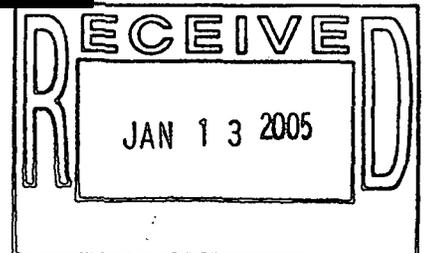


# SURVEY PACKAGE COVER SHEET

Survey Area	Survey Unit	Building/Structure	
	707065A	B707	
Survey Unit/Area Description: Building 707, 1st floor, B module			
<b>Building Information:</b>			
Survey Type: Reconnaissance Level Characterization Survey <input type="checkbox"/> Pre-Demolition Survey <input checked="" type="checkbox"/>			
Building Type: Type 1 <input type="checkbox"/> Type 2 <input type="checkbox"/> Type 3 <input checked="" type="checkbox"/>			
Classification: Class 1 <input checked="" type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> Unknown <input type="checkbox"/>			
Contaminants of Concern: Plutonium <input checked="" type="checkbox"/> Uranium <input type="checkbox"/> Other <input type="checkbox"/>			
Types of Surveys Required: Alpha <input checked="" type="checkbox"/> Beta <input type="checkbox"/> Gamma <input type="checkbox"/>			
<b>Justification for Classification:</b> Area has been decontaminated and surveyed previously, it is not expected that contamination greater than the DCGLw will exist			
<b>Special Support Requirements:</b> 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.			
<b>Special Safety Requirements:</b>			
<b>Isolation Controls:</b>		No use, storage, or movement of radioactive material, with the exception of instrument check sources, is permitted in this survey unit.	
LEVEL 1 <input type="checkbox"/> LEVEL 2 <input checked="" type="checkbox"/> N/A <input type="checkbox"/>			
Comments: Verification survey. Random sampling to cover 10% of the survey unit.			
<b>Labeling Requirements:</b> 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 equivalent.			
<b>Survey Package Implementation:</b>			
			12-1-2003 <sup>4</sup> Jan
			12-1-04
			Date
Comments: Source checks documented on the sheets attached to the investigations are operability checks performed with the source attached to each instrument. These checks are documented to demonstrate that cold ( below freezing) conditions in B707 did not affect the instruments adversely during the course of work.			
<b>Survey Package Closure:</b>			
			12-4-2004
			12/6/04
			12/6/04

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



B707-A-000165

1/51

# SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM

Survey Area: C	Survey Unit: 707065A	Building/Structure: B	E: 707
Survey Unit/Area Description: Building 707 1st floor B module			
Minimum Survey/Sampling Measurement Requirements			
Measurement	Number and Type	Comments	
Surface Activity Measurements	<b>TOTAL SURFACE CONTAMINATION</b> Any location identified by scanning that exceeds 300 dpm/100cm <sup>2</sup>	60-second count time required	
RE Verification	Grube Print Name: [Redacted]	[Signature]	Date: 12/5/04
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	Grube Print Name: [Redacted]	[Signature]	Date: 12/5/04
Media Samples	N/A		
RE Verification	Grube Print Name: [Redacted]	[Signature]	Date: 12/5/04

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

**SURVEY PACKAGE SURVEY/SAMPLING INSTRUCTION FORM (cont)**

Survey Area	C	Survey Unit	767035A	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<sub>w</sub>. 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)

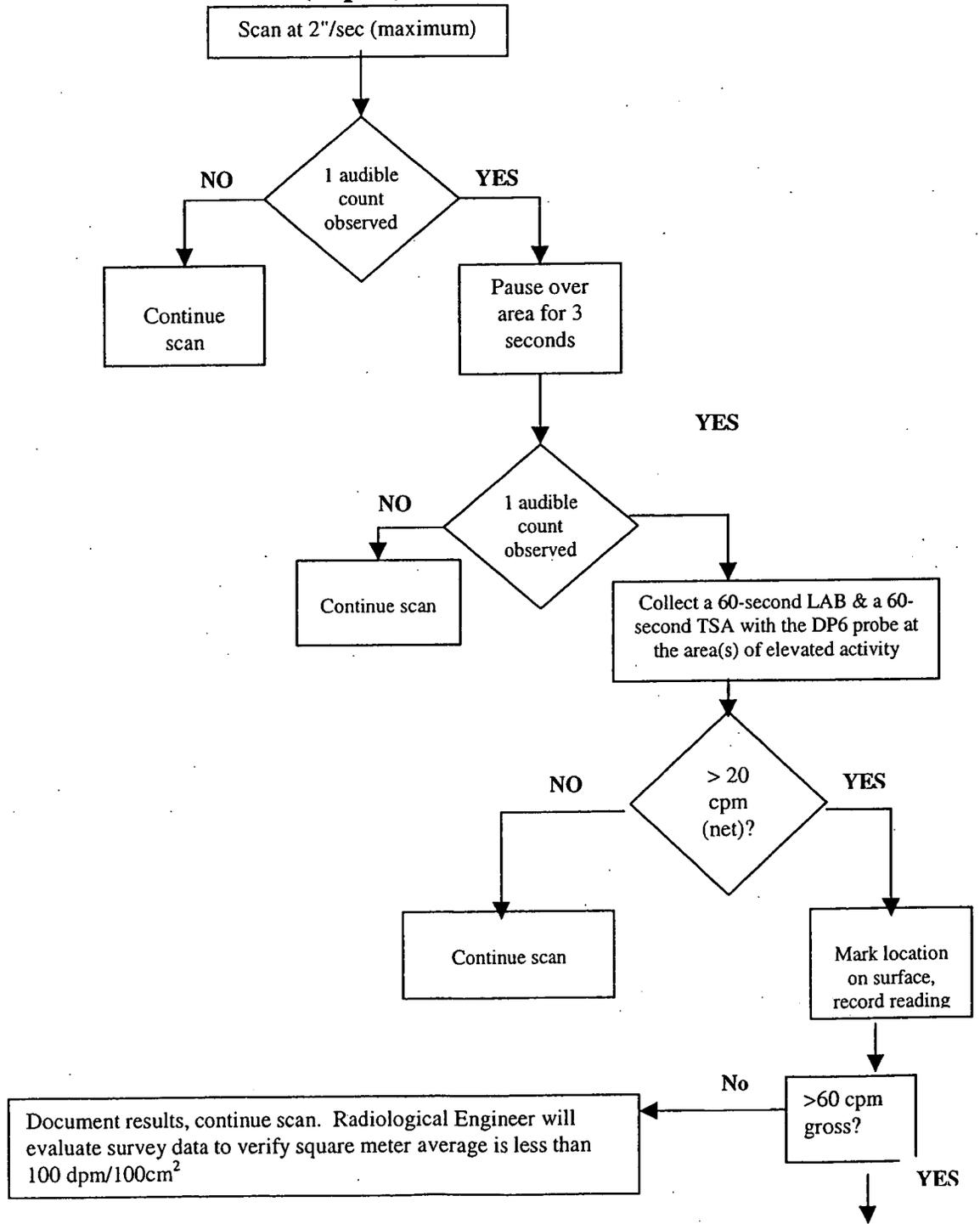
**Note:** Ensure that a 60 second count time is utilized when determining the MDC of the NE Electra.

