DEPARTMENT OF VETERANS AFFAIRS
Veterans Health Administration
National Health Physics Program
2200 Fort Roots Drive
North Little Rock, AR 72114

APR 27 2005

In Reply Refer To: 598/115HP/NLR

Kevin G. Null
Division of Nuclear Material Safety
Region III
Nuclear Regulatory Commission (NRC)
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

Dear Mr. Null:

Per NRC License 03-23853-01VA, we are enclosing closeout survey documentation for Jesse Brown VA Medical Center, Chicago, Illinois, for review and approval. The survey results are to release for unrestricted use the location of use at 333 East Huron Street, except for continued use of materials under 10 CFR 35.100 and 35.200.

In a letter of November 18, 2004, you approved similar closeout survey documentation including a historical site assessment for the medical center to release a location of use at 400 East Ontario. For this request, we are enclosing documentation with the following information: a request letter from the medical center of April 5, 2005, a final status survey report in two volumes prepared by an environmental contractor of December 8, 2004, and a clarification letter from the Radiation Safety Officer of January 7, 2005.

The closeout survey documentation is consistent with decommissioning requirements under 10 CFR 30.36. Based on the closeout survey results and historical site assessment, we conclude residual radioactive contamination is unlikely.

If you have any questions, please contact Gary E. Williams, VHA National Health Physics Program, at (501) 257-1572.

Sincerely,

E. Lynn McGuire
Director, National Health Physics Program

Enclosure

APR 28 200

DEPARTMENT OF VETERANS AFFAIRS
Jesse Brown VA Medical Center
820 South Damen Avenue
Chicago IL 60612

April 5, 2005

In Reply Refer To: 537/00

E. Lynn McGuire, Director
National Health Physics Program (115HP/NLR)
Department of Veterans Affairs
Veterans Health Administration
2200 Fort Roots Drive
North Little Rock, AR. 72114

RE: Permit No. 12-02642-06

Dear Mr. McGuire,

This is an amendment request to release the VA Lakeside Building, located at 333 E. Huron, Chicago, IL, for unrestricted use, except for continued operation of our Nuclear Medicine Service.

An Enhanced Use Lease (EUL) agreement for the VA Lakeside Building was signed in January 2005 with Northwestern Memorial Hospital. Under the terms of the agreement, VA retains possession and full administrative control of the entire building until December 31, 2007, unless VA chooses to vacate the property sooner. Furthermore, the Secretary has the authority needed to also transfer all right, title, and interest of the United States to the leased property to Northwestern Memorial Hospital during the leased term.

Our intent is to continue to operate a community based outpatient clinic in the building during this transition period. The Nuclear Medicine Service will continue to operate in the building until July 2005 or later. Northwestern Memorial Hospital is fully aware of and approves of this use of licensed material in the building. Until arrangements have been made to close the Lakeside Nuclear Medicine Service, they will possess and use only radioactive materials approved for use under 10 CFR 35.100 and 35.200, and sealed sources approved under 10 CFR 35.65. We will complete closeout surveys to comply with 10 CFR 20 when discontinuing operation of the Nuclear Medicine Service and provide notification to your office under 10 CFR 35.14 to delete the location of use.

A Final Status Survey Report (FSSR) was recently sent to you by our consultant, Cabrera Services, in support of this amendment request. The report demonstrates the VA Lakeside Building does not have residual radioactive contamination above any regulatory limit. Even though the Nuclear Medicine Service will temporarily remain open, the FSSR includes radiological surveys to show that there are no long-lived contaminants from historic uses in their space.

Enclosed is information related to a small quantity of residual tritium contamination found in the floor drains of the former radioactive waste storage room. Sampling results were obtained after the FSSR was completed by the contractor. We conclude the floor drains do not have residual radioactive contamination above any regulatory limit.

In addition, a small amount of contamination was found on internal surfaces of the radioactive waste compactor in the same room. Enclosed are survey results of the compactor and the floor in the immediate area after decontamination. During decontamination, one 55 gallon drum of radioactive waste was generated. The drum will be transferred to an authorized radioactive waste broker during the last two weeks of April 2005, a firm date has not been established.

If you have any questions regarding this letter, please contact our Radiation Safety Officer, Mr. David Derenzo, at 312-569-6596.

Sincerely,

Stan Johnson
Acting Medical Center Director

VA Lakeside Building
Radioactive Waste Room
Tritium Contamination and Dose Assessment

During decommissioning measurements a small amount of tritium (H-3) contamination was detected in the floor drains of the former radioactive waste storage room (room 1SB-10A) of the VA Lakeside Hospital Building, 333 E. Huron, Chicago, IL. This contamination and dose assessment was prepared to estimate the radiation doses that individuals might receive if they were to be exposed to this contamination.

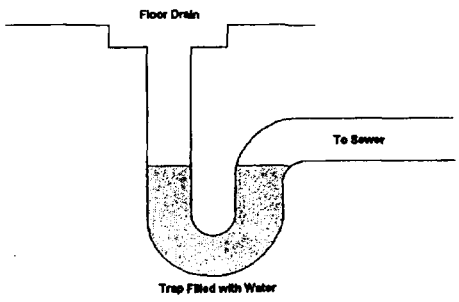
Samples were collected from the sink traps and floor drains of all known and suspected waste disposal rooms as part of the decommissioning measurements taken in the VA Lakeside Building. Samples of debris and sludge collected in October 2004 from two floor drains in room 1SB-10A showed positive results for tritium (H-3). These findings were reported to the VA National Health Physics Program in the Final Status Survey Report (Cabrera 2004).

On 12/9/04 the drains in room 1SB-10A were cleared of debris and sludge and flushed with copious amounts of fresh water. Several days were allowed to pass to so that any residual tritium would come into equilibrium with the fresh water in the drains. Wipe tests samples and water samples were collected on 12/20/04 from each floor drain. The wipe test samples were analyzed by the JBVAMC Radiation Safety Office. Results are provided in the table below.

Sample	H-3*	C-14*
Entrance Area of Drain 1	87.37 dpm/100 cm^2	<8.27 dpm/100 cm^2
Inner Pipe Below Water Level Drain 1	<10.79 dpm/100 cm^2	<8.27 dpm/100 cm^2
Entrance Area of Drain 2	52.75 dpm/100 cm^2	15.39 dpm/100 cm^2
Inner Pipe Below Water Level Drain 2	12.27 dpm/100 cm^2	<8.27 dpm/100 cm^2
* The minimum detectable activities of the liquid scintillation counting system used to analyze these samples using the chosen counting techniques are 10.79 dpm for H-3 and 8.27 dpm for C-14		

Water samples were sent to an offsite analytical laboratory for analysis. The samples were prepared for individual tritium (H-3) and carbon-14 (C-14) counting procedures using liquid scintillation analysis techniques. Sample number 1SB-10A-FD4 was reported as having a concentration of 117,000 ± 18,000 (2-sigma, 2σ) picocuries per liter (pCi/L) H-3. This was the only positive result reported from the laboratory for this set of samples. This value was used in the assessment of contamination within the pipe and in the dose assessments.

An estimate of the H-3 deposited on internal surfaces of drain line was compared with the with NRC surface contamination levels established in NUREG-1757, *Consolidated NMSS Decommissioning Guidance*." The drain is represented in the drawing below.



The following calculation is provided as an estimate of the amount of tritium adhering to the sides of the trap.

Given:

- H-3 concentration of 117,000 pCi/L (117 pCi/ml) measured in the water sample collected from the drain trap.
- Diameter of Trap: 6"

Assumptions:

- Length of affected floor trap: 24"
- Density of water = 1 g/cm^3 for water, i.e., 1 ml = 1 cm^3
- 10% of available H-3 is present in water (compared to levels on walls of pipe)

Calculations:

$$SurfaceArea_{Trap} = \pi(Diameter)(Length)$$
$$= (3.14159)(6\,in)(24\,in)(2.54\ cm/in)^2$$
$$= 2918.64\ cm^2$$

$$Volume_{Trap} = \pi R^2(Length)$$
$$= (3.14159)(3\ in)^2(24\,in)(2.54\,cm/in)^3$$
$$= 1.11E+04\ cm^3 = 11.1\ liters$$

$$Max\ Activity\ on\ Walls\ of\ Trap(uCi) = \frac{(Water\ Conc)(Vol_{trap})}{(0.1_{Remov.Frac})}$$
$$= \frac{\left(1.17E-04\ {}^{\mu Ci}/_{ml}\right)\left(1.11E+04\,cm^3\right)}{(0.1_{Remov.Frac})}$$
$$= 13\,\mu Ci$$

$$Max\ Surf.Cont.\left(\frac{dpm}{100cm^2}\right) = \frac{(Water\ Conc)(Vol_{trap})(CF)}{(0.1_{Remov.Frac})(Surf\ Area)}$$
$$= \frac{\left(117\ {}^{pCi}/_{ml}\right)\left(1.11E+04\,cm^3\right)\left(2.22\ {}^{dpm}/_{pCi}\right)}{(0.1_{Remov.Frac})\left(2.918E+03\,cm^2\right)}$$
$$= 9.896E+03\,\frac{dpm}{cm^2}$$
$$= 9.986E+05\,\frac{dpm}{100\,cm^2}$$

This calculation shows that the maximum H-3 expected to be present as surface contamination within the drain trap in Room 1SB-10A is 9.986E+05 dpm per 100 cm^2. This calculation is intended to serve as a worst case estimate in areas of the pipe that cannot be directly sampled. The accessible sections of the drain and trap that have been wipe tested indicate levels that are significantly lower.

Using the conservative assumptions in this calculation, the maximum expected value is significantly below the 1.2E+08 dpm per 100 cm^2 building surface screening value in NUREG-1757. This comparison is for information purposes only since the screening values presented in NUREG-1757 are intended for use in interior building spaces that may be occupied.

In order to assess potential exposure to members of the public from this source of H-3, the following general assumptions were made:

- The measured concentration of H-3 is consistent throughout the entire length of drain pipe (assumed to be 30 feet) to be excavated or disturbed during construction activities.
- The drain line is assumed to be 6 inches in diameter. The water in the drain line occupies only a small fraction of the total pipe volume, primarily the amount in the two drain traps, only one of which is contaminated. A relatively small amount may also be in the remaining pipe since the drain lines are sloped toward the discharge point to induce natural gravity flow. The total volume of *contaminated* water is estimated to be no more than double the amount in the contaminated trap, or 22.2 liters.
- The measured H-3 is in the form of tritium oxide (or HTO) in water.
- The limiting exposure scenario is to an industrial worker performing demolition or excavation services without respiratory or dermal protection in room 1SB-10A.
- The exposure to the worker is assumed to be acute, resulting in a single intake or over a very short duration (5 days or 40 hours max).
- The Effective Half-Life of H-3 is 9.5 days.
- The limiting dose pathways for HTO are inhalation/ingestion, with equal dose conversion factors (DCF) of ~63 mrem/mCi committed effective dose equivalent (CEDE). This is derived from the published Annual Limit on Intake (ALI) value of 80 mCi from ICRP 30 (also published in 10CFR 20 Appendix B, Table 2).

Any additional specific assumptions are provided within the context of individual calculations.

Given a steady-state H-3 concentration of 117,000 pCi/L (0.117 µCi/L) in the pipe, a total H-3 source term is calculated as follows:

$$\begin{aligned} A_{H-3} &= (Conc.in\ Pipe)(Total\ Volume) \\ &= (1.17E-04\ \mu Ci/ml)(2.22E+04\ ml) \\ &= 2.6\ \mu Ci = 0.0026\ mCi. \end{aligned}$$

Given a total available H-3 activity of 0.0026 mCi, the worst case intake to a worker would assume ingestion of the total amount within a relatively short period of time (thus ignoring biological removal prior to uptake). The resulting dose is therefore calculated as:

$$CEDE_{WorstCaseIngestion} = (Total\ Intake)(DCF)$$
$$= (0.0026\,mCi)(63\ mrem/mCi)$$
$$= 0.164\ mrem$$

This worst-case calculated CEDE is a factor of more than 600 below the NRC regulated maximum dose to a member of the public of 100 mrem per year established in 10CFR 20.1102.

In addition to the worst-case estimate presented above, other credible dose estimates were calculated for several construction worker scenarios using assumptions corresponding to likely conditions and outcomes. The potential pathways for exposure are direct ingestion of the water, inhalation of evaporated HTO vapor, and dermal absorption through direct contact with the skin. Uptake of HTO into the blood through inhalation and ingestion is near 100% while published data show that the relative uptake of HTO through dermal absorption is ~50%. (DOE 1994).

Pathway 1 – Direct Ingestion

Although direct ingestion of water in the drain pipe during removal is possible, it is highly unlikely to occur in any form other than accidental. For this reason, the accidental ingestion scenario is assumed to occur as a single, acute intake of approximately 50 ml in volume resulting from a splash and/or hand-to-mouth transfer. It was also assumed that a worker would not be subjected to multiple accidental ingestions of water from a known waste line. The resulting dose calculation is shown below:

$$CEDE_{Ingestion} = (Conc_{H-3})(Vol_{ingested})(DCF)$$
$$= (1.17E-04\ \mu Ci/ml)(50\ ml)(63\,mrem/mCi)(1\ mCi/1000\,\mu Ci)$$
$$= 3.7E-04\ mrem$$

Pathway 2 – Inhalation of HTO Vapor

In order to model this pathway, an assumption of evaporation rate of the HTO into surrounding air at the basement level during construction work was made. This will lead to the calculation of a resulting steady-state concentration of HTO vapor in the room air. A water vapor evaporation rate of 0.5% by volume was used to estimate HTO emanation into the breathing zone. This assumption was taken from the steady state volume percentage of water vapor in normal atmospheric conditions.

$$Room\ Conc_{H-3} = \frac{\left(1.17E-04\ \mu Ci/ml\right)\left(0.005\ ml_{air}/ml_{water\ evaporate}\right)}{9.96E+07\ cc_{Room\ Volume}} = 5.87E-15\ \mu Ci/cc_{air}$$

The room volume was calculated using the dimensions of 1SB-10A used in the FSS Plan. This value is then used to calculate potential dose to room workers. A standard worker breathing rate (BR) of 20 liters per minute, assuming light activity, was used here. (ICRP 1975)

$$CEDE_{Inhalation} = (Room\ Conc)(BR)(Duration)(DCF)(ConvFactors)$$
$$= \left(5.87E-15\ \mu Ci/cc\right)\left(2.0E+04\ cc/\min_{BR}\right)(40h)\left(60\min/h\right)\left(63mrem/mCi\right)\left(1mCi/1000\mu Ci\right)$$
$$= 1.8E-08\ mrem \approx 0.$$

As the calculation suggests, the estimated CEDE from the inhalation pathway is negligible.

Pathway 3 – Dermal Absorption

Dermal absorption is the most likely exposure scenario for construction work in this area and therefore, also the greatest potential contributor to worker dose. Application of a dermal absorption scenario is fairly straightforward with the only assumptions required being the volume of tritiated water coming in contact with the skin and duration of exposure. The available volume of water was assumed to be 10%, i.e., 2.2 liters. As with the inhalation scenario, a 40-hour exposure duration was assumed. For the sake of simplicity, it is assumed that 100% of water in contact with the skin is absorbed as an intake.

$$CEDE_{Absorption} = Conc_{H-3} * Vol * DCF * Conv.Factors$$
$$= \left(1.17E-4\ {}^{\mu Ci}/_{ml}\right)(2.2\ l)\left({}^{63\,mrem}/_{mCi}\right)\left({}^{1000\,ml}/_{l}\right)\left({}^{1mCi}/_{1000\,\mu Ci}\right)$$
$$= 0.0163\,mrem.$$

Therefore, the total maximum anticipated CEDE to a member of the public resulting from the levels of H-3 in the 1SB-10A drain line is the sum of the two relevant scenarios:

$$CEDE_{total} = CEDE_{Ingestion} + CEDE_{Absorption}$$

$$CEDE_{total} = 0.00037 + 0.0163 = \underline{\mathbf{0.0167\ mrem}}.$$

The assumptions made within this dose assessment are thought to be very conservative with the ultimate result representing a maximum credible dose estimate. No credit is taken for engineering controls such as ventilation, personal protective equipment (PPE), or removal of the source material prior to beginning work.

Floor Drain Survey Results

Protocol #:26 Name:Decommissioning2 23-Dec-2004 09:37
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.79		10.80		10.00	53.107	566.	7	B	BG
2	3.00	16827.9	1000.79	114835.	133740.	505.37	161.05	995.	0	E	Stds.
3	3.00	103967.	170925.	7994.47	0.00	2.00	19.672	990.	0	E	
4	3.00	0.00	0.00	0.00	0.00	0.00	0.000	976.	17	E	
(2 missing vials)											
7	3.00	0.00	0.00	0.00	0.00	0.00	0.000	556.	4		Drain 1 Inner
8	3.00	38.43	87.36	0.00	0.00	0.00	0.000	547.	3		Drain 1 Top
9	3.00	25.06	52.75	15.26	15.39	0.00	24.331	537.	1		Drain 2 Top
10	3.00	5.20	12.27	0.82	0.34	0.00	29.964	497.	3		Drain 2 Inner

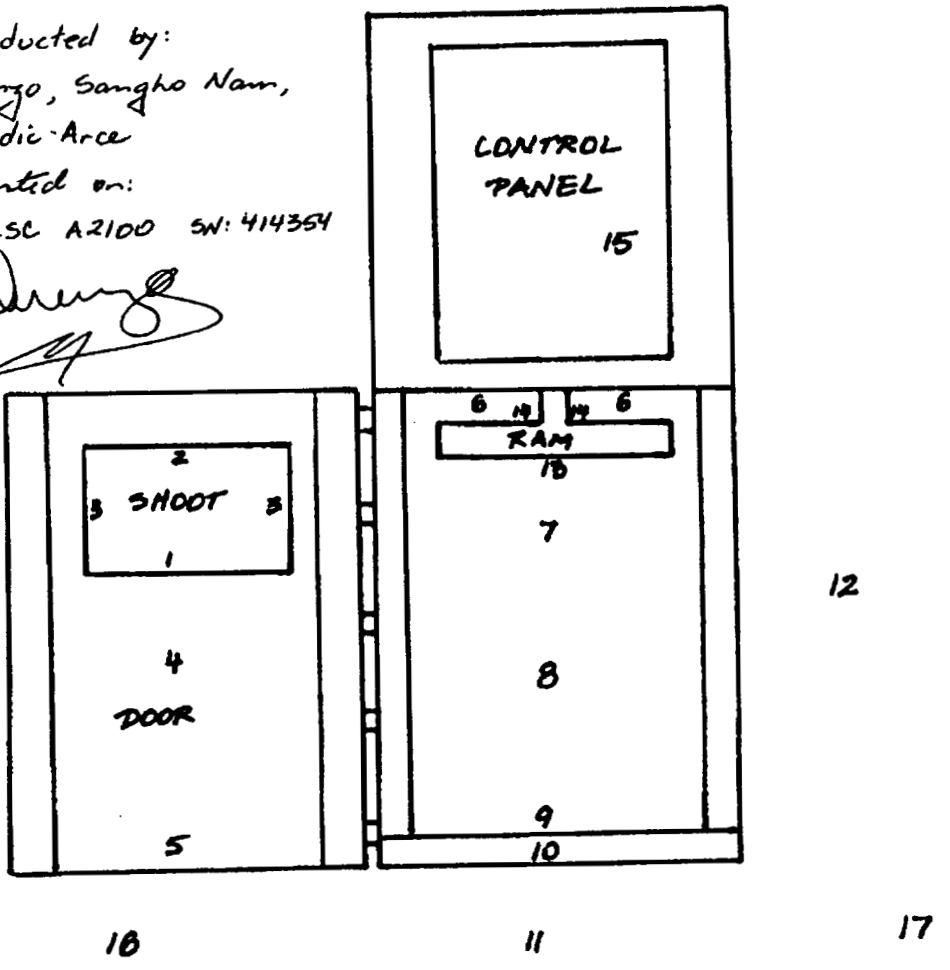
COMPACTOR SURVEY - Decommissioning

Room 1SB10A

JANUARY 24, 2005

Survey conducted by:
Dave Derengo, Sangho Nam,
Nina Bijedic-Arce
Wipes counted on:
Packard LSC A2100 SN: 414354

Reviewed:



Survey Locations

1. Bottom of shoot
2. Top of shoot
3. Sides w/ shoot open
4. Middle of door
5. Bottom of door
6. Wall
7. Top of compactor
8. Middle of compactor
9. Bottom of compactor
10. Outer ledge
11. Floor in front
12. Floor behind
13. Bottom of ram
14. Top of ram
15. Inside electronics
16. Floor left side
17. Floor right side

Decontamination of ram and compaction area were performed immediately prior to this survey. DJD

Protocol #: 2 Name:Wipe Tests 24-Jan-2005 15:30
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Jesse Brown VAMC Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
1	10.00	8.06		13.12		6.70	62.565	555.	7	B
2	1.00	17142.5	405.06	119552.	139672.	625.98	153.97	948.	0	E
3	1.00	85613.1	144034.	6659.36	0.00	1.30	19.099	950.	0	E
4	1.00	0.00	0.00	0.00	0.00	1.30	0.000	956.	65	E
(1 missing vial)										
6	1.00	0.25	0.00	3.25	3.90	0.00	11.705	575.	15	— 1
7	1.00	2.44	5.13	0.88	0.78	1.30	4.210	576.	21	— 2
8	1.00	8.03	17.80	0.47	0.00	2.30	0.000	563.	13	— 3
9	1.00	0.28	0.61	0.00	0.00	0.30	10.587	590.	29	— 4
10	1.00	2.28	5.04	0.00	0.00	2.30	0.000	577.	18	— 5
11	1.00	20.53	45.51	0.00	0.00	0.00	0.000	572.	12	— 6
12	1.00	0.00	0.00	0.08	0.09	0.30	0.000	584.	44	— 7
13	1.00	3.53	7.74	0.00	0.00	0.00	0.000	582.	24	— 8
14	1.00	4.34	9.58	0.00	0.00	1.30	38.075	575.	13	— 9
15	1.00	0.00	0.00	1.52	1.84	0.00	0.000	560.	9	— 10
16	1.00	0.00	0.00	0.00	0.00	0.00	0.000	531.	23	— 11
17	1.00	0.00	0.00	2.88	3.49	2.30	75.078	551.	23	— 12
18	1.00	4.23	9.00	1.43	1.21	0.00	1.198	565.	7	— 13
19	1.00	85.61	195.59	0.88	0.00	1.30	6.868	541.	4	— 14
20	1.00	2.78	6.21	0.00	0.00	0.00	0.000	563.	9	— 15
21	1.00	3.78	8.63	0.00	0.00	0.00	0.000	542.	10	— 16
22	1.00	0.00	0.00	0.00	0.00	3.30	0.000	522.	14	— 17
23	1.00	2667.66	9191.22	491.01	227.52	1.30	12.027	303.	1	G — Grill
24	1.00	8.51	17.96	2.23	1.69	1.30	0.000	585.	3	C — Exhaust
25	1.00	0.00	0.00	1.88	2.28	0.00	104.81	592.	14	B — Exhaust After Filter
26	1.00	0.00	0.00	0.00	0.00	5.30	0.000	560.	36	A — Blower Inlet
27	1.00	0.65	1.42	0.00	0.00	0.00	0.000	587.	12	Blower Outlet
28	1.00	24.78	53.08	3.88	1.77	4.30	17.358	584.	4	— Sink Bottom
29	1.00	8.51	18.41	1.23	0.48	5.30	31.325	575.	3	— Sink Sides

Compactor - Rad Waste

2nd Sub Basement Janitor Sink

Used for decayed waste disposals (Double-check)

Grill removed and discarded in rad waste (Grill covered inside of exhaust part to stop big objects from getting sucked into filter)

HEPA filter & ductwork were previously identified as contaminated - Discarded as radioactive waste into 55 gal steeldrum.

Carbon-14 by Liquid Scintillation

PAI 704 Rev 7

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0412227
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 15B-10A-FD3
Lab ID: 0412227-1

Sample Matrix: WATER
Prep SOP: PAI 772 Rev 3
Date Collected: 20-Dec-04
Date Prepared: 05-Jan-05
Date Analyzed: 06-Jan-05

Prep Batch: C_050105-1
QCBatchID: C_050105-1-1
Run ID: C_050105-1a
Count Time: 177.7 minutes
Report Basis: Unfiltered

Final Aliquot: 0.500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Manual Entry

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14762-75-5	C-14	270 +/- 620	1030	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 108-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *C140412227-1*

Carbon-14 by Liquid Scintillation

PAI 704 Rev 7

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0412227
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 1SB-10A-FD4
Lab ID: 0412227-2

Sample Matrix: WATER
Prep SOP: PAI 772 Rev 3
Date Collected: 20-Dec-04
Date Prepared: 05-Jan-05
Date Analyzed: 06-Jan-05

Prep Batch: C_050105-1
QCBatchID: C_050105-1-1
Run ID: C_050105-1a
Count Time: 177.7 minutes
Report Basis: Unfiltered

Final Aliquot: 0.500 ml
Prep Basis: Unfiltered
Moisture(%): NA
Result Units: pCi/l
File Name: Manual Entry

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14762-75-5	C-14	420 +/- 620	1030	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *C140412227-1*

Tritium Analysis By Liquid Scintillation

PAI 704 Rev 7

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0412227
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 15B-10A-FD3
Lab ID: 0412227-1

Sample Matrix: WATER
Prep SOP: PAI 700 Rev 9
Date Collected: 20-Dec-04
Date Prepared: 05-Jan-05
Date Analyzed: 06-Jan-05

Prep Batch: 3H050105-1
QCBatchID: 3H050105-1-1
Run ID: 3h050105-1a
Count Time: 240 minutes
Report Basis: Unfiltered

Final Aliquot: 1.00 ml
Prep Basis: Unfiltered
Moisture(%): 100.000
Result Units: pCi/l
File Name: yu0410601

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
10028-17-8	H-3	1200 +/- 1300	2000	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-116%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 708)

BDL - Below Detection Limit

Data Package ID: *H3W0412227-1*

Tritium Analysis By Liquid Scintillation

PAI 704 Rev 7

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0412227
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 1SB-10A-FD4
Lab ID: 0412227-2

Sample Matrix: WATER
Prep SOP: PAI 700 Rev 9
Date Collected: 20-Dec-04
Date Prepared: 05-Jan-05
Date Analyzed: 06-Jan-05

Prep Batch: 3H050105-1
QCBatchID: 3H050105-1-1
Run ID: 3h050105-1a
Count Time: 240 minutes
Report Basis: Unfiltered

Final Aliquot: 1.00 ml
Prep Basis: Unfiltered
Moisture(%): 100.000
Result Units: pCi/l
File Name: yu0410801

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
10028-17-8	H-3	117000 +/- 18000	2000	

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *H3W0412227-1*

DEPARTMENT OF VETERANS AFFAIRS
Jesse Brown VA Medical Center
Radiation Safety Office, 11R
820 South Damen Avenue
Chicago, IL 60612

Date: January 7, 2005

Letter No: RSO-05001

Lynn McGuire
National Health Physics Program
Veterans Health Administration
2200 Fort Roots Drive (115HP)
Building 101, Room 208E
North Little Rock, AR. 72114

Dear Mr. McGuire,

This letter is in reply to the questions in your December 21, 2004 email regarding the Final Status Survey Report for the Lakeside hospital building. These answers were formulated with input from Joseph Weismann, CHP, representative of Cabrera Services our decommissioning contractor.

1. Q: Provide MDA values for each instrument used. The MDA should be specific for the nuclides of interest and the type of surveys performed.

   A: Fixed count-time MDA values and scan MDC values for all instruments are included in Appendix B of the FSS Plan.

2. Q: The material specific background is not given for the Model 239 instrument, nor is given in the worksheets.

   A: The survey crews collected material-specific backgrounds for the 239-1F floor monitor in both buildings. However, they were not subtracted during the scan surveys. It was decided that gross measurements would instead be compared to the scan action levels to more conservatively identify potential hot spots.

3. Q: Section 3.2.2. indicates that one point exceeded the DCGL and that it was assumed to be H-3 on the basis of the LSC data. Please indicate further your rationale for this, since this point is not otherwise identified on the LSC printout. Further, no H-3 measurements were apparently taken of this area with the 44-110 instrument.

   A: Surveys were performed in 1SB 10A using the 44-110 on 08/11/2004 and 09/02/2004. Results can be found in Volume 2 in the Windowless Proportional Counter Results section. The 09/02 survey was performed after floor decontamination. The Total H-3 calculation in this section is very conservative in that it is assumes a total efficiency of only 10%, all measured activity is assumed to be fixed or removable tritium, and the result is compared to the DCGL for Co-60. The statement was intended to mean that despite the fact that the assumed value shown in the 44-110 table is >6.94E+03 dpm/100 cm2, it should not be construed to indicate the need for additional remediation.

4. Q: In 3. above, this point is contained in the LS-2 SU. Referring to this section, the SU on the first sheet is not identified the same as in Table 2-1. Please clarify. Please also evaluate all of the other SUs as well to insure that the information and all locations stated in Table 2-1 is included, referenced and surveyed. For example, LS-03 states that Rooms 2SB-04 through -08 plus the corridor comprise the SU. However, no LSC data is provided for 2SB-04.

   A: The point referred to in Comment #3 is in SU LS-6. The scope of the FSS in each SU includes all types of measurements outlined in the FSS Plan. Table 2-1 is a listing of the physical extents of each SU as shown on the maps in Appendix A. LS-03 included room 2SB-04 (2 static measurement locations and wall/floor scan measurements). Smears weren't taken in this room because the HSA indicates it was always used as an x-ray therapy room with no record of sealed or unsealed source usage. Several similar locations were not smeared for this same reason.

5. Q: Referring to the instrument QC:

   a. Q: One printout for the LSC shows a chi-square value of 36 for channel B. This would be usually indicative of a failure.

      Volume 2 of the *Features and Benefits Guide for Tri-Carb Liquid Scintillation Analyzers* published by Packard Instruments Company (1996) states, "The ^{14}C and ^{3}H regions selected provide the most sensitive measure of repeatability. Twenty individual 0.5 minute counts are accumulated, and Chi-square values outside $7.63 < X^2 > 36.19$ are flagged." These limits correspond to the 0.990 and 0.010 X^2 values for 19 degrees of freedom. Using this values it is expected that two out of every 100 measurements would fall outside the interval. The value on the 08/06/2004 report to which you refer was 36.23, slightly above the suggested 0.01 X^2 value. No previous or subsequent X^2 values fell outside of the recommended range. Here are a few values that were not included in the FSS report. After consulting with the instrument manufacturer's service representative, it was concluded that this isolated value does not indicate the instrument was malfunctioning.

Date	C-14 X^2 Value	H-3 X^2 Value
06/09/2004	25.09	25.11
07/06/2004	16.47	11.28
08/25/2004	19.72	13.03
10/13/2004	21.39	16.43

   b. Q: The LSC standards activities do not match. See last page of that section vs. page entitled "LSC Counting protocol". They also do not appear to match those on the SU sample sheets.

      A: The last page of the section to which you refer lists the activity of the unquenched H-3 and C-14 standards used for SNC calibrations (the normalization procedure) and X^2 measurements. These are the same standards that were counted as samples 2 and 3 on each LSC report (sample 4 is always the background vial of

this standard set). The values of these standards do not print out on the protocol or the individual LSC counting reports.

The protocol printout and the header of each LSC report lists the calibration dates and activities of the H-3 and C-14 standard sets used to establish the quench curves. A new set of quench standards was acquired and used to re-calibrate the counter on June 3, 2004. This was done to extend the quench correction range to accommodate the use of the newer high flash-point cocktails, Ultima Gold in our case. Note that all of the results after this date are labeled Protocol #26 Decommissioning2. Earlier results are labeled Protocol#25 Decommissioning. A copy of Protocol #26 is enclosed.

6. Q: 44-110 data was not provided for each SU.

   A: The measurements performed for H-3 with the 44-110 detector were judgmental in nature and were not necessarily taken in the same locations as the MARSSIM-located points noted in the SU Data Summary Sheets. All of the 44-110 data is presented as a set under the "Windowless Proportional Counter" tab in Appendix B.

7. Q: No standard counts were provided for LSC channel C, and consequently no dpm was given for channel C.

   A: The Liquid Scintillation Analyzer was calibrated for dual label H-3/C-14 samples since these were the most likely long-lived contaminants. The analyzer uses the ratio of the counts in Regions A and B, the quench curves, and the tSIE value to calculate dpm value of each sample for H-3 and C-14. Region C was used to screen for radionuclides with beta energies greater that C-14 (156 keV to 2000 keV). This region was not calibrated for any specific radionuclide; therefore, calculation of a discrete efficiency (i.e., cpm/dpm) was not possible. The counting efficiency of C-14 is approximately 95%, so the intrinsic efficiency in Region C approaches 100%. Because of this, gross beta counts can be considered gross dpm values. Since no sample exceeded twice the background in this region radionuclide specific calibrations did not become necessary.

Please feel free to ask any additional questions you may have.

