Grid # 14

< 94 dpm

Pre Source check 404 c/m
Post Source check 391 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct # [redacted]
Date 12/4/04

Inst Electra
S/N 4408
Cal Date Due 4/18/2004
Eff 21.9%

LAB 7 C/M 35 D/M
LAB TAKEN IN CENTER OF GRID
J. CRIDER # [redacted] or
SUPERVISOR [signature] ~~RSM~~ 12/5/04 [signature]
EMPLOYEE # [redacted] DATE 12/5/04

56

Survey unit 707030A

Grid # 15

< 94 dpm

Pre Source check 404 c/m

Post Source check 439 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/4/04

Inst Electra

S/N 4408

Cal Date Due 4/18/05

Eff 21.9%

LAB 7 c/m 35 d/m

LAB Taken in Center of Grid

J. Crider [redacted]

Supervisor J. CRIDER ~~RSM~~ 12/5/04 signature J. Crider E[redacted]

Date 12/5/04

57

Survey unit 707030A

Grid # 16

< South

<94 D/m

Pre Source check 430 c/m

Post Source check 448 c/m

Post Source check +or- 20% Yes ✓ No ___

Name [redacted]

Rct # [redacted]

Date 12-4-04

Inst Electra

S/N 3128

Cal Date Due 04/25/05

Eff 21.990

LAB 4.0 c/m 20 D/m

LAB Taken in center Grid

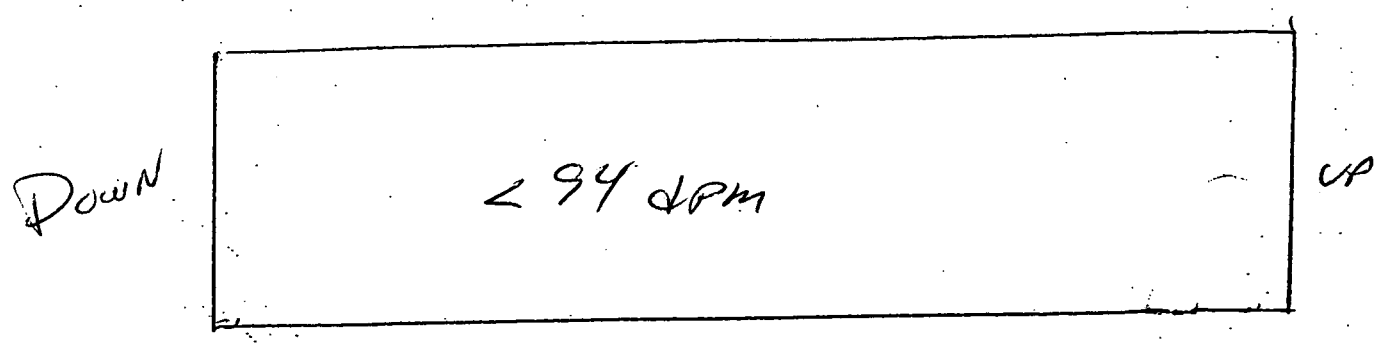
J. Crider

J. CRIDER [redacted]

~~12/5/04~~ 12/5/04

58

Survey unit 707030A
Grid # 17



Pre Source check 394 c/m
Post Source check 455 c/m
Post Source check to - 20% Yes X No —

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 3 c/m 15 d/m
LAB TAKEN IN CENTER OF GRID
SUPERVISOR J. CRIDER [signature] [signature] 12/5/04 [signature]
EMPLOYEE # [redacted] DATE 12/5/04

59

Survey unit 707030A

Grid # 18

< 94 dpm

Pre Source check 411 c/m

Post Source check 396 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct #

Date 12/5/2004

Inst Electra

S/N 4068

Cal Date Due 1/19/2005

Eff 21.7%

LAB 7.0 c/m 35 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 [redacted]

60

Survey unit 707030A
Grid # 19

<294 DPM

Pre Source check 402 c/m
Post Source check 405 c/m
Post Source check +or- 20% Yes ✓ No —

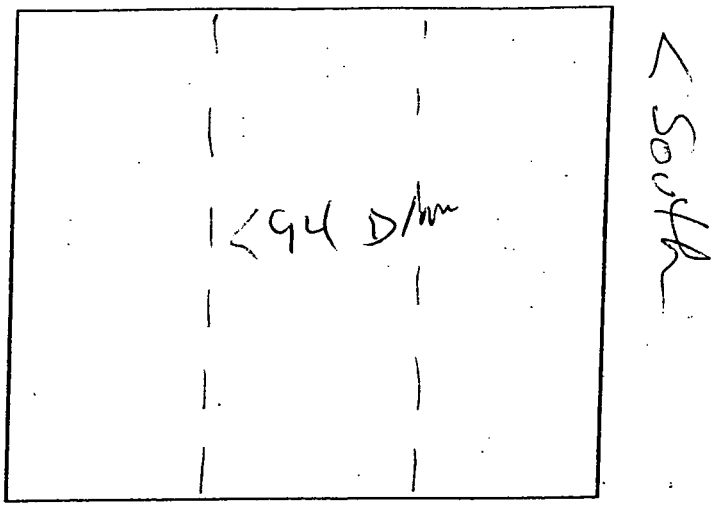
NAME [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 4068
Cal Date Due 01-19-05
Eff .217
LAB 4.0 c/m 12.0 d/m
LAB Taken in Center of Grid

Supervisor J. CRIDER [redacted] ~~RSW~~ Signature [redacted]
12/5/04
Date 12/5/04

61

Survey unit 707030A
Grid # 19



Pre Source check 430 c/m
Post Source check 440 c/m
Post Source check for - 20% Yes ✓ No —

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 4.0 c/m 20 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER [redacted] ~~KSM~~ 12/5/04 Signature [redacted]
Date 12/5/04

62

Survey unit 707030A
Grid # 20

← South

<94 D/m

Pre Source check 430 c/m
Post Source check 409 c/m
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12-04-04

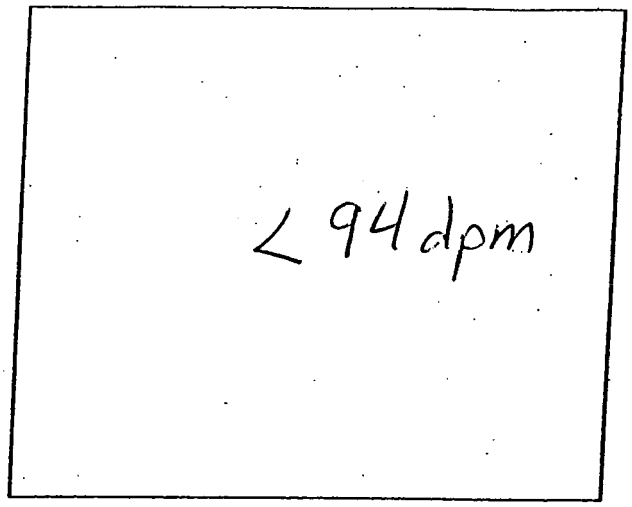
Inst Electra
S/N 3128
Cal Date Due 04/25/05
Eff 21.9%
LAB 60 c/m 30 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER [redacted] ~~RSM~~ 12/5/04 Signature [redacted]
Date 12/5/04

63

Survey unit 707030A

Grid # 21



Pre Source check 429 c/m

Post Source check 423 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12/4/2004