- ◆ **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.



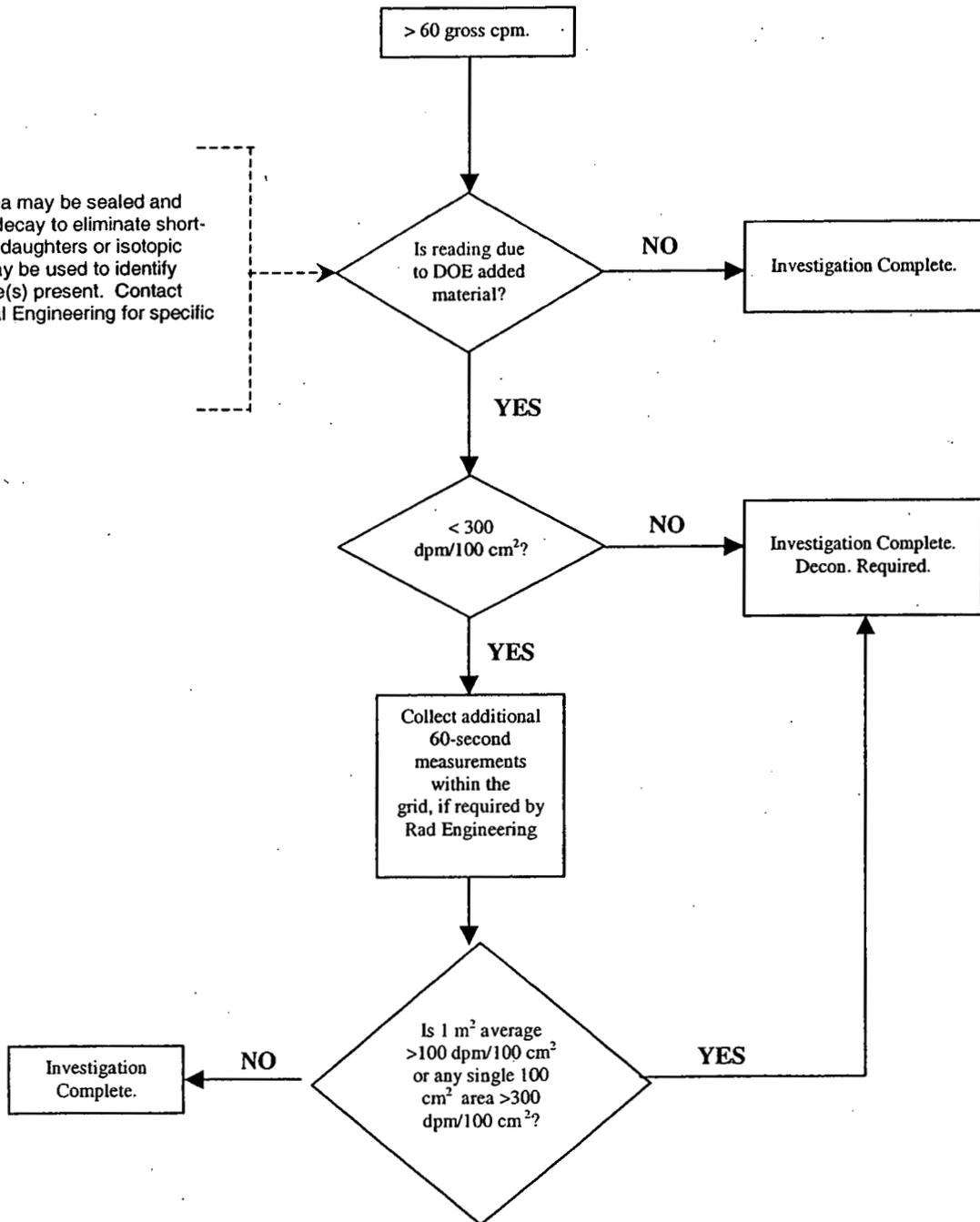
SCAN AND INVESTIGATION METHODS WITH SELECTED INSTRUMENTS

Scan Method with DP6 (example)  
(Alpha)



### Investigation Method with DP6 (verify no areas $>300$ dpm/100cm<sup>2</sup>) (Alpha)

NOTE: Area may be sealed and allowed to decay to eliminate short-lived radon daughters or isotopic analysis may be used to identify radionuclide(s) present. Contact Radiological Engineering for specific guidance.