Sincerely,

Dave Derenzo

David J. Derenzo, MPH
Jesse Brown VA Medical Center
Radiation Safety Officer

Electronic cc: Michelle Blakely, Associate Director, JBVAMC
Joseph Zimmerman, Health System Specialist, VISN 12
Joseph Weismann, Cabrera Services

Protocol # =	26	Copy Protocol #?	no
Protocol Name?	Decommissioning2		
Cycles?	1		
Count Time?	3.00		
2 Sigma Coincidence?	no		
# Counts/Vial?	1		
# Vials/Standard?	1	# Vials/Sample?	1
1st Vial Background?	yes		
Radionuclide?	manual		

	LL	UL	Bkg	2 Sigma%	LCR
Region A:	0.0	12.0	0.00	.00	0
Region B:	12.0	156.	0.00	.00	0
Region C:	156.	2000	0.00	.00	0

Qip?	tSIE/AEC	ES Terminator?	count
% of Reference?	no		
Data Mode?	dual dpm		

Protocol # =	26	Protocol Name =	Decommissioning2
Standards Data?	use curve	Constant Quench?	no
Replot?	no	Edit Stds?	
# Stds/Nuclide 1?	0	# Stds/Nuclide 2?	0
Nuclide 1:DPM	273850	Nuclide 2:DPM	127200

Qip	Eff A	Eff B
781.9	53.63	4.74
653.9	49.16	4.48
547.1	44.61	4.55
459.9	39.99	4.19
369.5	33.95	3.62
266.2	25.44	3.19
194.7	17.07	2.57
124.4	9.40	1.64
84.76	4.93	0.94
51.10	1.88	0.38

Qip	Eff A	Eff B
791.1	12.02	84.76
654.3	11.95	84.04
554.3	11.62	83.75
452.5	11.62	82.99
356.1	11.69	81.48
260.3	11.23	79.50
191.7	11.02	75.69
129.4	11.24	69.05
87.53	11.67	59.12
49.19	11.65	38.73

After
Quench Curve Loading
New Standards with Packard
Ultima Gold Coctail

```
Protocol # =                        26      Protocol Name =    Decommissioning2
Half Life ?                    A: 0.00          B: 0.00
   Ref Date ?                  A: 01/01/1990    B: 01/01/1990
   Ref Time ?                  A: 00:00         B: 00:00
Single Photon Count ?              no
Colored Samples ?                  yes
RS232 Computer Output ?            no

Luminescence Correction ?          yes

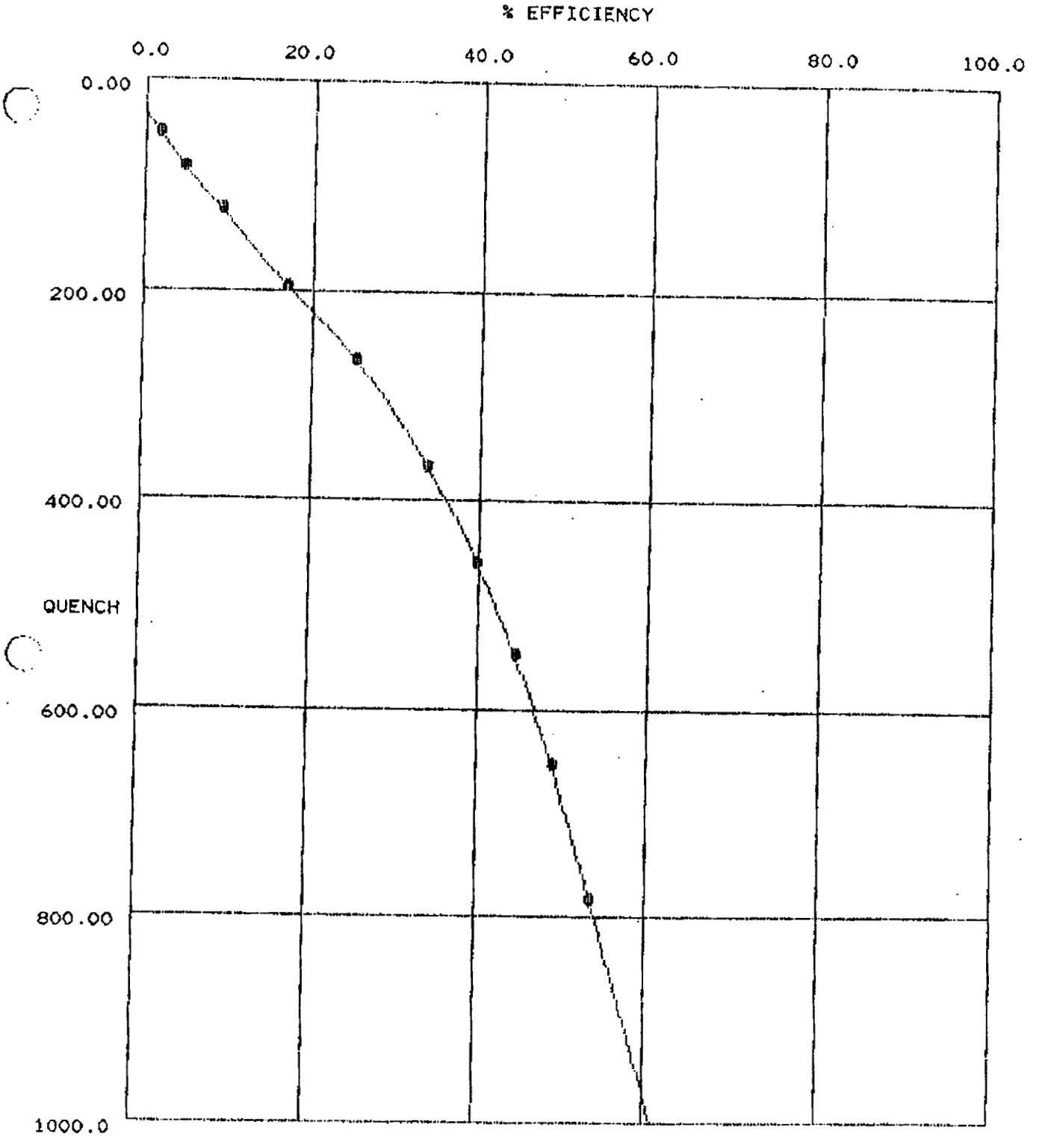
Data/Application Drive & Path ?
   Save Data ?
   Save Spectrum ?                 no
   Run User Application ?          no
      File Name ?
      Command String ?
Static controller ?                on

Protocol #:  26      Name:  Decommissioning2
Additional Heading?  VA Lakeside Campus  Packard LSC A2100 SNo 414354
C#  Name     Format    C#  Name     Format    C#  Name     Format  Equation
 0  CRLF               11  C:2S%      BXX.    21  A:%CV      BXXX.
 1  PID          BX    12  C:%REF     BXXX.   22  B:%CV      BXXX.
 2  S#           BX    13  SIS        BXX.X   23  TOD       BXXXXX
 3  TIME       BXXX.   14  DPM1      BXXXX.   24
 4  CPMA      BXXXX.   15  DPM2      BXXXX.   25
 5  A:2S%       BXX.   16  ELTIME     BXXXX   26
 6  A:%REF     BXXX.   17  FLAG         BXX   27
 7  CPMB      BXXXX.   18  BLANK     BBBBBB   28
 8  B:2S%       BXX.   19  tSIE          B.X   29
 9  B:%REF     BXXX.   20  %LUM          BX    30
10  CPMC      BXXXX.                          31

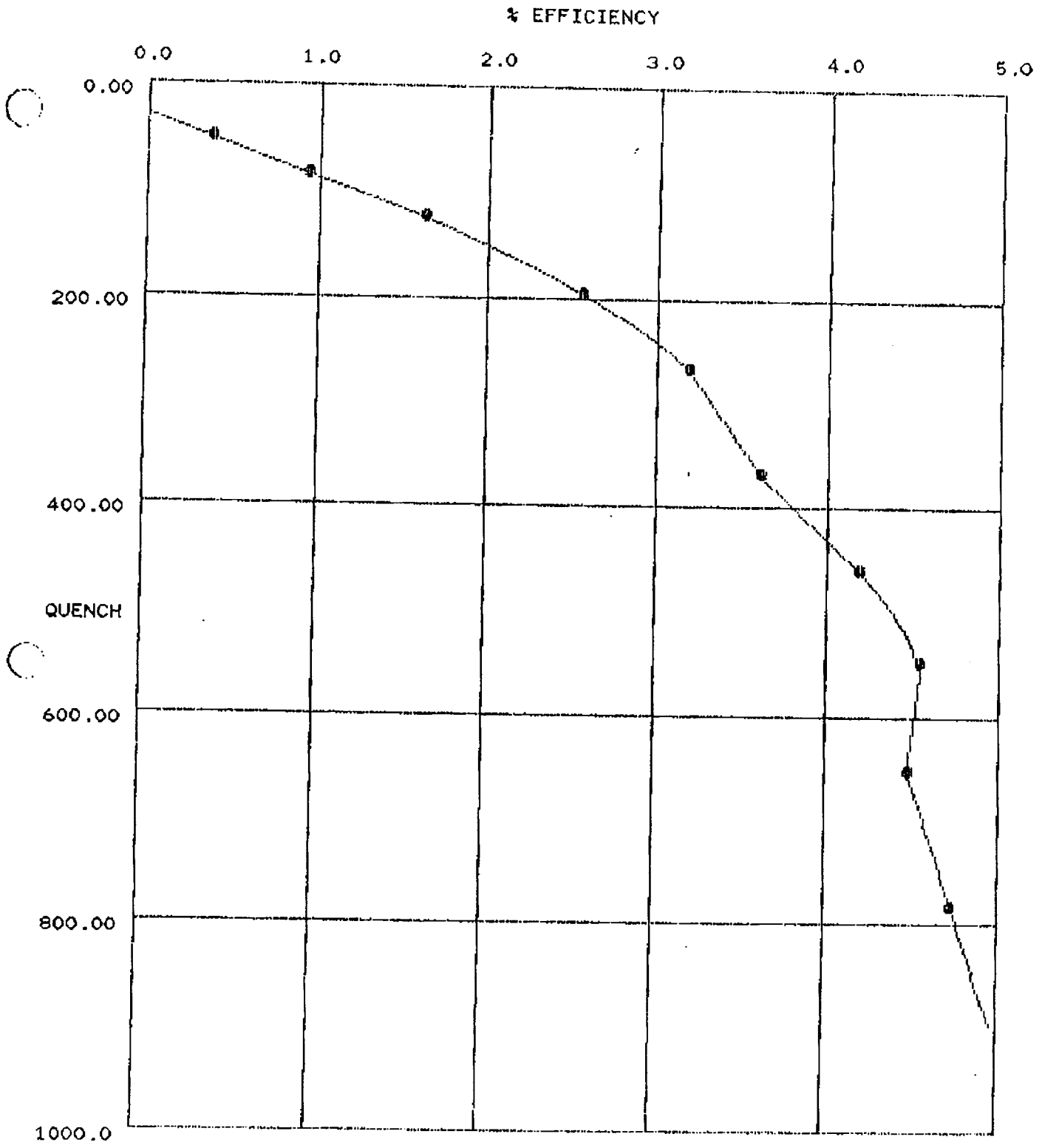
Define Cell #? 1      Name?          Format?                BXXX
Equation?          (Operators: +,-,*,/,SQR,LN)
Print Cells? 2  3  4  14 7  15 10 13 19 20 17 0
```

Protocol #:26 Name:Decommissioning2 03-Jun-2004 09:22
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
1	3.00	146873.		12970.9		11.33	16.650	782.	0	L
2	3.00	134634.		12265.5		10.00	14.671	654.	0	L
3	3.00	122167.		12448.6		8.33	13.251	547.	0	L
4	3.00	109519.		11481.4		15.00	11.977	460.	1	L
5	3.00	92968.2		9916.72		10.67	10.600	370.	1	L
6	3.00	69658.4		8744.69		12.00	9.116	266.	1	L
7	3.00	46738.5		7025.10		8.33	7.902	195.	1	L
8	3.00	25736.4		4481.17		11.33	6.818	124.	2	L
9	3.00	13507.1		2581.40		10.67	6.169	84.8	2	L
10	3.00	5146.39		1030.96		8.40	5.615	51.1	3	L

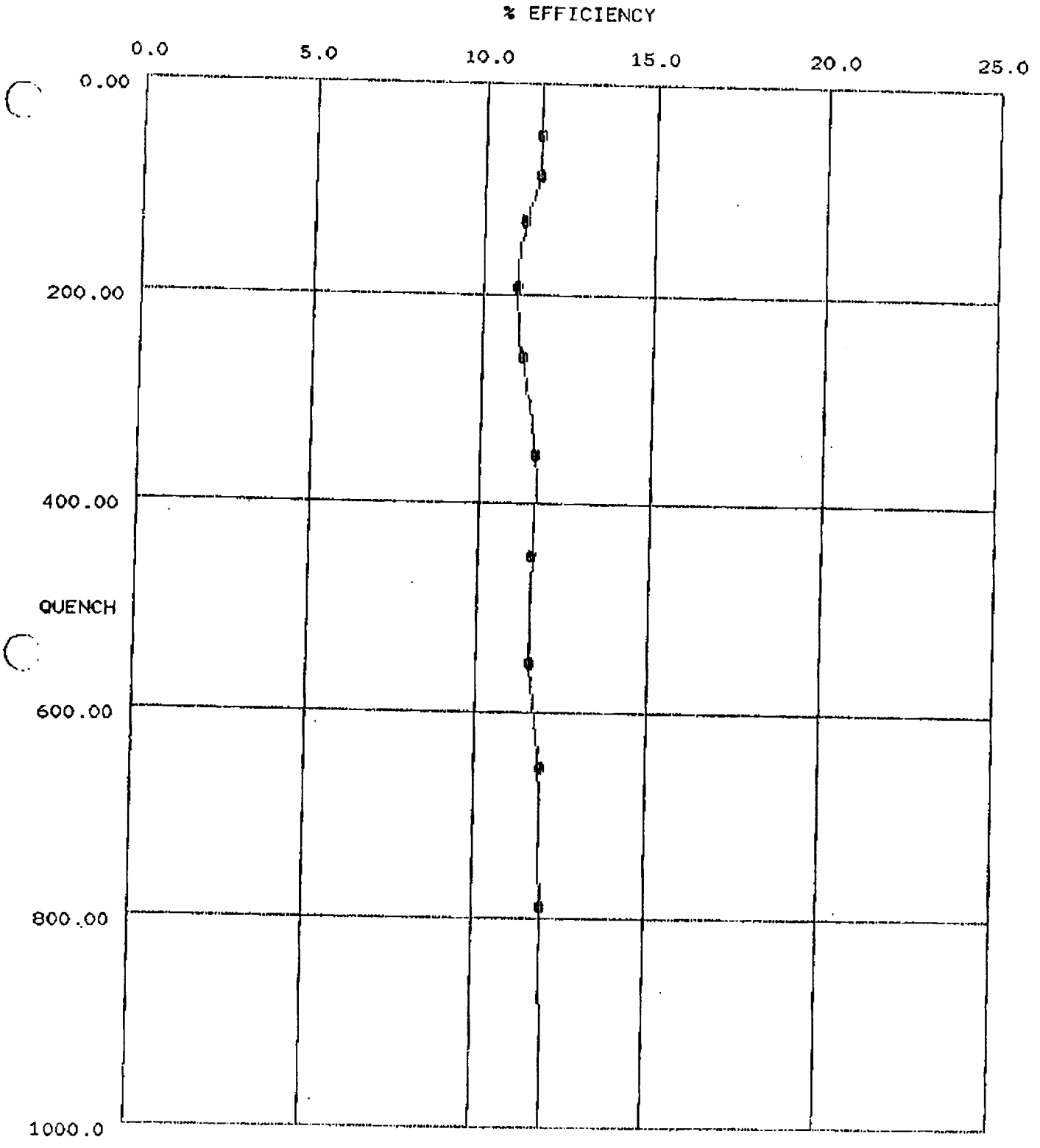


QUENCH	ELA	QUENCH	ELA	QUENCH	ELA
51.10	1.88	84.76	4.93	124.43	9.40
194.74	17.07	266.16	25.44	369.55	33.95
459.90	39.99	547.09	44.61	653.95	49.16
781.86	53.63				

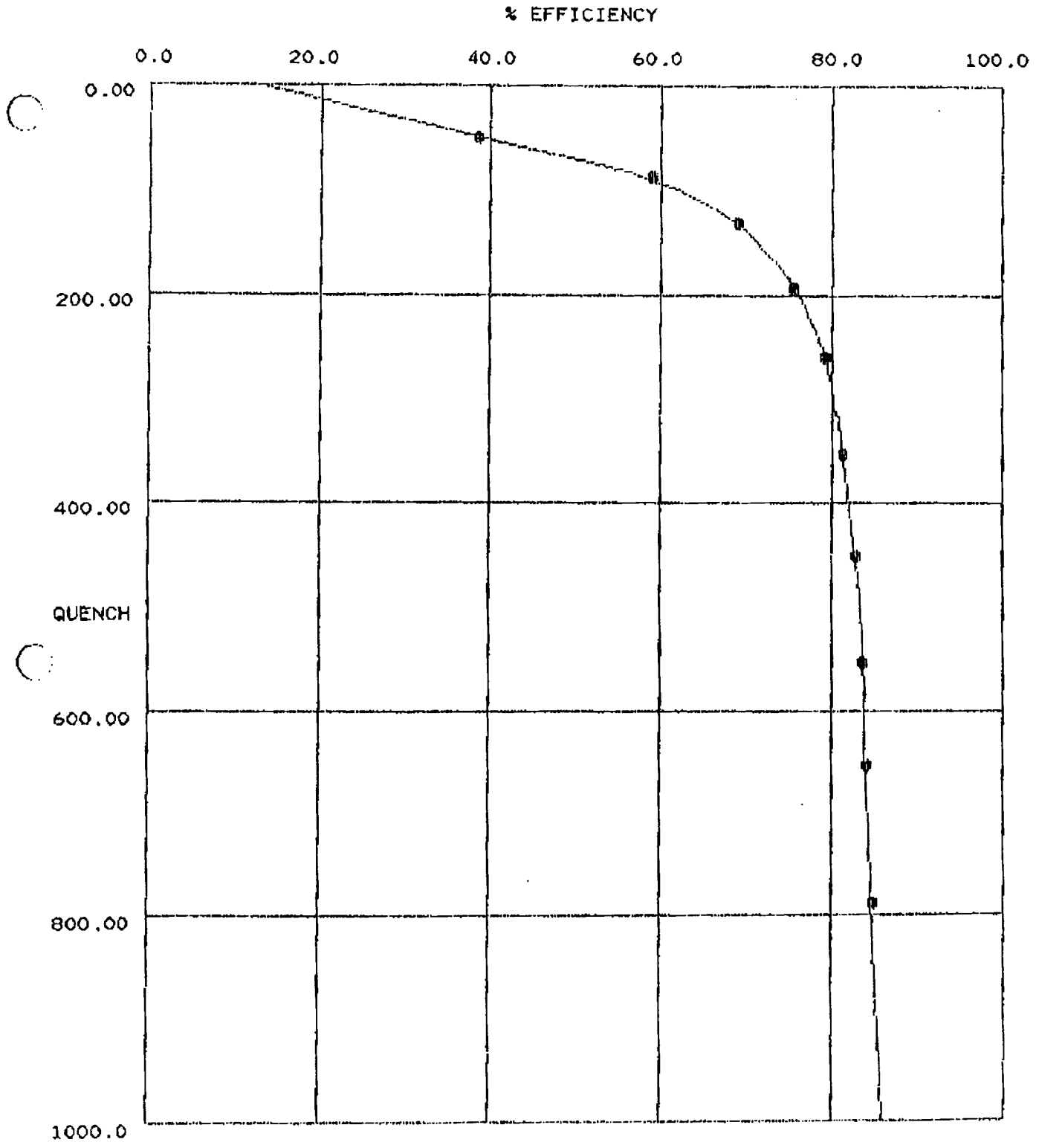


QUENCH	ELB	QUENCH	ELB	QUENCH	ELB
51.10	0.38	84.76	0.94	124.43	1.64
194.74	2.57	266.16	3.19	369.55	3.62
459.90	4.19	547.09	4.55	653.95	4.48
781.86	4.74				

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	$IS	tSIE	LUM	FLAG
11	3.00	15288.0		107812.		468.73	128.44	791.	0	H
12	3.00	15196.7		106900.		384.96	107.32	654.	0	H
13	3.00	14786.7		106524.		312.20	92.744	554.	0	H
14	3.00	14785.7		105559.		163.65	77.147	453.	0	H
15	3.00	14865.1		103638.		74.36	61.821	356.	0	H
16	3.00	14278.9		101120.		31.63	47.265	260.	0	H
17	3.00	14015.2		96282.1		17.99	35.279	192.	0	H
18	3.00	14295.2		87837.9		12.14	24.889	129.	0	H
19	3.00	14842.2		75205.7		15.33	18.211	87.5	0	H
20	3.00	14819.8		49270.1		11.67	11.895	49.2	1	H



QUENCH	EHA	QUENCH	EHA	QUENCH	EHA
49.19	11.65	87.53	11.67	129.40	11.24
191.70	11.02	260.27	11.23	356.09	11.69
452.55	11.62	554.28	11.62	654.32	11.95
791.07	12.02				



QUENCH	EHB	QUENCH	EHB	QUENCH	EHB
49.19	38.73	87.53	59.12	129.40	69.05
191.70	75.69	260.27	79.50	356.09	81.48
452.55	82.99	554.28	83.75	654.32	84.04
791.07	84.76				

FINAL STATUS SURVEY REPORT

VA Chicago - Lakeside Campus
Lakeside Hospital Building

Prepared for:

Jesse Brown VA Medical Center
Chicago, IL 60612

Under Contract to:

US Army Field Support Command
Rock Island, IL 61299
Contract No. DAAA09-03-D-0029/0014

December 8, 2004

Prepared by:



CABRERA SERVICES

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ACRONYMS AND ABBREVIATIONS

AEC	Atomic Energy Commission
ALARA	as low as reasonably achievable
Ba-133	Barium-133
C-14	Carbon-14
Cl-36	Chlorine-36
Co-60	Cobalt-60
Cs-137	Cesium-137
CABRERA	Cabrera Services, Inc.
cm^2	square centimeters
cpm	counts per minute
DCGL or DCGLw	Derived Concentration Guideline Level
dpm	disintegrations per minute
DQO	Data Quality Objective
FSS	Final Status Survey
GM	Geiger-Mueller
g	gram
H-3	Hydrogen-3 (Tritium)
HCS	Health Care Service
hr	hour
HSA	Historical Site Assessment
LSC	liquid scintillation counter
m^2	Square Meters
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
µR	microRoentgen
MSB	Medical Sciences Building
Na-22	Sodium-22
Ni-63	Nickel-63
NIST	National Institute of Standards and Technology
NRC	U.S. Nuclear Regulatory Commission
Pb-210	Lead-210
QA	Quality Assurance
QC	Quality Control
ROC	Radionuclide of Concern
SU	survey unit
Tc-99m	Technetium-99 (metastable)
U	Uranium
VA	US Veterans Administration
yr	year

1.0 INTRODUCTION

The Veterans Administration (VA) Lakeside Hospital houses treatment and clinical facilities and former laboratories used for biomedical research activities for the Jesse Brown VA Medical Center, located in Chicago, IL. The Lakeside Hospital, along with the Medical Sciences Building (MSB), makes up the VA Chicago Lakeside Campus. Both buildings are currently slated for redevelopment pending successful completion of Final Status Survey (FSS) activities and release from the VA's Nuclear Regulatory Commission (NRC) radioactive Master Materials License.

This report documents the results and protocol of the completed FSS performed for the Lakeside Hospital facility only. A stand-alone FSS Report for the MSB facility was submitted to the VA in September 2004 (CABRERA 2004). Separate radiological release efforts were pursued by the VA to facilitate expedited redevelopment of the MSB facility. The Lakeside Hospital FSS effort also required investigation of the primary exhaust stack and former incinerator facilities, which required additional planning, sampling, and analyses to be performed.

This FSS will be used to demonstrate that the residual radionuclide concentrations following remediation comply with concentration and exposure-based criteria defined in the FSS Work Plan (WP), developed by Cabrera Services, Inc. (CABRERA) for the VA, provided in Appendix D. The FSS Plan was developed in accordance with the guidance found in the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM, NRC, 2000).

The objective of FSS activities is to obtain data of sufficient quality and quantity to support an evaluation of the release criteria for the Lakeside Hospital as outlined in the WP. The scope of the surveys performed included:

- Interior scan surveys for alpha and beta;
- Fixed-point (static) measurements for alpha and beta-emitting radionuclides at designated locations;
- Judgment static measurements for tritium (H-3);
- Smear surveys for removable contamination at systematic and biased fixed-point locations; and
- General area gamma exposure rate measurements in each SU.

1.1 SITE BACKGROUND

The VA Lakeside Hospital building, located at 333 E. Huron St., Chicago, IL 60611, was built in about 1955 and originally called the VA Research Hospital. This nineteen-story 450-bed facility occupies about 1 square city block of land located north of the Chicago Loop and within a few blocks of Lake Michigan. In addition to hospital functions, a significant amount of biomedical research was conducted in this building. The original as-built drawings show an isotope laboratory, a counter room and various other laboratories on the 8th floor. Nuclear medicine areas are located on the 2nd floor, clinical laboratories on the 7th floor, and a cobalt teletherapy room and x-ray therapy rooms in the 2nd sub-basement.

1.2 RADIONUCLIDES OF CONCERN AND DCGLS

The Radionuclides of Concern (ROC) for the VA Lakeside FSS were determined from research of the VA's NRC license activity and nuclide receipt logs for both buildings documented in the HSA (see WP Appendix B). The HSA identified potential radioactive contaminants for the Lakeside Hospital Building and Medical Sciences Building with half-lives long enough to enable residual contamination to still be present in laboratory, treatment, or clinical areas. The HSA identified radionuclides of concern outside of the Nuclear Medicine Service as Ba-133, C-14, Cl-36, Co-60, Cs-137, H-3, Ni-63, Pb-210, and U-nat. Radionuclides of interest in the Nuclear Medicine service include Ga-67, I-131, and Tc-99m.

This list was screened to exclude nuclides with short half-lives (less than 1 year,), those known to be sealed sources, or those known to be single or very small quantity purchases. The resulting ROC list for the Lakeside Hospital Building is shown in Table 1-1.

Table 1-1: Radionuclides of Concern and Applicable DCGLs for the Medical Sciences Building FSS

Radionuclide	Name	Principal Emissions	Building Surfaces Screening Level (dpm/100 cm^2)[1]
C-14	Carbon-14	β^-_{max} (0.156 MeV)	3.40E+06
Cl-36	Chlorine-36	β^-_{max} (0.710 MeV)	4.47E+05
Cs-137	Cesium-137	β^-_{max} (0.512 MeV) γ (0.662 MeV)	2.78E+04
Co-60	Cobalt-60	β^-_{max} (0.318 MeV) γ (1.173, 1.332 MeV)	6.94E+03
H-3	Tritium	β^-_{max} (0.0186 MeV)	1.14E+08
Ni-63	Nickel-63	β^-_{max} (0.0659 MeV)	1.63E+06

1. Building surface screening DCGLs taken from Table 5.19 of NUREG/CR-5512 Vol.3, Residual Radioactive Contamination from Decommissioning – Parameter Analysis (P_{crit} = 0.95)

The FSS Plan for the VA's Lakeside Campus assumed that both MSB and the Lakeside Hospital Building would be addressed together during the FSS effort. However, the VA decided to pursue FSS and release of the MSB facility first, leading to separate FSS efforts and submittals for the two buildings.

The Co-60 building surfaces screening level of 6.94E+03 disintegrations per minute per 100 cm^2 (dpm/100 cm^2) was chosen as the derived concentration guideline level (DCGLw) for both FSS investigations since it represented the lowest DCGLw of all Lakeside Campus ROCs. This conservative approach was implemented to ensure that any elevated residual radioactivity present would be decontaminated to levels considered to be as low as reasonably achievable (ALARA).

1.3 FSS LIMITATIONS

At the time of this FSS investigation, the Lakeside Hospital was continuing to operate a nuclear medicine clinic on the 2nd Floor. The clinic uses only short-lived nuclear medicine radioisotopes

such as technetium-99 (metastable) (Tc-99m, half-life = 6.01 hours) for diagnostic patient care services. Active use of longer-lived nuclides (see Table 1-1) for VA research or diagnostic purposes has been discontinued at the Lakeside Hospital location.

Decommissioning investigations do not typically include short-lived nuclear medicine isotopes as ROCs since they will unquestionably decay beyond detection well before the building (or land) is redeveloped. Tc-99m is a gamma-emitter and is readily detectable by the instrumentation used during the FSS. For this reason, surveys were planned appropriately to allow ample decay time between last usage and time of surveys, e.g., Monday morning after a full weekend of decay. Although it is unlikely that short-term continued operation of the nuclear medicine clinic will have any impact on the results of this FSS, it may be prudent to perform a follow-up survey of in these areas once all diagnostic care services at Lakeside Hospital are closed to ensure that the assumptions made during this FSS were appropriate.

2.0 SUMMARY OF FSS ACTIVITIES

2.1 FSS IMPLEMENTATION

The Lakeside Hospital was subdivided into 23 survey units (SUs) over 5 impacted floors. The floors determined to require FSS were the 2nd Sub-Basement, 1st Sub-Basement, 2nd Floor, 7th Floor, and 8th Floor. SUs were classified as MARSSIM Class 1, Class 2, or Class 3 based on information provided in the HSA. Descriptions of each SU are provided in Table 2-1 below. Spatial boundaries of each SU are shown in the FSS SU Maps provided in Appendix A.

All instruments used during this investigation were monitored daily using check sources. Each survey instrument was calibrated using standards traceable to the National Institute of Standards and Technology (NIST). Control charts for each instrument and calibration certificates for the instruments and radioactive sources used during the project can be found in Appendix C.

Table 2-1: SU Breakdown for VA Lakeside Campus FSS

SU Number	Floor	Class	SU Description
LS-01	2SB	2	Location of old incinerator in boiler plant area. SU covers northeast corner of boiler plant.
LS-02	2SB	1	Room 7A. Former radiation safety laboratory. Also former therapy source storage location.
LS-03	2SB	2	Rooms 2SB-04 through -08 plus corridor. Former accelerator, ortho-voltage treatment, and Co-60 teletherapy rooms.
LS-04	2SB	2	Former Simulator Room and adjoining support rooms. Rooms 2SB-09 through -15 plus corridor
LS-05	2SB	1	Room 2SB-02. Sink in janitors closet used for liquid waste disposals to sanitary sewer.
LS-06	1SB	1	Room 1SB-10A. Primary radioactive waste storage room for Lakeside Campus, currently still in use.
LS-07	1SB	1	Room 1SB-13. Historical waste storage room.
LS-08	1SB	1	Room 1SB-12A. Historical waste storage room
LS-09	2	2	Nuclear Medicine imaging rooms, 'hot lab', adjacent hallway, and rooms 255, 256, 259, 259B, and 262. Also Room 206 in northeast corridor.
LS-10	2	3	Remainder of impacted areas on 2nd Floor including coronary care unit, and echo-cardio laboratories.
LS-11	7	2	Room 716D. RIA laboratory.
LS-12	7	2	Room 718
LS-13	7	2	Portion of Room 731 and Room 732. Room 731 was later subdivided into 2 offices. Only the portion nearest to 732 had any record of radioactive material use.
LS-14	7	2	Rooms 734, 734A, and 735
LS-15	7	2	Room 712
LS-16	8	2	Southeast wing of floor. Rooms 817-825 plus corridor.
LS-17	8	3	Historical animal use area. Totally remodeled as building morgue and southwest wing of floor (rooms 829A-838 plus corridor with no original surfaces present.
LS-18	8	2	Northwest wing of floor. Rooms 839-850 plus corridor. Sink in janitors closet (Room 850) suspected as liquid waste disposal site.
LS-19	8	2	Rooms 803, 809, 811, and 813
LS-20	1SB	1	Room 1SB-10A. Added to FSS when it was discovered that radioactive waste was also stored in this room.
LS-21	1SB	1	Room 1SB-16. Former animal waste incinerator found in this room during FSS activities.

According to the MARSSIM design parameters in the FSS Plan, a minimum of 20 fixed-point measurements were taken on floors, work surfaces, walls, and ceilings (Class 1 only) in each SU, either on a systematic triangular grid (Class 1 and 2) or distributed in a random pattern (Class 3).

In addition to the MARSSIM statistical fixed-point measurements, each room or laboratory area within Class 1 and 2 SUs was subdivided into one meter (1-m) grids to aid with scan and smear surveys. Scans in Class 1 SUs included all wall and ceiling surfaces while walls in Class 2 SUs were only surveyed up to a height of 2 meters (m). Class 3 SUs were scanned without the grid pattern due to the reduced coverage requirements prescribed in the WP.

2.2 ESTABLISHMENT OF MATERIAL-SPECIFIC BACKGROUNDS

The Sign test using paired observations was chosen in the FSS Plan to evaluate the results of the fixed-point measurement results. Representative background values to be used in the paired observations were collected in non-impacted areas of the Lakeside Hospital on similar building materials, where available. The average of five (5) 1-minute fixed-point measurements was used for subtraction from each systematic measurement location prior to evaluation using the Sign test. Tables 2-2 and 2-3 provide material specific background values for the 44-94 GM array and 44-110 windowless proportional detectors, respectively.

Table 2-2: Material Specific Background Count Rates for the 44-94 GM Array

Measured Background Count Rates for Various Surfaces in VA Lakeside Hospital Building

All values reported in CPM (Note 1).

		Plaster (PL)	Drywall (DW)	Vinyl Floor Tile (VT)	Synthetic Stone Countertops (SST)	Red Clay Tile (CT)	Gray Porcelain Tile (GT)	Acoustic Ceiling Tile (ACT)	Concrete (C)	Terrazzo Flooring (T)	Other Surfaces (O)[3]
Probe	*Reference Room*[2]	*8th Fl Hall*	*4th FL Hall*	*4th Fl Hall*	*701*	*4th Fl Hall - Near Elevator*	*4th Fl Hall - Near Elevator*	*4th Fl Hall - Near Elevator*	*2SB18*	*1st Floor Lobby*	*1050*
Ludlum 2241 / 44-94	*Mean*	124.4	119.2	122.4	122.0	287.8	332.6	217.4	137.2	120.8	96.6
(Instrument #1)	*Std Dev (cpm, 1 σ)*	17.6	15.3	12.0	19.7	13.1	26.1	11.9	9.4	10.6	10.2
	Std Dev (%, 1 σ)	14.2%	12.8%	9.8%	16.1%	4.5%	7.8%	5.5%	6.9%	8.8%	10.6%

NOTES:

1 CPM values are mean and standard deviation of (5) 1-minute counts with 44-94 probe.

2 Chosen reference rooms are unimpacted rooms with similar building materials as those surveyed.

3 All other surface and structural surfaces not presented in the table were composited into an "Other" category for application in the Summary Data Sheets. Measurements from a wood surface in Room 1050 were chosen as representative background values.

Table 2-3: Material Specific Background Count Rates for the 44-110 Windowless Proportional Counter

Measured Background Count Rates for Various Surfaces in VA Lakeside Hospital Building
All values reported in CPM (Note 1).

		Porcelain Sink (PS)	Synthetic Stone Countertops (SST)	Vinyl Floor Tile (VT)	Stainless Steel (SS)	Glazed Clay / Porcelain Tiles (GT)	Concrete (C)	Other (O)
Probe	*Reference Room*[2]	*405*	*814*	*424*	*616*	*405*	*2SB18*	*2SB18*
Ludlum 2221 / 44-110	*Mean*	631.2	259.6	308.8	338.8	921.8	412.8	124.4
(H-3 Monitor)	*Std Dev (cpm, 1 σ)*	31.7	16.2	6.7	5.6	38.5	19.2	10.8
	Std Dev (%, 1 σ)	5.0%	6.2%	2.2%	1.7%	4.2%	4.7%	8.7%

NOTES:

1 CPM values are mean and standard deviation of (5) 1-minute counts with 44-110 probe.

2 Chosen reference rooms are unimpacted rooms with similar building materials as those surveyed.

3 All other surface and structural surfaces not presented in the table were composited into an "Other" category for application in the Summary Data Sheets. Measurements from a cement ceiling surface in Room 2SB18 were chosen as representative background values.

2.3 INCINERATOR AND STACK INVESTIGATION

In addition to the MARSSIM investigation of interior building surfaces described above, a separate survey of the former animal waste incinerator and effluent exhaust stack was performed to evaluate if these structures were impacted as a result of radioactive materials usage in the Lakeside Hospital. An investigation of the former waste incinerator and effluent exhaust stack was performed on October 11, 2004.

The protocol for the stack investigation was designed in a Technical Memorandum prepared by CABRERA titled, *Evaluation of Survey and Release Methodology for Primary Stack at the VA Lakeside Hospital Building*. This Technical Memorandum is provided as an addendum to the FSS WP provided in Appendix D.

Direct measurements, smears for removable contamination, and debris samples for offsite laboratory analysis were collected to assess the present condition of the stack and incinerator. Smears were prepared and counted locally using the VA LSC used during building FSS activities. Volumetric samples were packaged and sent to an offsite analytical laboratory for H-3 and C-14 LSC analysis and a gamma spectroscopy scan. Results of the investigation are discussed in Section 3.7. Detailed sample analysis data is also provided in Appendix E.

3.0 SUMMARY OF FSS RESULTS

All surface survey data collected in each SU (and individual rooms within each SU) are provided in Appendix B. Data sets for each SU include:

- SU Data Summaries with Sign test evaluation;
- Survey Worksheets for each room within each Class 1 and 2 SU complete with floor and surface scan results;
- Printouts of LSC results for all smears collected during the FSS with cross-reference to grid numbers; and
- A summary sheet with results of all static measurements taken with the windowless proportional counter (maps with locations included).

3.1 SURFACE SCAN SURVEYS

3.1.1 Floor Scan Surveys

Scan surveys of floor surfaces for alpha and beta contamination were performed with a Ludlum Model 239-1F floor monitor in all SUs in accordance with protocol and coverage requirements prescribed in Appendix D. Biased locations were added to the systematic survey grid if an Action Level of 2-times background was exceeded during the scan survey or at the discretion of the scanning operator's professional judgment. Biased fixed-point locations are recorded after the systematic survey locations on the FSS Data Summaries provided in Appendix B. The biased locations were not included in the Sign test assessment.

Two locations were marked as biased locations for follow-up during the floor scan survey. These were found in Room 803 at Grid #15 and in Room 811 at Grid #16. Decontamination and follow-up results are provided in Section 3.6.

3.1.2 Wall and Work Surface Scan Surveys

Wall and work surface scan surveys were performed using a Ludlum model 44-94 four-detector GM array over the coverage criteria stated in the FSS Plan. 100% of work surfaces (e.g., countertops, cabinets, sinks, hoods) were scanned in each Class 1 and 2 SU. These survey results are noted as "Other Surfaces" on the Room Survey Worksheets provided in Appendix B.

Biased locations were added to the systematic survey grid if an Action Level of 2-times background was exceeded during the scan survey or at the discretion of the scanning operator's professional judgment. As with the floor scans, biased locations are recorded after the systematic survey locations on the FSS Data Summaries provided in Appendix B.

Two locations were marked as biased locations for follow-up during scan survey of work surfaces. Both spots were discovered during work surface surveys in Room 813 in Grid numbers 125 and 148. Decontamination and follow-up results are provided in Section 3.6.

3.2 FIXED-POINT SURFACE RADIOACTIVITY MEASUREMENTS

3.2.1 Statistical Fixed-Point Measurements

One-minute static counts were taken with a Ludlum model 44-94 four-detector GM array at all predetermined systematic and subsequent biased locations in each SU and logged on applicable FFS Data Summaries. There were a minimum of 20 static measurements performed in each SU.

The results of all fixed-point measurements are provided in column 6 of the FSS Data Summary Sheets in Appendix B. The results are converted to dpm per 100 cm^2 by subtracting an appropriate material-specific background and applying the C-14 beta efficiency for the 44-94 GM detector and an area correction factor. The C-14 efficiency was used for two reasons: a) it provides a conservative result relative to that produced using a Co-60 efficiency, and b) C-14 was the most likely long-lived ROC to be present.

All fixed-point measurements were found to be below the DCGLw value of 6.94E+03 dpm per 100 cm^2. Therefore, no Sign test evaluations were necessary to satisfactorily reject the Null Hypothesis in the Data Quality Objectives (DQOs) in the WP.

3.2.2 Supplemental Fixed-Point Measurements

In addition to the systematic static measurements described above, judgment sampling for the presence of fixed H-3 was also performed using a Ludlum model 44-110 windowless proportional detector. This detector is operated in 'purge-on-demand' mode, meaning that the detector chamber is filled with P-10 gas prior to each count. One-minute counts were collected in a sampling of SUs to supplement the 44-94 fixed-point measurements and removable smear data. A summary of locations and results of each of these measurements is provided in the 'Windowless Proportional Counter Results' tab in Appendix B.

Of the 119 static measurements collected with the 44-110 detector, one was calculated to be greater than the DCGLw value of 6.94E+03 dpm/100 cm^2 (9.83E+03 dpm/100 cm^2 at Grid #17 in Room 1SB-10A). However, it should be noted that this value is very likely to actually be H-3 based on the LSC data and not Co-60, which the DCGLw represents. When compared to the actual screening DCGLw for H-3 of 1.14E+08 dpm/100 cm^2, it is clear that this location does not require additional decontamination to satisfy the DQO's presented in the FSS Plan.