Inst Electra

S/N 4408

Cal Date Due 4/18/2005

Eff 21.9%

LAB 7 c/m 35 d/m

LAB Taken in Center of Grid

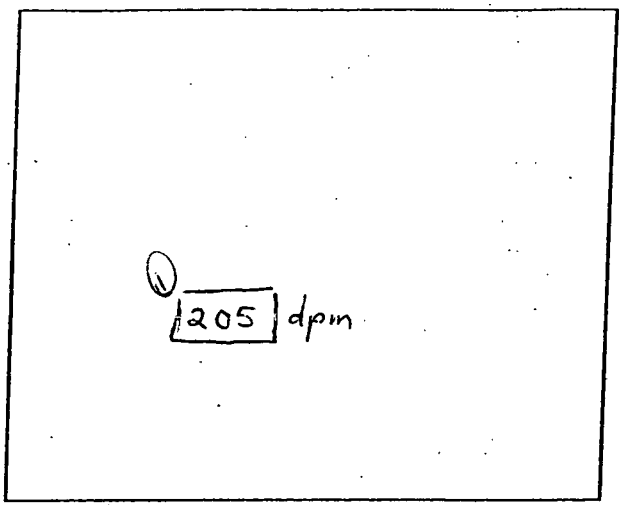
Supervisor J. CRIDER [redacted] RSM 12/5/04 signature [redacted]

Date 12/5/04

64

Survey unit 707030A

Grid # 22



Pre Source check 404 c/m

Post Source check 419 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12/4/2004

Inst Electra

S/N 4408

Cal Date Due 4/18/05

Eff 21.9%

LAB 6 c/m 30 D/m

LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ RSM 12/5/04 Signature [redacted]

Date 12/5/04

65

Survey Area:	C	Survey Unit:	707030 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor B module

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Instr Bkg (cpm)	Gross (cpm)	Comments	Date
22	1	1	1	6.0	41	N/A	N/A	N/A	N/A	12-4-04

RCT ID #					Date
1	[redacted]				12-4-04
2					
3					
4					

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4408	4-18-05	.219	N/A
2				
3				
4				

Comments

J. CRIDER
Supervisor (print)

[redacted]
Supervisor (signature)

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

66

Survey unit 707030A

Grid # 23

< 94 dpm

N. E. S. sides of Column surveyed

Pre Source check 429 c/m

Post Source check 440 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12/4/04

Inst Electra

S/N 4408

Cal Date Due 4/18/2005

Eff 21.9%

LAB 5 c/m 25 d/m

LAB TAKEN IN CENTER OF GRID

SUPERVISOR J. CRIDER 12/5/04 J. Crider

67 EMPLOYEE # [redacted] DATE 12/5/04

Survey unit 707030A

Grid # 24

<94dpm

Pre Source check 123 c/m

Post Source check 115 c/m

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12-5-04

Inst Electra

S/N 3979

Cal Date Due 2-6-05

Eff 2.4

LAB 5 c/m 25 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE [redacted]

68

Survey unit 707030A

Grid # 25

<94 d/m

Pre Source check 343 c/m

Post Source check 387 c/m

Post Source check +or- 20% Yes X No —

NAME [redacted]

Rct #

Date 12/5/4

Inst Electra

S/N 1266

Cal Date Due 1/28/05

Eff 21.9%

LAB 5.0 c/m 325 d/m

LAB Taken in Center of Grid

Supervisor J. CRIDER RSM 12/5/04 Signature [redacted]

Date 12/5/04

69

Survey unit 707030A

Grid # 26

< 94 dpm

Pre Source check 411 c/m

Post Source check 428 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct #

Date 12/5/05

Inst Electra

S/N 4068

Cal Date Due 1/19/05

Eff 21.7%

LAB 7.0 c/m 35 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOY[redacted]

70

Survey unit 707030A
Grid # 27

< 94 dpm

E. & S. sides of column surveyed

Pre Source check 429 c/m
Post Source check 394 c/m
Post Source check +or- 20% Yes ✓ No —

NAME [redacted]
Rct # [redacted]
Date 12/4/2004

Inst Electra
S/N 4408
Cal Date Due 4/18/2005
Eff 21.9%

LAB 6 c/m 30 d/m
LAB TAKEN IN CENTER OF GRID

SUPERVISOR J. CRIDER ~~[illegible]~~ 12/5/04 [signature]
EMPLOYEE # [redacted] DATE 12/5/04

71

Survey unit 707030A
Grid # 28

<294 dpm

Pre Source check 415 c/m
Post Source check 485 c/m
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 6.0 c/m 30.0 D/M
LAB TAKEN IN CENTER OF GRID
SUPERVISOR J. CRIDER ~~RSM~~ JC 12/5/04 [signature]
EMPLOYEE # [redacted] DATE 12/5/04

72

Survey unit 707030A
Grid # 29

<194 dpm

Pre Source check 516 cpm
Post Source check 579 cpm
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12/5/04

Inst Electra
S/N 3973
Cal Date Due 12/22/04
Eff 21.4%
LAB 3.0 c/m 15.0 D/m N/A
LAB TAKEN IN CENTER OF GRID
SUPERVISOR NAME: J. CRIDER SIGNATURE J Crider
DATE 12/5/04 EMPLOYEE [redacted]

73

Survey unit 707030A
Grid # 30

<94 dpm

Pre Source check ~~320~~ 400 c/m STH 12-4-04
Post Source check 426 c/m
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

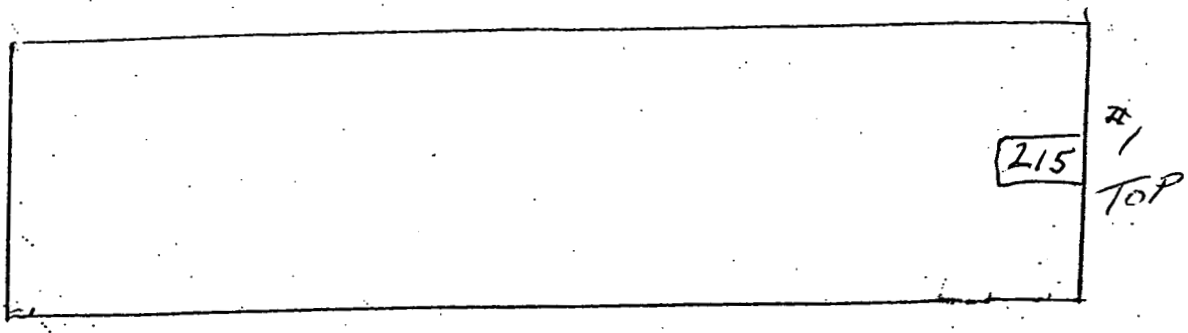
Inst Electra
S/N 1266
Cal Date Due 1-28-05
Eff 21.9%
LAB 4.0 c/m 20.0 d/m
LAB Taken in Center of Grid

Supervisor J. CRIDER RSM 12/5/04 Signature [redacted]
Date 12/5/04

74

Survey unit 7070 30A

Grid # 31



Pre Source check 343 c/m

Post Source check 396 c/m

Post Source check +or- 20% Yes X No —

#1 TSA 43.0

NAME [redacted]

Rct # [redacted]

Date 12/5/04

Inst Electra

S/N 1266

Cal Date Due 01/28/05

Eff 21.9%

LAB 5.0 c/m 25.0 d/m

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE [redacted]

75

Survey Area:	C	Survey Unit:	707030 A	Building:	707
Survey Unit/Area Description: Building 707 1st floor - B module					