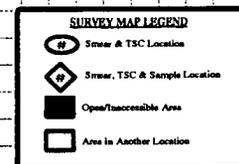
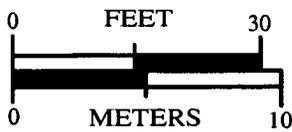
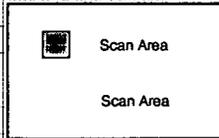
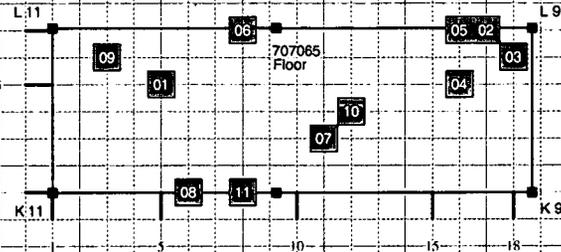


# RADIOLOGICAL CLOSEOUT SURVEY FOR THE 707 CLUSTER

Survey Area: C      Survey Unit: 707065A      Classification: 1  
Building: 707  
Survey Unit Description: First floor (E module)

Total Floor Area: 108 sq. m      Total Area: 108 sq. m      Block Size: 1 x 1 sq.m

## SURVEY UNIT 707065A - MAP 1 OF 1



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707065  
Random Scan Set

Location	Page	X-Coordinate	Y-Coordinate	Location	Page	X-Coordinate	Y-Coordinate
# 1	1	5	5	NA	1	14	7
#2	1	17	7	NA	1	12	2
#3	1	18	6	NA	1	8	2
#4	1	16	5	NA	1	10	5
#5	1	16	7	NA	1	7	3
#6	1	8	7	NA	1	2	5
#7	1	11	3	NA	1	4	5
#8	1	6	1	NA	1	1	5
#9	1	3	6	NA	1	2	6
#10	1	12	4	NA	1	12	6
#11	1	8	1	NA	1	2	6
#12	1	4	2	NA	1	18	3
#13	1	13	7	NA	1	8	6
#14	1	14	6	NA	1	17	4
#15	1	2	7	NA	1	1	3
#16	1	17	1	NA	1	8	3
NA	1	1	6	NA	1	2	4
#17	1	15	3	NA	1	3	1
#18	1	5	6	NA	1	3	4
#19	1	10	3	NA	1	14	5
#20	1	15	4	NA	1	5	7
#21	1	10	4	NA	1	10	5
#22	1	11	1	NA	1	5	3
NA	1	4	7	NA	1	11	7
NA	1	18	6	NA	1	6	3
NA	1	8	5	NA	1	18	7
NA	1	6	5	NA	1	13	2
NA	1	14	2	NA	1	10	5
NA	1	1	1	NA	1	17	3
NA	1	8	4	NA	1	6	7
NA	1	11	7	NA	1	7	3
NA	1	13	6	NA	1	4	3
NA	1	2	2	NA	1	17	5
NA	1	6	5	NA	1	10	2
NA	1	9	2	NA	1	12	3
NA	1	10	1	NA	1	9	1
NA	1	12	2	NA	1	17	4
NA	1	5	6	NA	1	8	2
NA	1	8	1	NA	1	4	3
NA	1	9	6	NA	1	3	7
NA	1	8	2	NA	1	9	7
NA	1	13	6	NA	1	4	2
NA	1	4	5	NA	1	6	6
NA	1	8	5	NA	1	18	4
NA	1	18	1	NA	1	16	3

LEGEND:

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

REVIEWED BY SIGNATURE  


12/6/04

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01 ^4

(Alpha only)

Alpha beta

INST. TYPE/SERIAL #: ELECTRA/ 3120 CAL. DUE DATE: 2/17/05 INSTRUMENT EFFICIENCY: .207 / N/A

PROBE S/N: 1933 BLDG. 70 (Range, 2564 / 3471)

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		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)	
1600 12/1/04 2250 12-1-04				Alpha	1.0	3111		
		Y	Y	Beta	N/A	N/A	N/A	
				Alpha	5.0	3143		
		YES	YES	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	

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 2707 Certification/Decay Chart Date: N/A  
 (Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2564 3471

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

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

Approved by: [Signature]  
 RS Supervision: [Signature]  
 Name (print) [Redacted] Signature [Redacted] Date 12/1/04

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

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.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01

(Alpha only)

Alpha beta

INST. TYPE/SERIAL #: ELECTRA/ 2166 CAL. DUE DATE: 01/22/05 INSTRUMENT EFFICIENCY: 21.3% / N/A  
 PROBE S/N: 1461 BLDG: 70 (Range, 2639 / 3570)

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	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)
1200 12/1/04 2230 12-1-04	yes	yes	Alpha	5.0	3132	N/A
			Beta	N/A	N/A	
	yes	yes	Alpha	7.0	3,075	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	
			Alpha			N/A
			Beta	N/A	N/A	
			Alpha			N/A
			Beta	N/A	N/A	
			Alpha			N/A
			Beta	N/A	N/A	

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 75 2707 Certification/Decay Chart Date: N/A  
 (Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2639-3105-3570

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

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

Approved by: [Signature]  
 RS Supervision: [Signature]  
 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

(Alpha only)

Alpha beta

INST. TYPE/SERIAL #: ELECTRA/ 4176 CAL. DUE DATE: 1/16/05 INSTRUMENT EFFICIENCY: 22.3% / N/A

PROBE S/N: 2106 BLDG. 70 (Range, 2763 / 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	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)
1630 12/1/04	Yes	Yes	Alpha	3.0	3240	N/A
2230 12-1-04			Beta	N/A	N/A	
	Yes	Yes	Alpha	5.0	3181	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

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2707 Certification/Decay Chart Date: N/A  
 (Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2763 - 3738

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

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

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

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

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

(Alpha only)

Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 4398 CAL. DUE DATE: 1/29/05 INSTRUMENT EFFICIENCY: 210 / N/A

PROBE S/N: 2185 BLDG. 707 (Range, 2602, 3520)

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

TIME/DATE	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)
1600 12-1-04	yes	yes	Alpha	4.0	3290	N/A
2230 12-1-04	yes	yes	Beta	N/A	N/A	N/A
			Alpha	5.0	3236	N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): TS 2707 Certification/Decay Chart Date: N/A  
 (Circle One) (Circle One)