3.3 SMEAR SAMPLE COLLECTION AND ANALYSIS

Dry smears were collected within each one-meter grid position and at all biased and/or decontaminated SU locations. All smears were prepared in 20 milliliter glass vials and counted in a Packard Tri-Carb U1600 liquid scintillation counter (LSC) for beta contamination. The U1600 LSC was equipped with automatic external quench standard efficiency correction, luminescence correction, dual-label DPM calculations, and automatic background subtraction.

Each scintillation vial was filled with 10 ml of cocktail to increase elution into the fluid for enhanced counting efficiency. H-3, C-14, and gross beta contamination were reported by applying quench-corrected efficiencies using calibration standards traceable to the National

Institute of Standards and Technology (NIST). Calibration information for the LSC and associated standards are provided in Appendix C.

The results of all smear surveys in the Class 1 and 2 SUs are provided in the 'LSC Results' tab in Appendix B. The location of each smear is recorded in the right margin of each LSC printout and is cross-referenced to the grid numbers provided in the Room Survey Worksheets. Smears were not collected in the Class 3 SUs. The LSC printouts report H-3 activity in Region A, C-14 in Region B, and all other beta emitters with energy greater than C-14 in Region C.

If any smear result returned an activity level greater than 100 dpm/100 cm^2 in either the H-3 or C-14 window, the area was investigated for possible decontamination. If an area was decontaminated, a biased fixed-point location was added to the SU Data Summary with measurements performed with both the 44-94 and 44-110 probes. Each area was also re-smeared post-decon as confirmation that any residual removable contamination was removed to background levels.

3.4 GAMMA EXPOSURE RATE MEASUREMENTS

General area gamma exposure rate measurements were collected within each impacted room during the FSS. Exposure rates were taken at an approximate height of one meter above the floor using a Ludlum model 44-38 energy compensated GM-tube connected to a Model 3 survey meter. Recorded exposure rates are provided in each survey worksheet data packet in Appendix B.

All exposure rates within the Lakeside Hospital were consistently measured to be between 5 – 30 micro-Roentgen per hour (μR/hr).

3.5 MECHANICAL SYSTEMS SURVEYS

In addition to the smears collected in grid and biased locations prescribed in the FSS Plan, smears and cotton swabs were also collected from sinks, vacuum lines, hoods, and floor drains in all impacted areas of the Lakeside Hospital. Sink and floor drain smears/swabs were taken from within the drain piping or trap to investigate the potential for residual contamination from wastes disposed in the past. Vacuum lines were investigated to determine if radioactive materials may have been inadvertently suctioned out of experimental glassware into the building's system piping.
Specific areas of concern identified in HSA included:

- Sink and drain piping in Room 2SB-05. This sink may have been used in the past for liquid radioactive waste disposal to the sanitary sewer system.
- Two floor drains in 1SB-10A Waste Room.
- Sink and drain piping in Room 850. This sink may have been used in the past for liquid radioactive waste disposal to the sanitary sewer system.

The results of the numerous smear/swab samples taken from installed systems revealed only a one positive result for either H-3 of C-14 contamination. A swab taken from within the house vacuum system inlet in Room 813 (sample #167) showed 231 dpm removable H-3. The nipple/valve assembly and a short length of piping were removed and discarded as radioactive

waste. Surveys of the vacuum lines upstream of the removed components were negative for residual radioactive contamination (see 'LSC Results' tab in Appendix B for counter printout), showing that decontamination activities were effective.

The floor drains in 1SB-10A contained a substantial amount of dirt and built-up in the trap. Samples were collected at the bottom of the trap. Given the amount of available debris, solid material samples were also collected for analysis by the offsite laboratory. These samples were sent in the same lot as those collected during the incinerator/stack investigation. The samples collected are shown in Table 3-1.

Table 3-1. List of Floor Drain Debris Samples Sent to Offsite Analytical Laboratory

Sample ID	Sample Date	Location	Matrix
1SB10A-FD1	8/10/04	Floor Drain in Center of Room	Sludge/Debris
1SB10A-FD2	8/10/04	Floor Drain near West Wall	Sludge/Debris

These samples were analyzed for H-3, C-14, and gamma isotopes. A summary of the results are shown in Table 3-2. Analytical reports from the offsite laboratory are provided in Appendix E.

Table 3-2. Offsite Lab Results of 1SB-10A Floor Drain Samples

Sample ID	Sample Date	H-3 Result (pCi/g ± 2σ)	C-14 Result (pCi/g ± 2σ)	Gamma Scan Result
	MDC[1]	*~7*	*~4.6*	*various*
1SB10A-FD1	8/10/04	3.1 ± 4.3	1.5 ± 2.8	ND
1SB10A-FD2	8/10/04	98 ± 16	2.4 ± 2.9	ND

ND = None Detected.

1. Stated MDCs in the table are approximate sample values based on the reported results in Appendix E. Actual MDC values fluctuate from sample to sample

The H-3 result from the 1SB10A-FD2 debris sample shows evidence of residual H-3 contamination (98 ± 16 pCi/g). This indicates that the floor drain either was used for sanitary sewer disposals or that the floor drain received H-3 contaminated waste water that was spilled during waste handling. It should be noted that all smears for removable contamination on the floor and in the drain areas were negative for removable H-3. The presence of H-3 in the drain sludge could also be indicative of concentrating throughout the years.

3.6 DECONTAMINATION ACTIVITIES

Minor decontamination efforts were required in rooms where either scans or smear surveys discovered residual contamination above the stated action level. Decontamination involved wiping the affected areas with towels after applying cleaning agents and minor wet sanding/scraping in areas where fixed contamination was encountered. After decontamination, each area was designated as a biased location and surveyed with the 44-94 probe and had a smear taken for removable contamination. Decontamination efforts were repeated until each spot exhibited levels equal to or close to background. A summary of all areas requiring decontamination is provided in Table 3-3.

Table 3-3: Summary of Biased Surfaces Requiring Decontamination During FSS

		Initial Measurements			Post-Decon Measurements		
Room	Grid Position	Date	44-94 CPM	Smear Result H-3/C-14 (dpm/100cm^2)	Date	44-94 CPM	Smear Result H-3/C-14 (dpm/100cm^2)
803	15	6/10/04	5700	170.9 / 404.0	7/30/04	155	0.0 / 3.4
811	16	7/2/04	912	0.0 / 0.0	7/30/04	134	N/A
813	125	6/16/04	501	0.0 / 1.9	7/30/04	122	N/A
813	148	6/16/04	8040	0.0 / 0.0	7/30/04	162	N/A

Notes: 1. All direct measurements taken with 2224/44-94 combination SN 203640/PR198969 (instrument #1).
2. No smear taken post decon if initial smear results were negative for H-3 & C-14.

3.7 RESULTS OF INCINERATOR/STACK INVESTIGATION

3.7.1 Hospital Stack Measurements and Samples

The effluent exhaust stack was evaluated by performing surveys both at the base of the structure and at the top of the stack chimney. The cleanout area was surveyed and sampled because it is designed as a settling area for ash and debris that was not completely incinerated in the burn chambers.

The interior of the stack was readily accessible through a cleanout door located in the 2nd sub-basement boiler room area. The shape of the chimney was cylindrical with a diameter of approximately 8 feet. The interior of the stack was found to be constructed of brick and mortar without a stainless steel liner, as previously postulated in the HSA. The survey and sampling efforts in the base of the stack are shown in Figure 3-1. Respiratory protection was worn during the stack investigation since the exhaust fans remained on, causing significant amounts of ash to remain airborne.



Figure 3-1. Sampling of Stack Cleanout

Samples and measurements were also collected from the top of stack chimney accessed from the roof of the Lakeside Hospital building. Scaffolding and fall protection were utilized to aid in collection of samples and direct measurements. Smears and direct measurements were taken all along the top and interior surfaces of the chimney. Smears were also collected from within the stack interior through use of an extension pole shown in Figure 3-2. A sample of gravel from the roof of the Lakeside Hospital was also collected for offsite laboratory analysis to test for close surface deposition potential of exhausted radioactive particulates from the stack.



Figure 3-2. Measurements and Sampling at Top of Hospital Stack

In total, 31 smears and 8 ash/debris samples were collected from the cleanout area of the stack and the roof. The debris samples included loose ash and unburned debris shown in the photos, scrapings from the interior walls of the stack, and roof gravel. A listing of the ash and scraping samples from the interior of the stack are shown in Table 3-4.

Table 3-4. Samples Collected from Stack Chimney for Offsite Laboratory Analysis

Sample ID	Sample Date	Location	Matrix
ST-1	10/11/04	Cleanout Floor – East	Ash
ST-2	10/11/04	Cleanout Floor – South	Ash
ST-3	10/11/04	Cleanout Floor – West	Ash
ST-4	10/11/04	Cleanout Floor – North	Ash
ST-5	10/11/04	Cleanout Floor – Center	Ash
ST-6	10/11/04	Stack Base – East & South Walls	Ash & Loose Debris in Mortar Cracks
ST-7	10/11/04	Stack Base – All Walls	Scrapings of Deposited Ash and Carbon Residues
ST-8	10/11/04	Roof	Surface Roof Gravel

All smears and volumetric samples were shown to be less than or equal to the method minimum detectable concentration (MDC). The LSC printout and results packages from the analytical laboratory are provided in Appendix E.

All accessible structural surfaces were also surveyed with the 44-94 GM probe and a 2x2 NaI gamma probe. All measurements were found to be consistent with background levels for the materials in question. Scan results are shown in Table 3-5. The NaI probe was used to identify any potential gamma sources that could have been placed into the incinerator but not totally exhausted up the stack. No abnormal gamma readings were observed during the investigation.

Table 3-5. Summary of Stack/Chimney GM Scanning Measurements

Location	Detector	Gross Reading (cpm)	Material
Stack Cleanout - Walls	44-94 GM	415 – 510	Fire Brick
Stack Cleanout – Floor		380 – 30	Ash-covered Brick & Concrete
Chimney Top		230 – 330	Concrete/Mortar
Stack Cleanout Area	44-10 2x2 NaI	7,000 – 8,000	Ambient Background
		9,000 – 11,000	Fire Brick
Chimney Top Area		7,600 – 8,600	Concrete/Mortar
		15,000 – 17,000	Fire Brick

Notes: 1. Surface emission background values for fire brick were obtained from walls of similar structural material found in the 2nd sub-basement level. Representative 44-94 response to fire brick was found to consistently be 450-500 cpm.

3.7.2 Incinerator Sampling

The location of the former Lakeside Hospital waste incinerator was found in room 1SB-16 of the Lakeside Hospital during execution of the FSS. This incinerator was used for all hospital waste materials, including general hospital trash, radioactive wastes, and animal carcasses. This incinerator was confirmed to be in addition to the one discovered during research for the HSA, formerly located in the boiler area of the 2nd sub-basement incinerator. The incinerator found in 1SB-16 is shown in Figure 3-3.



Figure 3-3. Former Waste Incinerator Found in Room 1SB-16.

The incinerator contained a central burn chamber located at the top right of the photograph with 5 cleanout access doors, also open. A system design drawing of the incinerator with a sectional view of the flow path to the hospital chimney is shown in Figure 3-4. Ash samples were collected from each of the cleanout doors using the collection procedure shown in Figure 3-5. A sample jar was attached to an extension pole to gain access to the rear portions of the burn chamber and cleanout areas. A list of samples collected from the incinerator is provided in Table 3-6.

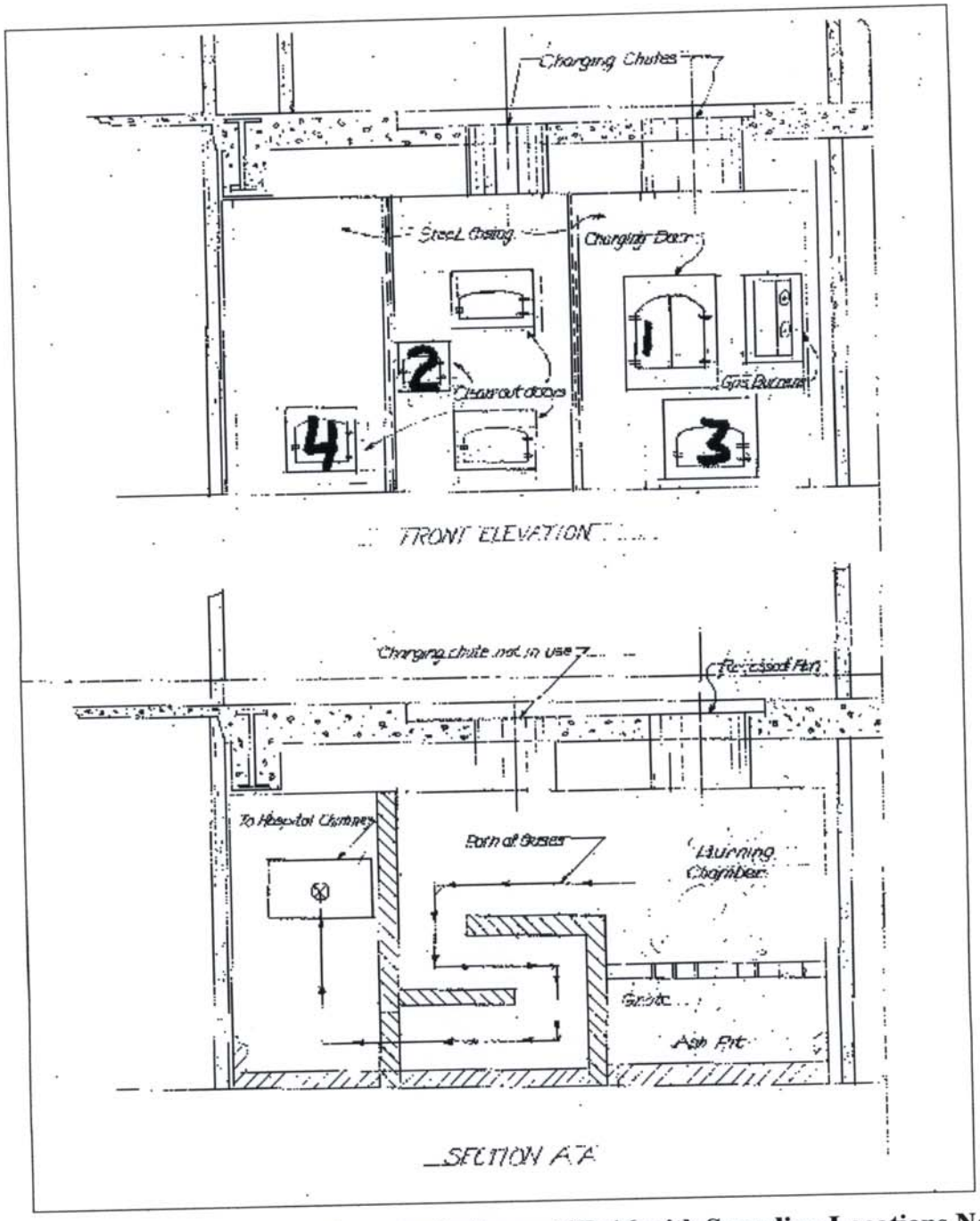


Figure 3-4. Diagram of Incinerator in Room 1SB-16 with Sampling Locations Noted.

Table 3-6. Samples Collected from 1SB-16 Incinerator for Offsite Laboratory Analysis

Sample ID	Sample Date	Location	Matrix
INC-1	10/11/04	Charging Door	Ash
INC -2	10/11/04	Middle Cleanout Door	Ash
INC -3	10/11/04	Cleanout Door Below Burning Chamber	Ash
INC -4	10/11/04	Lower Left Final Stage Cleanout Door	Ash

All samples were shown to be less than or equal to the method minimum detectable concentration (MDC). The results packages from the analytical laboratory are provided in Appendix E. FSS data for Room 1SB-16 is provided in Appendix B as SU LS-21.



Figure 3-5. Incinerator Sample Collection Procedure at Door #3.

4.0 INSTRUMENT QUALITY ASSURANCE / QUALITY CONTROL

The following survey and stationary instruments were used during the Lakeside Hospital FSS:

Instrument 1
Meter: Ludlum 2241, S.No. 203640
Detector: Ludlum 44-94, S.No. PR198969

Instrument 2a (Meter 2, Detector 1)
Meter: Ludlum 2241-3, S.No. 200101
Detector: Ludlum 44-94, S.No. PR198966

Instrument 2b (Meter 2, Detector 2)
Meter: Ludlum 2241-3, S.No. 200101
Detector: Ludlum 44-9, S.No. PR209886

Instrument 3
Meter: Ludlum 3, S.No. 113439
Detector: Ludlum 44-38, S.No. PR113108

Instrument 4
Meter: Ludlum 14C, S. No. 113052
Detector: Ludlum 44-38, S.No. PR190331

Floor Monitor
Model 239-1F, S.No. 190318
Meter: Ludlum 2241 S.No. 203519
Detector: Ludlum 43-37 S.No. PR190331

Tritium Monitor
Meter: Ludlum 21211 S.No. 176947
Detector: Ludlum 44-110 S.No. PR178079

Liquid Scintillation Counter
Packard Tri-Carb Model U1600 S. No. 414354

4.1 INSTRUMENT CALIBRATION

All instruments used during the course of the survey were in current calibration traceable to the NIST. Copies of all vendor instrument calibration certificates are provided in Appendix C. The VA's Radiation Safety Staff also generated efficiencies for C-14, Cl-36, and Na-22 using NIST-traceable sources. Copies of the calibration certificates for these sources are also provided Appendix C.

4.2 QUALITY CONTROL TRACKING

Quality Control (QC) measurements were performed on all deployed field instruments each day, at a minimum frequency of before and after each use. A controlled area was used to perform these checks. The QC investigation levels for count rate instruments used during the FSS were ±2-sigma (2σ) for check source measurements and $\pm 3\sigma$ for background. Exposure rate instruments were evaluated using a qualitative ±20% against the indicated check source response on the meter. If any single measurement were found to be outside of its investigation level, the measurement was repeated. If the second count was also found to be outside of this criterion, the instrument was investigated to assess if any external biases or instrument physical damage was present. If response checks were found to be outside of $\pm 3\sigma$, the instrument was taken out of service unless evaluated and approved by the Radiation Safety Officer. Control charts for check source response, background count rates (where applicable), and copies of the daily check source logs for all instruments are provided in Appendix C.

The LSC was also checked daily using NIST-traceable sources and standard background vials. LSC counting efficiencies for H-3 and C-14 were confirmed prior to each sample set being loaded. These results are provided as the first 4 vial counts on each LSC printout provided in

Appendix B. The first vial is a VA-prepared background vial containing the same Ultima Gold scintillation cocktail used for all FSS activities, the second vial represents a H-3 standard, the third represents a C-14 standard, and the fourth is the vendor-supplied background vial (toluene-based background standard).

5.0 DISCUSSION OF RESULTS

A FSS consisting of 21 MARSSIM SUs was performed in the Lakeside Hospital Building, part of the VA Chicago Lakeside Campus. The FSS Plan was designed and implemented in accordance with the MARSSIM manual. All SUs were surveyed using instrumentation and techniques appropriate for the ROCs identified in the WP and its MARSSIM classification. The Lakeside Hospital is slated for redevelopment pending successful completion of FSS activities and release from the VA's NRC radioactive Master Materials License.

All systematically placed survey locations were observed to be less than the prescribed DCGLw for the FSS. Therefore, a Sign test evaluation of the data was not required.

A total of four surface locations were identified during scan surveys that required follow-up. All locations were decontaminated to near background levels in accordance with the VA's ALARA philosophy. This was confirmed via static and smear survey measurements taken after decontamination procedures were completed.

A volumetric sample of sludge and debris from a floor drain in Room 1SB-10A was shown to have 98 pCi/g H-3 contamination. Samples were collected at the bottom of the drain pipe elbow junction, as the drain pipe transitioned from vertical to horizontal travel below the floor. No samples downstream of the floor drain location were sampled. The presence of H-3 in a floor drain like this one is not unexpected, given that Room 1SB-10A was specifically used for liquid radioactive waste storage and since the VA was licensed to dispose up to curie levels of H-3 per year to the sanitary sewer. However, since the Lakeside Hospital is slated for redevelopment and the potential for complete demolition exists, follow-up samples from this floor drain piping would be prudent, particularly downstream of the first sample at or near the junction with the main sanitary sewer tie-in line.

An investigation of the former animal waste incinerator and main hospital exhaust stack was also completed as part of the FSS effort. All surface measurements, smears, and volumetric samples collected during this investigation were found to be consistent with background levels with no evidence of residual radioactive contamination.

The results of this FSS show that the current condition of the Lakeside Hospital satisfactorily meets the NRC criteria for license termination, making it suitable for release for unrestricted use.

6.0 REFERENCES

(CABRERA 2004) *Final Status Survey Report – VA Chicago Lakeside Campus, Medical Sciences Building.* Cabrera Services, Inc., September 9, 2004.

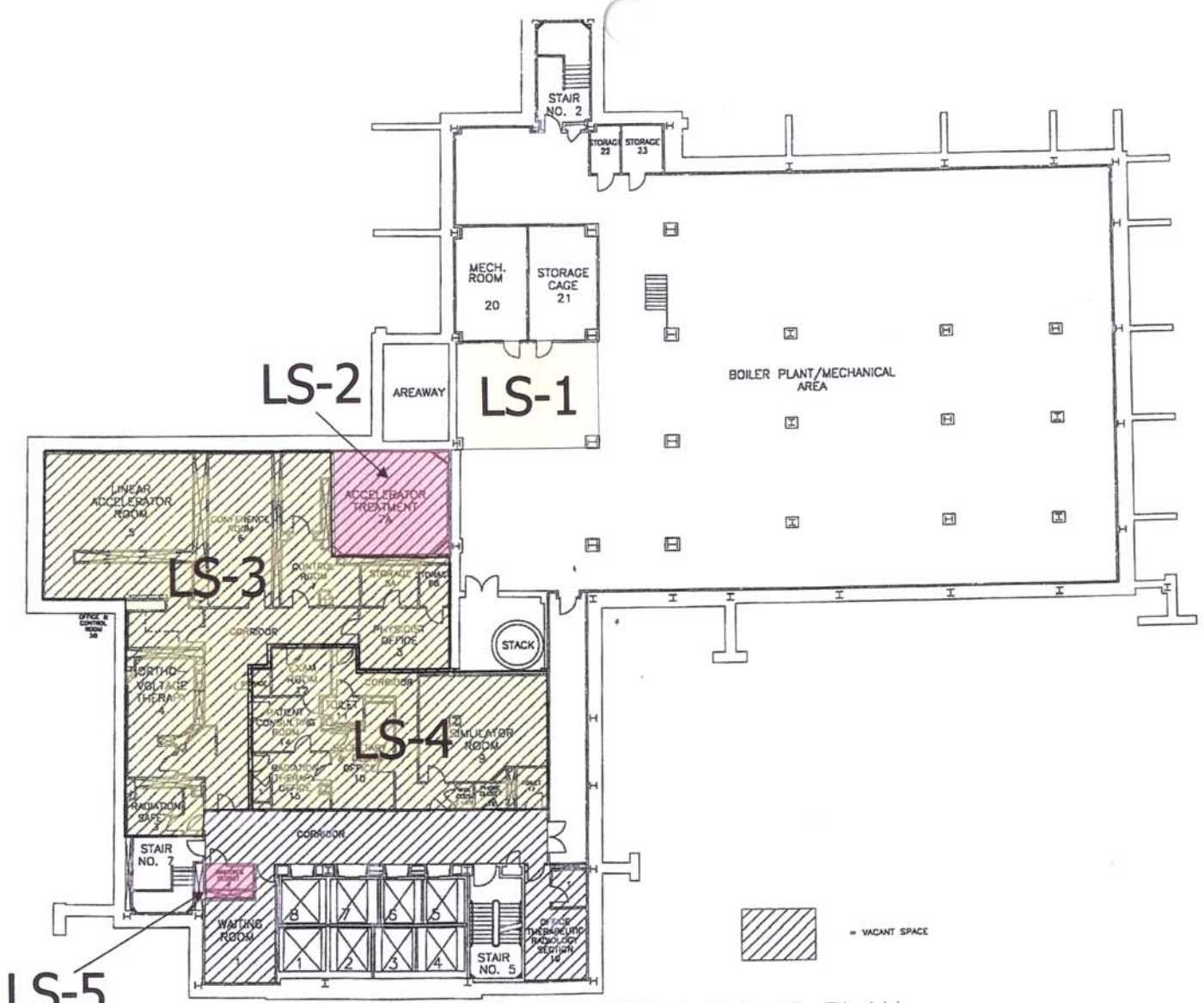
(NRC, 1998) NUREG-1505, Rev.1, *A Nonparametric Statistical Methodology for the Design and Analysis of Final Status Decommissioning Surveys*, U.S. Nuclear Regulatory Commission, June 1998.

(NRC, 1999) NUREG/CR-5512, Vol.3, Residual Radioactive Contamination from Decommissioning – Parameter Analysis, U.S. Nuclear Regulatory Commission, October, 1999.

(NRC, 2000) NUREG-1575, Rev. 1, *Multi-Agency Radiation Survey and Site Investigation Manual* (MARSSIM), U.S. Environmental Protection Agency, August 2000.

(NRC, 2002) NUREG-1757, Consolidated NMSS Decommissioning Guidance, U.S. Nuclear Regulatory Commission, August 2002.

APPENDIX A
Lakeside Hospital Final Status Survey Maps



2ND SUB-BASEMENT FLOOR PLAN

SCALE: 1" = 20'

CABRERA SERVICES

VA Chicago - Lakeside Campus Final Status Survey
Lakeside Hospital Building

TITLE

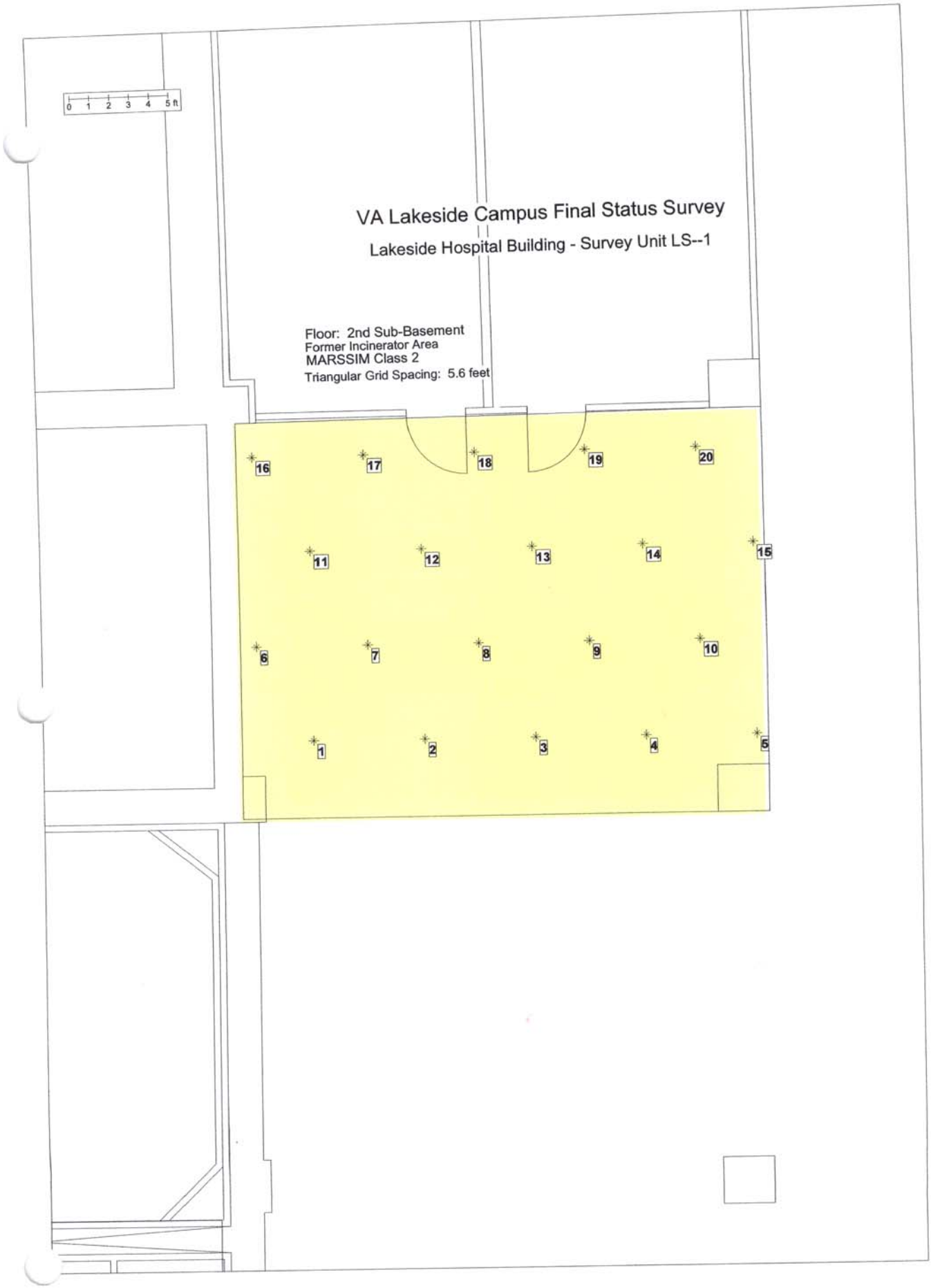
2nd Sub-Basement Level Survey Units

Legend:

1. Shaded Areas indicate boundaries of SU
2. SU numbers shown as XX-Y

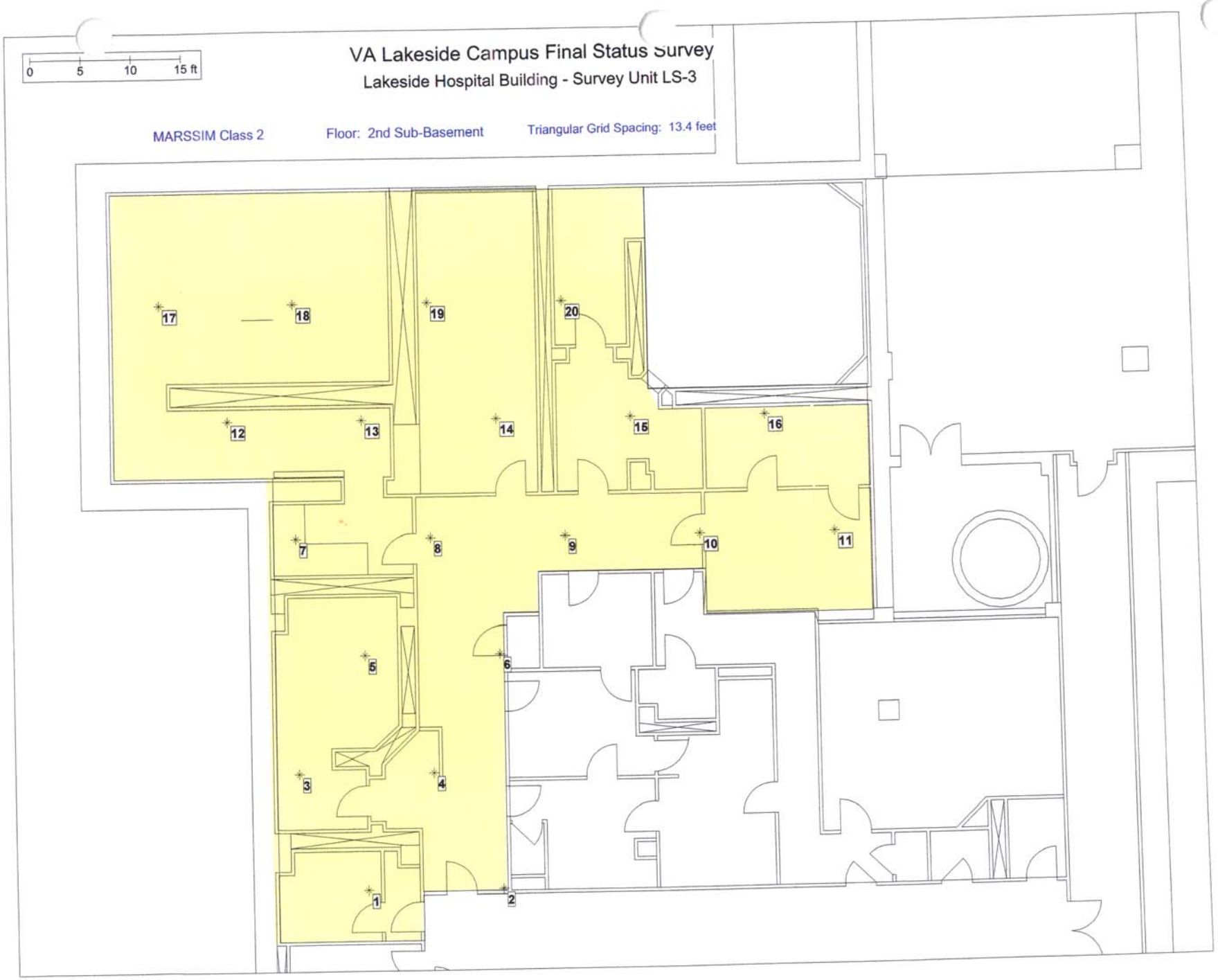
Pink = MARSSIM Class 1
Yellow = MARSSIM Class 2
Green = MARSSIM Class 3

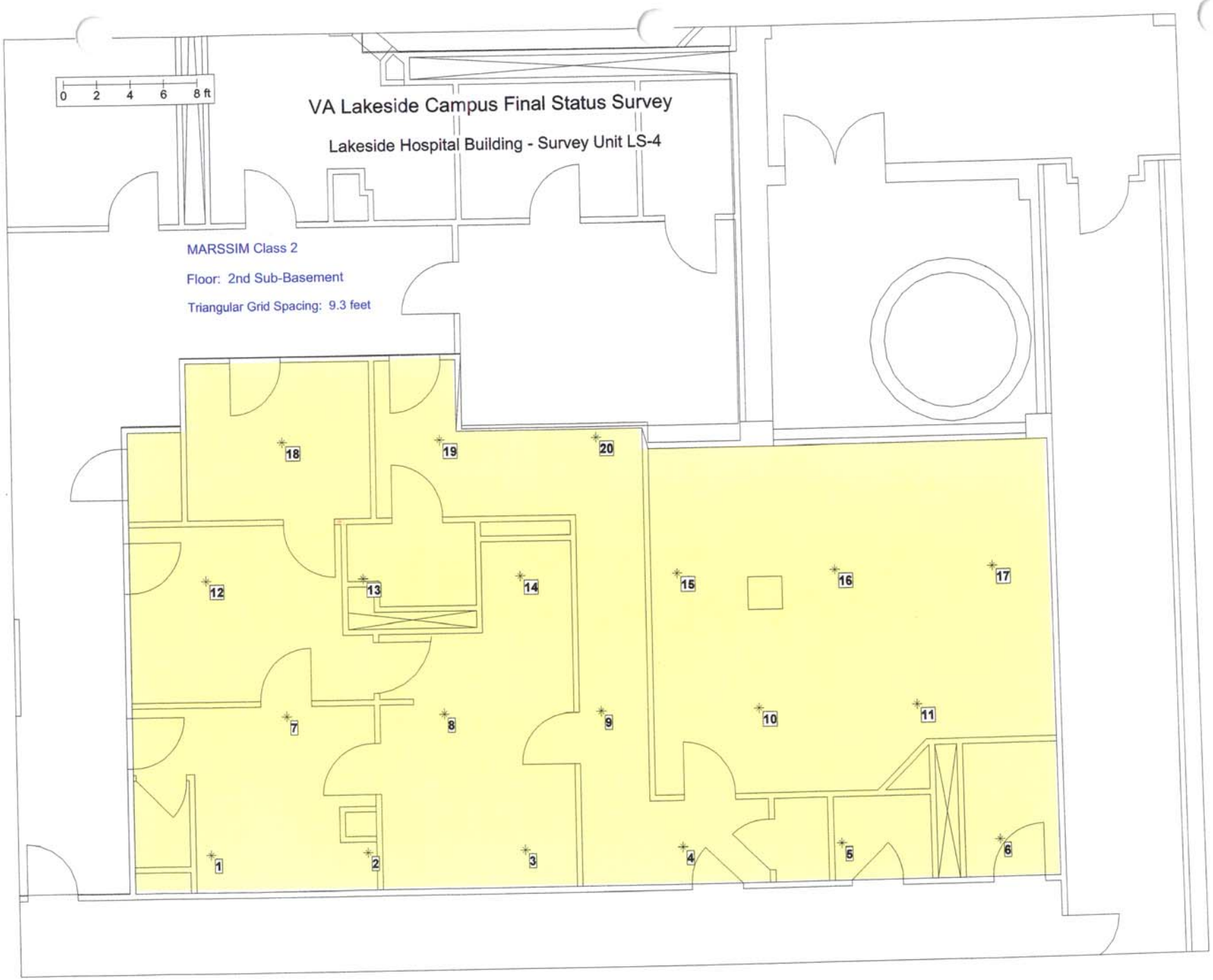
Drawn by: JJW Date: 7/6/04

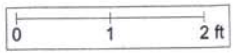

0 1 2 3 4 5 ft
VA Lakeside Campus Final Status Survey
Lakeside Hospital Building - Survey Unit LS--1
Floor: 2nd Sub-Basement
Former Incinerator Area
MARSSIM Class 2
Triangular Grid Spacing: 5.6 feet
16
17
18
19
20
11
12
13
14
15
6
7
8
9
10
1
2
3
4
5