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
31	1	511798	1266	5.0	43.0					

RCT ID #		Date
1	[redacted]	12/5/04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	01/28/05	21.97	
2				
3				
4				

Comments

J. CRIDER
Supervisor (print)

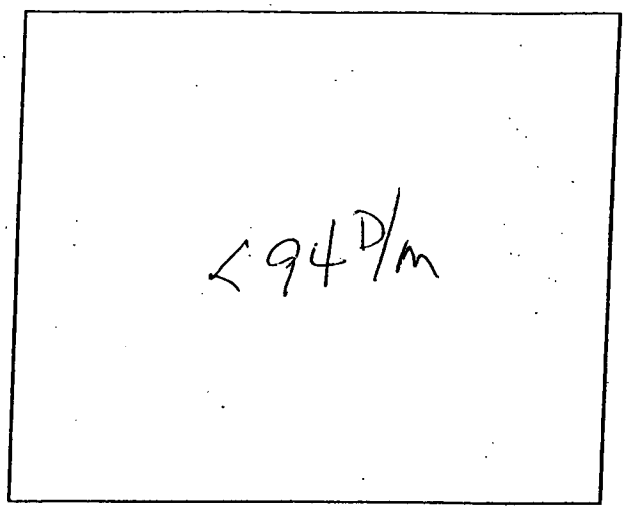
[redacted]
Supervisor (signature)

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

76

Survey unit 707030A
Grid # 32



Pre Source check 430 c/m
Post Source check 456 c/m
Post Source check for - 20% Yes ✓ No —

Name [redacted]
Rct #
Date 12-04-04

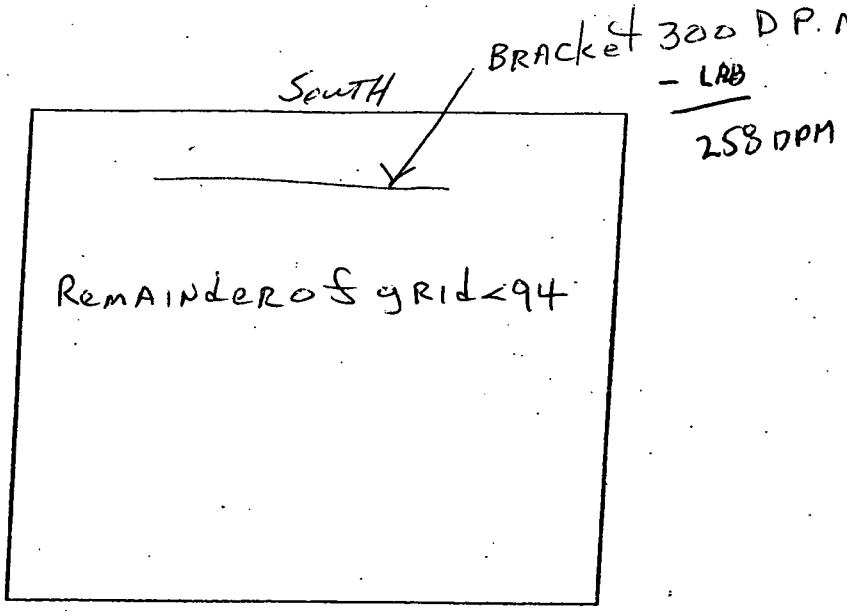
Inst Electra
S/N 3128
Cal Date Due 04-25-05
Eff 21.9%
LAB 4.0 c/m 20 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ JC 12/5/04 signature J Crider E[redacted]
Date 12/5/04

77

Survey unit 707030A

Grid # 33



Pre Source check 405 c/m

Post Source check 409 c/m

Post Source check for - 20% Yes ✓ No —

Name [redacted]

Rct #

Date 12-4-04

Inst Electra

S/N 4068

Cal Date Due 01-19-05

Eff .217

LAB 4.0 c/m 12.0 D/m

LAB Taken in Center of Grid

Supervisor J. CRIDER

~~RSM~~ Signature [signature] [redacted]

12/5/04

Date ~~12/5~~ 12/5/04

78

Survey Area:	C	Survey Unit:	707030 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor B module

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst B(γ) (cpm)	Gross (cpm)	Comments	Date
33	1	1	1	4.0	60	N/A	N/A	N/A	N/A	12-4-04
						N/A				

RCT ID #		Date
1	[redacted]	12-4-04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4068	1-19-05	.217	N/A
2				
3		N/A		
4				

Comments $\frac{60-4}{.217} = 258$ dpm

J. CRIDER
Supervisor (print)

[redacted]
Supervisor (signature)

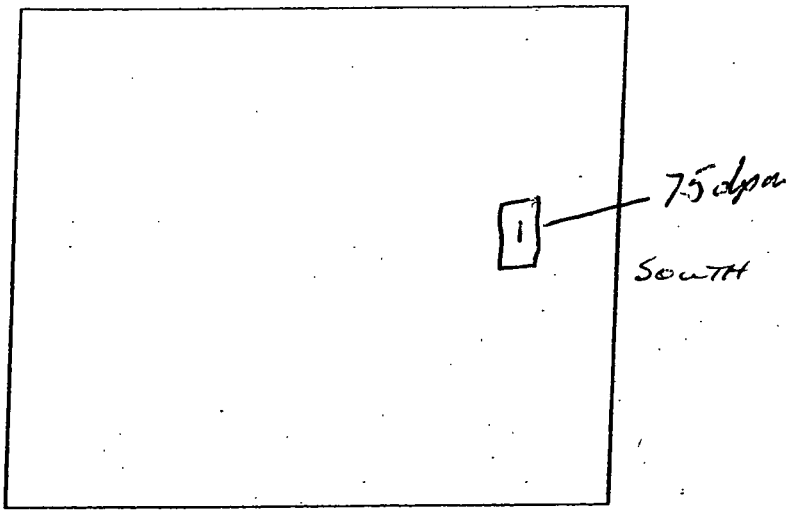
12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

Survey unit 707030A

Grid # 33

Recount After Tape Removal



Pre Source check 343 c/m

Post Source check 410 c/m

Post Source check +or- 20% Yes X No —

LAB 4.0 TSA 15dpm

NAME [redacted]

Rct # [redacted]

Date 12/5/04

Inst Electra

S/N 1266

Cal Date Due 1/28/05

Eff 21.9%

LAB 4.0 c/m 20 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE J Crider

DATE 12/5/04 EMPLOYEE [redacted]

80

Survey Area:	C	Survey Unit:	707030A	Building:	707

Survey Unit/Area Description: Building 707 1st floor - B module

0

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
33	1	511798	1266	4.0	15.0					

RCT ID #		Date
1	[redacted]	12/5/04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	1/28/05	21.92	
2				
3				
4				

Comments

J. CRIDER
Supervisor (print)

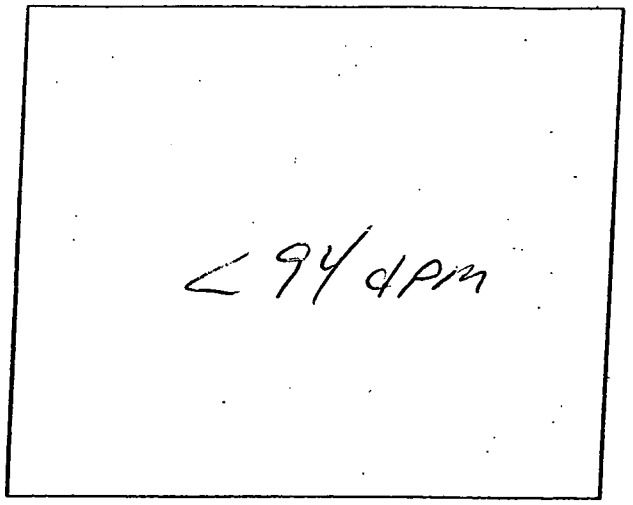
[redacted]
Supervisor (signature)