Source (dpm): 14,578 Range (cpm) ± 15%: 2602/3520

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

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

Approved by: \_\_\_\_\_  
 RS Supervision: [Signature] \_\_\_\_\_  
 Name (print) \_\_\_\_\_ Signature \_\_\_\_\_ Date 12/1/04

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

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.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01

(Alpha only)

Alpha beta

INST. TYPE/SERIAL #: ELECTRA / 3977 CAL. DUE DATE: 01-31-05 INSTRUMENT EFFICIENCY: 21.3901 N/A

PROBE S/N: 2097 BLDG. 707 (Range, 2640 / 3570)

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

Table with columns: TIME/DATE, IN CAL (Yes/No), BATT SAT (Yes/No), COUNT TYPE (Alpha/Beta), BKG (cpm), INSTRUMENT READING (Net cpm), FLUSH/RE-CHARGE (N/A if not gas prop. det.) (Initials). Includes handwritten entries for 1600 and 2230 on 12-1-04.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

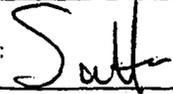
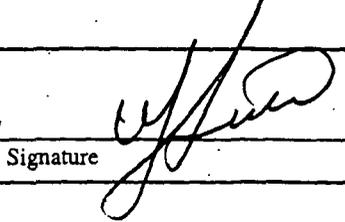
RSFORMS-02.01-04

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%: 2640 / 3570

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

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

Approved by: RS Supervision:			<u>12/1/04</u>
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.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01

(Alpha only)

Alpha Beta

INST. TYPE/SERIAL #: ELECTRA / 4408 CAL. DUE DATE: 4/18/05 INSTRUMENT EFFICIENCY: .218 / N/A

PROBE S/N: 2154 BLDG. 70 (Range, 2701 / 3654)

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

TIME/ DATE	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)
1600 12/1/04	Y	Y	Alpha	6.0	3231	N/A
			Beta	N/A	N/A	
2230 12-1-04	yes	yes	Alpha	3.0	3187	N/A
			Beta	N/A	N/A	
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A

22

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 2707 Certification/Decay Chart Date: N/A  
 (Circle One) (Circle One)

Source (dpm): 14578 Range (cpm) ± 15%: 2701 3654

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: [Signature]  
 RS Supervision: [Signature]  
 Name (print) [Signature] Signature [Signature] Date 12/1/04

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

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.

PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01

(Alpha only)

Alpha beta

INST. TYPE/SERIAL #: ELECTRA / 1266 CAL. DUE DATE: 1-28-05 INSTRUMENT EFFICIENCY: 21.9% / N/A

PROBE S/N: 1026 BLDG. 707 (Range, 2714, 3471)

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

TIME/DATE	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)
1600			Alpha	2.0	3095	
12-1-04	y	y	Beta	N/A	N/A	N/A
2230			Alpha	5.0	3173.	
12-1-00	YES	YES	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

20  
17

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

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

Approved by: [Signature]  
RS Supervision: [Signature]  
Name (print) [Redacted] Signature [Redacted] Date 12/1/04

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

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.

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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01

(Alpha only)

Alpha      beta

INST. TYPE/SERIAL #: ELECTRA / 1245      CAL. DUE DATE: 2/23/05      INSTRUMENT EFFICIENCY: 22.3% / N/A

PROBE S/N: 6101      BLDG. 70      (Range, 2763 / 3757)

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

TIME/DATE	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)
1600 12/1/04	yes	yes	Alpha	1.0	3329	N/A
2230 12/1/04	y	y	Beta	N/A	N/A	N/A
			Alpha	6.0	3259	N/A
			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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PORTABLE SCALER CONTAMINATION INSTRUMENT PERFORMANCE TEST LOG

RSFORMS-02.01-04

SOURCE ISOTOPE (Alpha): PU-239 (CSL)/(S/N)/(Registry No.): 752707 Certification/Decay Chart Date: N/A

Source (dpm): 14578 Range (cpm) ± 15%: 2763-3250-3737

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

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

Approved by: [Signature] RS Supervision: [Signature] Name (print): [Redacted] Signature: [Redacted] Date: 12/1/04

% Error = ((Net cpm + eff) - Source dpm) / Source dpm \* (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)

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, Bicon Frisk-Tech, Portable instruments with gas proportional detector. Instruments that require additional repair or service should be returned to Instrumentation Repair Facility.

TIME/DATE	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)
12-5-04 0745	YES	YES	Alpha	3.0	2794	N/A
			Beta	N/A	N/A	
1020 12-5-04	YES	YES	Alpha	3.0	2737	N/A
			Beta	N/A	N/A	
2130 12/5/04	Y	Y	Alpha	4.0	2,748.	N/A
			Beta	N/A	N/A	
N/A			Alpha			N/A
			Beta	N/A	N/A	
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A
			Alpha			N/A
			Beta	N/A	N/A	N/A

22

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 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) (Circle One)

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

Approved by: [Signature]  
RS Supervision: [Signature]  
Name (print) [Redacted] Signature [Redacted] 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.