0 2 4 6 8 ft
VA Lakeside Campus Final Status Survey
Lakeside Hospital Building - Survey Unit LS-2
16
16
14
12
13
17
18
7
8
9
10
11
19
20
3
4
5
6
1
2
MARSSIM Class 1
Floor: 2nd Sub-Basement
Triangular Grid Spacing: 9.4 feet
See Unfolded Room Map for Wall & Ceiling Sample Locations


19
20
Ceiling
17
18
15
16
14
12
13
Door
7
8
9
10
11
Floor
3
4
5
6
1
2


0 5 10 15 ft
VA Lakeside Campus Final Status Survey
Lakeside Hospital Building - Survey Unit LS-3
MARSSIM Class 2
Floor: 2nd Sub-Basement
Triangular Grid Spacing: 13.4 feet
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20


0 2 4 6 8 ft
VA Lakeside Campus Final Status Survey
Lakeside Hospital Building - Survey Unit LS-4
MARSSIM Class 2
Floor: 2nd Sub-Basement
Triangular Grid Spacing: 9.3 feet
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20



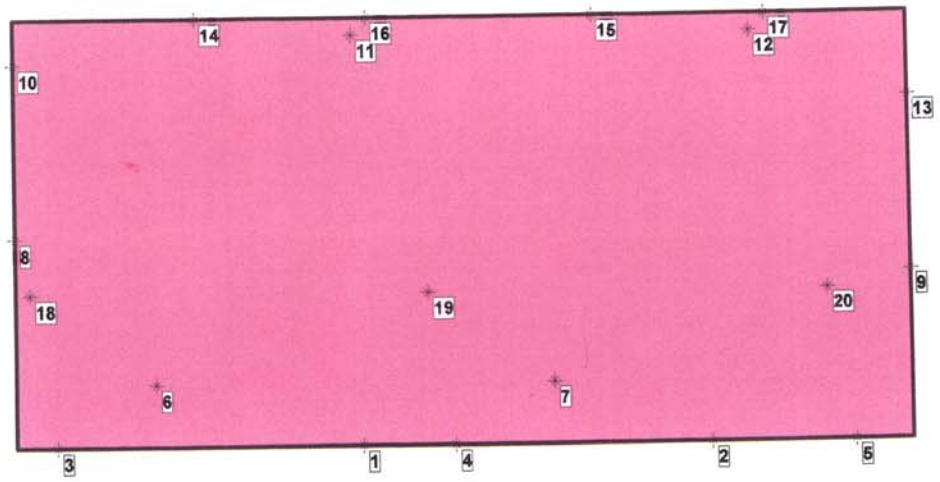
VA Chicago Lakeside Campus - Final Status Survey

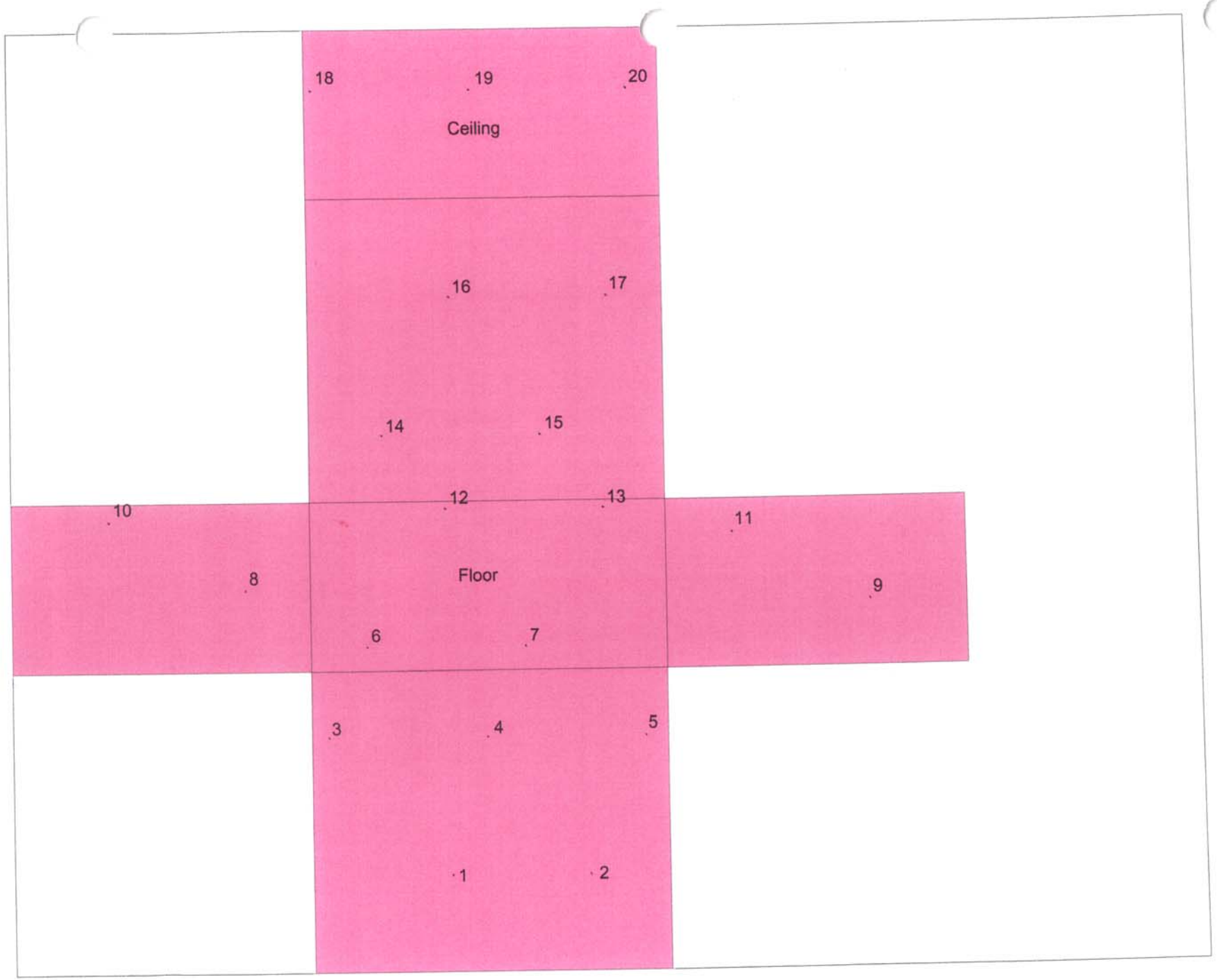
Lakeside Hospital Building - Survey Unit LS-5

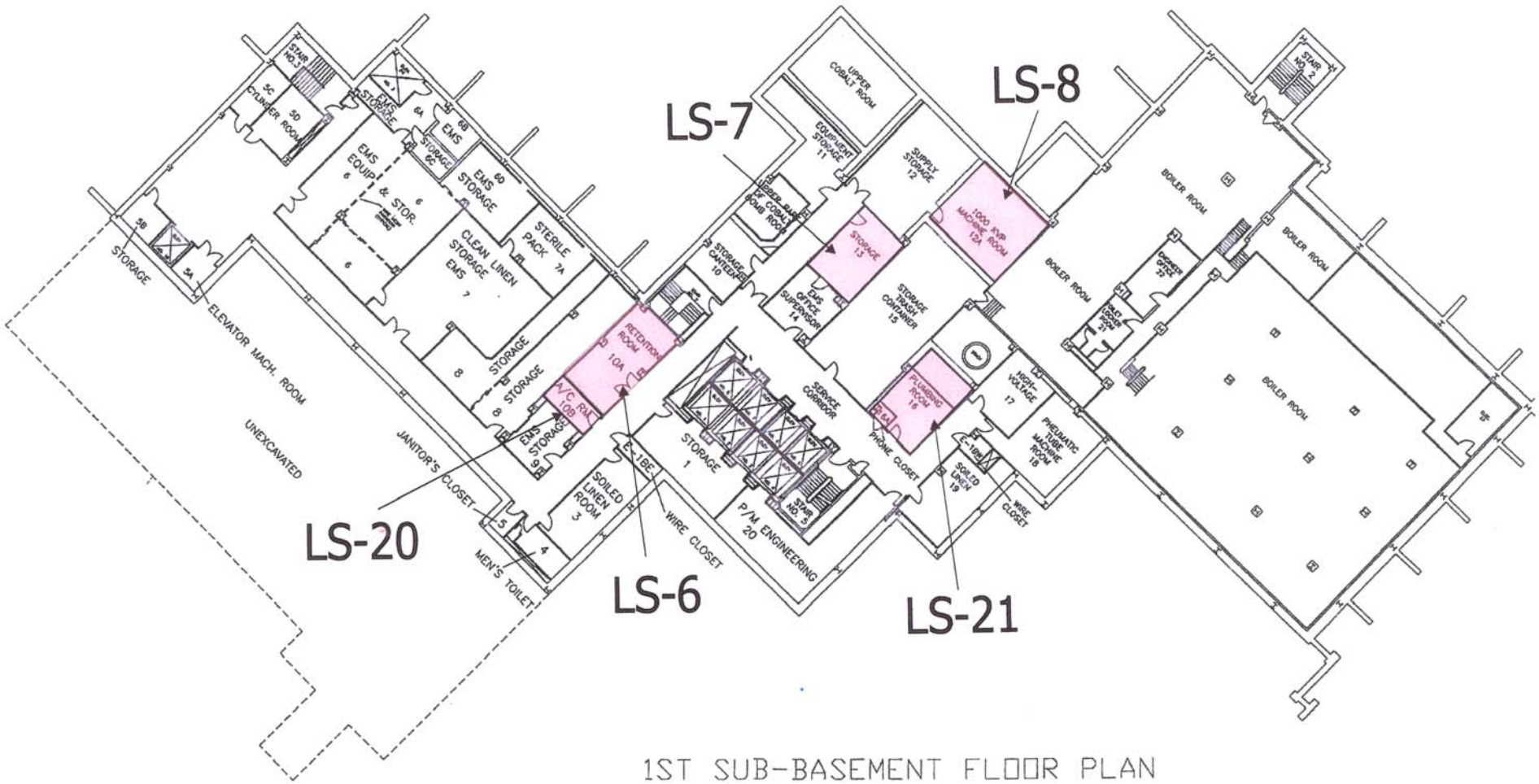
Room 2SB-02

MARSSIM Class 1
Floor: 2nd Sub-Basement
Triangular Grid Spacing: 4.2 feet

See Unfolded Room Layout for Wall & Ceiling Locations




18
19
20
Ceiling
16
17
14
15
10
12
13
11
8
Floor
9
6
7
3
4
5
1
2



1ST SUB-BASEMENT FLOOR PLAN

SCALE: 1" = 25'

CABRERA SERVICES

VA Chicago - Lakeside Campus Final Status Survey
Lakeside Hospital Building

TITLE
1st Sub-Basement Level Survey Units

Legend:

1. Shaded Areas indicate boundaries of SU
2. SU numbers shown as XX-Y

Pink = MARSSIM Class 1
Yellow = MARSSIM Class 2
Green = MARSSIM Class 3

Drawn by: JJW Date: 7/6/04

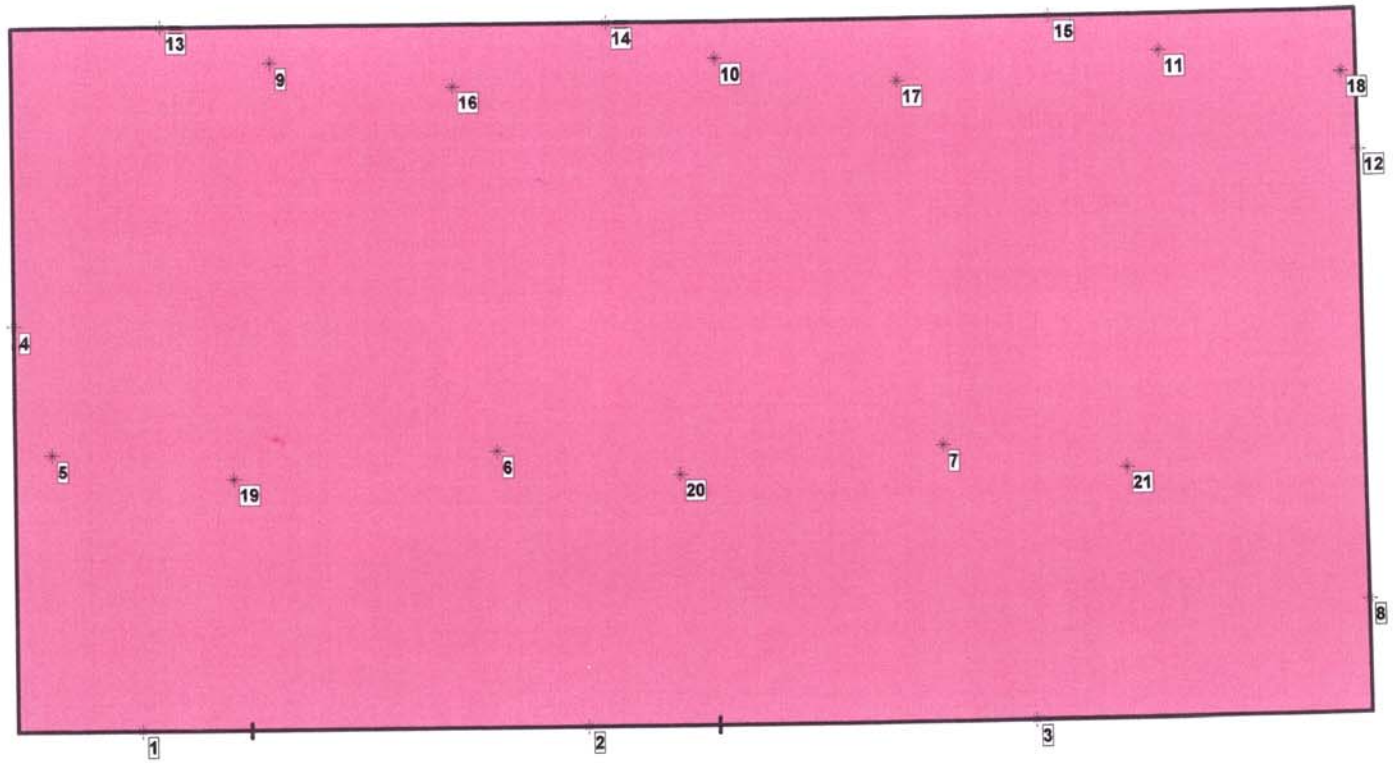
VA Chicago Lakeside Campus - Final Status Survey

Lakeside Hospital Building - Survey Unit LS-6

1st Sub-Basement Level - Room 10A

MARSSIM Class 1

Triangular Grid Spacing - 9.3 feet over floor, walls, & ceiling



See Attached Room Layout for Point Locations on Walls & Ceiling

Survey Unit: LS-6 – 1st Sub-Basement, Room 10A



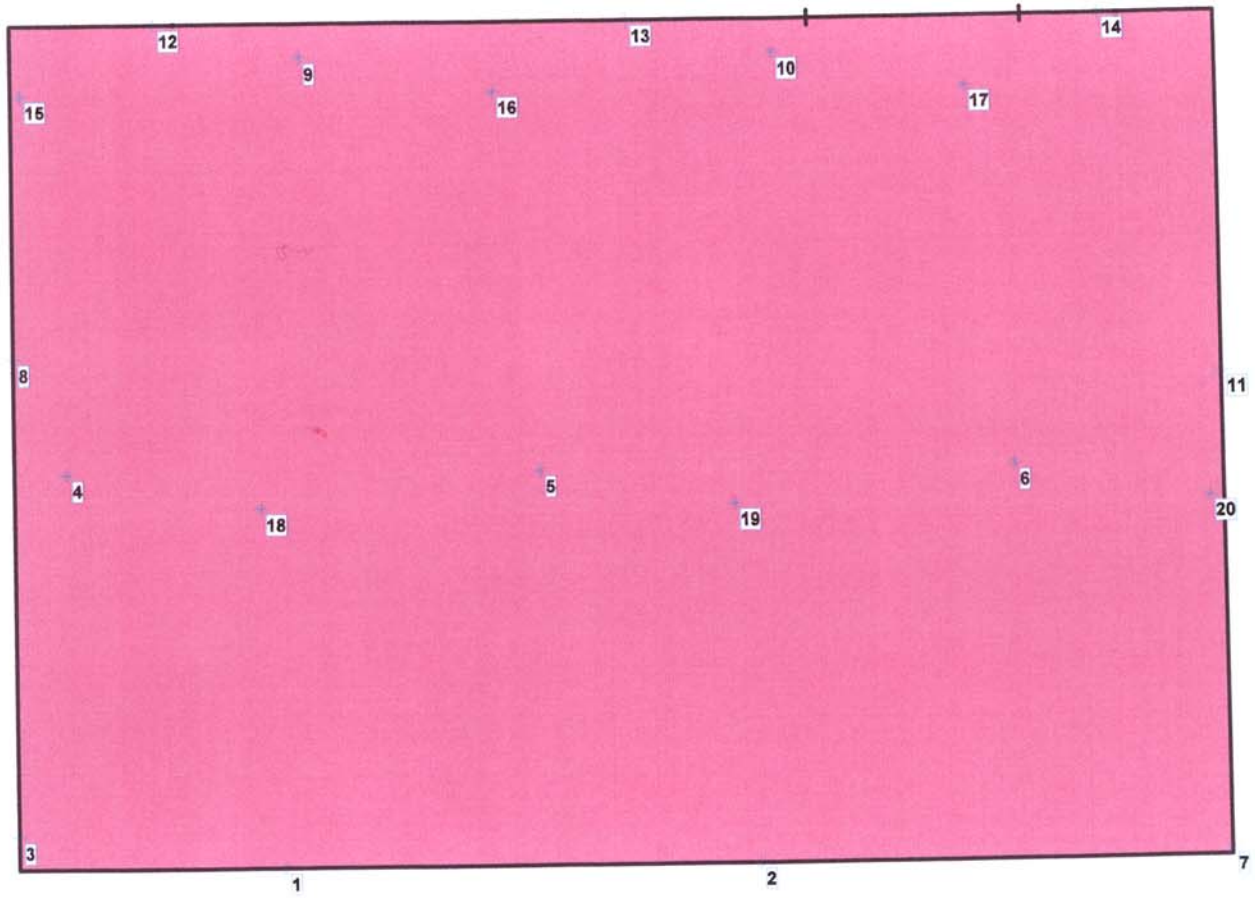
VA Chicago Lakeside Campus - Final Status Survey

Lakeside Hospital Building - Survey Unit LS-7

1st Sub-Basement Level - Room 13

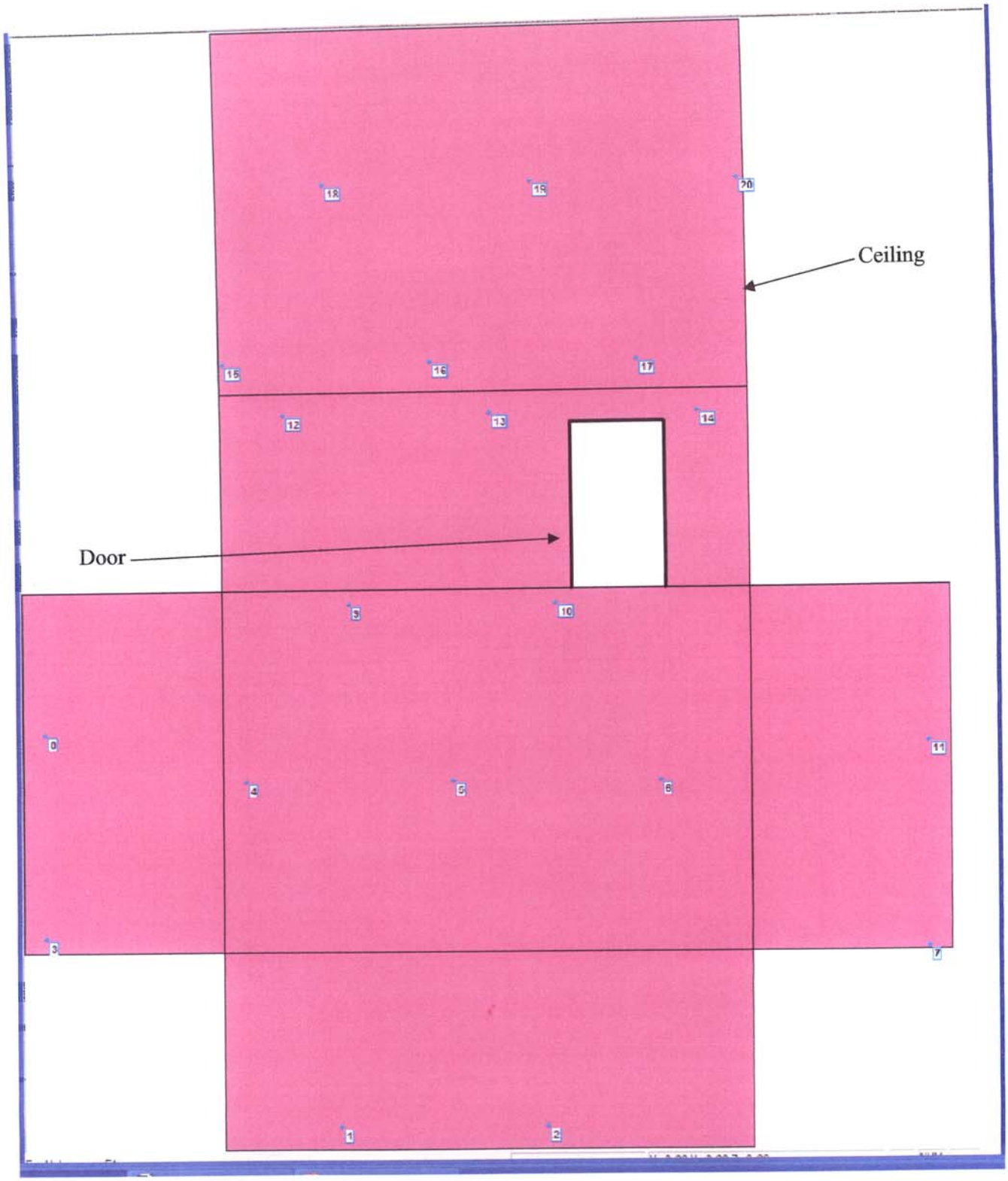
MARSSIM Class 1

Triangular Grid Spacing - 8.3 feet over floor, walls, & ceiling



See Attached Room Layout for Point Locations on Walls & Ceiling

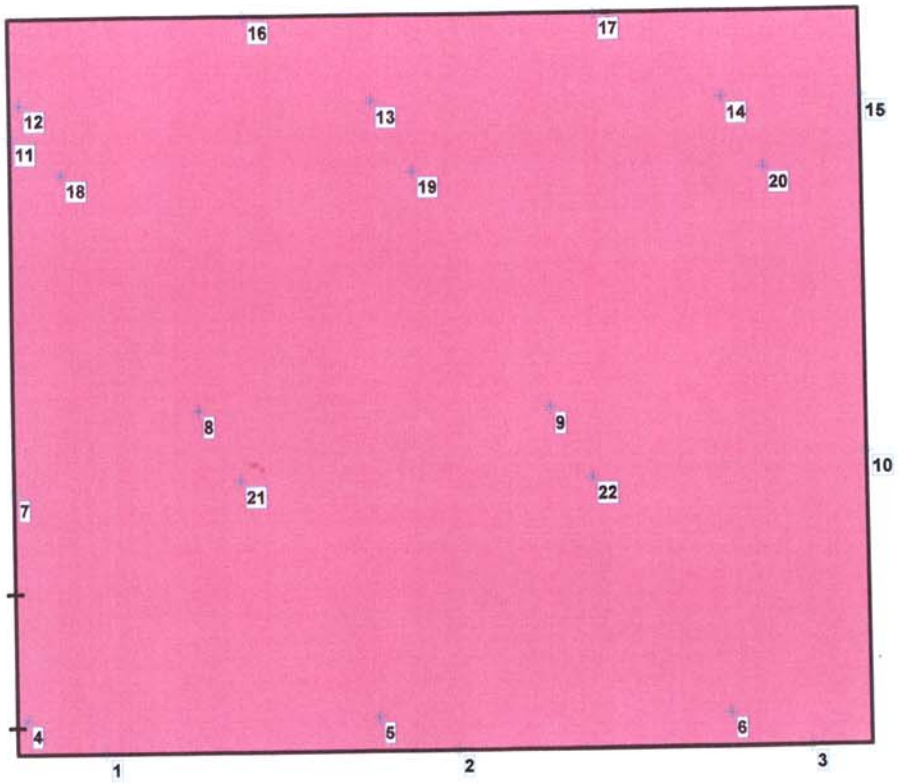
Survey Unit: LS-7 – 1st Sub-Basement, Room 13



VA Chicago Lakeside Campus - Final Status Survey

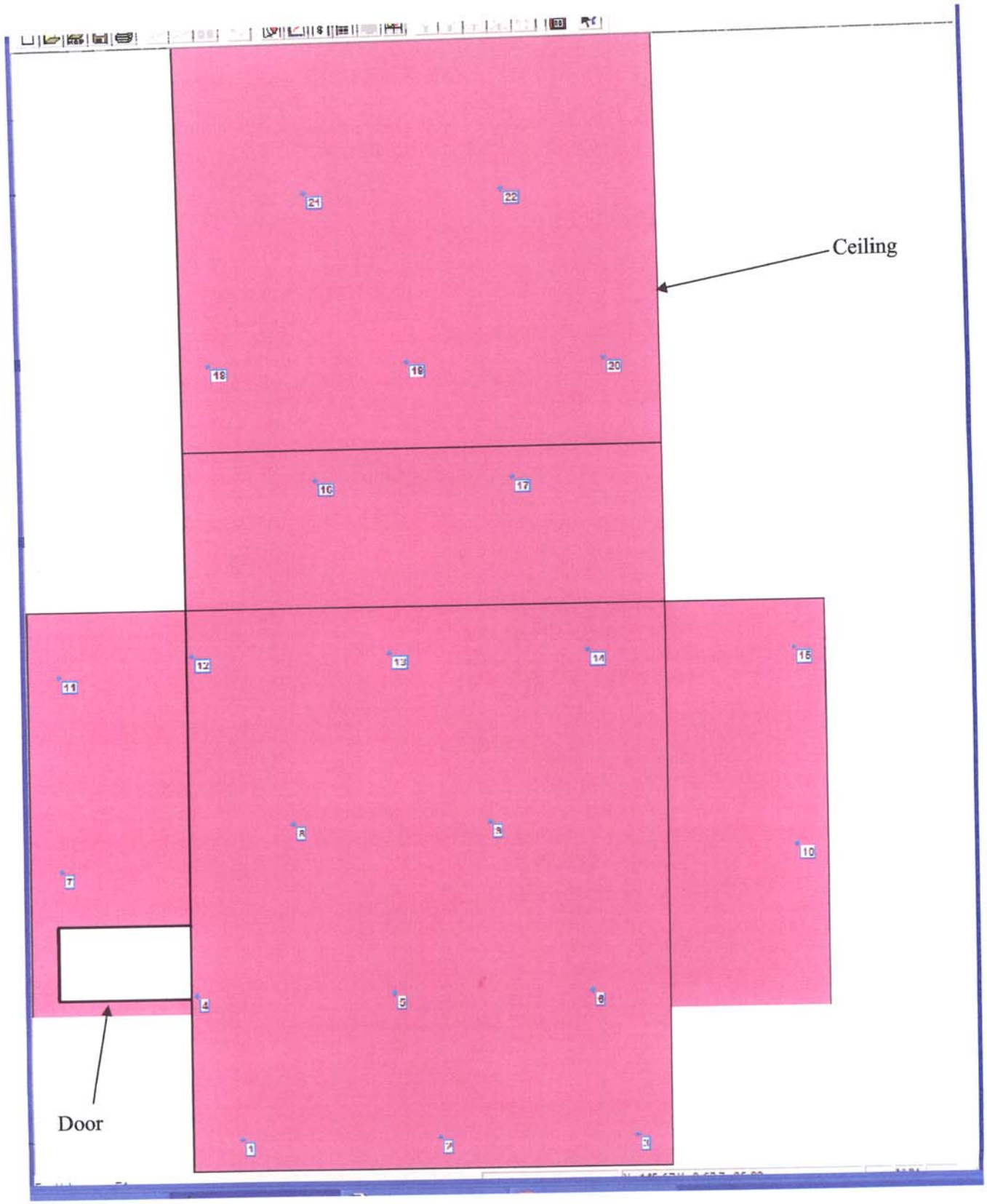
Lakeside Hospital Building - Survey Unit LS-8

1st Sub-Basement Level - Room 12A
MARSSIM Class 1
Triangular Grid Spacing - 9.9 feet over floor, walls, & ceiling

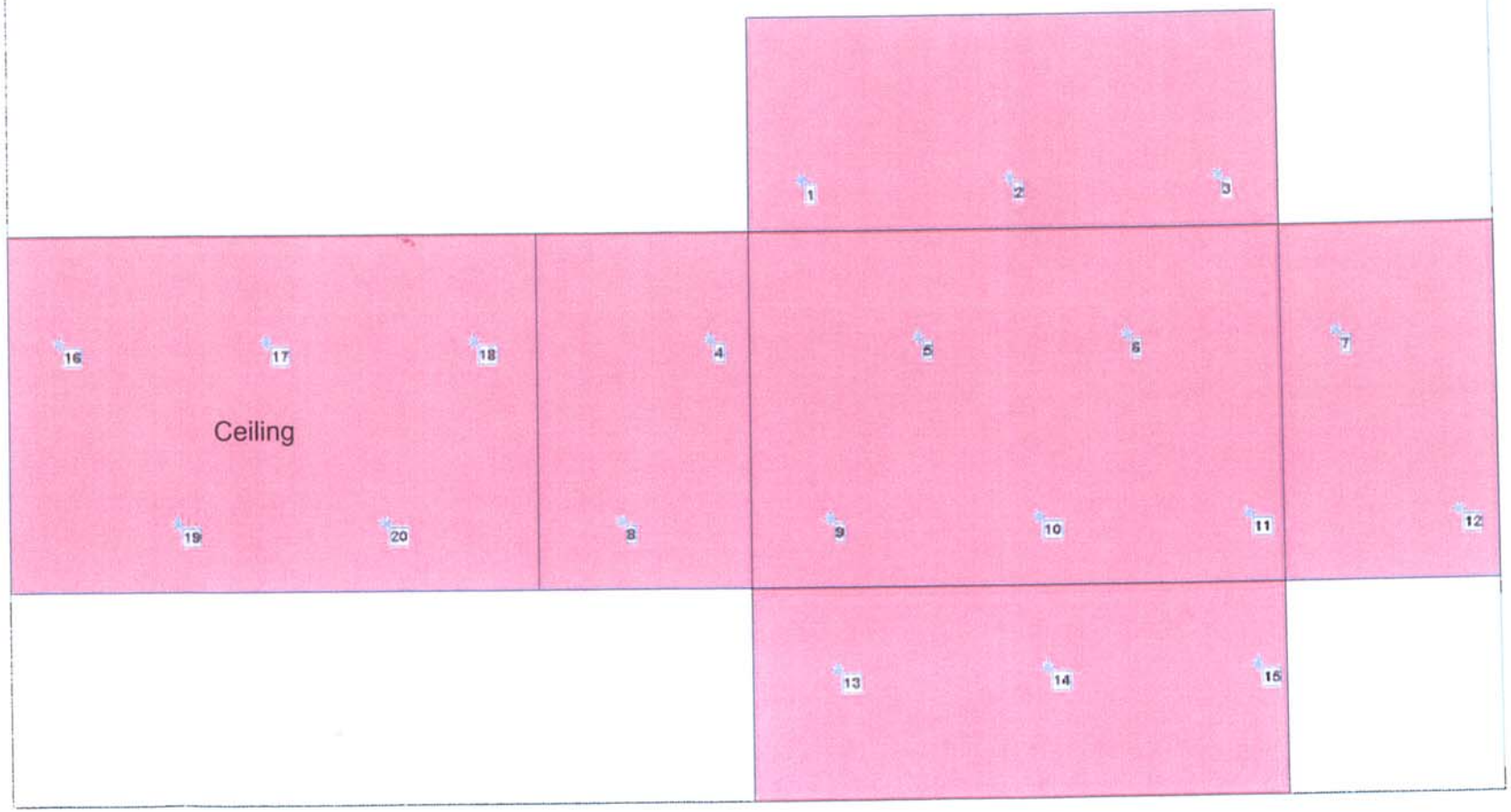


See Attached Room Layout for Point Locations on Walls & Ceiling

Survey Unit: LS-8 – 1st Sub-Basement, Room 12A



VA Chicago Lakeside Campus Final Status Survey
Lakeside Hospital Building - Survey Unit LS-20
1st SubBasement Level - Room 1SB-10B
Class 1 Grid Spacing = 5.9 ft.



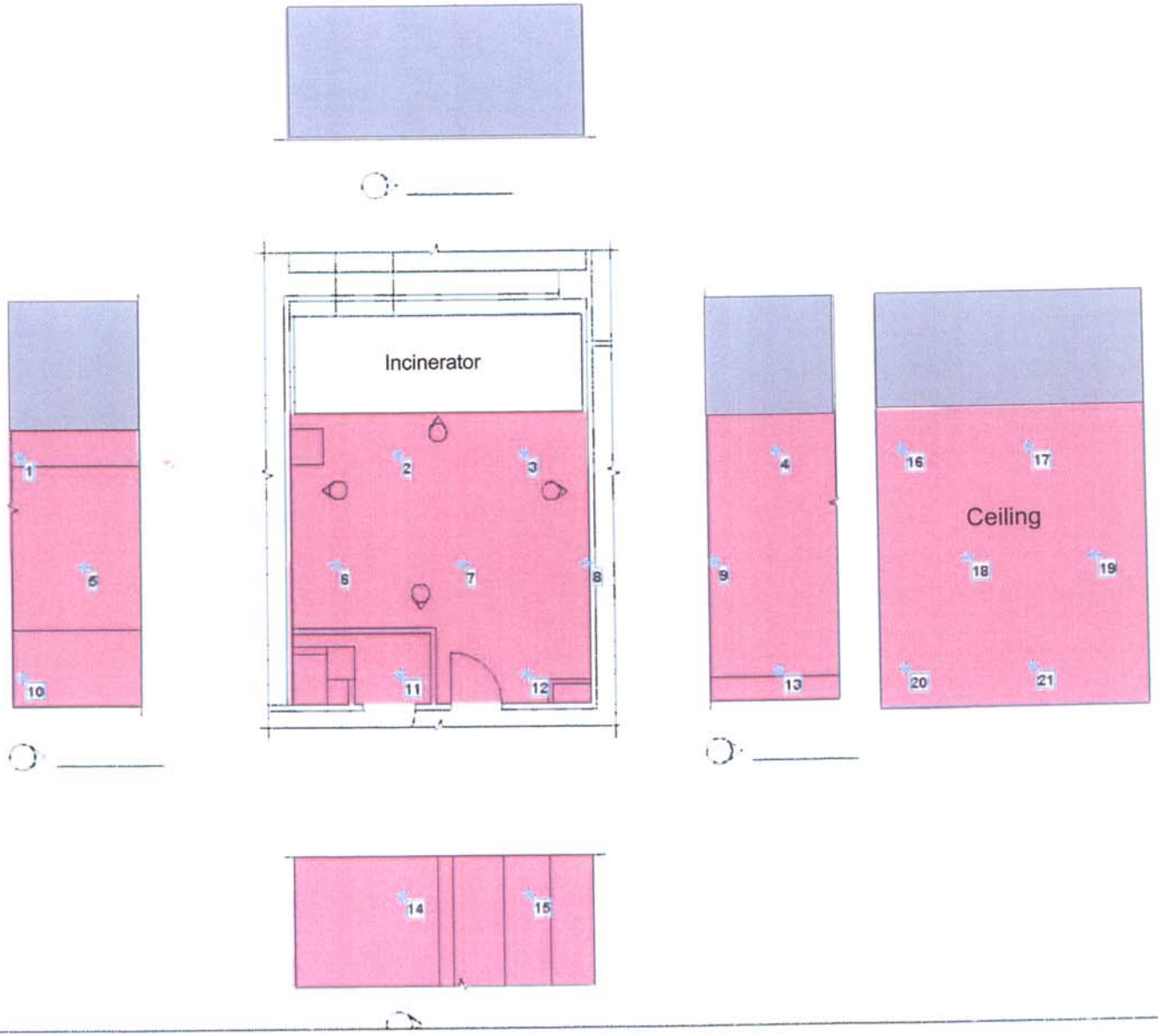
Cabrera Services, Inc.

VA Chicago Lakeside Campus Final Status Survey

Lakeside Hospital Building - Survey Unit LS-21

1st SubBasement Level - Room 1SB-16

Class 1 Grid Spacing = 7.1 ft.



Cabrera Services, Inc.