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

81

Survey unit 707030A
Grid # 34



Pre Source check 415 c/m
Post Source check 490 c/m
Post Source check for - 20% Yes X No —

Name [redacted]
Rct #
Date STA 12-4-04 ~~1-2~~ 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 3.0 c/m 15.0 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ JC 12/5/04 Signature J Crider [redacted]
Date 12/5/04

82

Survey unit 707030A
Grid # 35

< 94dpm

Pre Source check 123 c/m
Post Source check 137 c/m
Post Source check +or- 20% Yes X No —

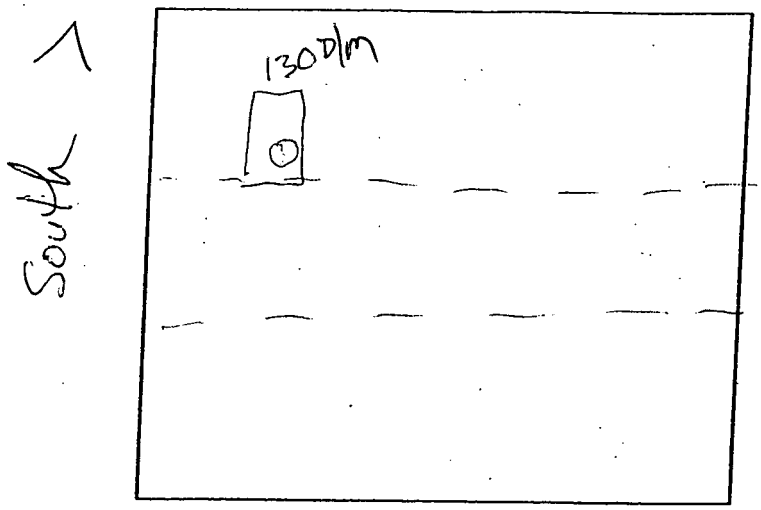
NAME [redacted]
Rct # [redacted]
Date 12-5-04

Inst Electra
S/N 3979
Cal Date Due 2-6-05
Eff 21.4

LAB 2.0 c/m 10 D/m N/A
LAB TAKEN IN CENTER OF GRID
SUPERVISOR NAME J. CRIVER SIGNATURE [signature]
DATE 12/5/04 EMPLOYEE [redacted]

83

Survey unit 707030A
Grid # 36



Pre Source check 430 c/m
Post Source check 489 c/m
Post Source check +or- 20% Yes ✓ No

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 4.0 c/m 20 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ JC 12/5/04 signature J Crider [redacted]
Date 12/5/04

84

JC 12-4-04

Survey Area:	G	Survey Unit:	707096-30A	Building:	707
Survey Unit/Area Description: Building 707 1st floor, J module					

Investigation Documentation Sheet

Grid Location (X-Y Coord)	Survey #	RCT ID #	TSA Measurements: Inst ID #	TSA Measurements: LAB (cpm)	TSA Measurements: TSA (cpm)	RSA Measurements: Net (cpm)	RSA Measurements: Inst Bkg (cpm)	Gross (cpm)	Comments	Date
36	1	1	1	4.0	26	N/A	N/A	NA	N/A	12-4-04

RCT ID #		Date
1	[redacted]	12-4-04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3128	4-25-05	.219	
2				
3				
4				

Comments

F. CRIDER
Supervisor (print)

Supervisor (signature) [redacted]

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

85

Survey unit 707030A

Grid # 37

< 94 dpm

Pre Source check 404 c/m

Post Source check 461 c/m

Post Source check +or- 20% Yes — No —

Name [redacted]

Rct # [redacted]

Date 12/4/2004

Inst Electra

S/N 4408

Cal Date Due 4/18/~~04~~ 05 RAH 12/4/04

Eff 21.9%

LAB 7.0 c/m 35 d/m

LAB Taken in Center of Grid

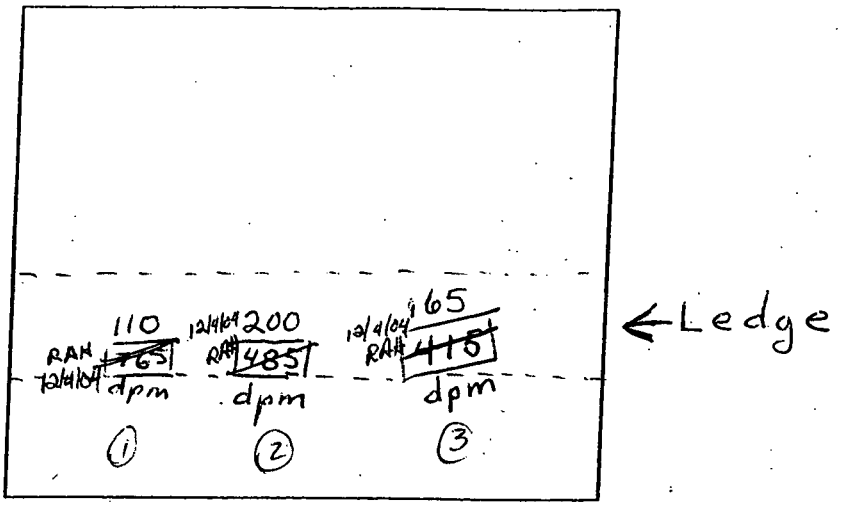
Supervisor J. CRIDER ~~RSMA~~ QA 12/5/04 signature [redacted]

Date 12/5/04

86

Survey unit 707030A

Grid # 38



Pre Source check 404 c/m

Post Source check 437 c/m

Post Source check for - 20% Yes ✓ No —

Name [redacted]

Rct #

Date 12/4/2004

Inst Electra

S/N 4408

Cal Date Due 4/18/05

Eff 21.9%

LAB 6 c/m 30 D/m

LAB Taken in Center of Grid

Supervisor J. Crider ~~RSM~~ 12/5/04 Signature [signature] [redacted]

Date 12/5/04

87

Survey Area: C	Survey Unit: 707030 A	Building: 707
Survey Unit/Area Description: Building 707 1st floor B module		0

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
38	1*	1	1	6.0	153	N/A	N/A	N/A	N/A	12-4-04
38	2*	1	1	6.0	97					12-4-04
38	3*	1	1	6.0	83					12-4-04
38	1	1	1	6.0	22					12-4-04
38	2	1	1	6.0	40					12-4-04
38	3	1	1	6.0	33					12-4-04
N/A	N/A	N/A	N/A	N/A	N/A					N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RCT ID #		Date
1	[redacted]	12-4-04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4408	4-18-05	.219	N/A
2				
3				
4				

Comments
Tape presses taken & wipe's taken on elevated areas on ledge. levels reduced & No removable found
* Data superceded by last three readings

J. CRIDER
Supervisor (print)

[redacted]
Supervisor (signature)