Survey unit 70706SA

Grid # 1

All < 94 DPM

Pre Source check 258 c/m

Post Source check 280 c/m

Post Source check for - 20% Yes No  
✓ -

Name 

Rct #

Date 12-1-04

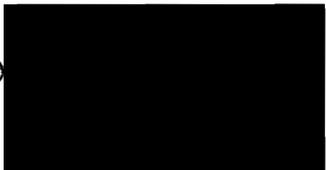
Inst Electra

S/N 3977

Cal Date Due 1-31-05

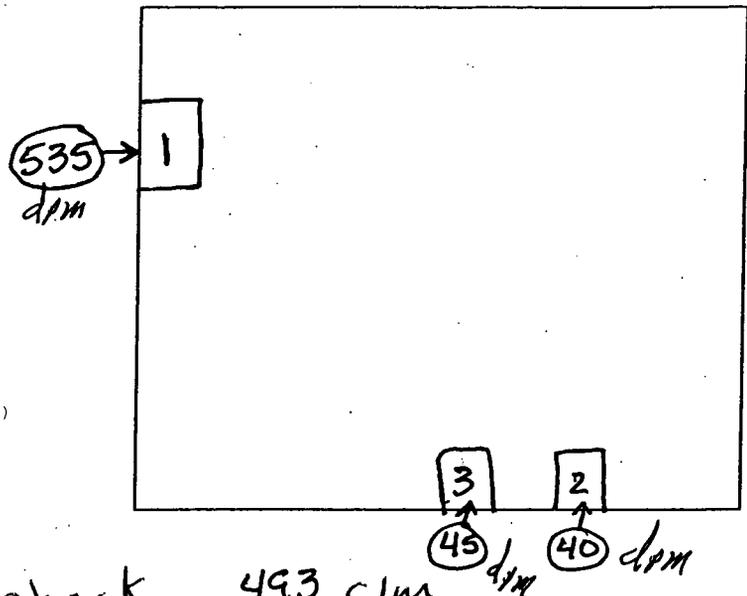
Eff .213

LAB 2.0 CPM 10 dpm

Reviewed by Sutton 

Survey unit 707065A

Grid # 2



Pre Source check 493 c/m  
 Post Source check 527 c/m  
 Post Source check for - 20% 

Yes	No
X	-

Name 

Rct #

Date 12/1/04

Inst Electra

S/N 4176

Cal Date Due 1/16/05

L.A.B. 15%<sup>m</sup>

Eff. .223

Reviewed by Subbu 

M. W. 12-3-04

Survey Area: C Survey Unit: 707065 A Building: 707

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

Investigation Documentation Sheet

Grid Location (X,Y Coord)	Survey #	RCT ID #	TSA Measurements			RSA Measurements			Comments	Date
			Inst ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)	Gross (cpm)		
2	1	1	1	3.0	107	N/A	N/A	N/A	N/A	12-1-04
2	2	1	1	3.0	8	N/A	N/A	N/A	N/A	12-1-04
2	3	1	1	3.0	9	N/A	N/A	N/A	N/A	12-1-04
N/A										

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

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4176	1-16-05	.223	
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

Comments: Resurveyed point # 1 24 hr. later Results SAME. This area will be reconned

Supervisor (print) Sutton

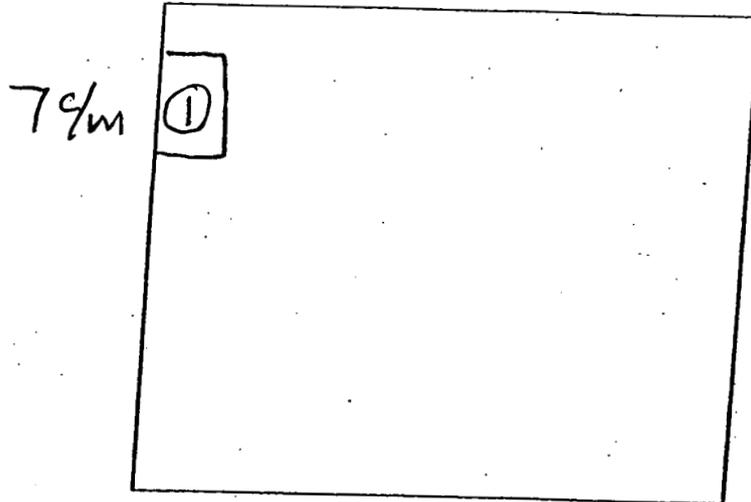
Supervisor (signature) [Signature]

Date 12/2/04

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

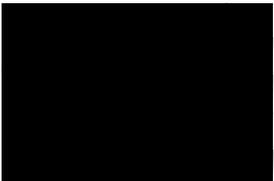
Survey unit 707065A E-MOD  
Grid # 2 FLOOR

Remediated



Pre Source check 123 c/m  
Post Source check 132 c/m  
Post Source check for - 20%  Yes  No

NAME



Rct #

Date 12/5/04

Inst Electra

S/N 3979

Cal Date Due 2/6/05

ESS .214

LAB 43 c/m 215 d/m  
off 12/5/04 20 off 12/5/04

LAB TAKEN in center of Grid

Supervisor Suff

RS off 12/4/04 signature [Signature]

EMP



Date 12/5/04

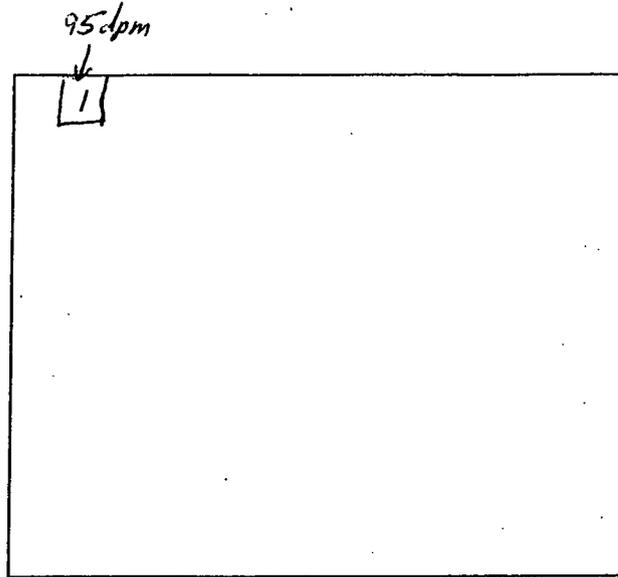
REMED. & RECOUNTED

SURVEYED IMMED.  
SURROUNDING AREA  
After Decon 294 d/m



Survey unit 707045A

Grid # 3

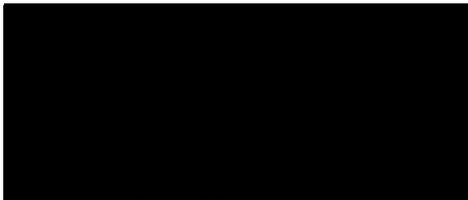


Pre Source check 493 clm

Post Source check 476 clm

Post Source check for - 20%  Yes  No

Name  
Rct #



Date 12-1-04

Inst Electra

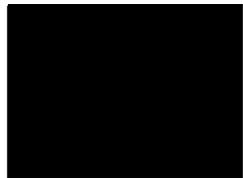
S/N 4176

Cal Date Due 1/16/05

Eff 22.3%

LAB 3.0cpm 15dpm

Reviewed by *Seth Yaffa*



M.W. 12-3-04

Survey Area: C	Survey Unit: 707065 A	Building: 707
Survey Unit/Area Description: Building 707 1st floor E module		