2ND FLOOR PLAN

SCALE: 1" = 25'

CABRERA SERVICES

VA Chicago - Lakeside Campus Final Status Survey
Lakeside Hospital Building

TITLE

2nd Floor Survey Units

Legend:

1. Shaded Areas indicate boundaries of SU
2. SU numbers shown as XX-Y

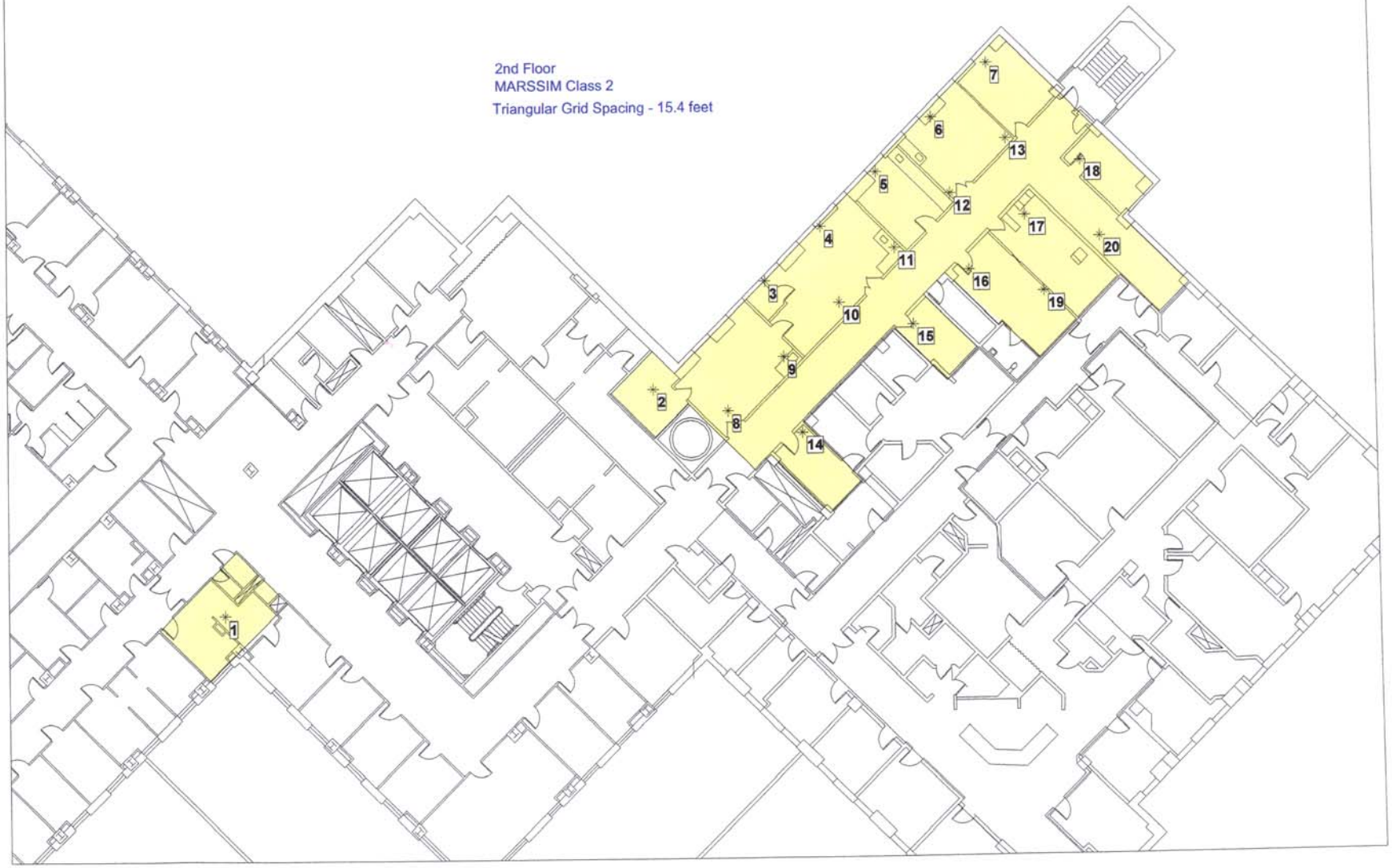
Pink = MARSSIM Class 1
Yellow = MARSSIM Class 2
Green = MARSSIM Class 3

Drawn by: JJW Date: 7/6/04

VA Chicago Lakeside Campus - Final Status Survey

Lakeside Hospital Building - Survey Unit LS-9

2nd Floor
MARSSIM Class 2
Triangular Grid Spacing - 15.4 feet

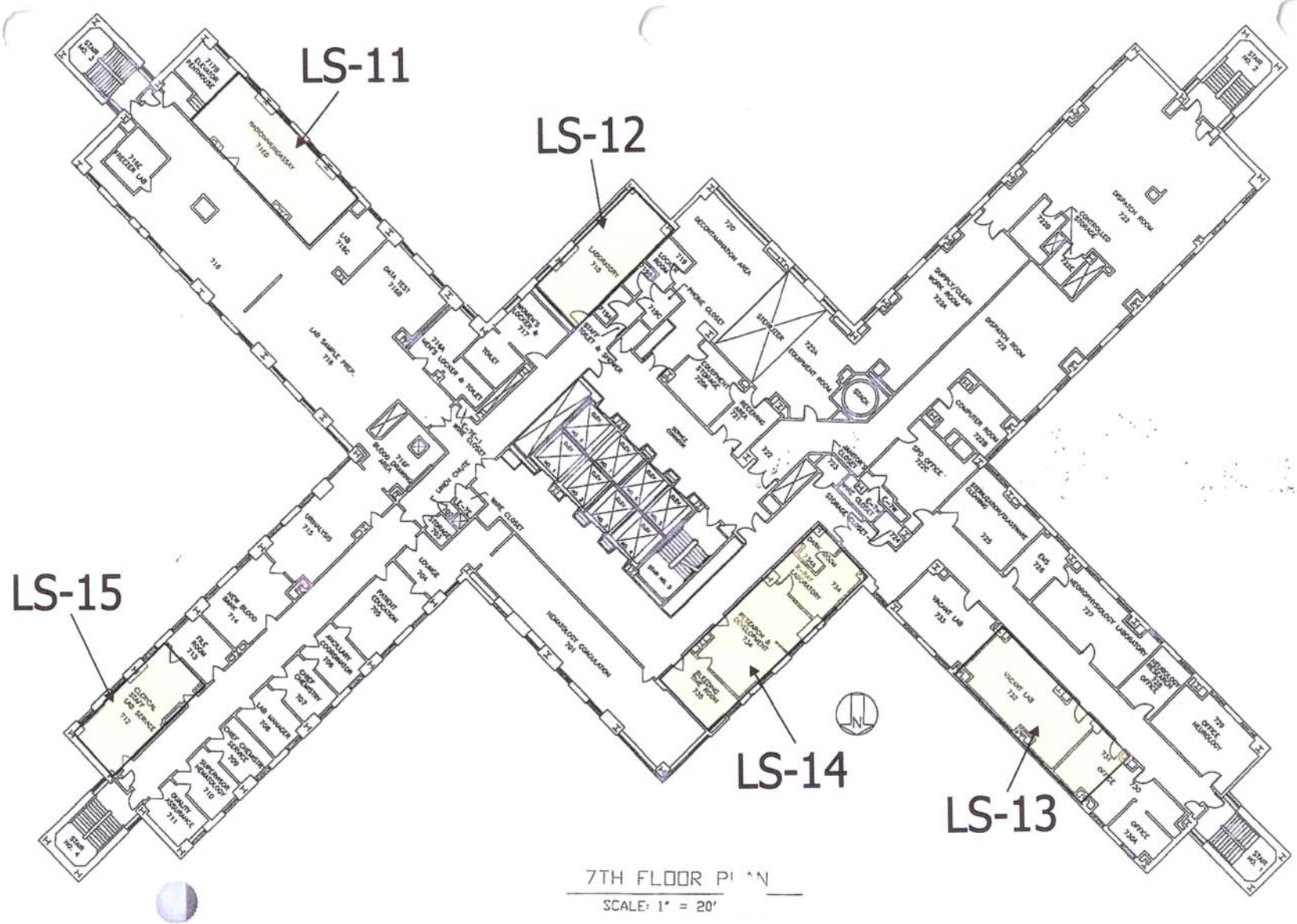


VA Chicago Lakeside Campus - Final Status Survey

Lakeside Hospital Building - Survey Unit LS-10

2nd Floor MARSSIM Class 3





CABRERA SERVICES

VA Chicago - Lakeside Campus Final Status Survey
Lakeside Hospital Building

TITLE
7th Floor Survey Units

Legend:
1. Shaded Areas indicate boundaries of SU
2. SU numbers shown as XX-Y

Pink = MARSSIM Class 1
Yellow = MARSSIM Class 2
Green = MARSSIM Class 3

Drawn by: JJW Date: 7/6/04


VA Chicago Lakeside Campus - Final Status Survey
Lakeside Hospital Building - Survey Unit LS-11
7th Floor - Room 716D
MARSSIM Class 2
Triangular Grid Spacing - 5.9 feet
(0,0)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

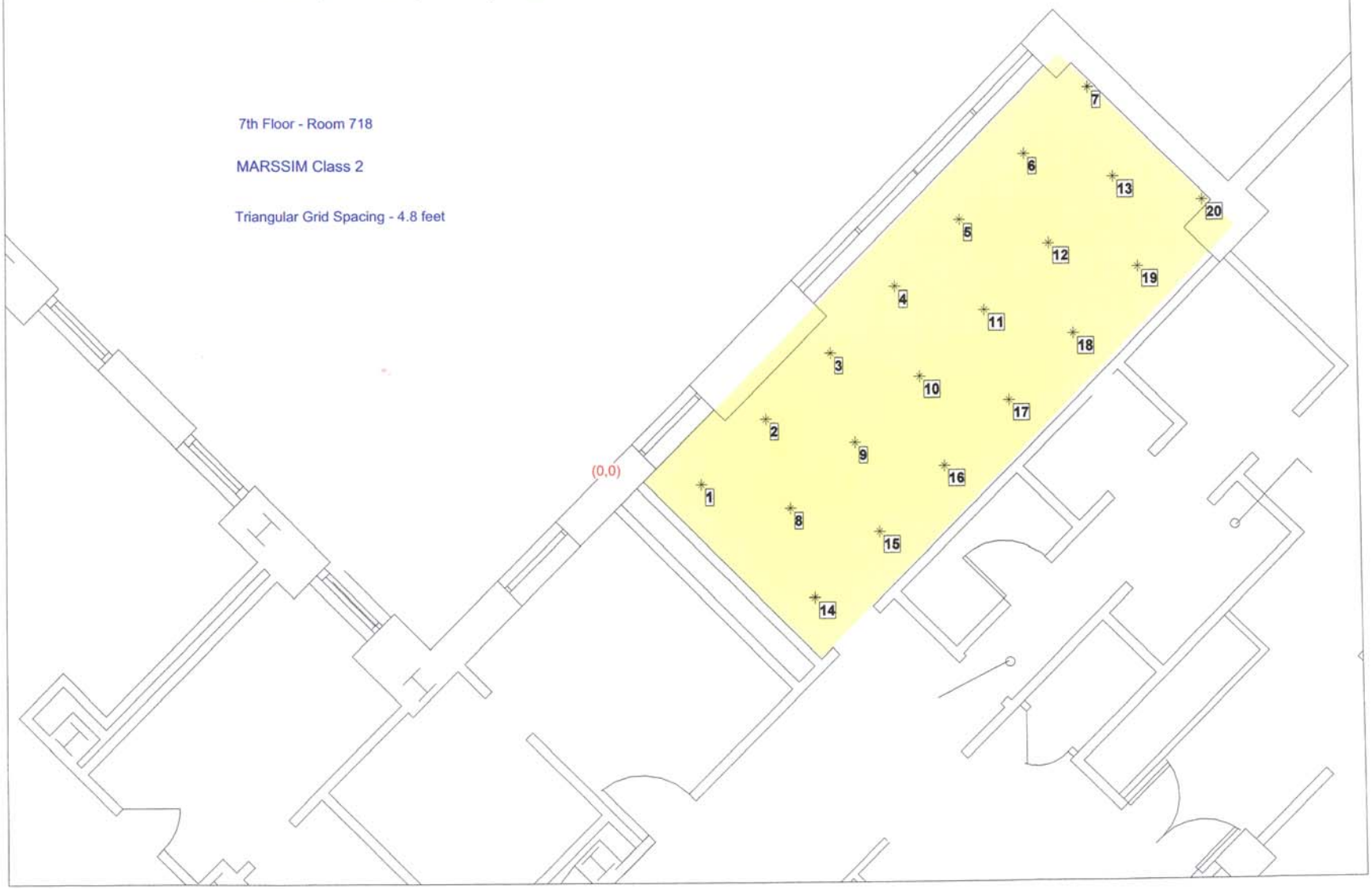
VA Chicago Lakeside Campus - Final Status Survey

Lakeside Hospital Building - Survey Unit LS-12

7th Floor - Room 718

MARSSIM Class 2

Triangular Grid Spacing - 4.8 feet




VA Chicago Lakeside Campus - Final Status Survey
Lakeside Hospital Building - Survey Unit LS-13
(0,0)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
7th Floor - Rooms 731/732
MARSSIM Class 2
Triangular Grid Spacing - 5.9 feet



VA Chicago Lakeside Campus - Final Status Survey

Lakeside Hospital Building - Survey Unit LS-14

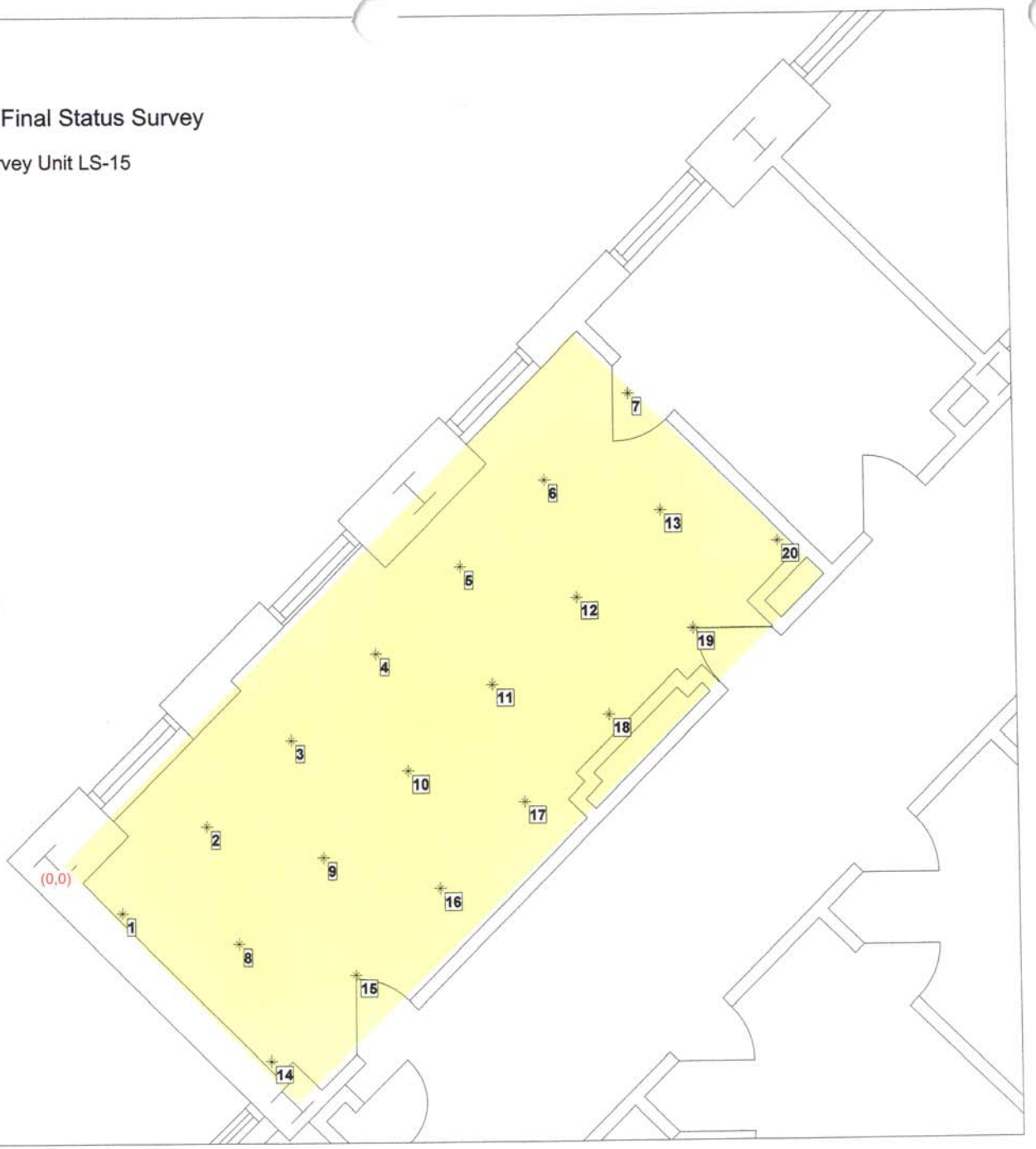
VA Chicago Lakeside Campus - Final Status Survey

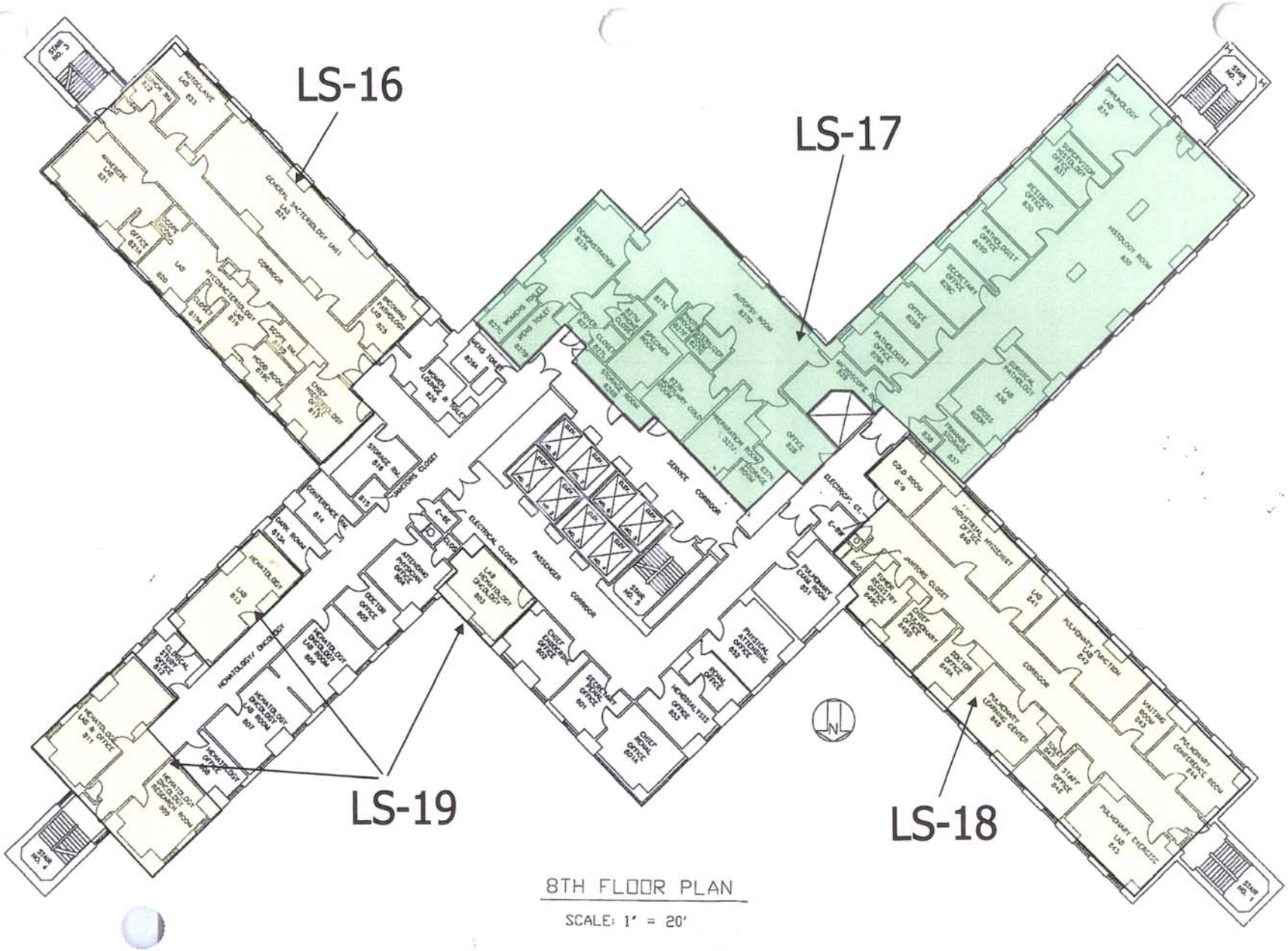
Lakeside Hospital Building - Survey Unit LS-15

7th Floor - Room 712

MARSSIM Class 2

Triangular Grid Spacing - 4.8 feet





CABRERA SERVICES

VA Chicago - Lakeside Campus Final Status Survey
Lakeside Hospital Building

TITLE
8th Floor Survey Units

Legend:

1. Shaded Areas indicate boundaries of SU
2. SU numbers shown as XX-Y

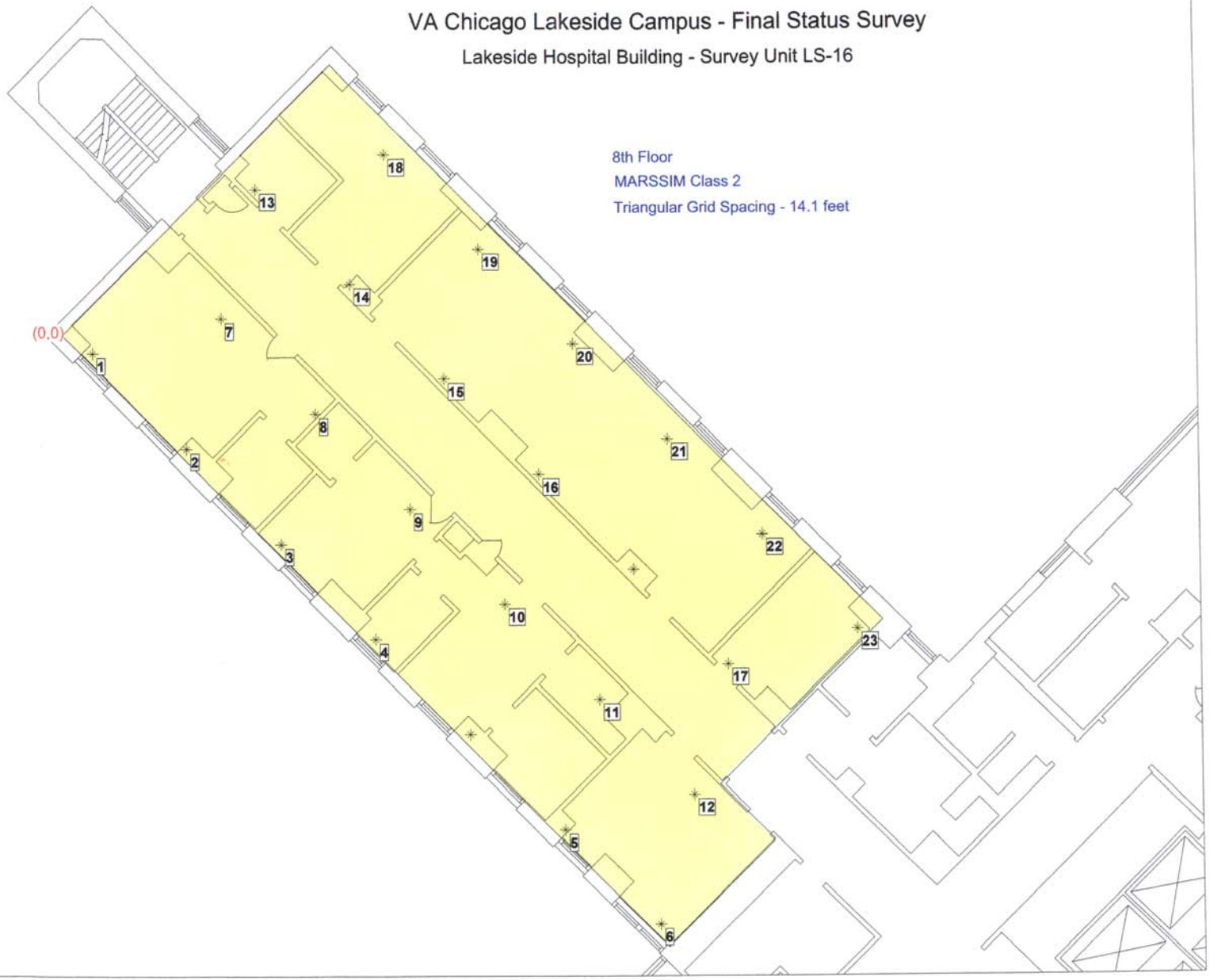
Pink = MARSSIM Class 1
Yellow = MARSSIM Class 2
Green = MARSSIM Class 3

Drawn by: JJW Date: 7/6/04

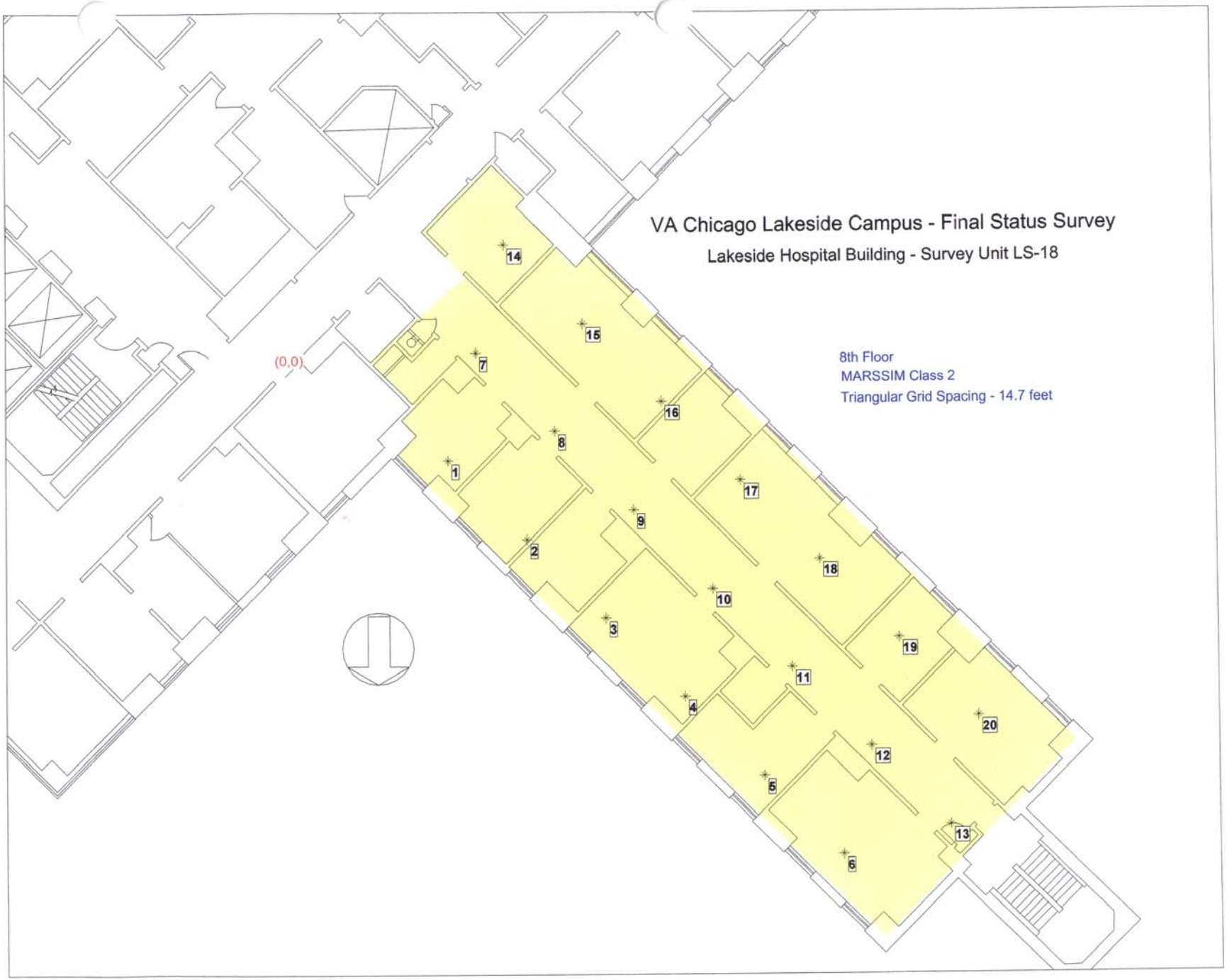
VA Chicago Lakeside Campus - Final Status Survey

Lakeside Hospital Building - Survey Unit LS-16

8th Floor
MARSSIM Class 2
Triangular Grid Spacing - 14.1 feet




VA Chicago Lakeside Campus - Final Status Survey
Lakeside Hospital Building - Survey Unit LS-17
8th Floor
MARSSIM Class 3
(0,0)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20


VA Chicago Lakeside Campus - Final Status Survey
Lakeside Hospital Building - Survey Unit LS-18
8th Floor
MARSSIM Class 2
Triangular Grid Spacing - 14.7 feet
(0,0)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20


VA Chicago Lakeside Campus - Final Status Survey
Lakeside Hospital Building - Survey Unit LS-19
8th Floor
MARSSIM Class 2
Triangular Grid Spacing - 9.2 feet
(0,0)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

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APPENDIX D FSS Plan for VA Lakeside Campus
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APPENDIX B

FSS Survey Data

SU Data Summaries
Room Survey Worksheets
Windowless Proportional Counter Results
LSC Results

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	23-Jul-04
Survey Unit #:	LS-1
Building:	Lakeside Hospital
Floor:	2SB
FSS Floor Classification:	1
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Location of old incinerator in boiler plant area.

Instrument Number	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

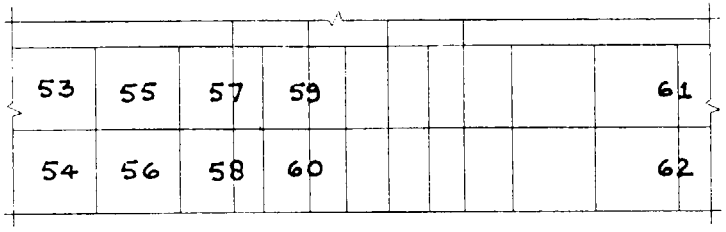
1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-1.01	S	2a	F	C	100	137.2	-37.2	-1.00E+03	-1
LS-1.02	S	2a	F	C	107	137.2	-30.2	-8.12E+02	-1
LS-1.03	S	2a	F	C	125	137.2	-12.2	-3.28E+02	-1
LS-1.04	S	2a	F	C	104	137.2	-33.2	-8.92E+02	-1
LS-1.05	S	2a	F	C	100	137.2	-37.2	-1.00E+03	-1
LS-1.06	S	1	F	C	114	137.2	-23.2	-5.77E+02	-1
LS-1.07	S	1	F	C	138	137.2	0.8	1.99E+01	-1
LS-1.08	S	1	F	C	143	137.2	5.8	1.44E+02	-1
LS-1.09	S	2a	F	C	95	137.2	-42.2	-1.13E+03	-1
LS-1.10	S	2a	F	C	114	137.2	-23.2	-6.24E+02	-1
LS-1.11	S	1	F	C	153	137.2	15.8	3.93E+02	-1
LS-1.12	S	1	F	C	119	137.2	-18.2	-4.53E+02	-1
LS-1.13	S	1	F	C	123	137.2	-14.2	-3.53E+02	-1
LS-1.14	S	1	F	C	136	137.2	-1.2	-2.99E+01	-1
LS-1.15	S	1	F	C	105	137.2	-32.2	-8.01E+02	-1
LS-1.16	S	1	F	C	148	137.2	10.8	2.69E+02	-1
LS-1.17	S	1	F	C	133	137.2	-4.2	-1.04E+02	-1
LS-1.18	S	1	F	C	102	137.2	-35.2	-8.76E+02	-1
LS-1.19	S	1	F	C	162	137.2	24.8	6.17E+02	-1
LS-1.20	S	1	F	C	99	137.2	-38.2	-9.50E+02	-1

Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Walls/Ceilings	1	(See Survey Worksheet Packages Attached)	

	Mean	**-4.25E+02**
	Median	**-5.15E+02**
	Range	**1.75E+03**
	Std Dev (1 σ)	**5.26E+02**
MARSSIM Sign Test Required?		**NO**
MARSSIM SIGN TEST EVALUATION		
Sum of Positive Signs		**0**
Sign Test Critical Value (n=20)		**14**
Null Hypothesis Evaluation		**N/A**

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m) S = sink CT = countertop H = fume hood
4 Surface Materials: C = Concrete
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

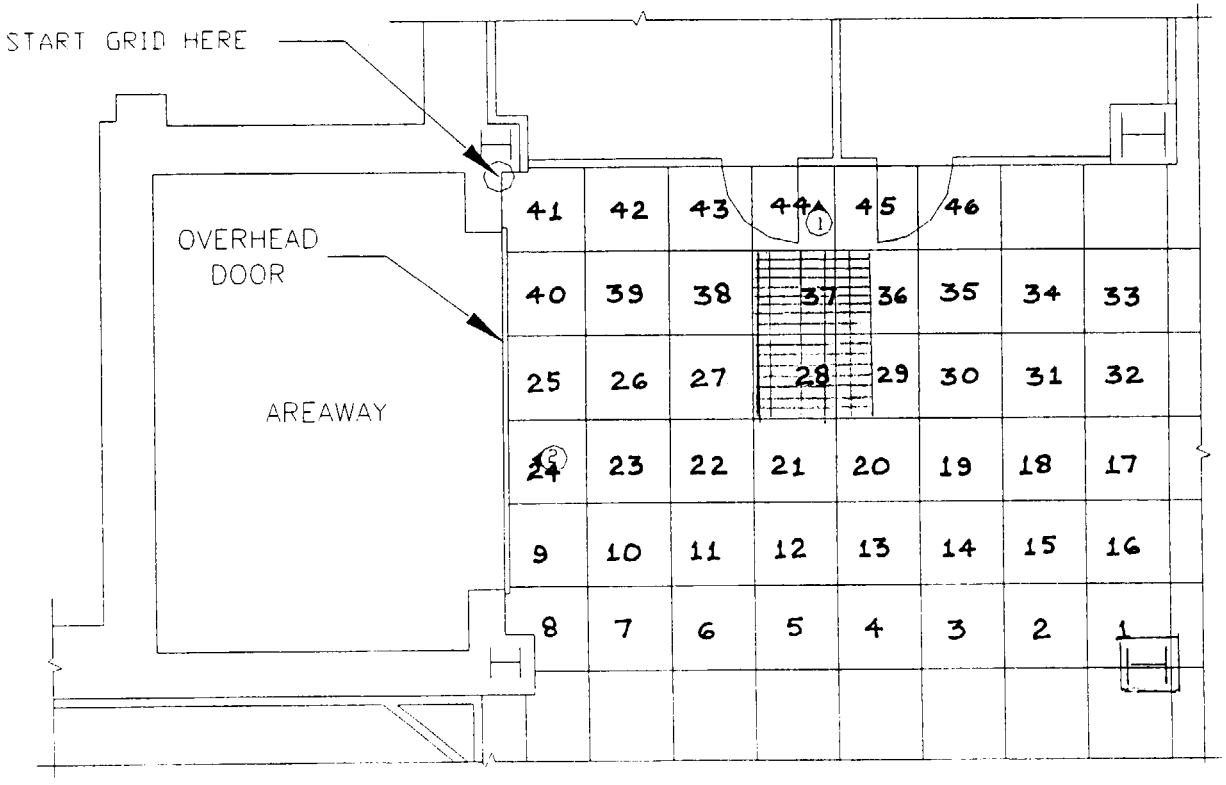


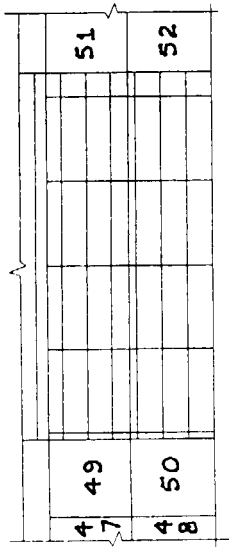
① ELEVATION

START GRID HERE

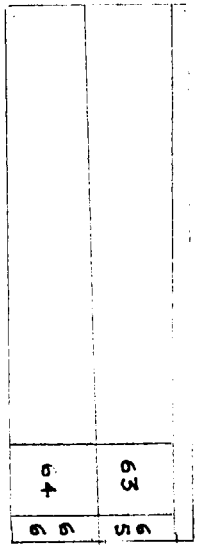
OVERHEAD DOOR

AREAWAY





② ELEVATION



ROOM 2SB Incin.– Boiler Room

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2 SB INC

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	393	6.9.04	AC	0.02	6/9/04	NSH	21	6/9/04	NSH
2	422			0.02			22		
3	381			0.015			23		
4	357			0.015			24		
5	423			0.015			25		
6	396			0.015			26		
7	426			0.015			27		
8	440			0.015			28		
9	390			0.02			29		
10	426			0.02			30		
11	446			0.02			31		
12	422			0.02			32		
13	358			0.015			33		
14	362			0.015			34		
15	419			0.015			35		
16	408			0.015			36		
17	426			0.015			37		
18	405			0.015			38		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB INC