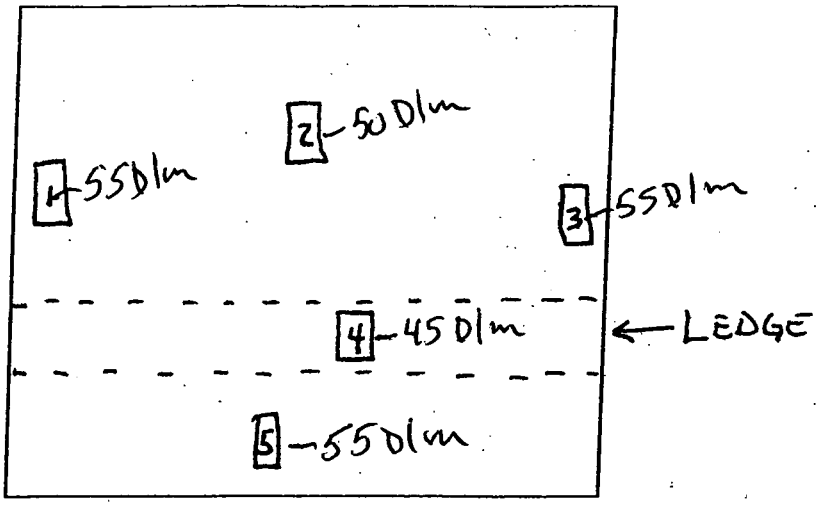
12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

88

Survey unit ~~70700~~ 707030 A RP 12/5/04

Grid # 38



Pre Source check 374 c/m

Post Source check 379 c/m

Post Source check for - 20% Yes X No —

Name [redacted]

Rct #

Date 12/05/04

Inst Electra

S/N 4398

Cal Date Due 01/29/05

Eff .210

LAB 4.0 c/m 20.0 D/m

LAB Taken in Center of Grid

Supervisor W Satt RS 12/5/04 signature [signature] E[redacted]

Date 12/5/04

89

7d 12/5/04

Survey Area: C	Survey Unit: ~~707-04~~ 707030A	Building: 707
Survey Unit/Area Description: Building 707 1st floor - 1 module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
38	1	1	1	4.0	11.0	NA				12/05/04
38	2	1	1	4.0	10.0					12/05/04
38	3	1	1	4.0	11.0					12/05/04
38	4	1	1	4.0	9.0					12/05/04
38	5	1	1	4.0	11.0					12/05/04
NA										NA
					NA				NA	NA

RCT ID #		Date
1	[redacted]	12/05/04
2		
3		
4		NA

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4398	01/29/05	.210	NA
2	NA			
3				
4				NA

Comments

Supervisor (print) Supervisor (signature) [redacted] Date 12/5/04

(PRO-475-RSP-16.01, effective 05/22/01)

90

Survey unit 707030A
Grid # 39

<94 DPM

Pre Source check 401 clm
Post Source check 397 clm
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 4068
Cal Date Due 01-19-05
Eff .217
LAB 4.0 clm 12.0 Dlm
LAB Taken in Center of Grid

Supervisor J. CRIDER RSM 12/5/04 Signature [redacted]
Date 12/5/04

91

Survey unit 707030A
Grid # 40

<94 dpm

Pre Source check 400 cpm
Post Source check 399 cpm
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 1266
Cal Date Due 1-28-04
Eff 21.9%
LAB 5 cpm 15 dpm
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ QA 12/5/04 signature [redacted]
Date 12/5/04

92

Survey unit 707030A
Grid # 41

< 94 dpm

Pre Source check 411 c/m
Post Source check 416 c/m
Post Source check +or- 20% Yes ✓ No —

Name [redacted]
Rct # [redacted]
Date 12/5/2005

Inst Electra
S/N 4068
Cal Date Due 1/19/2005
Eff 21.7%

LAB 9.0 c/m 45 D/M N/A
LAB TAKEN IN CENTER OF GRID
SUPERVISOR NAME J. CRIDER SIGNATURE [signature]
DATE 12/5/05 E[redacted]

93

Survey unit 707030A

Grid # 42

< 94 DPM

Pre Source check 432 clm

Post Source check 420 clm

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12-5-04

Inst Electra

S/N 1245

Cal Date Due 2-23-05

Eff 22.3 %

LAB 5 clm 25 Dlm

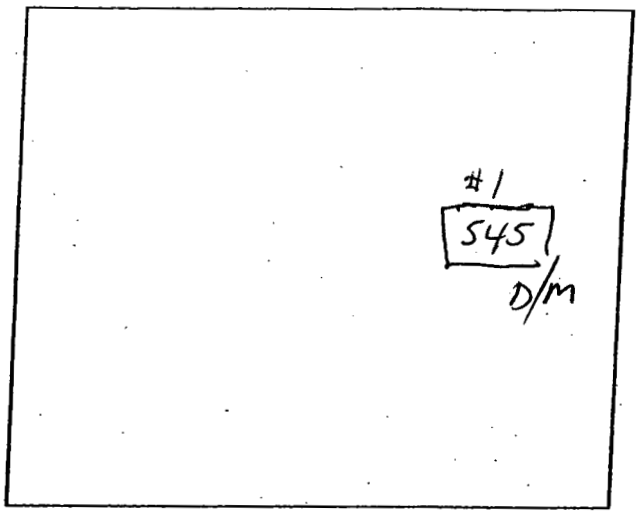
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ QC 12/5/04 signature [redacted]

Date 12/5/04

94

Survey unit 707030A
Grid # 43



N

Pre Source check 343 c/m
Post Source check 408 c/m
Post Source check +or- 20% Yes ✓ No —

#1 TSA 109.0 cpm

Name [redacted]
Rct #
Date 12/5/04

Inst Electra
S/N 1266
Cal Date Due 01/28/05
Eff 26.9%

LAB 8.0 c/m 40.0 D/M N/A
LAB TAKEN IN CENTER OF GRID
SUPERVISOR NAME J. CRIDER SIGNATURE J. Crider
DATE 12/5/04 EMPLOYEE [redacted]

95

Survey Area:	C	Survey Unit:	707030 A	Building:	707

Survey Unit/Area Description: Building 707 1st floor, B module

0

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
43	1	511794	1266	8.0	109.					

RCT ID #		Date
1	[redacted]	12/5/05
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	01/28/05	21.99.	
2				
3				
4				

Comments

J. CRIDER
Supervisor (print)

[redacted]
Supervisor (signature)

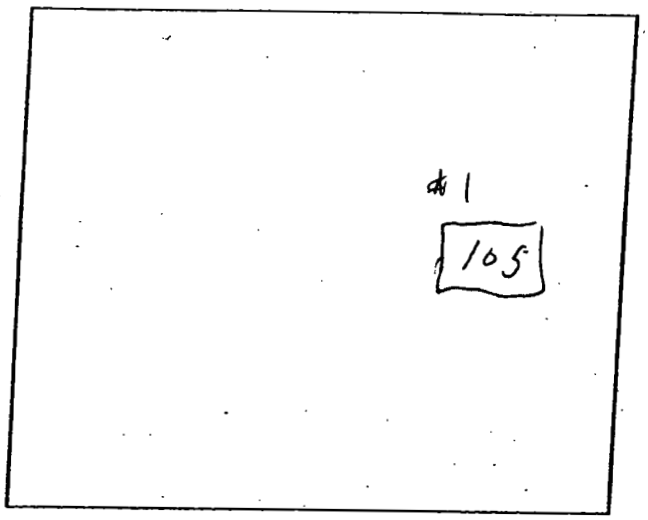
12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

96

Survey unit 707030A

Grid # #43



RECHECK AFTER TAPE PRESS

Pre Source check 343 c/m

Post Source check 403 c/m

Post Source check +or- 20% Yes X No —

#1 TSA 21.0

Name [redacted]

Rct # [redacted]

Date 12/5/05

Inst Electra

S/N 1266

Cal Date Due 1/28/05

Eff 21.97.