### Investigation Documentation Sheet

Grid Location (X,Y Coord)	Survey #	RCT ID #	TSA Measurements			RSA Measurements		Gross (cpm)	Comments	Date
			Inst. ID #	LAB (cpm)	TSA (cpm)	Net (cpm)	Inst Bkg (cpm)			
3	1	512999	4176	3.0	19.0	N/A	N/A	N/A		12/01/04
<del>N A</del>										
<del>WA</del>										

RCT ID #	Date
1	12/01/04
2	
3	
4	

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	4176	1-16-05	.223	
2				
3				
4				

Comments

Supervisor (print) Sutto     
 Supervisor (signature) [Signature]     
 Date 12/2/04

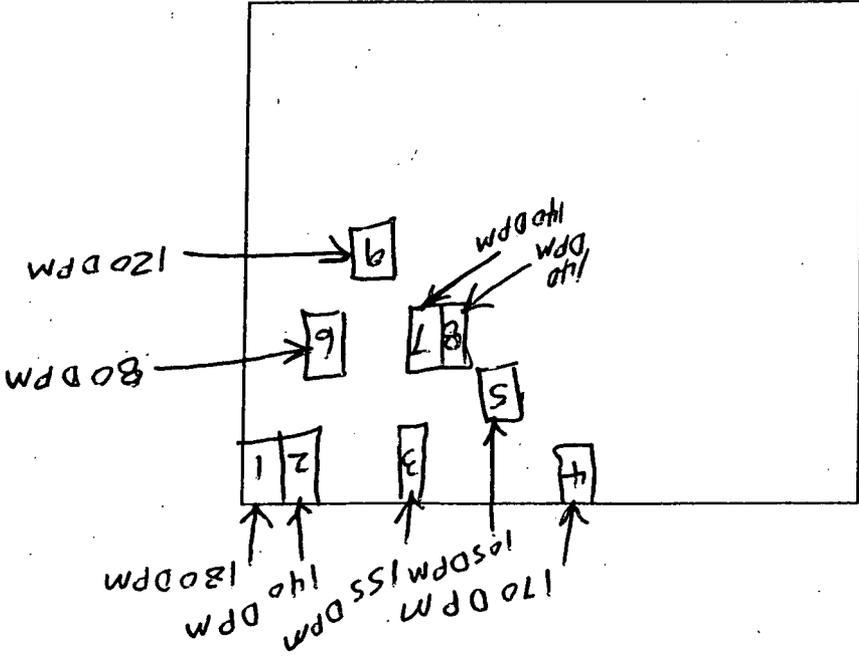
(PRO-475-RSP-16.01, effective 05/22/01)

Reviewed by *Suth [Signature]*

Name [Redacted]  
 Pct # [Redacted]  
 Date 12-1-04  
 Trust Electra  
 S/N 3977  
 Cal Date Due 1-31-05  
 Eff .213  
 LAB 2.0 cpm  
 10 dpm

Follow-up surveys to  
 be performed to verify  
 the square meter average  
 is less than 100 dpm/100cm<sup>2</sup>  
 P.M. 12-2-2004

Pre Source check 268 c/m  
 Post Source check 273 c/m  
 Post Source check for - 20%  
 yes  No



Survey unit 707065A  
 Grid # 4

MA. 12-3-04

Survey/Area: C		Survey Unit: 707065A		Building: 707						
Survey Unit/Area Description: Building 707, 1st floor, E 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
4	1	1	1	2.0	36.0	N/A	N/A	N/A	N/A	12-1-04
4	2	1	1	2.0	28.0					12-1-04
4	3	1	1	2.0	31.0					12-1-04
4	4	1	1	2.0	21.0	34.0				12-1-04
4	5	1	1	2.0	34.0	21.0				12-1-04
4	6	1	1	2.0	16.0					12-1-04
4	7	1	1	2.0	28.0					12-1-04
4	8	1	1	2.0	28.0					12-1-04
4	9	1	1	2.0	24.0	N/A	N/A	N/A	N/A	12-1-04
A										

RCT ID #	Date
1	12-1-04
2	
3	
4	

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	3917	1-31-05	213	
2				
3				
4				

Comments:  $\frac{36-2}{.213} = 160 \text{ dpm}$ , see Follow-up survey dated 12-3-04.

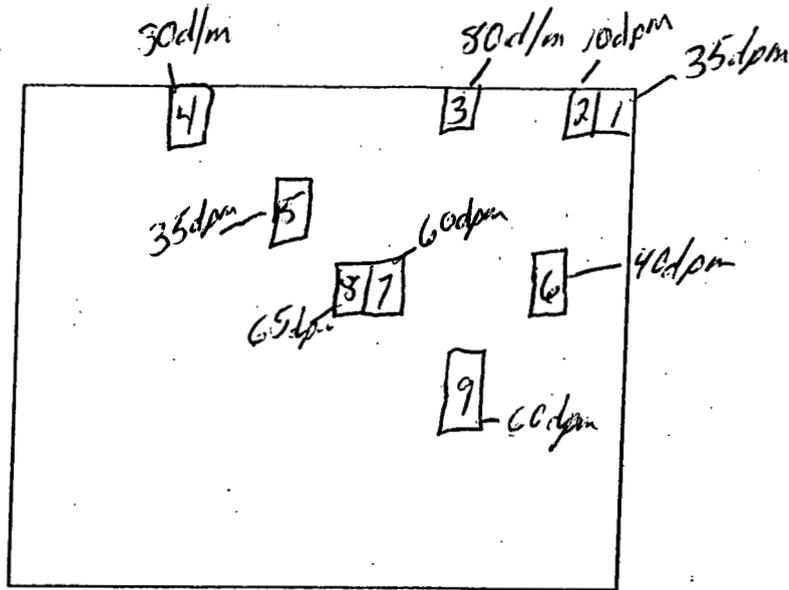
Supervisor (print): Sader

Supervisor (signature): [Signature]