Grid Position	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — ☒ Floor [ ] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	161	6.9.04	AC	0.015	6/9/04	NSM	39	6/9/04	NSM
20	431	6.9.04	AC	0.015			40		
21	396			0.015			41		
22	406			0.95			42		
23	421			0.015			43		
24	429			0.015			44		
25	513			0.015			45		
26	494			0.015			46		
27	475			0.02			47		
28	489			0.03			48		
29	432			0.015			49		
30	385			0.015			50		
31	380			0.015			51		
32	443			0.015			52		
33	339			0.015			53		
34	389			0.015			54		
35	385			0.015			55		
36	462			0.015			58		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB INC

		☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
	Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
start: 1	37	98	6.9.04	AC	0.03	6/9/04	NSH	57	6/9/04	NSH
	38	142	↓	↓	0.02	↓	↓	58	↓	↓
	39	153	↓	↓	0.02	↓	↓	59	↓	↓
	40	387	6.9.04	AC	0.015	↓	↓	60	↓	↓
	41	165	↓	↓	0.015	↓	↓	61	↓	↓
	42	139	↓	↓	0.015	↓	↓	62	↓	↓
	43	177	↓	↓	0.015	↓	↓	63	↓	↓
	44	108	↓	↓	0.015	↓	↓	64	↓	↓
	45	93	↓	↓	0.02	↓	↓	65	↓	↓
stop: 1	46	428	6.9.04	AC	0.02	↓	↓	66	↓	↓

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB INC

	[ ] Floor Monitor [ ] Meter 2 Det. 1	⋈ Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor ⋈ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
47	325	6.9.04	AC				67	6/9/04	NISH
48	313						68		
49	298						69		
50	320						70		
51	340						71		
52	352						72		
53	198						73		
54	170						74		
55	162						75		
56	155						76		
57	170						77		
58	148						78		
59	130						79		
60	129						80		
61	119						81		
62	125						82		
63	118						83		
64	136						84		
65	121						85		
66	144						86		

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	23-Jul-04
Survey Unit #:	LS-2
Building:	Lakeside Hospital
Floor:	2SB
FSS Floor Classification:	1
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 7A. Former radioactive waste storage location.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Instrument Efficiency (4-pi)	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-2.01	S	1	W	PL	100	124.4	-24.4	-6.07E+02	-1
LS-2.02	S	1	W	PL	114	124.4	-10.4	-2.59E+02	-1
LS-2.03	S	1	W	PL	108	124.4	-16.4	-4.08E+02	-1
LS-2.04	S	2a	F	T	144	120.8	23.2	6.24E+02	-1
LS-2.05	S	1	F	T	163	120.8	42.2	1.05E+03	-1
LS-2.06	S	1	W	PL	106	124.4	-18.4	-4.58E+02	-1
LS-2.07	S	1	W	PL	92	124.4	-32.4	-8.06E+02	-1
LS-2.08	S	1	F	T	97	120.8	-23.8	-5.92E+02	-1
LS-2.09	S	1	F	T	130	120.8	9.2	2.29E+02	-1
LS-2.10	S	1	F	T	130	120.8	9.2	2.29E+02	-1
LS-2.11	S	1	W	PL	92	124.4	-32.4	-8.06E+02	-1
LS-2.12	S	1	F	T	110	120.8	-10.8	-2.69E+02	-1
LS-2.13	S	1	F	T	118	120.8	-2.8	-6.97E+01	-1
LS-2.14	S	1	W	PL	109	124.4	-15.4	-3.83E+02	-1
LS-2.15	S	1	W	PL	116	124.4	-8.4	-2.09E+02	-1
LS-2.16	S	1	W	PL	131	124.4	6.6	1.64E+02	-1
LS-2.17	S	2a	C	ACT	139	217.4	-78.4	-2.11E+03	-1
LS-2.18	S	2a	C	ACT	148	217.4	-69.4	-1.87E+03	-1
LS-2.19	S	2a	C	ACT	129	217.4	-88.4	-2.38E+03	-1
LS-2.20	S	2a	C	ACT	179	217.4	-38.4	-1.03E+03	-1
							Mean	**-4.98E+02**	
							Median	**-3.96E+02**	
							Range	**3.43E+03**	
							Std Dev (1 σ)	**8.59E+02**	
							MARSSIM Sign Test Required?		**NO**

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

Scan Survey Results			
Area	**Instr. #**	**Gross CPM**	**Notes**
Floors	F	(See Survey Worksheet Packages Attached)	
Walls/Ceilings	1	(See Survey Worksheet Packages Attached)	

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = Wall C = Ceiling
4 Surface Materials: PL = Plaster, T = Terrazzo Flooring, ACT = Acoustic Ceiling Tiles
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

69	71	73	75	77	79	81	83	85	
70	72	74	76	78	80	82	84	86	

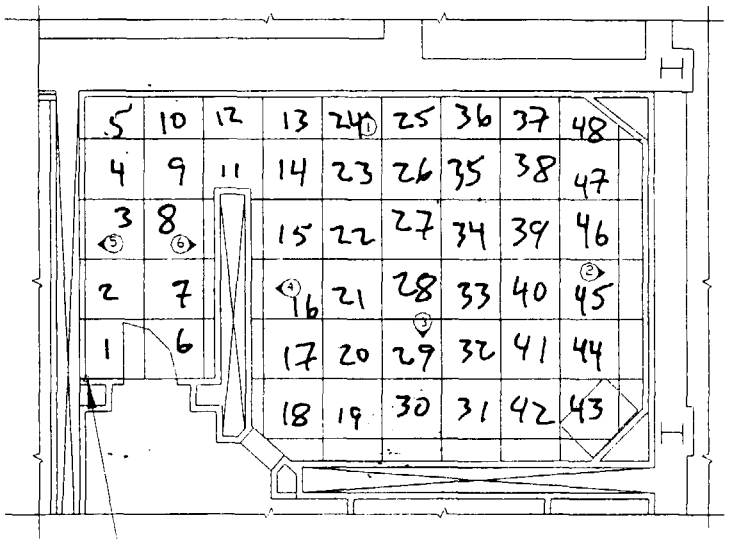
① ELEVATION

	59	60							
51	53	55	57						
52	54	56	58						

⑤ ELEVATION

109	110	112	114						
	111	113	115						

④ ELEVATION



86	96	46	76	06	88				
	94	56	16	68	78				

② ELEVATION

69	99	89							
	59	49							

⑥ ELEVATION

ROOM 2SB07A

05	29	211		801	901	401	201		001
66	19	911	601	201	501	301	101		66

③ ELEVATION

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB7

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	426	6.1.04	AC	0.01	6/1/4	[illegible]	66	6/1/04	AC
2	415			0.01			67		
3	424			0.015			68		
4	402			0.01			69		
5	432			0.01			70		
6	440			0.015			71		
7	428			0.01			72		
8	397			0.01			73		
9	462			0.015			74		
10	496			0.015			75		
11	412			0.005			76		
12	475			0.005			77		
13	443			0.005			78		
14	446			0.01			79		
15	434			0.005			80		
16	418			0.015			81		
17	441			0.005			82		
18	385			0.005			83		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2587

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	463	6,1.04	AC	0.01	6/1/04	AH	84	6/1/04	AC
20	412			0.01			85		
21	403			0.005			86		
22	447			0.005			87		
23	416			0.01			88		
24	399			0.01			89		
25	478			0.015			90		
26	389			0.005			91		
27	438			0.015			92		
28	400			0.01			93		
29	389			0.01			94		
30	421			0.01			95		
31	508			0.01			96		
32	547			0.01			97		
33	474			0.015			98		
34	436			0.01			99		
35	413			0.01			100		
36	477			0.02			36		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2587

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	467	6.1.04	AC	0.02	6/1/04	[illegible]	37	6/1/04	AC
38	491	↓	↓	0.01	↓	↓	38	↓	↓
39	443	↓	↓	0.01	↓	↓	39	↓	↓
40	434	↓	↓	0.015	↓	↓	40	↓	↓
41	428	↓	↓	0.01	↓	↓	41	↓	↓
42	421	↓	↓	0.01	↓	↓	42	↓	↓
43	407	↓	↓	0.01	↓	↓	43	↓	↓
44	411	↓	↓	0.005	↓	↓	44	↓	↓
45	418	↓	↓	0.01	↓	↓	45	↓	↓
46	443	↓	↓	0.01	↓	↓	46	↓	↓
47	437	↓	↓	0.01	↓	↓	47	↓	↓
48	514	↓	↓	0.01	↓	↓	48	↓	↓

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2587

	[ ] Floor Monitor [ ] Meter 2 Det. 1	[X] Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
49	116	6/1/04	AC				49	6/1/04	AC
50	106						50		
51	112						51		
52	126						52		
53	131						53		
54	119						54		
55	130						55		
56	111						56		
57	128						57		
58	123						58		
59	114						59		
60	152						60		
61	111						61		
62	104						62		
63	133						63		
64	126						64		
65	140						65		
66	118						66		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB7

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
67	129	6/1/04	KA				67	6/1/04	AE
68	108						68		
69	144						69		
70	120						70		
71	111						71		
72	128						72		
73	138						73		
74	165						74		
75	113						75		
76	126						76		
77	106						77		
78	100						78		
79	135						79		
80	151						80		
81	143						81		
82	144						82		
83	124						83		
84	113						84		

Walks

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 2SB7

Grid Position	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [ ] Floor [ ] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
85	113	6/1/04	AC				85	6/1/04	AC
86	131						86		
87	110						87		
88	93						88		
89	109						89		
90	101						90		
91	107						91		
92	129						92		
93	157						93		
94	127						94		
95	107						95		
96	106						96		
97	111						97		
98	104						98		
99	114						99		
100	138						100		
101	111						24		NSY
102	115						25		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2587

Grid Position	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [ ] Floor [ ] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
103	104	6/1/04	[illegible]				26	6/1/04	NSH
104	115						27		
105	94						28		
106	117						29		
107	101						30		
108	98						31		
109	121						32		
110	107						33		
111	100						34		
112	101						35		
113	106						36		
114	118						37		
115	110						38		
116	116						39		
117	103						40		
118	93						41		
119	101						42		
120	96						43		
121	111						44		
122	120						45		

surface

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	23-Jul-04
Survey Unit #:	LS-3
Building:	Lakeside Hospital
Floor:	2SB
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Former accelerator and ortho-voltage treatment rooms. Rooms 2SB-04 through -08 plus corridor.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-3.01	S	1	F	VT	110	122.4	-12.4	-3.08E+02	-1
LS-3.02	S	1	W	C	157	137.2	19.8	4.93E+02	-1
LS-3.03	S	1	F	T	102	120.8	-18.8	-4.68E+02	-1
LS-3.04	S	1	F	VT	98	122.4	-24.4	-6.07E+02	-1
LS-3.05	S	1	F	T	127	120.8	6.2	1.54E+02	-1
LS-3.06	S	1	F	VT	100	122.4	-22.4	-5.57E+02	-1
LS-3.07	S	1	F	T	81	120.8	-39.8	-9.90E+02	-1
LS-3.08	S	1	F	VT	110	122.4	-12.4	-3.08E+02	-1
LS-3.09	S	1	F	VT	103	122.4	-19.4	-4.83E+02	-1
LS-3.10	S	1	F	VT	111	122.4	-11.4	-2.84E+02	-1
LS-3.11	S	1	F	VT	101	122.4	-21.4	-5.32E+02	-1
LS-3.12	S	1	F	T	99	120.8	-21.8	-5.42E+02	-1
LS-3.13	S	1	F	T	86	120.8	-34.8	-8.66E+02	-1
LS-3.14	S	1	F	VT	112	122.4	-10.4	-2.59E+02	-1
LS-3.15	S	1	F	T	153	120.8	32.2	8.01E+02	-1
LS-3.16	S	1	CT	O	90	96.6	-6.6	-1.64E+02	-1
LS-3.17	S	1	F	T	92	120.8	-28.8	-7.16E+02	-1
LS-3.18	S	1	F	T	127	120.8	6.2	1.54E+02	-1
LS-3.19	S	1	F	VT	96	122.4	-26.4	-6.57E+02	-1
LS-3.20	S	1	F	T	121	120.8	0.2	4.98E+00	-1
							Mean	**-3.51E+02**	
							Median	**-4.75E+02**	
							Range	**1.79E+03**	
							Std Dev (1 σ)	**4.29E+02**	
							MARSSIM Sign Test Required?		**NO**

Scan Survey Results		
Area	**Instr. #**	**Gross CPM Notes**
Floors	F	(See Survey Worksheet Packages Attached)
Lower Walls	1	(See Survey Worksheet Packages Attached)

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic *Location* B = Biased Location
3 F = floor W = lower wall (< 2m) CT = countertop
4 Surface Materials: VT = Vinyl Tile SST = Synthetic Stone Countertop T = Terrazzo Flooring C = Concrete
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

32 33 36 45 48 52
31 34 35 46 47 51
41 44 43 42
29 30 28 27 25 26
10 7 4 3 11 8 5 2 12 9 6 1
38 37 39 40
50 49 54 53 14 13
15 18 19 23 22
16 17 20 21 24

ROOM 2SB03

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB3

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	429	5.26.04	AC	0.01	5/27/04	NSH	1	5.27.04	AC
2	439			0.01			2		
3	460			0.01			3		
4	413			0.025			4		
5	395			0.02			5		
6	393			0.02			6		
7	386			0.02			7		
8	377			0.02			8		
9	421			0.02			9		
10	404			0.02			10		
11	412			0.02			11		
12	508			0.015			12		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 253

Grid Position	[ ] Floor Monitor [V] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [ ] Floor [V] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
13	133	5.27.04	AC				13	5.27.04	AC
14	118						14		
15	138						15		
16	157						16		
17	136						17		
18	179						18		
19	136						19		
20	142						20		
21	137						21		
22	154						22		
23	127						23		
24	135						24		
25	115						25		
26	140						26		
27	158						27		
28	126						28		
29	101						29		
30	125						30		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB3

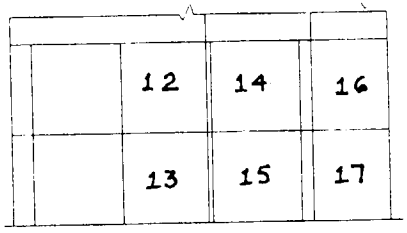
	[ ] Floor Monitor [M] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [M] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
31	137	5.27.04	AC				31	5.27.04	AC
32	132						32		
33	141						33		
34	154						34		
35	160						35		
36	149						36		
37	143						37		
38	136						38		
39	148						39		
40	121						40		
41	131						41		
42	147						42		
43	153						43		
44	160						44		
45	146						45		
46	159						46		
47	136						47		
48	124						48		

Survey Worksheet

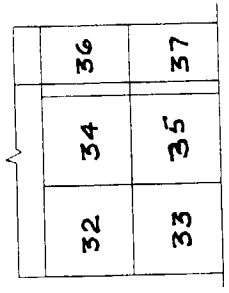
walls

Building: ☒ Lakeside Hospital ☐ MSB Room 2583

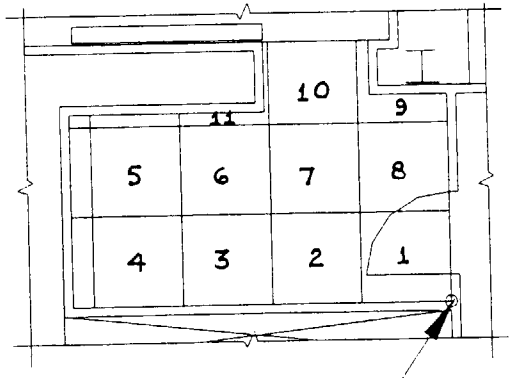
	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
49	137	5.27.04	AC				49	5.27.04	AC
50	113	↓	↓	↓	↓	↓	50	↓	↓
51	134						51		
52	102						52		
53	134						53		
54	126	↓	↓	↓	↓	↓	54	↓	↓



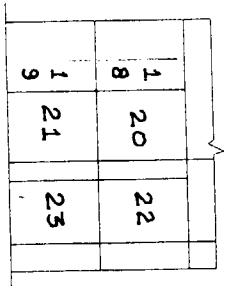
1 ELEVATION



4 ELEVATION

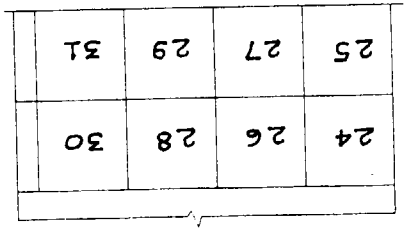


START GRID HERE



2 ELEVATION

ROOM 2SB05



3 ELEVATION

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2515

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	317	6/1/04	NSM	0.01	6/1/04	NSM	46	6/1/04	NSM
2	347	↓	↓	0.01	↓	↓	47	↓	↓
3	414			0.015			48		
4	402			0.02			49		
5	330			0.025			50		
6	372			0.02			51		
7	364			0.015			52		
8	346			0.02			53		
9	356			0.01			54		
10	388			0.02			55		
11	335			0.02			56		
~~12~~									

Survey Worksheet

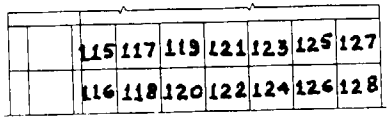
Building: ☑ Lakeside Hospital ☐ MSB Room 2585

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
12	130	6/1/04	HSM				57	6/1/04	HSM
13	154						58		
14	140						59		
15	151						60		
16	135						61		
17	133						62		
18	115						63		
19	145						64		
20	164						65		
21	137						66		
22	109						67		
23	94						68		
24	77						69		
25	65						70		
26	101						71		
27	98						72		
28	94						73		
29	85						74		

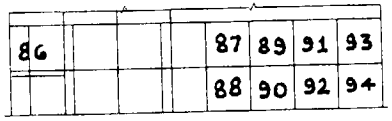
Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2585

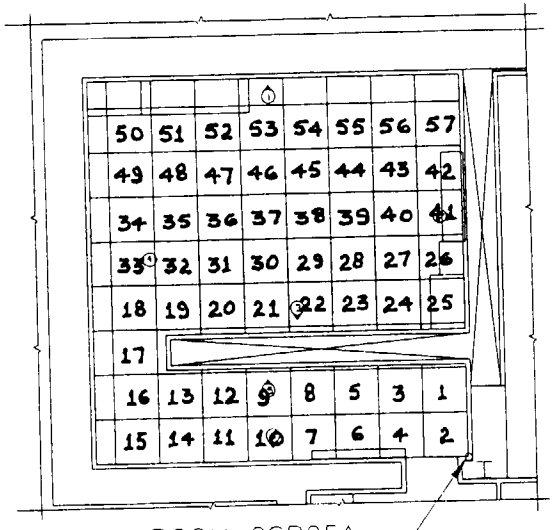
	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
30	129	6/1/04	NSH				75	6/1/04	NSH
31	105	↓	↓				76	↓	↓
32	111						77		
33	107						78		
34	97						79		
35	84						80		
36	86						81		
37	95						82		



⑤ ELEVATION

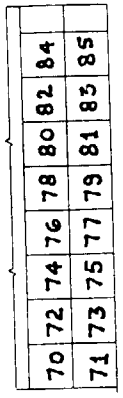


① ELEVATION

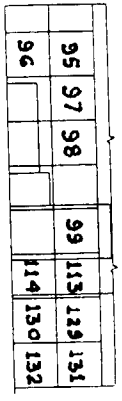


ROOM 2SB05A

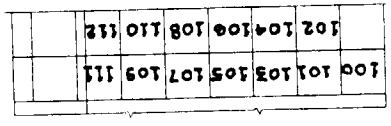
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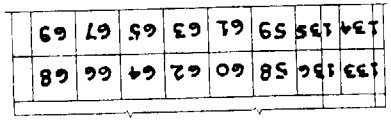
④ ELEVATION



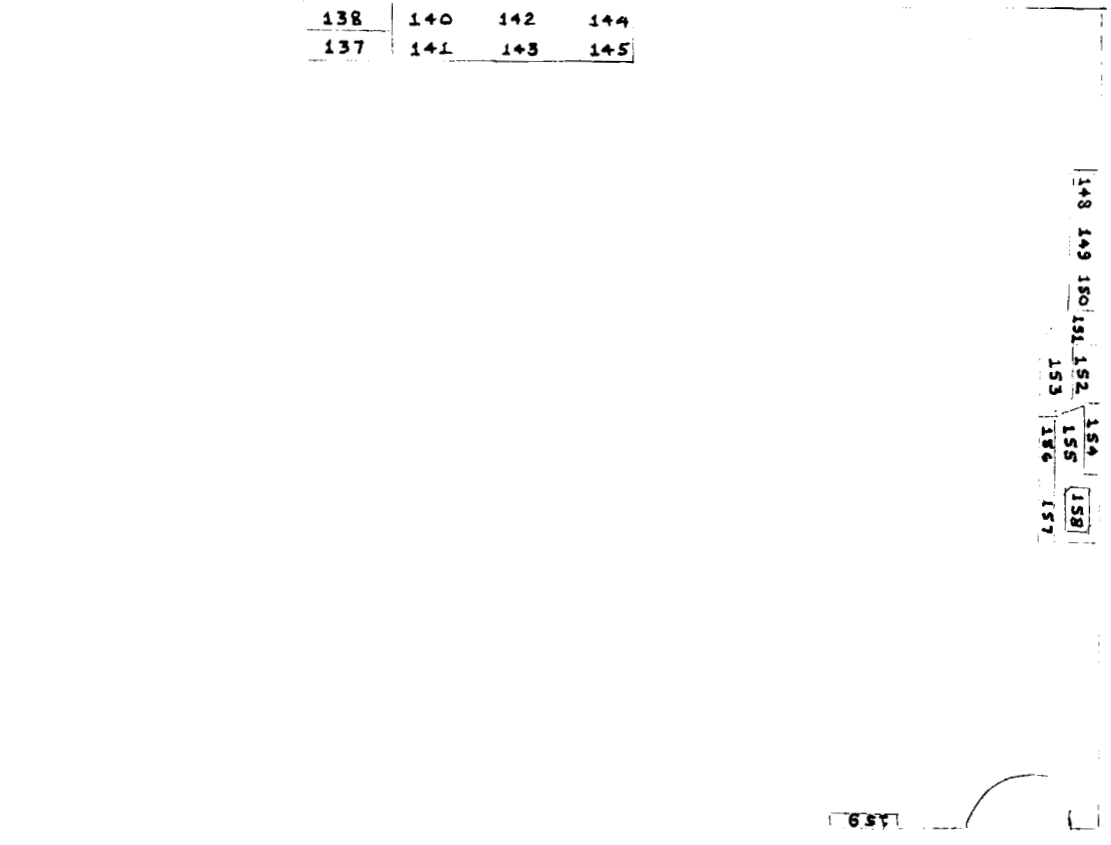
② ELEVATION



③ ELEVATION



⑥ ELEVATION


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ROOM 2SB05A

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB5a

Grid Position	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [✓] Floor [ ] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	383	6/2/04	T. S.	0.005	6/2/04	[illegible]	83	6/1/04	NSn
2	318			0.015			84		
3	351			0.01			85		
4	360			0.01			86		
5	305			0.01			87		
6	294			0.005			88		
7	286			0.005			89		
8	318			0.005			90		
9	354			0.01			91		
10	404			0.015			92		
11	371			0.01			93		
12	319			0.005			94		
13	312			0.015			95		
14	347			0.01			96		
15	380			0.01			97		
16	326			0.01			98		
17	310			0.01			99		
18	347			0.015			100		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2585a

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	333	6/2/04	Y.S.	0.005	6/2/04		16	6/1/04	NSM
20	321			0.005			17		
21	305			0.01			18		
22	313			0.01			19		
23	270			0.005			20		
24	295			0.005			21		
25	304			0.005			22		
26	324			0.01			23		
27	305			0.00			24		
29	329			0.005			25		
29	309			0.005			26		
30	287			0.015			27		
31	354			0.02			28		
32	361			0.015			29		
33	308			0.02			30		
34	272			0.01			31		
35	341			0.015			32		
36	348			0.005			33		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB5a

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
Meter #1 37	~~232~~ 111	6/2/04	T.S.	0.01	6/2/04	[illegible]	34	6/1/04	NSH
38	316			0.01			35		
39	287			0.015			36		
40	269			0.005			37		
41	302			0.01			38		
42	307			0.015			39		
43	326			0.01			40		
44	351			0.005			41		
45	369			0.005			42		
46	316			0.005			43		
47	329			0.01			44		
48	375			0.005			45		
49	343			0.01			46		
50	346			0.01			47		
51	314			0.005			48		
52	277			0.005			49		
53	368			0.015			50		
54	356			0.015			51		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB52

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
55	295	6/2/04	T.S.	0.02	6/2/04	✓	52	6.1.04	NSM
56	283	↓	↓	0.015	↓		53	↓	↓
57	263	↓	↓	0.02	↓		54	↓	↓

Walls

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 2SB05A

Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	Meter 4: 1 meter Exp. Rate mR/h	Meter 4: Date	Meter 4: Initials	Wipe No.	Date	Initials
	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2								
58	120	6.2.04	AC				55	6.1.04	NSH
59	111						56		
60	130						57		
61	112						58		
62	117						59		
63	101						60		
64	127						61		
65	130						62		
66	126						63		
67	119						64		
68	130						65		
69	108						66		
70	122						67		
71	117						68		
72	104						69		
73	98						70		
74	118						71		
75	123						72		

Survey Worksheet

walls

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB05A

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
76	134	6.2.04	AC				73	6.1.04	NSH
77	126						74		
78	108						75		
79	112						76		
80	124						77		
81	130						78		
82	148						79		
83	126						80		
84	147						81		
85	108						82		
86	149						83		
87	151						84		
88	138						85		
89	129						86		
90	117						87		
91	125						88		
92	131						89		
93	173						90		

Survey Worksheet

W2115

Building: ☒ Lakeside Hospital ☐ MSB Room 2585a

	[ ] Floor Monitor [ ] Meter 2 Det. 1	☒ Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
94	98	6.2.04	AC				91	6.1.04	NSH
95	108						92		
96	114						93		
97	99						94		
98	107						95		
99	83						96		
100	112						97		
101	131						98		
102	122						99		
103	143						100		
104	93						1		
105	120						2		
106	111						3		
107	102						4		
108	96						5		
109	119						6		
110	98						7		
111	103						8		

Walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2SB5A

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
112	124	6.2.04	AC				9	6/1/04	NSH
113	116						10		
114	101						11		
115	97						12		
116	111						13		
117	98						14		
118	115						15		
119	106						16		
120	112						17		
121	89						18		
122	82						19		
123	107						20		
124	85						21		
125	103						22		
126	110						23		
127	120						24		
128	115						25		
129	117						26		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2SB5A

walls

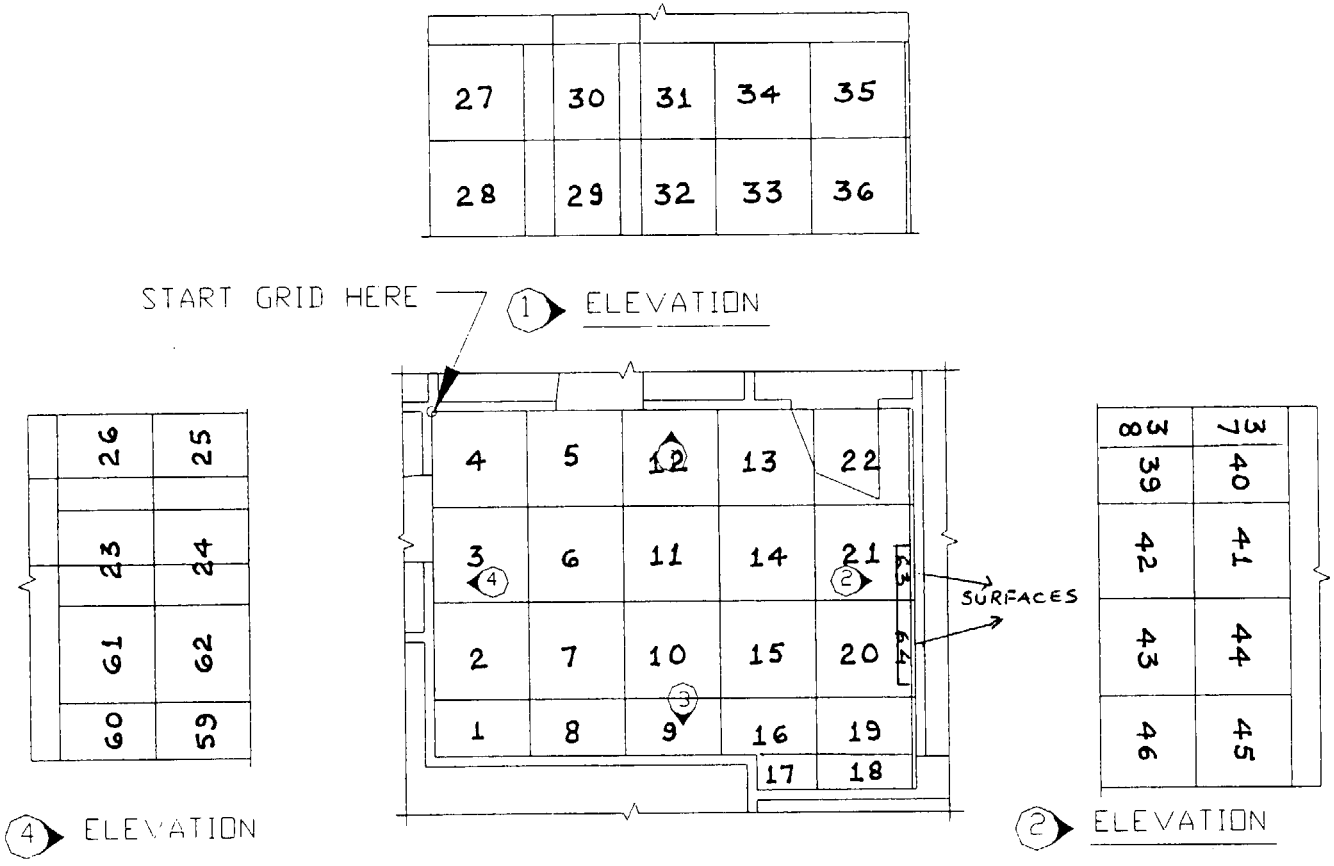
floors

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
130	122	6.2.04	AC				27	6/1/04	JYSM
131	107						28		
132	94						29		
133	74						30		
134	68						31		
135	82						32		
136	80						33		
137	103						34		
138	118						35		
139	107						36		
140	100						37		
141	93						38		
142	106						39		
143	111						40		
144	113						41		
145	84						42		
146	96						43		
147	99						44		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2SB5A

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
148	88	6.2.04	AC				45	6/1/04	NSH
149	107						46		
150	91						47		
151	72						48		
152	110						49		
153	86						50		
154	104						51		
155	108						52		
156	76						53		
157	90						54		
158	101						55		
159	94						56		


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START GRID HERE
1 ELEVATION
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64
SURFACES
26
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23
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61
62
60
59
4 ELEVATION
38
37
39
40
42
41
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44
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45
2 ELEVATION
58
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53
51
49
48
3 ELEVATION

ROOM 2SB08

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2538

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	375	5.26.04	AC	0,02	5/27/04	NSH	1	5.27.04	AC
2	382			0,02			2		
3	429			0,015			3		
4	390			0,02			4		
5	404			0,02			5		
6	399			0,02			6		
7	384			0,015			7		
8	387			0,015			8		
9	414			0,015			9		
10	437			0,015			10		
11	422			0,02			11		
12	403			0,02			12		
13	429			0,02			13		
14	433			0,02			14		
15	412			0,02			15		
16	406			0,01			16		
17	379			0,015			17		
18	427	↓	↓	0,02	↓	↓	18	↓	↓

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB8

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	408	5.26.04	AC	0,01	5/27/04	NSH	19	5.27.04	AC
20	476	↓	↓	0,02	↓	↓	20	↓	↓
21	452	↓	↓	0,02	↓	↓	21	↓	↓
22	420	↓	↓	0,02	↓	↓	22	↓	↓

Survey Worksheet

~~floors~~ walls

Building: ☒ Lakeside Hospital ☐ MSB Room 258

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
23	127	5.26.04	AC				23	5.27.04	AC
24	98						24		
25	118						25		
26	133						26		
27	105						27		
28	119						28		
29	114						29		
30	127						30		
31	154						31		
32	142						32		
33	108						33		
34	114						34		
35	129						35		
36	142						36		
37	160						37		
38	155						38		
39	151						39		
40	134						40		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 258

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
41	162	5.26.04	AC				41	5.27.04	AC
42	137						42		
43	128						43		
44	139						44		
45	144						45		
46	123						46		
47	128						47		
48	115						48		
49	109						49		
50	122						50		
51	165						51		
52	127						52		
53	118						53		
54	131						54		
55	104	5.27.04	AC				55		
56	113						56		
57	98						57		
58	126						58		

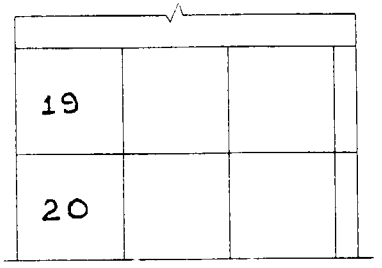
Survey Worksheet

walls

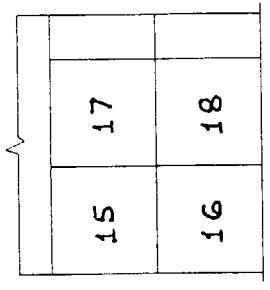
Building: ☒ Lakeside Hospital ☐ MSB Room 2SB8

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
59	115	5.27.04	AC				59	5.27.04	AC
60	108						60		
61	87						61		
62	120						62		
63	133						63		
64	114						64		

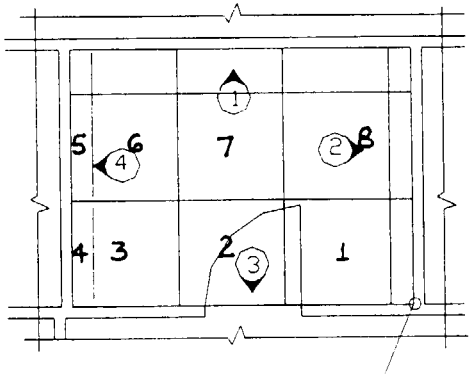
surfaces ↓



1 ELEVATION

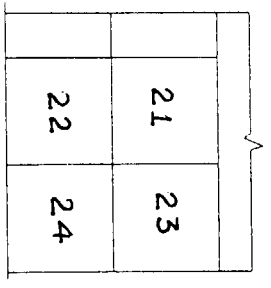


4 ELEVATION

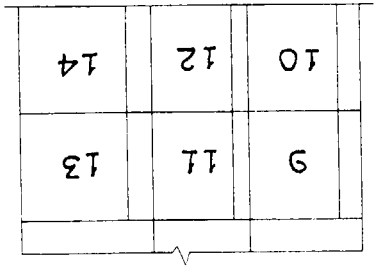


START GRID HERE

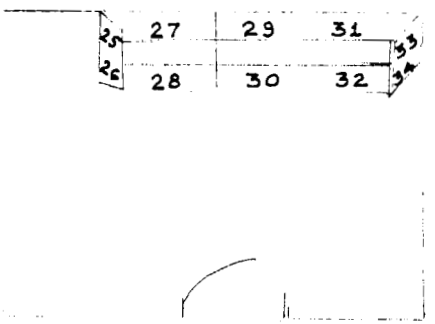
ROOM 2SB08A



2 ELEVATION



3 ELEVATION



ROOM 2SB08A

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2S13-8A

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	492	6/02/04	J.S.	0.005	6/2/04	[illegible]	1	6/2/04	NB
2	393	↓	↓	0.015	↓	↓	2	↓	↓
3	401			0.015			3		
4	413			0.01			4		
5	386			0.01			5		
6	418			0.01			6		
7	462		↓	0.01			7		
8	409	↓		0.01	↓	↓	8	↓	↓