LAB 6.0 c/m 30.0 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE J Crider

DATE 12/5/05 EMPLO [redacted]

97

Survey Area: C	Survey Unit: 707030A	Building: 707

Survey Unit/Area Description: Building 707 1st floor 23 module 10% scan

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
43	1	1	1	6.0	21.0	NA	NA	NA	NA	12/5/04
NA	NA	NA	NA	NA	NA					NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

RCT ID #	[redacted]	Date
1		12/5/04
2		NA
3		
4		NA

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	1/28/05	.219	NA
2	NA	NA	NA	
3				
4	NA	NA	NA	NA

Comments

Recheck After Tape Removed

J. GRIDER
Supervisor (print)

[signature]
Supervisor (signature)

[redacted]

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

98

Survey unit 7070 30A
Grid # 44

<94 dpm

Pre Source check 516 c/m
Post Source check 559 c/m
Post Source check +or- 20% Yes X No —

Name [redacted]
Ref # [redacted]
Date 12/8/04

Inst Electra
S/N 3923
Cal Date Due 12/22/04
Eff 21.4%

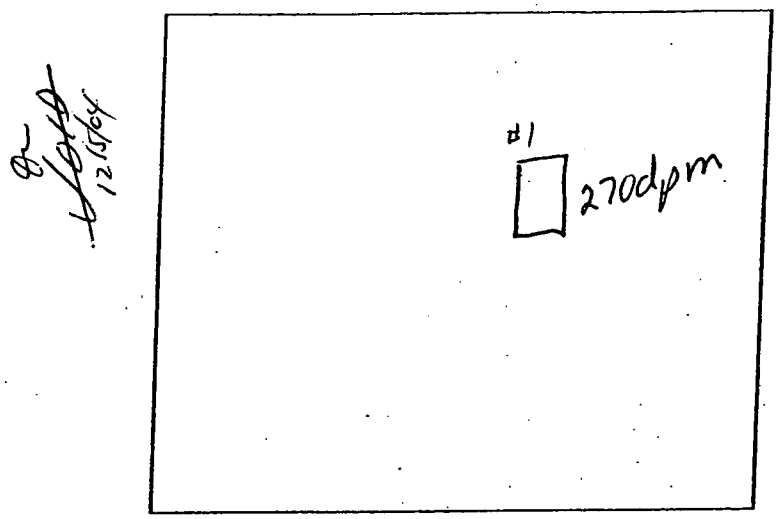
LAB 7.0 c/m 35.0 d/m
LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]
DATE 12/8/04 [redacted]

99

Survey unit 707030A

Grid # 45



Pre Source check 123 c/m

Post Source check 122 c/m

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12-05-04

Inst Electra

S/N 3979

Cal Date Due 2-6-05

Eff 21.4

LAB 1.0 c/m 5.0 d/m N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE [redacted]

100

Survey Area: C	Survey Unit: 707030 A	Building: 707
Survey Unit/Area Description: Building 707 1st floor B module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
45	1	514717	3979	1.0	54.0					

RCT ID #		Date
1	[redacted]	12/5/05
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3979	2/6/05	21.4%	
2				
3				
4				

Comments

J. CRIDER
Supervisor (print)

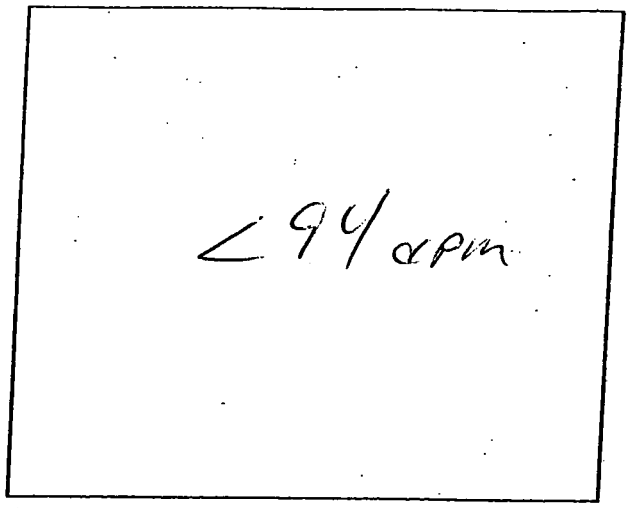
[redacted]
Supervisor (signature)

12/5/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

101

Survey unit 707030A
Grid # 46



Pre Source check 415 c/m
Post Source check 437 c/m
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9
LAB 10.0 c/m 30.0 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ Qa 12/5/04 Signature [signature] [redacted]
Date 12/5/04

102

Survey unit 707030A
Grid # 47

DOWN

<94 dpm

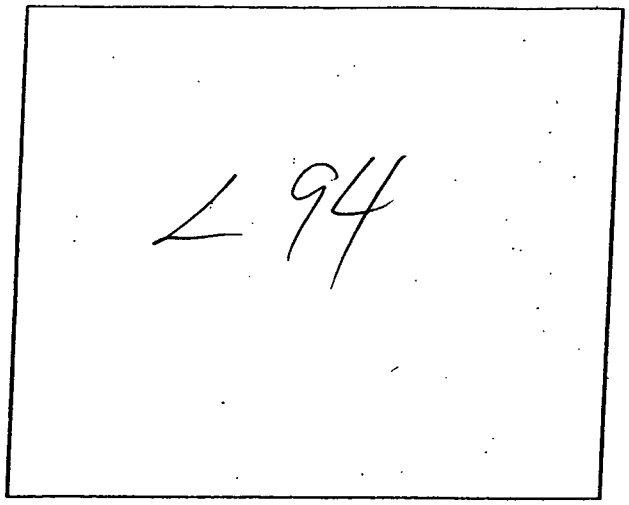
UP

Pre Source check 394 c/m
Post Source check 459 c/m
Post Source check +or- 20% Yes X No —

NAME [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 5 c/m 25 d/m
LAB TAKEN IN CENTER OF GRID
SUPERVISOR J. CALDER 12/5/04
103 EMPLOYEE # [redacted] DATE 12/5/04

Survey unit 7070030A
Grid # 48



Pre Source check 123 c/m
Post Source check 129 c/m
Post Source check for - 20% Yes X No —

Name [redacted]
Rct #
Date 12-5-04

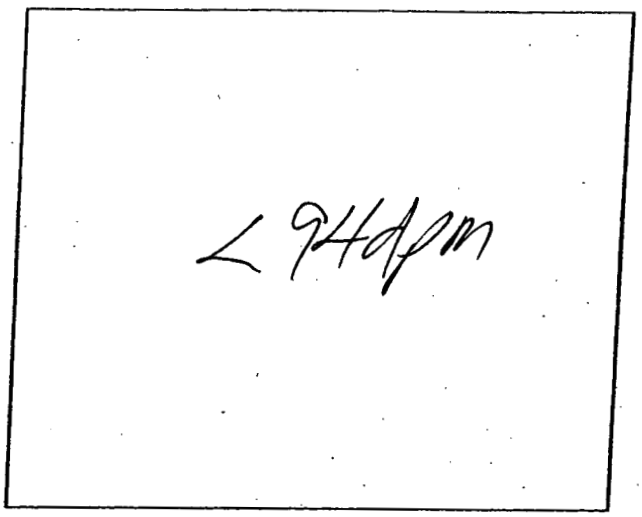
Inst Electra
S/N 3979
Cal Date Due 2-6-05
Eff 21.4
LAB 10 c/m 50 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ 12/5/04 signature [signature] [redacted]
Date 12/5/04