Date: 12-2-04

Survey unit 707065A

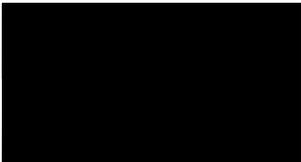
Grid # 4



Pre Source check 447 c/m

Post Source check 444 c/m

Post Source check tol - 20%  Yes  No

NAME   
Rct #

Date 12/3/04

Inst Electra

S/N 1269

Cal Date Due 3-2-05

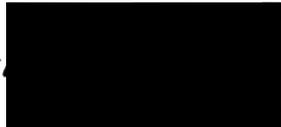
Eff 22.2%

LAB 2.0 c/m

LAB Cpm	TSA Cpm
1 2.0	7.0
2 3.0	2.0
3 4.0	16.0
4 2.0	6.0
5 1.0	7.0
6 1.0	8.0
7 2.0	12.0
8 1.0	13.0
9 3.0	12.0
HA	

Supervisor Name Sutter

RSM Signature [Signature]



Date 12-4-04

Survey Area	Survey Unit	Building
Survey Unit/Area Description Building 707 1st floor module 1022 Scan		
Investigation Documentation Sheet		

End Location (X, Y, Count)	Survey	UGI ID	ISSA Measurements			RSA Measurements		Gross (cpm)	Comments	Date
			Top (dpm)	End (cpm)	AV (cpm)	Net (cpm)	Brake (cpm)			
4	1	1	1	2.0	7.0	NA	NA	NA	NA	12/3/04
4	2	1	1	3.0	2.0					12/3/04
4	3	1	1	4.0	16.0					12/3/04
4	4	1	1	2.0	6.0					12/3/04
4	5	1	1	1.0	7.0					12/3/04
4	6	1	1	1.0	8.0					12/3/04
4	7	1	1	2.0	12.0					12/3/04
4	8	1	1	1.0	13.0					12/3/04
4	9	1	1	3.0	12.0					12/3/04
NA	NA	NA	NA	NA	NA					NA
NA	NA	NA	NA	NA	NA					NA
NA	NA	NA	NA	NA	NA					NA
NA	NA	NA	NA	NA	NA					NA

RCT ID #	Date
1	12/3/04
2	NA
3	
4	NA

Inst #	Serial #	Cal Due Date	Efficiency	Comments
1	1269	3/2/05	.222	NA
2	NA	NA	NA	
3				
4	NA	NA	NA	NA

Comments  
 Record of Previous Survey. No decon performed.  
 Elevated readings from Radon daughters.

J. CRISER  
 Supervisor (print)

*[Signature]*  
 Supervisor (signature)

12/5/04  
 Date

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

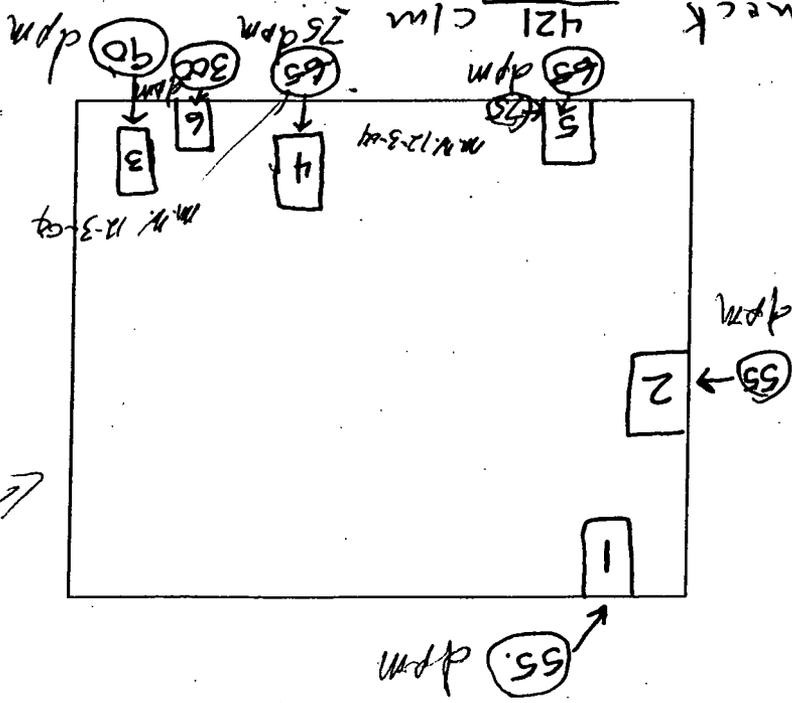
Reviewed by Sutter *[Signature]*



Name *[Redacted]*  
 Pct # *[Redacted]*  
 Date 12/1/07  
 Trust Electra  
 S/N 4408  
 CAI Date Due 4/18/05  
 ESJ .215

L.A.B. 20P/m

Pre Source check 421 c/m 75 dpm  
 Post Source check 409 c/m  
 Post Source check +/- 20%  
 Yes  No