Survey Worksheet

Walls Building: ☑ Lakeside Hospital ☐ MSB Room 258-08A

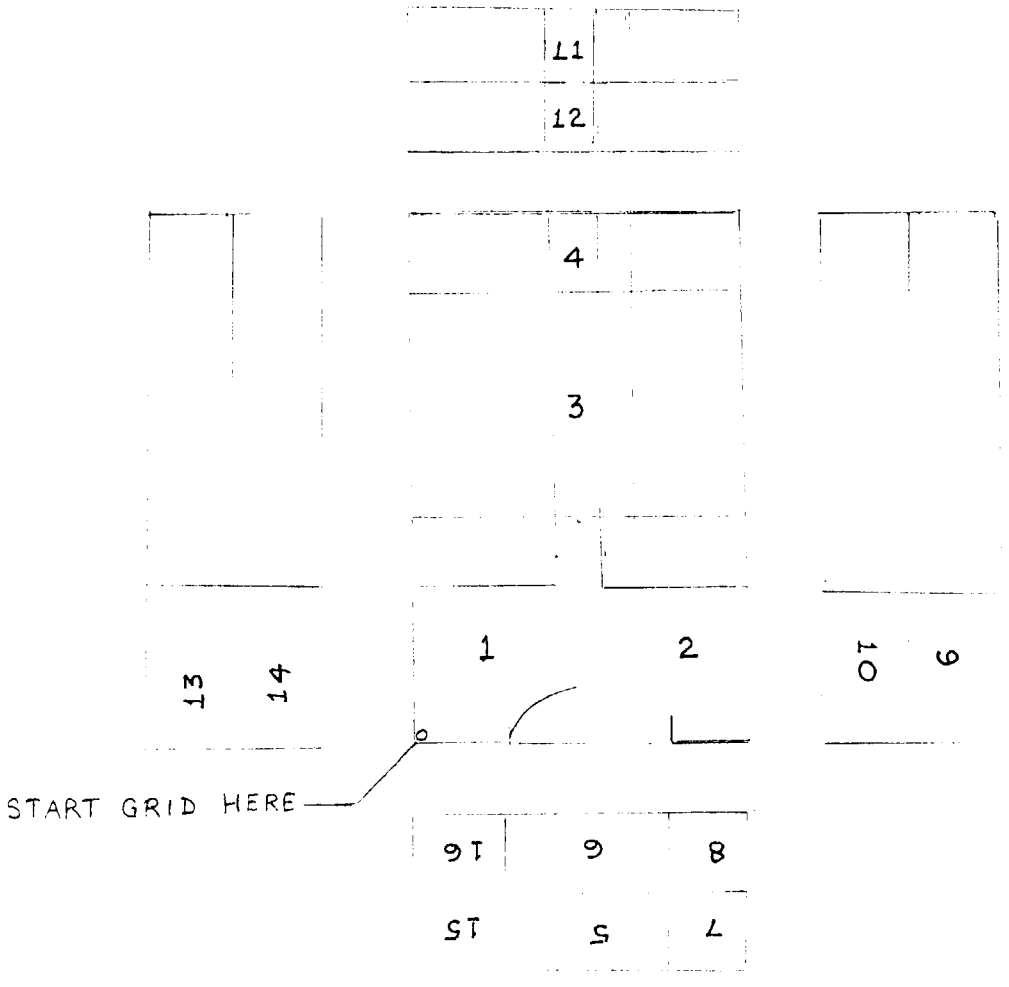
	[ ] Floor Monitor [M] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
9	144	6.2.04	AC				9	6/2/04	NB
10	135	↓	↓				10	↓	↓
11	103						11		
12	117	↓	↓				12		
13	138	6/2/04	NB				13		
14	230						14		
15	168						15		
16	159						16		
17	177						17		
18	135						18		
19	143						19		
20	145						20		
21	203						21		
22	189	↓	↓				22		
23	141	6.2.04	AC				23		
24	155	↓	↓				24	↓	↓

Shelves

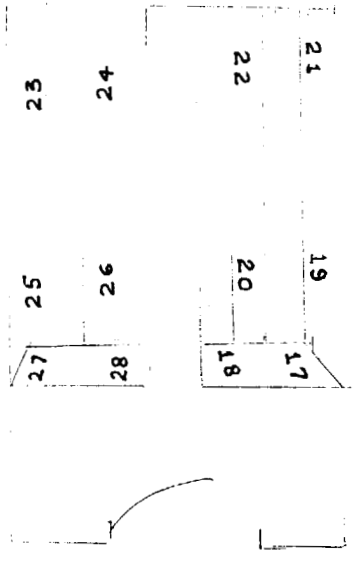
Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 25B-08A

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
25	102	6/2/04	NB				25	6/2/04	NB
26	108	↓	↓				26	↓	↓
27	103						27		
28	168						28		
29	137						29		
30	104						30		
31	117						31		
32	146						32		
33	154						33		
34	140	↓	↓				34	↓	↓



ROOM 2SB08B



ROOM 2SB08B

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 25B-8B

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	118	6.2.04	NB				35	6/2/04	NB
2	138	↓	↓				36	↓	↓
3	143						37		
4	117	↓	↓				38	↓	↓
WALLS	—	—	—				—	—	—
5	172	6.2.04	NB				39	6/2/04	NB
6	133	↓	↓				40	↓	↓
7	113						41		
8	123						42		
9	116						43		
10	138						44		
11	125						45		
12	116						46		
13	138						47		
14	141						48		
15	126						49		
16	118	↓	↓				50	↓	↓

Survey Worksheet

surfaces

Building: ☑ Lakeside Hospital ☐ MSB Room 25B-8B

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
17	117	6.2.04	NB				51	6/2/04	NB
18	96						52		
19	172						53		
20	148						54		
21	162						55		
22	156						56		
23	130						57		
24	125						58		
25	150						59		
26	157						60		
27	175						61		
28	114						62		

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	23-Jul-04
Survey Unit #:	LS-4
Building:	Lakeside Hospital
Floor:	2SB
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Former Simulator Room and adjoining support rooms. Rooms 2SB-09 through -15 plus corridor.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-4.01	S	2a	F	VT	103	122.4	-19.4	-5.22E+02	-1
LS-4.02	S	2a	CT	O	104	96.6	7.4	1.99E+02	-1
LS-4.03	S	2a	F	VT	104	122.4	-18.4	-4.95E+02	-1
LS-4.04	S	2a	F	VT	105	122.4	-17.4	-4.68E+02	-1
LS-4.05	S	2a	F	PT	330	332.6	-2.6	-6.99E+01	-1
LS-4.06	S	2a	F	PT	313	332.6	-19.6	-5.27E+02	-1
LS-4.07	S	2a	F	VT	111	122.4	-11.4	-3.06E+02	-1
LS-4.08	S	2a	F	VT	103	122.4	-19.4	-5.22E+02	-1
LS-4.09	S	2a	F	VT	85	122.4	-37.4	-1.01E+03	-1
LS-4.10	S	2a	F	VT	100	122.4	-22.4	-6.02E+02	-1
LS-4.11	S	2a	F	VT	89	122.4	-33.4	-8.98E+02	-1
LS-4.12	S	2a	F	VT	105	122.4	-17.4	-4.68E+02	-1
LS-4.13	S	2a	W	PL	102	124.4	-22.4	-6.02E+02	-1
LS-4.14	S	2a	F	VT	104	122.4	-18.4	-4.95E+02	-1
LS-4.15	S	2a	F	VT	106	122.4	-16.4	-4.41E+02	-1
LS-4.16	S	2a	F	VT	199	122.4	76.6	2.06E+03	-1
LS-4.17	S	2a	F	VT	102	122.4	-20.4	-5.48E+02	-1
LS-4.18	S	2a	F	VT	121	122.4	-1.4	-3.76E+01	-1
LS-4.19	S	2a	F	VT	104	122.4	-18.4	-4.95E+02	-1
LS-4.20	S	2a	F	VT	99	122.4	-23.4	-6.29E+02	-1

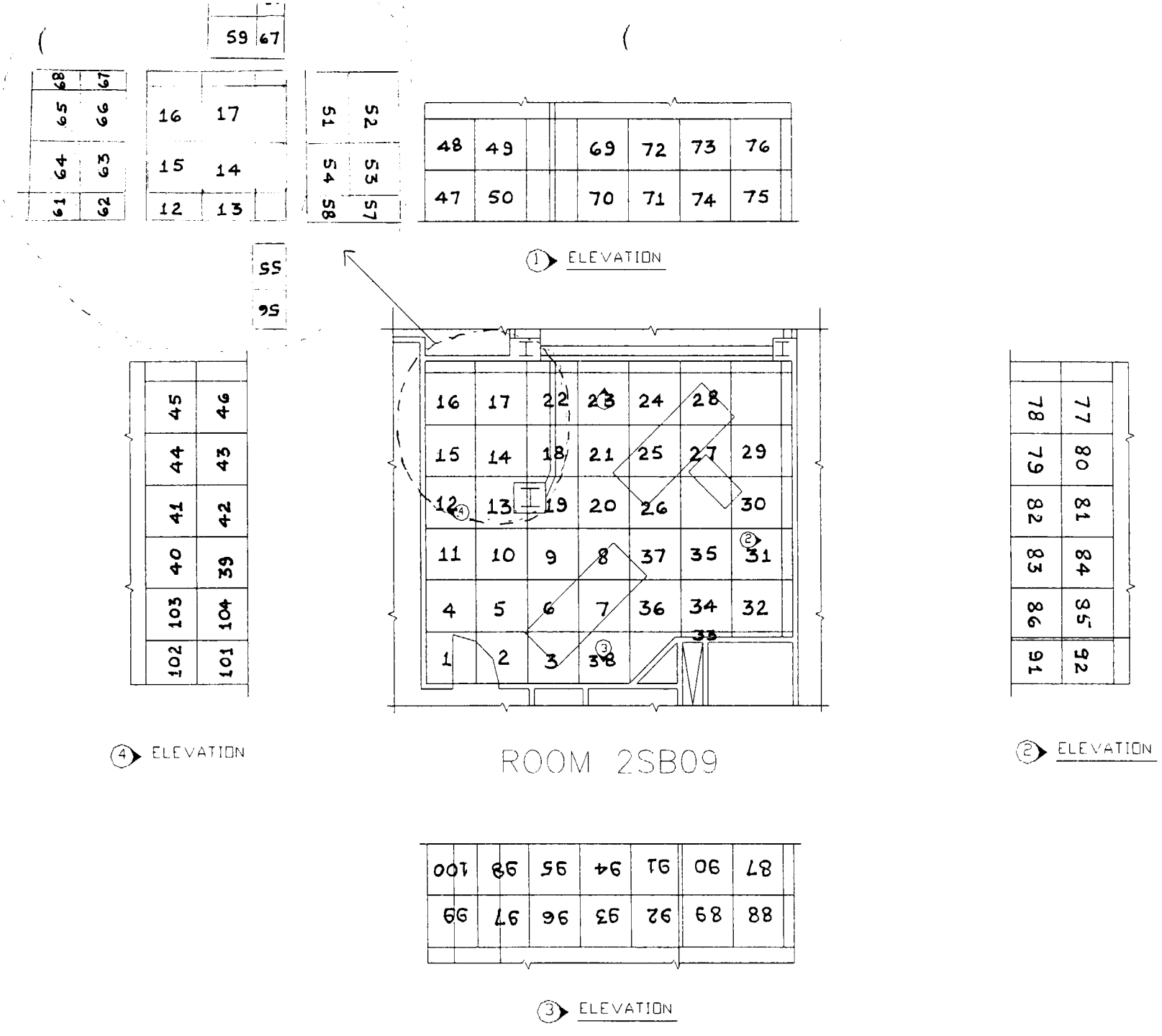
	Mean	**-3.64E+02**
	Median	**-4.95E+02**
	Range	**3.06E+03**
	Std Dev (1 σ)	**6.47E+02**
MARSSIM Sign Test Required?		**NO**

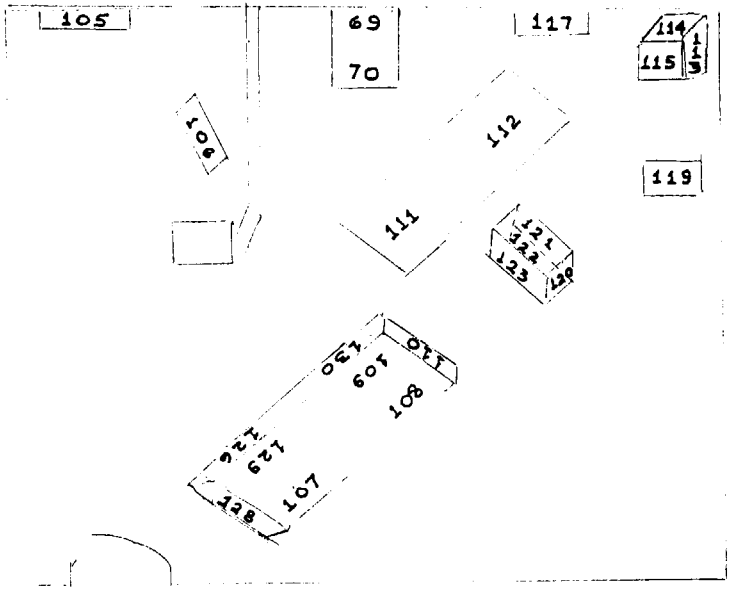
MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Lower Walls	1	(See Survey Worksheet Packages Attached)	

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m)
4 Surface Materials: VT = Vinyl Tile PL = Plaster PT = Porcelain Tile O = Other
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.


59 67
68 67
65 66
64 63
61 62
16 17
15 14
12 13
51 52
54 53
58 57
48 49 69 72 73 76
47 50 70 71 74 75
55
95
45 46
44 43
41 42
40 39
103 104
102 101
16 17 22 23 24 28
15 14 18 21 25 27 29
12 13 19 20 26 30
11 10 9 8 37 35 31
4 5 6 7 36 34 32
1 2 3 38 33
78 77
79 80
82 81
83 84
86 85
91 92
100 99 95 94 91 90 87
99 97 96 93 92 89 88
ROOM 2SB09
1 ELEVATION
4 ELEVATION
2 ELEVATION
3 ELEVATION


105
69
70
117
114
115
113
106
112
119
111
121
122
123
120
130
109
108
126
129
107
128

ROOM 2SB09

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2SB9

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	336	6.1.04	AC	0.015	5/27/04	NSH	83	6/1/04	NSH
2	341			0.015			84		
3	309			0.015			85		
4	323			0.01			86		
5	295			0.01			87		
6	316			0.015			88		
7	277			0.01			89		
8	341			0.01			90		
9	320			0.015			91		
10	266			0.03			92		
11	279			0.02			93		
12	333			0.02			94		
13	280			0.02			95		
14	359			0.02			96		
15	317			0.025			97		
16	314			0.015			98		
17	338			0.02			99		
18	362			0.02			100		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2518 9

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	341	6.1.04	AC	0.015	5/27/04	NSM	62	6/1/04	NSM
20	313			0.02			63		
21	369			0.01			64		
22	346			0.015			65		
23	293			0.02			66		
24	338			0.015			67		
25	351			0.02			68		
26	339			0.01			69		
27	411			0.015			91		
28	338			0.015			92		
29	345			0.01			93		
30	386			0.02			94		
31	402			0.02			95		
32	370			0.02			96		
33	399			0.02			97		
34	390			0.015			98		
35	347			0.02			99		
36	~~346~~ 316			0.02			100		
37	268			0.015			92		
38	358	↓	↓	0.015	↓	↓	93	↓	↓

Survey Worksheet

walls

Building: [x] Lakeside Hospital [ ] MSB Room 2589

	[ ] Floor Monitor [x] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [x] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
39	98	5-27-04	AC				94	6/1/04	NSM
40	109						95		
41	118						96		
42	104						97		
43	125						98		
44	118						99		
45	105						100		
46	112						73		
47	108						74		
48	93						75		
49	128						76		
50	114						77		
51	113						78		
52	268						79		
53	263						80		
54	86						81		
55	102						82		
56	99						83		

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2SB9

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
57	88	5.27.04	AC				84	6/1/04	NSM
58	92						85		
59	108						86		
60	86						87		
61	95						88		
62	112						89		
63	118						90		
64	304						91		
65	122						92		
66	107						93		
67	100						94		
68	105						95		
69	126						96		
70	109						97		
71	112						98		
72	157						99		
73	133						100		
74	118	✓	✓				65	✓	✓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2S139

wall9

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
75	108	5.27.04	AC				66	6/1/04	NSM
76	112	↓	↓				67	↓	↓
77	118	↓	↓				68	↓	↓
78	-	-	-	unable to do survey			-	-	-
79	122	5.27.04	AC				69	6/1/04	NSM
80	99	↓	↓				70	↓	↓
81	105	↓	↓				71	↓	↓
82	124	↓	↓				72	↓	↓
83	133	↓	↓				73	↓	↓
84	118	↓	↓				74	↓	↓
85	115	↓	↓				75	↓	↓
86	126	↓	↓				76	↓	↓
87	107	↓	↓				77	↓	↓
88	98	↓	↓				78	↓	↓
89	89	↓	↓				79	↓	↓
90	138	↓	↓				80	↓	↓
91	126	↓	↓				81	↓	↓
92	114	↓	↓				82	↓	↓

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2S139

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
93	117	5.27.04	AC				83	6/1/04	NSM
94	92						84		
95	99						85		
96	112						86		
97	111						87		
98	106						88		
99	72						89		
100	87						90		
101	95						91		
102	109						92		
103	97						93		
104	86						94		

Survey Worksheet

Surfaces

Building: ☑ Lakeside Hospital ☐ MSB Room 2S139

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
105	115	5.27.04	AC				95	6/11/04	NSH
106	97						96		
107	85						97		
108	83						98		
109	93						99		
110	70						100		
111	102						46		
112	90						47		
113	91						48		
114	126						49		
115	104						50		
116	117						51		
117	122						52		
118	106						53		
119	472						54		
120	92	↓	↓				55		
121	87	5.27.04	AC				56		
122	98	5.27.04	AC				57	↓	↓

Survey Worksheet

Surfaces

Building: ☒ Lakeside Hospital ☐ MSB Room 2539

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
123	87	5.27.04	AC				58	6/1/04	NSm
124	85	↓	↓				59	↓	↓
125	96						60		
126	102						61		
127	108						62		
128	115						63		
129	109						64		
130	121	↓	↓				65	↓	↓

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	23-Jul-04
Survey Unit #:	LS-5
Building:	Lakeside Hospital
Floor:	2SB
FSS Floor Classification:	1
SU DCGLw (dpm/100cm²):	6.94E+03
SU Description:	Room 2SB-02. Sink in janitors closet used for liquid waste disposals to sanitary sewer.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm²)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

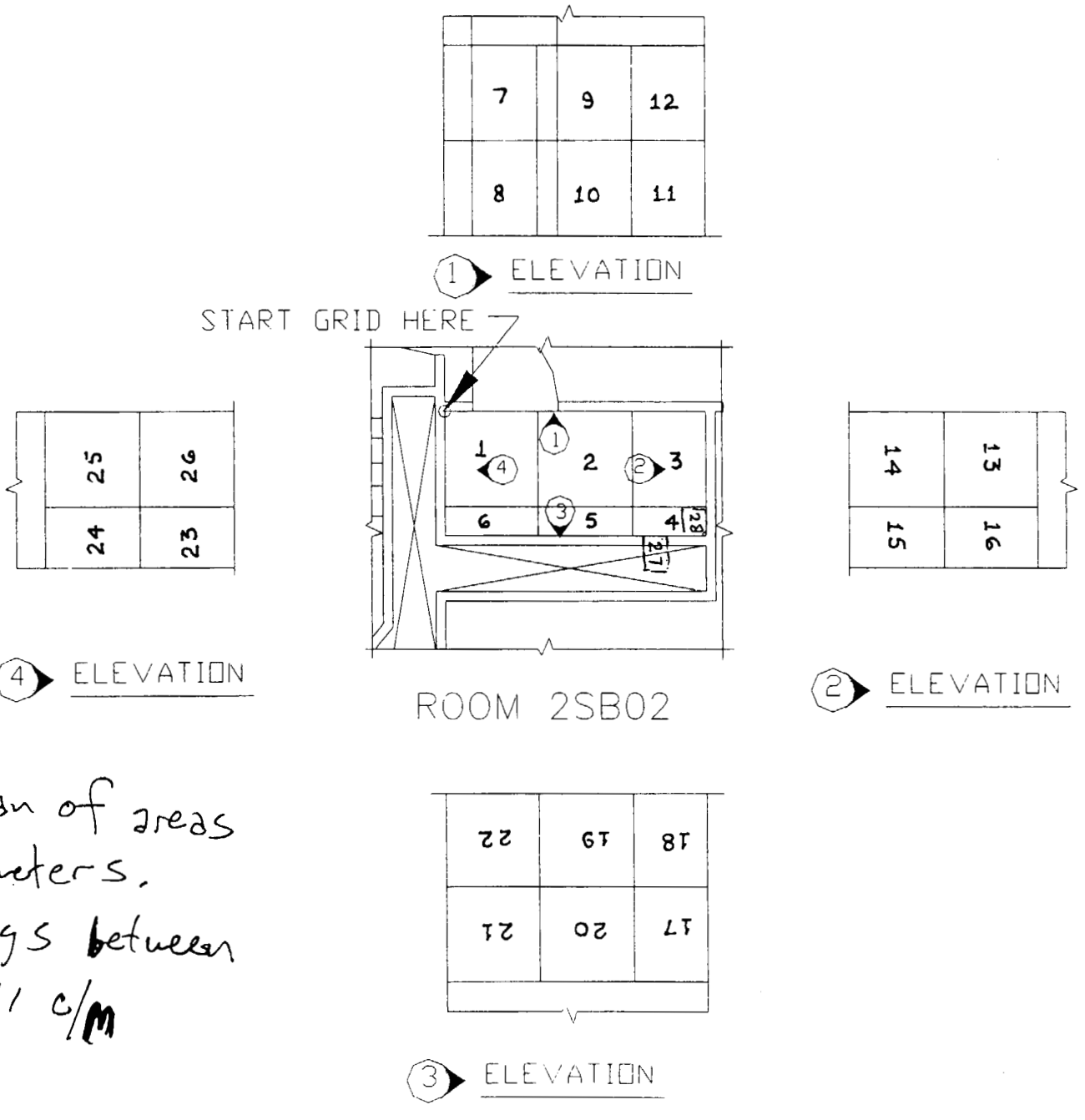
1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm²)	Sign Test Parameter[6]
LS-5.01	S	2a	W	PT	320	332.6	-12.6	-3.39E+02	-1
LS-5.02	S	1	W	PT	333	332.6	0.4	9.95E+00	-1
LS-5.03	S	1	W	PT	347	332.6	14.4	3.58E+02	-1
LS-5.04	S	1	W	PT	320	332.6	-12.6	-3.13E+02	-1
LS-5.05	S	1	W	PT	344	332.6	11.4	2.84E+02	-1
LS-5.06	S	1	F	CT	307	287.8	19.2	4.78E+02	-1
LS-5.07	S	1	F	CT	371	287.8	83.2	2.07E+03	-1
LS-5.08	S	1	W	PT	330	332.6	-2.6	-6.47E+01	-1
LS-5.09	S	1	W	PT	334	332.6	1.4	3.48E+01	-1
LS-5.10	S	1	W	PT	303	332.6	-29.6	-7.36E+02	-1
LS-5.11	S	1	W	PT	352	332.6	19.4	4.83E+02	-1
LS-5.12	S	1	F	CT	403	287.8	115.2	2.87E+03	-1
LS-5.13	S	1	F	CT	353	287.8	65.2	1.62E+03	-1
LS-5.14	S	1	D	O	144	96.6	47.4	1.18E+03	-1
LS-5.15	S	1	W	PT	437	332.6	104.4	2.60E+03	-1
LS-5.16	S	1	C	CT	107	287.8	-180.8	-4.50E+03	-1
LS-5.17	S	1	W	PT	380	332.6	47.4	1.18E+03	-1
LS-5.18	S	2a	C	PL	139	124.4	14.6	3.92E+02	-1
LS-5.19	S	2a	C	PL	125	124.4	0.6	1.61E+01	-1
LS-5.20	S	2a	C	PL	141	124.4	16.6	4.46E+02	-1
							Mean	**4.66E+02**	
							Median	**4.19E+02**	
							Range	**7.36E+03**	
							Std Dev (1 σ)	**1.58E+03**	
							MARSSIM Sign Test Required?		**NO**

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

Scan Survey Results		
Area	**Instr. #**	**Gross CPM Notes**
Floors	F	(See Survey Worksheet Packages Attached)
Walls/Ceilings	1	(See Survey Worksheet Packages Attached)

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = wall C = Ceiling D = Door
4 Surface Materials: CT = Clay Tile PT = Porcelain Tile PL = Plaster O = Other
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.



100% Scan of areas above 2 meters. All readings between 279-371 c/M

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2 SB 2

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	1,340	5.26.04	AC	0.02	5/27/04	MSH	55	5.27.04	AC
2	1,430	↓	↓	0.025	↓	↓	56	↓	↓
3	1,370	↓	↓	0.025	↓	↓	57	↓	↓
4	1,320	↓	↓	0.03	↓	↓	58	↓	↓
5	1,290	↓	↓	0.03	↓	↓	59	↓	↓
6	1,390	↓	↓	0.02	↓	↓	60	↓	↓

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 252

W2115

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
7	381	5.27.04	AC				61	5.27.04	AC
8	335						62		
9	390						63		
10	343						64		
11	392						65		
12	381						66		
13	463						67		
14	363						68		
15	320						69		
16	398						70		
17	349						71		
18	331						72		
19	342						73		
20	374						74		
21	368						75		
22	330						76		
23	358						77		
24	339						78		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 2SB2

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
25	356	5.27.04	AC	↓	↓	↓	79	5.27.04	AC
26	320	↓	↓	↓	↓	↓	80	↓	↓
27	158	↓	↓	-	-	-	81	↓	↓
28	139	↓	↓	-	-	-	[redacted]82	6/1/04	NSM
Sink	-	-	-	-	-	-	Swab	↓	↓
surfaces ↓									

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	9-Aug-04
Survey Unit #:	LS-6
Building:	Lakeside Hospital
Floor:	1SB
FSS Floor Classification:	1
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 1SB-10A. Current waste storage room for Lakeside Hospital building.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-6.01	S	1	W	BR	264	287.8	-23.8	-5.92E+02	-1
LS-6.02	S	1	W	BR	241	287.8	-46.8	-1.16E+03	-1
LS-6.03	S	1	W	BR	286	287.8	-1.8	-4.48E+01	-1
LS-6.04	S	1	W	BR	284	287.8	-3.8	-9.45E+01	-1
LS-6.05	S	1	F	C	164	137.2	26.8	6.67E+02	-1
LS-6.06	S	1	F	C	154	137.2	16.8	4.18E+02	-1
LS-6.07	S	1	F	C	142	137.2	4.8	1.19E+02	-1
LS-6.08	S	1	W	BR	302	287.8	14.2	3.53E+02	-1
LS-6.09	S	1	F	C	150	137.2	12.8	3.18E+02	-1
LS-6.10	S	1	F	C	162	137.2	24.8	6.17E+02	-1
LS-6.11	S	1	F	C	179	137.2	41.8	1.04E+03	-1
LS-6.12	S	1	W	BR	329	287.8	41.2	1.02E+03	-1
LS-6.13	S	1	W	BR	272	287.8	-15.8	-3.93E+02	-1
LS-6.14	S	1	W	BR	234	287.8	-53.8	-1.34E+03	-1
LS-6.15	S	1	W	BR	270	287.8	-17.8	-4.43E+02	-1
LS-6.16	S	1	C	C	154	137.2	16.8	4.18E+02	-1
LS-6.17	S	1	C	C	156	137.2	18.8	4.68E+02	-1
LS-6.18	S	1	C	C	161	137.2	23.8	5.92E+02	-1
LS-6.19	S	1	C	C	155	137.2	17.8	4.43E+02	-1
LS-6.20	S	1	C	C	148	137.2	10.8	2.69E+02	-1
LS-6.21	S	1	C	C	165	137.2	27.8	6.92E+02	-1

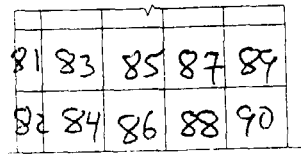
Mean	2.46E+02
Median	3.86E+02
Range	2.38E+03
Std Dev (1 σ)	5.66E+02
MARSSIM Sign Test Required?	NO

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	0
Sign Test Critical Value (n=20)	14
Null Hypothesis Evaluation	N/A

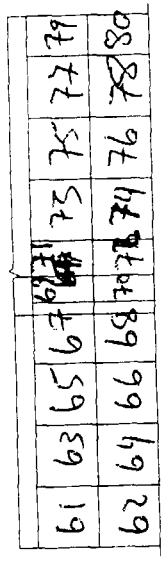
Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Walls/Ceilings	1	(See Survey Worksheet Packages Attached)	

NOTES:

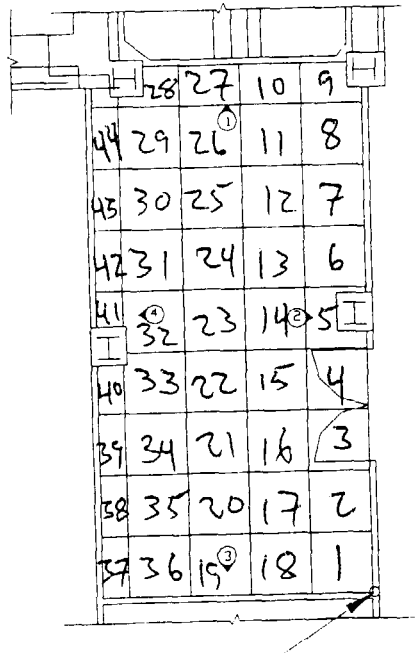
1. Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2. Sample Type: S = Systematic Location B = Biased Location
3. F = floor W = wall C = ceiling
4. Surface Materials: C = Concrete BR = Brick
5. Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6. MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.



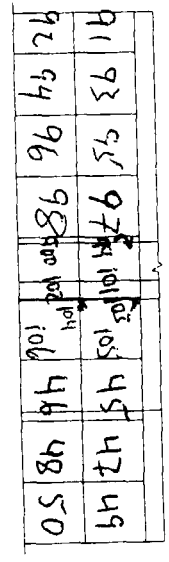
① ELEVATION



④ ELEVATION

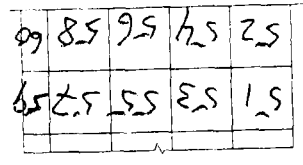


START GRID HERE

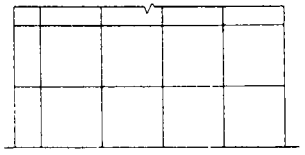


② ELEVATION

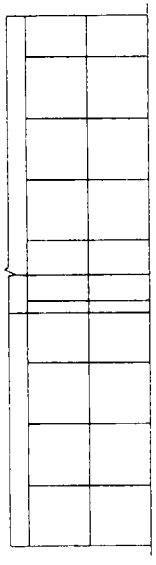
ROOM 1SB10A



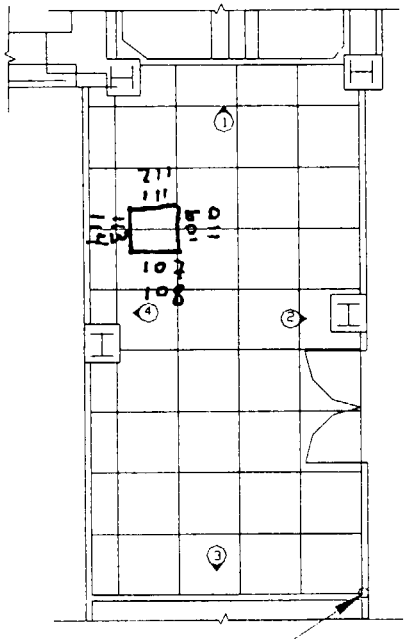
③ ELEVATION

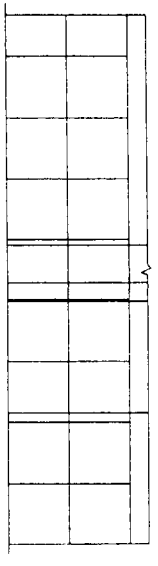


① ELEVATION



④ ELEVATION

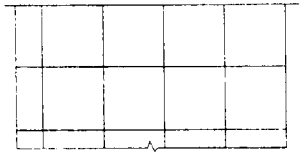




② ELEVATION

ROOM 1SB10A

Surfaces



③ ELEVATION

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 1SB 10A

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	609	8/9/04	NSM	0.02	8/9/04	NSM	1	8/9/04	NSM
2	603	↓	↓	0.02	↓	↓	2	↓	↓
3	540	↓	↓	0.02	↓	↓	3	↓	↓
4	480	↓	↓	0.02	↓	↓	4	↓	↓
5	511	↓	↓	0.02	↓	↓	5	↓	↓
6	485	↓	↓	0.02	↓	↓	6	↓	↓
7	544	↓	↓	0.02	↓	↓	7	↓	↓
8	568	↓	↓	0.02	↓	↓	8	↓	↓
9	524	↓	↓	0.02	↓	↓	9	↓	↓
10	514	↓	↓	0.02	↓	↓	10	↓	↓
11	461	↓	↓	0.02	↓	↓	11	↓	↓
12	532	↓	↓	0.02	↓	↓	12	↓	↓
13	1580	↓	↓	0.02	↓	↓	13	↓	↓
14	508	↓	↓	0.02	↓	↓	14	↓	↓
15	459	↓	↓	0.02	↓	↓	15	↓	↓
16	489	↓	↓	0.02	↓	↓	16	↓	↓
17	2650	↓	↓	0.02	↓	↓	17	↓	↓
18	565	↓	↓	0.02	↓	↓	18	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room ISB 10A

	[M] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[M] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	629	8/9/04	MSH	0.02	8/9/04	MSH	19	8/9/04	MSH
20	554			0.02			20		
21	521			0.02			21		
22	501			0.02			22		
23	430			0.02			23		
24	471			0.02			24		
25	507			0.02			25		
26	497			0.02			26		
27	525			0.02			27		
28	[redacted]532			0.02			28		
29	565			0.02			29		
30	542			0.02			30		
31	489			0.02			31		
32	436			0.02			32		
33	603			0.02			33		
34	527			0.02			34		
35	1070			0.02			35		
36	1,240	↓	↓	0.02	↓	↓	36	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 1SB 10A

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	660	8/9/04	NSM	0.02	8/9/04	NSM	37	8.9.04	NSM
38	601	↓	↓	0.02	↓	↓	38	↓	↓
39	546	↓	↓	0.02	↓	↓	39	↓	↓
40	630	↓	↓	0.02	↓	↓	40	↓	↓
41	468	↓	↓	0.02	↓	↓	41	↓	↓
42	158	↓	↓	0.02	↓	↓	42	↓	↓
43	140	↓	↓	0.02	↓	↓	43	↓	↓
44	783	↓	↓	0.02	↓	↓	44	↓	↓

meter #1

Survey Worksheet

WALLS

Building: ☐ Lakeside Hospital ☐ MSB Room LSB 10A

	[ ] Floor Monitor [⋈] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [⋈] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
45	121	8.9.04	AC				45	8.9.04	NSH
46	109	8.9.04	AC				46		
47	288	8/9/04	NSH				47		
48	254						48		
49	293						49		
50	264						50		
51	285						51		
52	293						52		
53	310						53		
54	288						54		
55	358						55		
56	321						56		
57	316						57		
58	344						58		
59	297						59		
60	358						60		
61	261						61		
62	268						62		

walls

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 1SB 10A

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
63	264	8/9/04	NSH				63	8/9/04	NSH
64	251						64		
65	243						65		
66	254						66		
67	283						67		
68	267						68		
69	161						69		
70	149						70		
71	219						71		
72	247						72		
73	233						73		
74	230						74		
75	239						75		
76	289						76		
77	241						77		
78	283						78		
79	235						79		
80	221						80		

Survey Worksheet

Walls

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB10

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
81	188	8/9/04	NSH				81	8/9/04	NSH
82	202						82		
83	257						83		
84	254						84		
85	287						85		
86	275						86		
87	299						87		
88	345						88		
89	247						89		
90	263						90		
91	229						91		
92	281						92		
93	307						93		
94	294						94		
95	263						95		
96	292						96		
97	283						97		
98	271	↓	↓				98	↓	↓

Survey Worksheet

Wall 3

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB10

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
99	158	8/9/04	AC				99	8/9/-4	NSH
100	137	↓	↓				100	↓	↓
101	154						101		
102	125						102		
103	136						103		
104	128						104		
105	98						105		
106	104	↓	↓				106	↓	↓

Surface

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 1SB10

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
107	151	8/9/04	NSH				107	8/9/04	NSH
108	126	↓	↓				108	↓	↓
109	112						109		
110	140						110		
111	83						111		
112	107						112		
113	128						113		
114	133	↓	↓				114	↓	↓

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1st 10A

Resurvey

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	598	8.11.04	AC				15	8.11.04	AC
20	621	↓	↓				16	↓	↓
21	634						17		
34	578						18		
35	1220						19		
36	1410						20		
37	618						21		
38	589	↓	↓				22		
39	648						23	↓	↓

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	26-Jul-04
Survey Unit #:	LS-7
Building:	Lakeside Hospital
Floor:	1SB
FSS Floor Classification:	1
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 1SB-13. Historical waste storage room.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-7.01	S	1	W	CT	296	287.8	8.2	2.04E+02	-1
LS-7.02	S	1	W	CT	336	287.8	48.2	1.20E+03	-1
LS-7.03	S	1	W	CT	364	287.8	76.2	1.90E+03	-1
LS-7.04	S	1	F	C	162	137.2	24.8	6.17E+02	-1
LS-7.05	S	1	F	C	151	137.2	13.8	3.43E+02	-1
LS-7.06	S	1	F	C	173	137.2	35.8	8.91E+02	-1
LS-7.07	S	1	W	CT	321	287.8	33.2	8.26E+02	-1
LS-7.08	S	1	W	CT	322	287.8	34.2	8.51E+02	-1
LS-7.09	S	1	F	C	196	137.2	58.8	1.46E+03	-1
LS-7.10	S	1	F	C	177	137.2	39.8	9.90E+02	-1
LS-7.11	S	1	W	CT	336	287.8	48.2	1.20E+03	-1
LS-7.12	S	1	W	CT	323	287.8	35.2	8.76E+02	-1
LS-7.13	S	1	W	CT	309	287.8	21.2	5.27E+02	-1
LS-7.14	S	1	W	CT	346	287.8	58.2	1.45E+03	-1
LS-7.15	S	1	C	C	175	137.2	37.8	9.40E+02	-1
LS-7.16	S	1	C	C	166	137.2	28.8	7.16E+02	-1
LS-7.17	S	1	C	C	171	137.2	33.8	8.41E+02	-1
LS-7.18	S	1	C	C	141	137.2	3.8	9.45E+01	-1
LS-7.19	S	1	C	C	132	137.2	-5.2	-1.29E+02	-1
LS-7.20	S	1	C	C	159	137.2	21.8	5.42E+02	-1

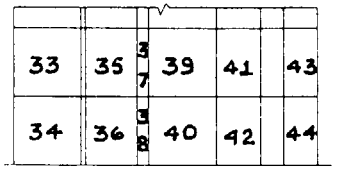
	Mean	**8.29E+02**
	Median	**8.46E+02**
	Range	**2.02E+03**
	Std Dev (1 σ)	**4.87E+02**
MARSSIM Sign Test Required?		**NO**

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

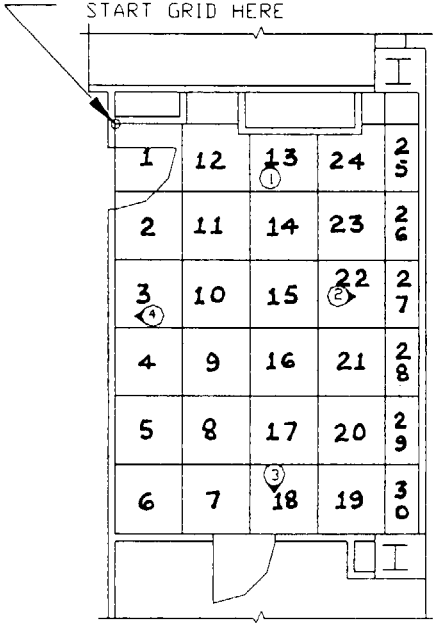
Scan Survey Results			
Area	**Instr. #**	**Gross CPM**	**Notes**
Floors	F	(See Survey Worksheet Packages Attached)	
Walls / Ceilings	1	(See Survey Worksheet Packages Attached)	

NOTES:

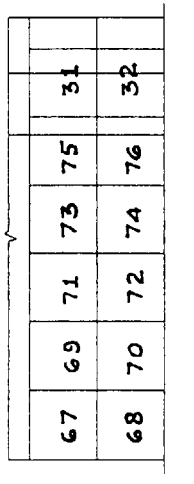
1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = Wall
4 Surface Materials: CT = clay tile C = concrete
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.