104

Survey unit 707030A

Grid # 49



Pre Source check 123 c/m

Post Source check 122 c/m

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12-5-04

Inst Electra

S/N 3979

Cal Date Due 2-6-05

Eff 21.4

LAB 5 c/m 25 D/m N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE J Crider

DATE 12/5/04 EMPLOYEE [redacted]

105

Survey unit 707030 A

Grid # 50

< 94 DPM

Pre Source check 432 clm

Post Source check 443 clm

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct #

Date 12·5·04

Inst Electra

S/N 1245

Cal Date Due 2·23·05

Eff 22.3%

LAB 9 Clm 45 Dlm

LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ QA 12/5/04 Signature [signature] Employee [redacted]

Date 12/5/04

106

Survey unit 707030A
Grid # 51

< 94 dpm

Pre Source check 429 c/m
Post Source check 411 c/m
Post Source check for - 20% Yes ✓ No —

Name [redacted]
Rct #
Date 12/4/04

Inst Electra
S/N 4408
Cal Date Due 4/18/04
Eff 21.9%
LAB 5 c/m 25 D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ 12/5/04 Signature [signature] Employee [redacted]
Date 12/5/04

107

Survey unit 707030A
Grid # 52

<294 dpm

Pre Source check 415 c/m
Post Source check 441 c/m
Post Source check for - 20% Yes X No

Name [redacted]
Rct #
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9% 35.0 STH 12-4-04
LAB 7.0 c/m ~~21.0~~ D/m
LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ 12/5/04 Signature [signature] Employee [redacted]
Date 12/5/04

108

Survey unit 707030A

Grid # 53

< 94 DPM

Pre Source check 432 c/m

Post Source check 393 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12-5-04

Inst Electra

S/N 1245

Cal Date Due 2-23-05

Eff 22.3%

LAB 8 cpm c/m 8 D/M 40

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE # [redacted]

189

Survey unit 707030A

Grid # 54

< 94 DPM

Pre Source check 432 c/m

Post Source check 410 c/m

Post Source check +or- 20% Yes ✓ No —

NAME [redacted]

Rct # [redacted]

Date 12-5-04

Inst Electra

S/N 1245

Cal Date Due 2-23-05

Eff 22.3%

LAB 9 CPM c/m 45 D/M N/A

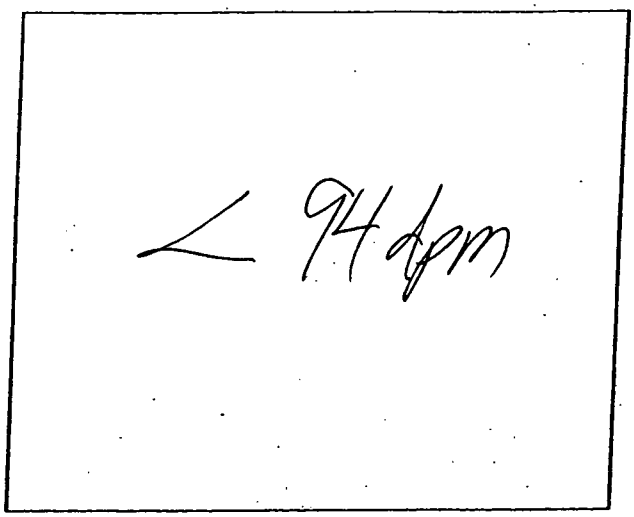
LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE # [redacted]

160

Survey unit 707030A
Grid # 55



Pre Source check 123 c/m
Post Source check 125 c/m
Post Source check +or- 20% Yes X No —

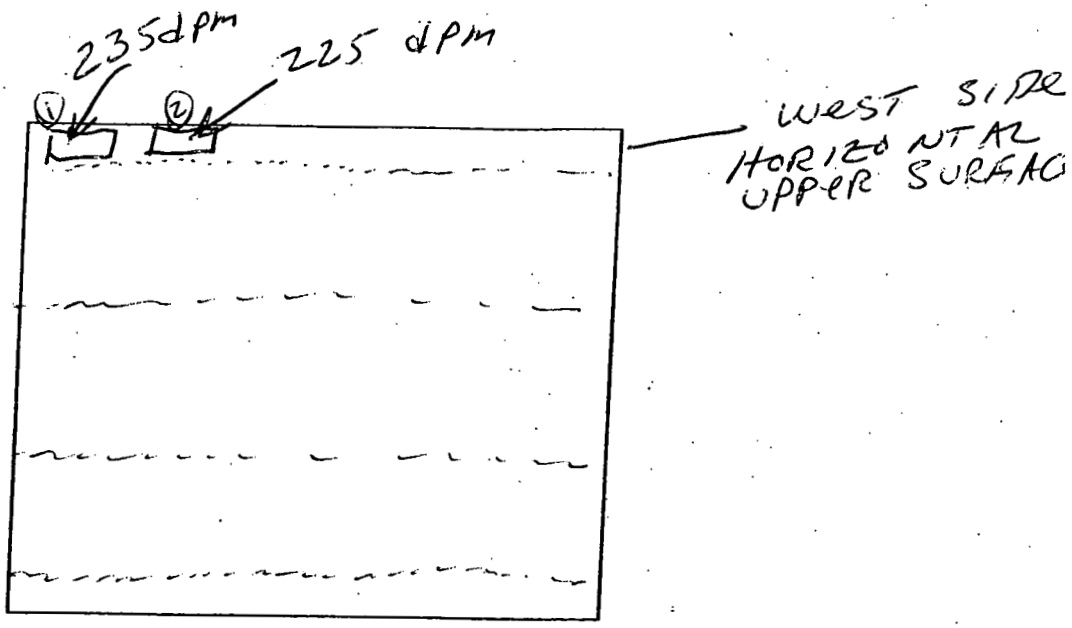
NAME [redacted]
Rct # [redacted]
Date 12-5-04

Inst Electra
S/N 3979
Cal Date Due 2-6-05
Eff 21.4
LAB 4.0 c/m 20 D/M N/A
LAB TAKEN IN CENTER OF GRID
SUPERVISOR NAME J. CRIDER SIGNATURE J Crider
DATE 12/5/04 EMPLOYEE # [redacted]

111

Survey unit 707030

Grid # 56



Pre Source check 400 clm

Post Source check 400 clm

Post Source check +or- 20% Yes X No —

Name [redacted]

Rct # [redacted]

Date 12-4-04

Inst Electra

S/N 1266

Cal Date Due 1-28-05

Eff 21.9 %

LAB 5.0 clm 25.0 dlm

LAB Taken in Center of Grid

Supervisor J. CRIDER ~~RSM~~ QA 12/5/04 signature [signature] Emp [redacted]

Date 12/5/04

112

JC, 12-4-04

Survey Area: C	Survey Unit: 707096 30A	Building: 707
Survey Unit/Area Description: Building 707 1st floor, J module		

Investigation Documentation Sheet

			TSA Measurements			RSA Measurements				
Grid Location (X-Y Coord)	Survey #	RCT ID #	Inst ID #	IAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)	Comments	Date
56	1	1	1	5.0	47	NA	—	—	N/A	12-4-04
56	2	1	1	5.0	45	NA	—	—	N/A	12-4-04
N/A										
										NA