All readings  
 are gross  
 counts converted  
 to dpm

Survey unit 707065A  
 Grid # 5





Survey unit 707065A

Grid # 6

All < 94 dpm

Pre Source check 366 c/m

Post Source check 394 c/m

Post Source check for - 20% 

Yes	No
X	-

NAME

Rct #

Date 12-1-04

Inst Electra

S/N 1266

Cal Date Due 1-28-05

Eff .219

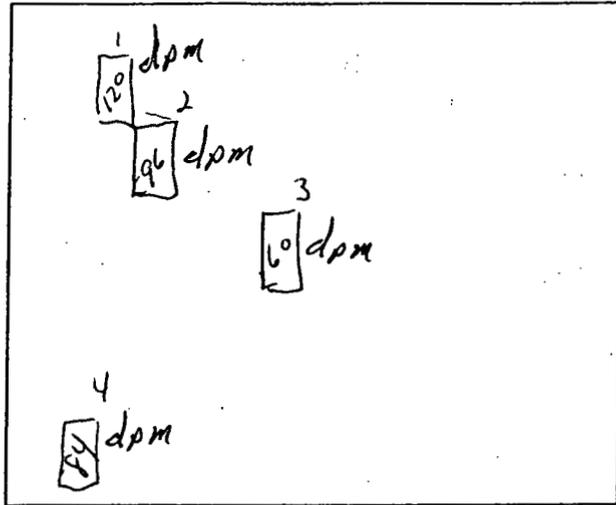
LAB# N/A

+ No Bkg recorded because no TSA obtained M.W.  
12-3-04

Reviewed by Sutter Yffere

Survey unit 707065A

Grid # 7



Pre Source check 427 c/m

Post Source check 448 c/m

Post Source check for - 20%  Yes  No

Name 

Rct #

Date 12/01/04

Inst Electra

S/N 1245

Cal Date Due 2/23/05

Eff 22.3%

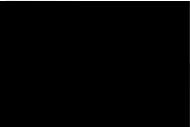
LAB 2.0 10 dpm

#1 TSA 22.0

#2 TSA 16.0

#3 TSA 10.0

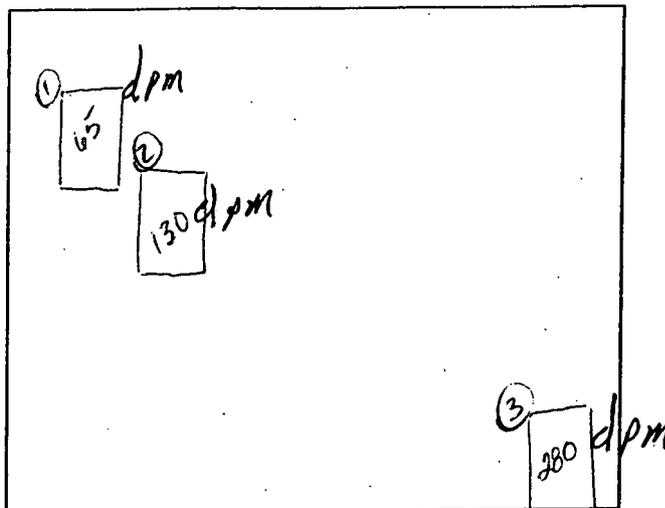
#4 TSA 14.0

Reviewed by Sutt  



Survey unit 707065A

Grid # 8



Pre Source check 366 c/m

Post Source check 394 c/m

Post Source check for - 20% 

Yes	No
<u>Y</u>	<u>-</u>

Name

Rct #

Date

12-1-04

Inst

Electra

S/N

1266

Cal Date Due

1-28-05

Eff

.219

LAB

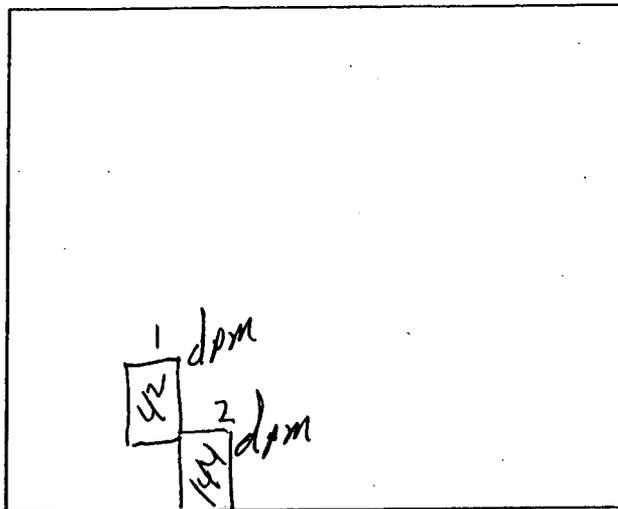
6.0 cpm

30 dpm

Reviewed by Seth [signature]



Survey unit 707065A  
Grid # 9



Pre Source check 427 c/m  
Post Source check 476 c/m  
Post Source check for - 20%  Yes  No

Name 

# 1  
TSA 7.0

Rct #

Date 12/01/04

# 2  
TSA 24.0

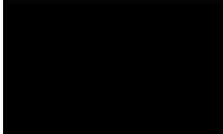
Inst ELECTRA

S/N 1245

Cal Date Due 2/23/05

EFF 22.3%

LAB 4.0 c/m 20 dpm

Reviewed by Scott Yffler 



Reviewed by *Suttu*



LAB

2.0 CPM

10 dpm

ESJ

.213

Cal Date Due 1-31-05

S/N

3977

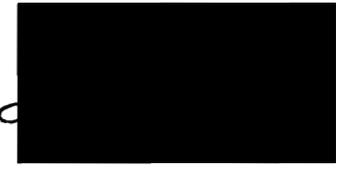
Inst

Electra

Date

12-1-04

Pct #



Name

Post Source

check for - 20%

yes  no

Post Source

check 282 c/m

Pre Source

check 268 c/m

All < 94 DPM

Survey unit

707065A

Grid #

10

Survey unit 707065A  
Grid # 11

294 <sup>d</sup>/<sub>m</sub>

Pre Source check 337 clm  
Post Source check 359 clm  
Post Source check for - 20%  Yes  No

Name   
Rct #

Date 120104

Inst Electra

S/N 4398

Cal Date Due 042205

Eff 1210

LAB 4.00/m 20 dam

Reviewed by Seth  