RCT ID #		Date
1	[redacted]	12-4-04
2		
3		
4		N/A

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	1-28-05	.219	N/A
2	N/A			
3				
4				NA

Comments

NA

J. CRIDER
Supervisor (print)

[redacted]
Supervisor (signature)

12/5/04
Date

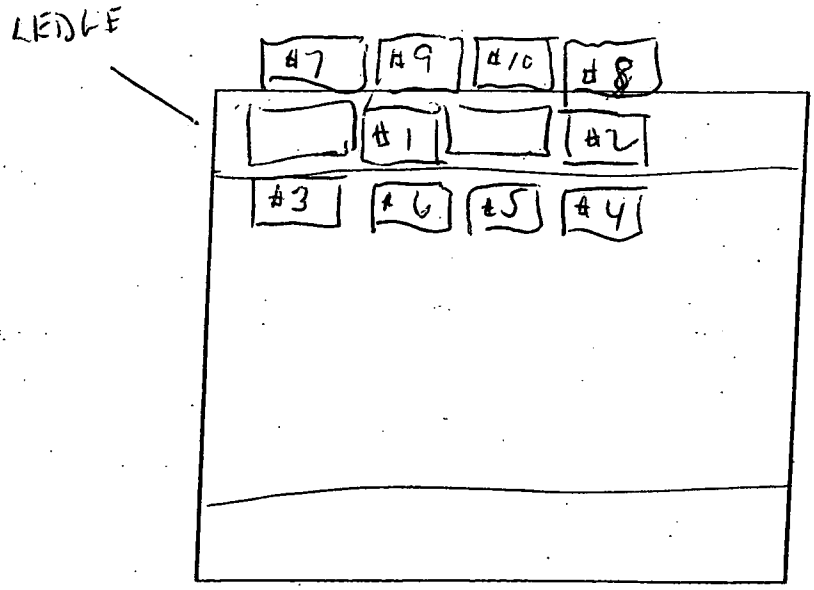
(PRO-475-RSP-16.01, effective 05/22/01)

113

Survey unit 707030 A

Grid # 56

MODULE B



N

	TSA	LAB
#9	10.0	7.0
#10	7.0	8.0

Pre Source check 424 c/m

Post Source check 364 c/m

Post Source check for - 20% Yes No

	TSA cpm	LAB cpm
#1	9.0	2.0
#2	10.0	3.0
#3	9.0	2.0
#4	8.0	8.0
#5	10.0	8.0
#6	9.0	2.0
#7	12.0	5.0
#8	10.0	5.0

Name [redacted]

Rct #

Date 12/6/05

Inst Electra

S/N 1266

Cal Date Due 1/28/05

Eff 21.9%

LAB SEE VOT c/m ____ D/m

LAB Taken in Center of Grid

Supervisor W Sutton

RS Signature [signature] 12/4/04

Employee [redacted]

Date 12/6/04

114

707030A

Survey Area:	Survey Unit:		Building: 707
Survey Unit/Area Description: Building 707 1st floor, module 10% scan			

Investigation Documentation Sheet

			ISA Measurements			RSA Measurements				
Grid Location (X,Y Coord)	Survey #	RCT ID #	Inst ID #	LAB (cpm)	PSA (cpm)	Net (cpm)	Inst BK (cpm)	Gross (cpm)	Comments	Date
56	1	1	1	2.0	9.0					12/6/04
56	2	1	1	3.0	10.0					12/6/04
56	3	1	1	2.0	9.0					12/6/04
56	4	1	1	8.0	8.0					12/6/04
56	5	1	1	8.0	10.0					12/6/04
56	6	1	1	2.0	9.0					12/6/04
56	7	1	1	5.0	12.0					12/6/04
56	8	1	1	5.0	10.0					12/6/04
56	9	1	1	7.0	10.0					12/6/04
56	10	1	1	8.0	7.0					12/6/04

RCT ID #	[redacted]	Date
1		12/6/04
2		
3		
4		

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1266	1/28/05	21.5%	
2				
3				
4				

Comments

W Sutton
Supervisor (print)

[signature]
Supervisor (signature)

[redacted]

12/6/04
Date

(PRO-475-RSP-16.01, effective 05/22/01)

115

Survey Area: C	Survey Unit: ~~707021~~ 30A	Building/Structure: B707
Survey Unit/Area Description: Building 707, 1st floor, ~~A~~ B module		

Scan Survey RCT and Instrument Sign In Sheet

[redacted]	Survey Date	Instrument Model	Inst. Serial #	Survey Type[1]	[redacted]	Block #	100% survey, Less than 300 dpm/100cm^2 (Yes or No)
	12/6/04	ELECTRA	1266	I		56	Yes

Total Surface Activity

Survey Area:		C	**Survey Unit:**		707030A		
Meter Model:		NE Electra w/ DP6 Probe				**Dates Counted:**	12/6/04
Instrument #:		1266	n/a	n/a	n/a	n/a	**A priori MDA:** 94
Cal. Due Date:		1/28/04	n/a	n/a	n/a	n/a	**Avg. Local Bkgd** 4.4
Efficiency (c/d):		0.219	n/a	n/a	n/a	n/a	
Grid 38 #	**Survey date**	**Inst. #**	**Instrument (cpm)**		**Local Bkgd (cpm)**		**(dpm/100 cm^2)**
1	12/6/04	1266	9		2.0		32
2	12/6/04	1266	10		3.0		32
3	12/6/04	1266	9		2.0		32
4	12/6/04	1266	8		8.0		0
5	12/6/04	1266	10		8.0		9
6	12/6/04	1266	9		2.0		32
7	12/6/04	1266	12		5.0		32
8	12/6/04	1266	10		5.0		23
						MIN	0
						MAX	32
						Average	24
						SD	13

117

Survey unit 707030A
Grid # 57

<94 dpm

Pre Source check 415 cpm
Post Source check 442 cpm
Post Source check +or- 20% Yes X No —

Name [redacted]
Rct # [redacted]
Date 12-4-04

Inst Electra
S/N 3128
Cal Date Due 4-25-05
Eff 21.9%
LAB 6.0 cpm 30.0 dpm
LAB Taken in Center of Grid

Supervisor J. CRIDER RSM 12/5/04 Signature J Crider Employee [redacted]
Date 12/5/04

118

Survey unit 707030A

Grid # 58

< 94 dpm

Pre Source check 411 c/m

Post Source check 466 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12/5/2004

Inst Electra

S/N 4068

Cal Date Due 1/19/05

Eff 21.7%

LAB 7.0 c/m 35 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE [redacted]

119

Survey unit 707030A

Grid # 59

< 94 DPM

Pre Source check 432 c/m

Post Source check 397 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct #

Date 12-5-04

Inst Electra

S/N 1245

Cal Date Due 2-23-05

Eff 22.3%

LAB 3 cpm c/m ~~3 DPM~~ 9c 12/5/04 15 D/M

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. GRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE [redacted]

120

Survey unit 707030A

Grid # 60

< 94 dpm

Pre Source check 411 c/m

Post Source check 417 c/m

Post Source check +or- 20% Yes ✓ No —

Name [redacted]

Rct # [redacted]

Date 12/5/2004

Inst Electra

S/N 4068

Cal Date Due 1/19/2005

Eff 21.7%

LAB 6.0 c/m 30 D/M N/A

LAB TAKEN IN CENTER OF GRID

SUPERVISOR NAME J. CRIDER SIGNATURE [signature]

DATE 12/5/04 EMPLOYEE # [redacted]

121/121