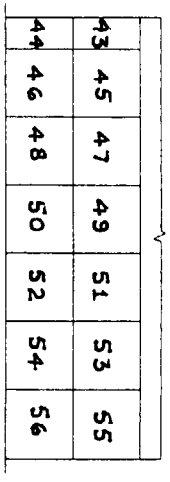
① ELEVATION



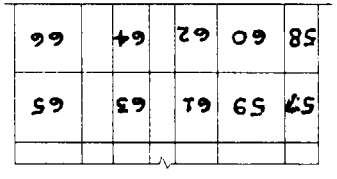
ROOM 1SB13



④ ELEVATION



② ELEVATION



③ ELEVATION

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB13

	[M] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	640	6/03/04	F.S.	0.02	6.03.04	AC	92	6/4/04	NSN
2	620			0.015			93		
3	603			0.025			94		
4	589			0.01			95		
5	545			0.01			96		
6	524			0.02			97		
7	580			0.025			98		
8	535			0.015			99		
9	613			0.03			100		
10	518			0.015			1		
11	535			0.02			2		
12	608			0.025			3		
13	658			0.015			4		
14	592			0.02			5		
15	588			0.02			6		
16	565			0.01			7		
17	562			0.01			8		
18	578			0.02			9		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB13

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	~~624~~	6.3.04	J.S.	0.015	6.3.04	AC	10	6/4/04	HSM
20	631	↓	↓	0.01	↓	↓	11	↓	↓
21	610			0.025			12		
22	603			0.015			13		
23	717			0.015			14		
24	626			0.03			15		
25	~~608~~			0.02			16		
26	606			0.015			17		
27	580			0.02			18		
28	689			0.02			19		
29	622			0.015			20		
30	640	↓	↓	0.02	↓	↓	21	↓	↓
~~31~~									
~~32~~									

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB13

Grid Position	[ ] Floor Monitor [ ] Meter 2 Det. 1 [X] Meter 1 [ ] Meter 2 Det. 2 — [✓] Floor Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
31	132	6.3.04	AC				22	6/4/04	WSM
32	144	↓	↓				23	↓	↓
33	298						24		
34	340						25		
35	348						26		
36	331						27		
37	323						28		
38	294						29		
39	322						30		
40	359						31		
41	368						32		<
42	402						33		
43	418						34		
44	426						35		
45	327						36		
46	352						37		
47	371						38		
48	349	↓	↓				39	↓	↓

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB13

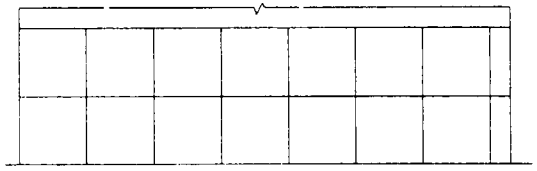
	[ ] Floor Monitor [ ] Meter 2 Det. 1	☒ Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
49	388	6.3.04	AC				40	6/4/04	MSH
50	360	↓	↓				41	↓	↓
51	346						42		
52	304						43		
53	296						44		
54	345						45		
55	339						46		
56	346						47		
57	168						48		
58	153						49		
59	355						50		
60	366						51		
61	370						52		
62	331						53		
63	360						54		
64	210						55		
65	430						56		
66	415	↓	↓				57	↓	↓

Walls

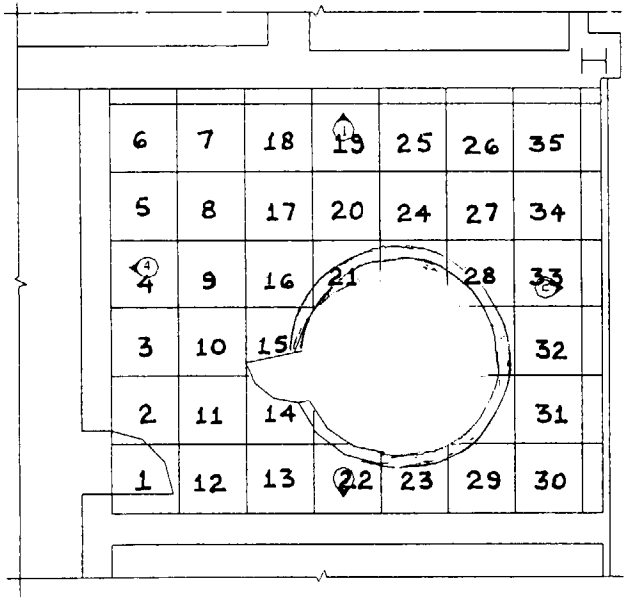
Survey Worksheet

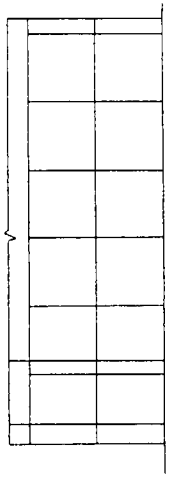
Building: ☒ Lakeside Hospital ☐ MSB Room 1SB13

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
67	365	6/03/04	AC				58	6/4/04	MSy
68	321	↓	↓				59	↓	↓
69	328						60		
70	337						61		
71	318						62		
72	357						63		
73	374						64		
74	368						65		
75	216						66		
76	210	↓	↓				67	↓	↓

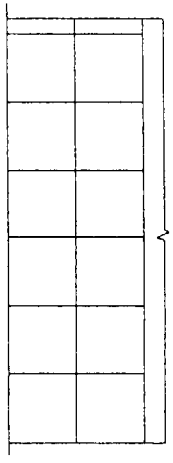


① ELEVATION



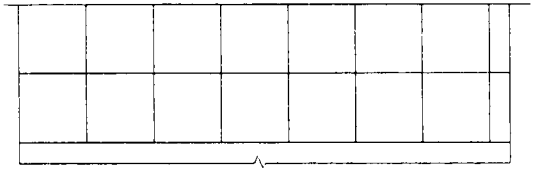


④ ELEVATION



② ELEVATION

ROOM 1SB12A



③ ELEVATION

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date: 26-Jul-04
Survey Unit #: LS-8
Building: Lakeside Hospital
Floor: 1SB
FSS Floor Classification: 1
SU DCGLw (dpm/100cm^2): 6.94E+03
SU Description: Room 1SB-12A. Historical waste storage room

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-8.01	S	1	W	C	138	137.2	0.8	1.99E+01	-1
LS-8.02	S	1	W	C	151	137.2	13.8	3.43E+02	-1
LS-8.03	S	1	W	C	157	137.2	19.8	4.93E+02	-1
LS-8.04	S	1	F	C	127	137.2	-10.2	-2.54E+02	-1
LS-8.05	S	1	F	C	128	137.2	-9.2	-2.29E+02	-1
LS-8.06	S	1	F	C	116	137.2	-21.2	-5.27E+02	-1
LS-8.07	S	1	W	C	125	137.2	-12.2	-3.03E+02	-1
LS-8.08	S	1	F	C	158	137.2	20.8	5.17E+02	-1
LS-8.09	S	1	F	C	155	137.2	17.8	4.43E+02	-1
LS-8.10	S	1	W	C	144	137.2	6.8	1.69E+02	-1
LS-8.11	S	1	W	C	166	137.2	28.8	7.16E+02	-1
LS-8.12	S	1	F	C	139	137.2	1.8	4.48E+01	-1
LS-8.13	S	1	F	C	180	137.2	42.8	1.06E+03	-1
LS-8.14	S	1	F	C	167	137.2	29.8	7.41E+02	-1
LS-8.15	S	1	W	C	171	137.2	33.8	8.41E+02	-1
LS-8.16	S	1	W	CT	289	287.8	1.2	2.99E+01	-1
LS-8.17	S	1	W	CT	293	287.8	5.2	1.29E+02	-1
LS-8.18	S	1	C	C	148	137.2	10.8	2.69E+02	-1
LS-8.19	S	1	C	C	146	137.2	8.8	2.19E+02	-1
LS-8.20	S	1	C	C	164	137.2	26.8	6.67E+02	-1
LS-8.21	S	1	C	C	139	137.2	1.8	4.48E+01	-1
LS-8.22	S	1	C	C	150	137.2	12.8	3.18E+02	-1

	Mean	2.70E+02
	Median	2.44E+02
	Range	1.59E+03
	Std Dev (1 σ)	4.21E+02
MARSSIM Sign Test Required?		NO

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	0
Sign Test Critical Value (n=20)	14
Null Hypothesis Evaluation	N/A

Scan Survey Results

Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Walls / Ceilings	1	(See Survey Worksheet Packages Attached)	

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = wall C = ceiling
4 Surface Materials: C = concrete CT = clay tile
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS.
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

ROOM 1SB 12A

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 1SB 12A

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	424	6/03/04	T.S.	0.03	6/03/04	T.S.	1	6/03/04	T.S.
2	433			0.025			2		
3	454			0.02			3		
4	482			0.02			4		
5	475			0.01			5		
6	510			0.015			6		
7	562			0.01			7		
8	463			0.015			8		
9	482			0.02			9		
10	448			0.025			10		
11	430			0.015			11		
12	459			0.02			12		
13	678			0.01			13		
14	525			0.02			14		
15	469			0.015			15		
16	538			0.01			16		
17	508			0.02			17		
18	522			0.01			18		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 1SB-12A

Grid Position	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [✓] Floor [ ] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	583	6/03/04	T.S.	0.01	6.3.04	T.S.	19	6/03/04	T.S.
20	557	↓	↓	0.01	↓	↓	20	↓	↓
21	508			0.02			21		
22	495	↓	↓	0.015	↓	↓	22		
meter:1 – 23	138	6.15.04	AC	INACCESSIBLE			23		
24	535	6.3.04	T.S.	0.01	6.3.04	T.S.	24		
25	574	↓	↓	0.02	↓	↓	25		
26	567			0.00			26		
27	560			0.015			27		
28	531	↓	↓	0.01	↓	↓	28		
meter:1 – 29	155	6.15.04	AC	INACCESSIBLE			29		
30	443	6.3.04	T.S		↓		30		
31	439	↓	↓				31		
32	596			0.02	6.3.04	T.S.	32		
33	585			0.02	↓	↓	33		
34	542			0.015			34		
35	532	↓	↓	0.01	↓	↓	35		
								↓	↓

Survey Worksheet

Walls

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB12A

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
36	99	6.3.04	AC	—	—	—	36	6/03/04	T.S.
37	126	↓	↓	—	—	—	37	↓	↓
38	105			—	—	—	38		
39	92			—	—	—	39		
40	142			—	—	—	40		
41	129			—	—	—	41		
42	168			—	—	—	42		
43	149			—	—	—	43		
44	268			—	—	—	44		
45	293			—	—	—	45		
46	273			—	—	—	46		
47	264			—	—	—	47		
48	268			—	—	—	48		
49	241			—	—	—	49		
50	272			—	—	—	50		
51	307			—	—	—	51		
52	268			—	—	—	52		
53	300	↓	↓	—	—	—	53	↓	↓

Survey Worksheet

walls

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB12A

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
54	293	6.3.04	AC	—	—	—	54	6/03/04	T. S.
55	272	↓	↓	—	—	—	55	↓	↓
56	302			—	—	—	56		
57	288			—	—	—	57		
58	156			—	—	—	58		
59	132			—	—	—	59		
60	140			—	—	—	60		
61	129			—	—	—	61		
62	146			—	—	—	62		
63	134			—	—	—	63		
64	132			—	—	—	64		
65	148			—	—	—	65		
66	137			—	—	—	66		
67	126	↓	↓	—	—	—	67		
68	134	6.3.04	AC	—	—	—	68		
69	142	↓	↓	—	—	—	69		
70	123			—	—	—	70		
71	137	↓	↓	—	—	—	71	↓	↓

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1513 12A

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
72	134	6.3.04	AC	—	—	—	72	6/03/04	T. S.
73	139	6.3.04	AC	—	—	—	73		
74	128	6.3.04	AC	—	—	—	74		
75	152	6.3.04	AC	—	—	—	~~75~~		
76	119	6.3.04	AC	—	—	—	76		
77	134			—	—	—	77		
78	142			—	—	—	78		
79	135			—	—	—	79		
80	145			—	—	—	80		
81	162			—	—	—	81		
82	136			—	—	—	82		
83	143			—	—	—	83		
84	93			—	—	—	84		
85	76			—	—	—	85	↓	↓
86	137	6/04/04	~~T.~~ S.	—	—	—	86	6.04.04	AC
87	140			—	—	—	87		
88	152			—	—	—	88		
89	194	↓	↓	—	—	—	89	↓	↓

on walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 15B-12A

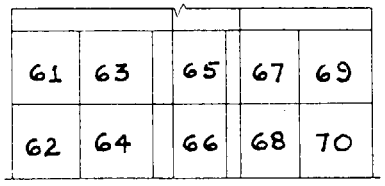
	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
90	113	6/04/04	T. S.				90	6.4.04	AC
91	142						91		
92	209						92		
93	185						93		
94	149						94		
95	168						95		
96	171						96		
97	194						97		
98	163						98		
99	200						99		
100	230						100		
101	188						57		
102	174						58		
103	145						59		
104	240						60		
105	207						61		
106	160						62		
107	137						63		

Survey Worksheet

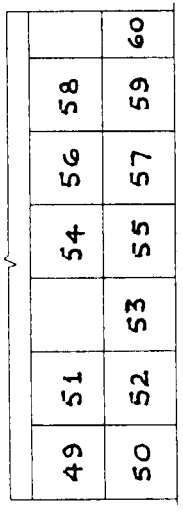
Surfaces

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB12A

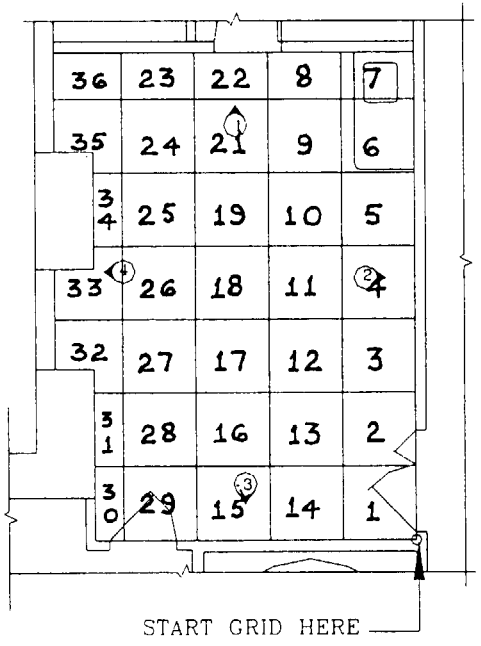
	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
108	101	6.4.04	T.S.				64	6.4.04	AE
109	89	↓	↓				65	↓	↓
110	92						66		
111	78						67		
112	104	↓	↓				68	↓	↓

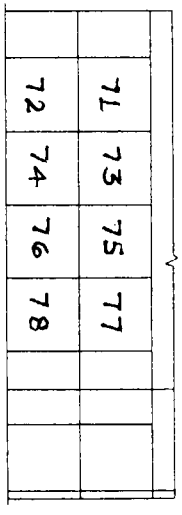


1 ELEVATION



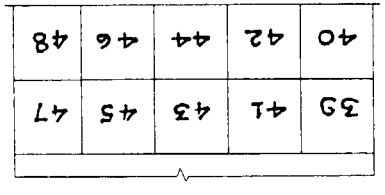
4 ELEVATION





2 ELEVATION

ROOM 254



3 ELEVATION

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	26-Jul-04
Survey Unit #:	LS-9
Building:	Lakeside Hospital
Floor:	2
FSS Floor Classification:	2
SU DCGLw (dpm/100cm²):	6.94E+03
SU Description:	Nuc Med imaging rooms, 'hot lab', adjacent hallway, and rooms 255, 256, 259, 259B, and 262. Also Room 206 in northeast corridor.

Instrument Number	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm²)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

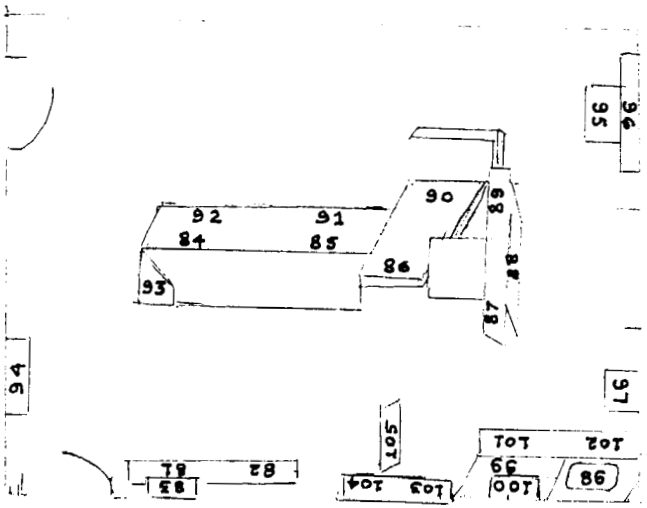
1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm²)	Sign Test Parameter[6]
LS-9.01	S	1	F	C	168	137.2	30.8	7.66E+02	-1
LS-9.02	S	1	F	VT	117	122.4	-5.4	-1.34E+02	-1
LS-9.03	S	1	W	DW	172	119.2	52.8	1.31E+03	-1
LS-9.04	S	1	W	PL	141	124.4	16.6	4.13E+02	-1
LS-9.05	S	1	F	VT	140	122.4	17.6	4.38E+02	-1
LS-9.06	S	1	W	DW	121	119.2	1.8	4.48E+01	-1
LS-9.07	S	1	F	C	133	137.2	-4.2	-1.04E+02	-1
LS-9.08	S	1	F	VT	122	122.4	-0.4	-9.95E+00	-1
LS-9.09	S	1	F	VT	116	122.4	-6.4	-1.59E+02	-1
LS-9.10	S	1	F	VT	122	122.4	-0.4	-9.95E+00	-1
LS-9.11	S	1	CT	SST	143	122	21	5.22E+02	-1
LS-9.12	S	1	W	DW	96	119.2	-23.2	-5.77E+02	-1
LS-9.13	S	1	F	VT	121	122.4	-1.4	-3.48E+01	-1
LS-9.14	S	1	F	VT	118	122.4	-4.4	-1.09E+02	-1
LS-9.15	S	1	F	VT	104	122.4	-18.4	-4.58E+02	-1
LS-9.16	S	1	F	C	119	137.2	-18.2	-4.53E+02	-1
LS-9.17	S	1	F	C	120	137.2	-17.2	-4.28E+02	-1
LS-9.18	S	1	F	C	109	137.2	-28.2	-7.01E+02	-1
LS-9.19	S	1	W	DW	156	119.2	36.8	9.15E+02	-1
LS-9.20	S	1	F	VT	144	122.4	21.6	5.37E+02	-1

Scan Survey Results		
Area	Instr. #	Gross CPM Notes
Floors	F	(See Survey Worksheet Packages Attached)
Lower Walls	1, 2A	(See Survey Worksheet Packages Attached)

	Mean	**8.86E+01**
	Median	**-2.24E+01**
	Range	**2.01E+03**
	Std Dev (1 σ)	**5.34E+02**
MARSSIM Sign Test Required?		**NO**
MARSSIM SIGN TEST EVALUATION		
Sum of Positive Signs		**0**
Sign Test Critical Value (n=20)		**14**
Null Hypothesis Evaluation		**N/A**

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m) CT = countertop
4 Surface Materials: C = Concrete VT = Vinyl Tile SST = Synthetic Stone Countertop DW = Drywall PL = Plaster
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.


96
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105
102
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103
104
100
98

ROOM 254

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 254

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	437	6/22/04	T.S	0.01	6/22/04	YSL	62	6/22/04	NSM
2	421			0.01			63		
3	411			0.01			64		
4	394			0.01			65		
5	388			0.01			66		
6	403			0.01			67		
7	408			0.01			68		
8	388			0.005			69		
9	395			0.01			70		
10	404			0.01			71		
11	396			0.01			72		
12	411			0.01			73		
13	415			0.01			74		
14	441			0.01			75		
15	427			0.01			76		
16	408			0.015			77		
17	402			0.015			78		
18	394	↓	↓	0.01	↓	↓	79	↓	↓

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 254

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	400	6/22/04	T. S.	0.015	6/22/04	[illegible]	80	6/22/04	MSN
20	Does not exist			do					
21	374			0.01	6/22/04	[illegible]	81		
22	313			0.01			82		
23	371			0.01			83		
24	365			0.01			84		
25	361			0.005			85		
26	356			0.01			86		
27	374			0.01			87		
28	390			0.01			88		
29	381			0.01			89		
30	385			0.015			90		
31	393			0.02			91		
32	385			0.015			92		
33	319			0.01			93		
34	365			0.01			94		
35	392			0.015			95		
36	398	↓	↓	0.015	↓	↓	96	↓	↓

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 254

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	111	6/22/04	AC				97	6/22/04	NSM
38	117						98		
39	158						99		
40	166						100		
41	172						1		
42	176						2		
43	158						3		
44	164						4		
45	120						5		
46	116						6		
47	134						7		
48	141						8		
49	139						9		
50	144						10		
51	161						11		
52	157						12		
53	128						13		
54	171						14		

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 254

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
55	162	6.22.04	AC				15	6/22/04	NSM
56	134						16		
57	151						17		
58	148						18		
59	136						19		
60	116						20		
61	156						21		
62	149	↓	↓				22		
63	128	6/22/04	NB				23		
64	119						24		
65	117						25		
66	130						26		
67	127						27		
68	115						28		
69	132						29		
70	150						30		
71	130						31		
72	127	↓	↓				32	↓	↓

meter 2 Det 1 ↓

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 254

	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
73	140	6/22/04	NB				33	6/22/04	NSM
74	158						34		
75	113						35		
76	115						36		
77	133						37		
78	129						38		
79	139						39		
80	167						40		
~~81~~									
~~82~~									

Survey Worksheet

Other

Building: ☑ Lakeside Hospital ☐ MSB Room 254

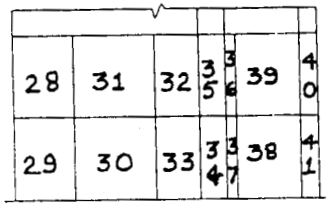
	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
81	135	6/22/04	SM				41	6/22/04	NSM
82	138						42		
83	119						43		
84	117						44		
85	112						45		
86	116						46		
87	107						47		
88	111						48		
89	116						49		
90	113						50		
91	111						51		
92	114						52		
93	106						53		
94	122						54		
95	98						55		
96	92						56		
97	116						57		
98	114	↓	↓				58	↓	↓

Survey Worksheet

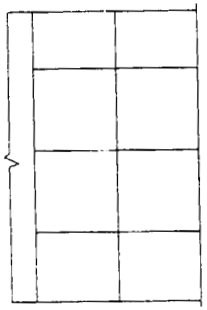
other

Building: ☒ Lakeside Hospital ☐ MSB Room 254

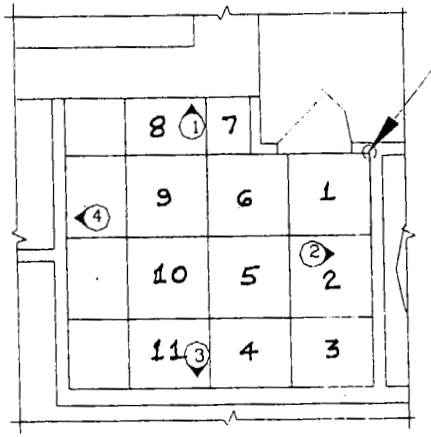
	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
99	112	6/22/04	SM				59	6/22/04	NSM
100	126						60		
101	107						61		
102	96						62		
103	105						63		
104	106						64		
105	103	"	"				65	↓	↓



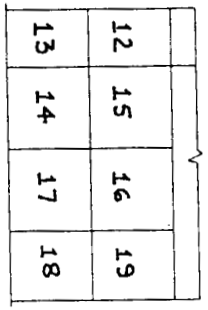
(1) ELEVATION



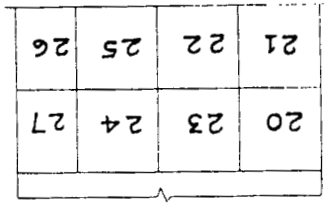
(4) ELEVATION



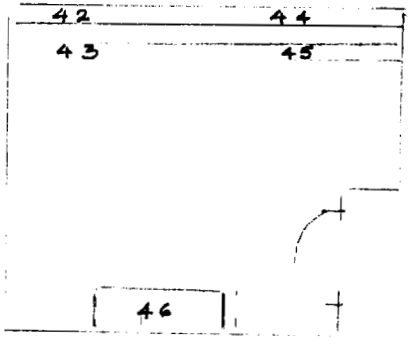
ROOM 254A



(2) ELEVATION



(3) ELEVATION



ROOM 254A

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 2547

	[Y] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[Y] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	387	6/22/04	SM	0.015	6/22/04	[illegible]	16	6/22/04	MSH
2	406			0.015			17		
3	409			0.01			18		
4	389			0.01			19		
5	370			0.0175			20		
6	375			0.015			21		
7	380			0.01			22		
8	403			0.01			23		
9	412			0.01			24		
10	465			0.01			25		
11	480	↓	↓	0.01	↓	↓	26	↓	↓

WALLS

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 254A

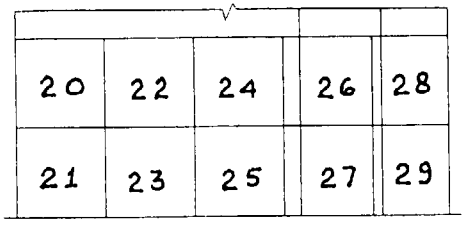
Grid Position	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [ ] Floor [✓] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
12	120	6/22/04	SM				27	6/22/04	MSM
13	113						28		
14	114						29		
15	116						30		
16	129						31		
17	117						32		
18	121						33		
19	125						34		
20	114						35		
21	108						36		
22	127						37		
23	99						38		
24	92						39		
25	115						40		
26	119						41		
27	109						42		
28	107						43		
29	108						44		

walls and Surface

Survey Worksheet

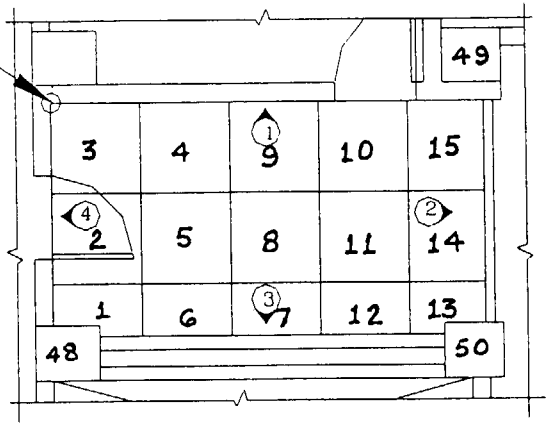
Building: ☑ Lakeside Hospital ☐ MSB Room 254A

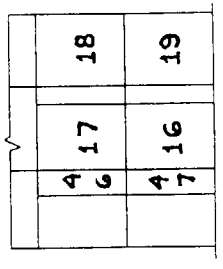
	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
30	104	6/22/04	SH				45	6/22/04	NSH
31	104						46		
32	123						47		
33	150						48		
34	162						49		
35	170						50		
36	152						51		
37	158						52		
38	124						53		
39	110						54		
40	104						55		
41	92						56		
42	96						57		
43	94						58		
44	104						59		
45	113						60		
46	105	↓	↓				61	↓	↓



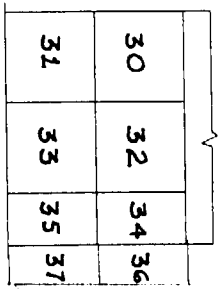
1 ELEVATION

START GRID HERE



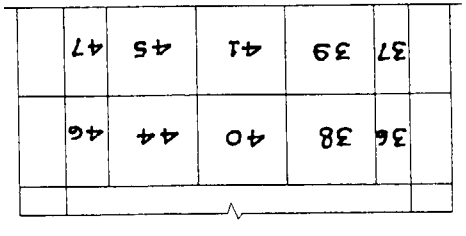


4 ELEVATION



2 ELEVATION

ROOM 255



3 ELEVATION

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 255

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	371	6/22/04	NB	0.01	6/22/04	YSL	63	6/22/04	NB
2	359			0.01			64		
3	385			0.01			65		
4	322			0.015			66		
5	380			0.01			67		
6	387			0.01			68		
7	352			0.01			69		
8	349			0.005			70		
9	299			0.005			71		
10	314			0.01			72		
11	367			0.01			73		
12	385			0.01			74		
13	345			0.005			75		
14	352			0.005			76		
15	327	↓	↓	0.005	↓	↓	77	↓	↓

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 255

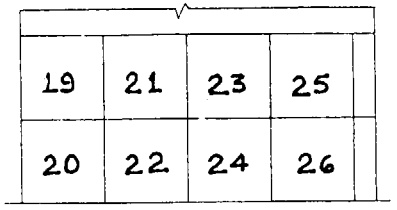
	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
16	99	6/22/04					78	6/22/04	NP
17	84						79		
18	109						80		
19	134						81		
20	114						82		
21	124						83		
22	125						84		
23	98						85		
24	113						86		
25	107						87		
26	84						88		
27	101						89		
28	114						90		
29	109						91		
30	112						92		
31	122						93		
32	117						94		
33	115						95		

Walls

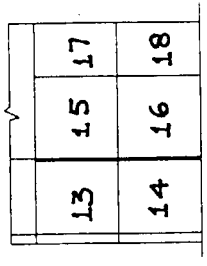
Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 255

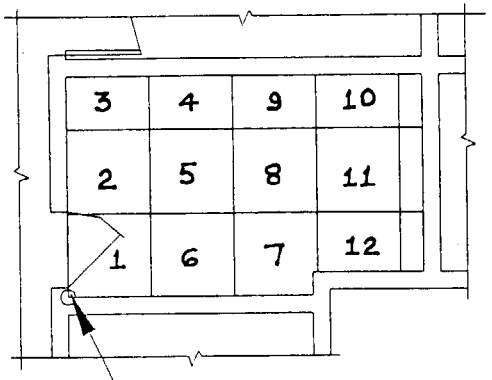
Grid Position	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 [✓] Surface cpm	Date	Initials	Meter 4 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
34	129	6/22/04	AC				96	6/22/04	NB
35	132						97		
36	124						98		
37	139						99		
38	143						100		
39	134						1		
40	142						2		
41	159						3		
42	143						4		
43	127						5		
44	119						6		
45	123						7		
46	102						8		
47	131	↓	↓				9	↓	↓
Other:-		-	-	-	-	-	-	-	-
48	104		AC				10	6/22/04	NB
49	101		↓				11	↓	↓
50	116	↓					12		



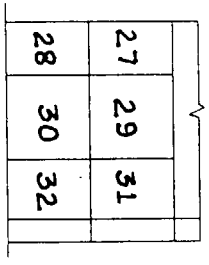
1 ELEVATION



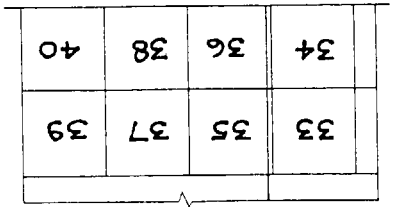
4 ELEVATION



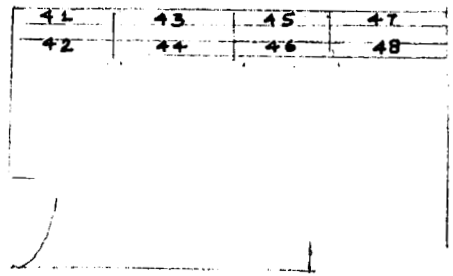
ROOM 256



2 ELEVATION



3 ELEVATION



ROOM 256

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 256

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	427	7.15.04	AC	0.02	7.15.04	AC	1	7.15.04	AC
2	508			0.015			2		
3	483			0.01			3		
4	386			0.025			4		
5	414			0.02			5		
6	407			0.025			6		
7	361			0.01			7		
8	428			0.015			8		
9	327			0.01			9		
10	334			0.015			10		
11	354			0.02			11		
12	363			0.02			12		

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 256

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
13	95	7/15/04	SH				13	7.15.04	AC
14	102						14		
15	120						15		
16	140						16		
17	138						17		
18	170						18		
19	320						19		
20	245						20		
21	193						21		
22	185						22		
23	250						23		
24	260						24		
25	519						25		
26	540						26		
27	130						27		
28	125						28		
29	127						29		
30	95						30		

Survey Worksheet

walls

Building: ☒ Lakeside Hospital ☐ MSB Room 256

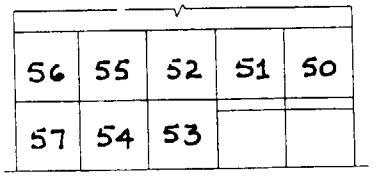
	[ ] Floor Monitor [ ] Meter 2 Det. 1	[X] Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
31	120	7/15/04	SU				31	7.15.04	AC
32	105						32		
33	115						33		
34	94						34		
35	101						35		
36	120						36		
37	125						37		
38	130						38		
39	110						39		
40	125	↓	↓				40	↓	↓

Survey Worksheet

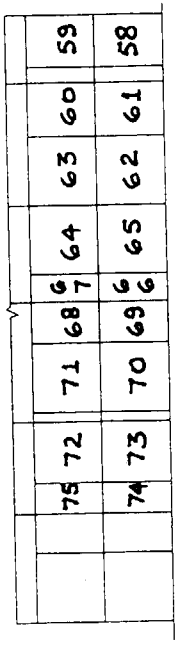
Surfaces

Building: ☒ Lakeside Hospital ☐ MSB Room 256

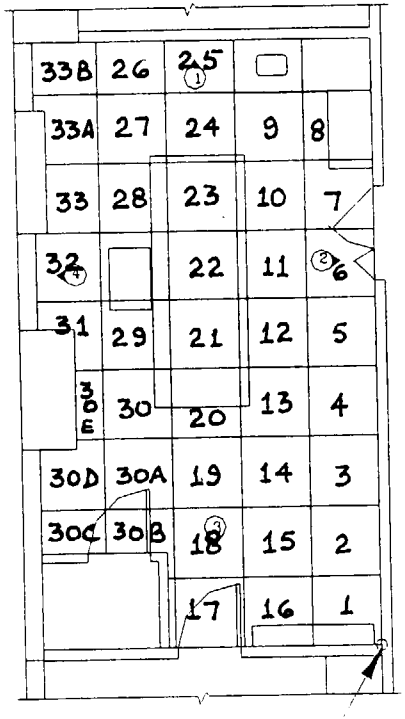
	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
41	146	7/15/04	SH				41	7.15.04	AC
42	245						42		
43	148						43		
44	145						44		
45	170						45		
46	175						46		
47	240						47		
48	258						48		



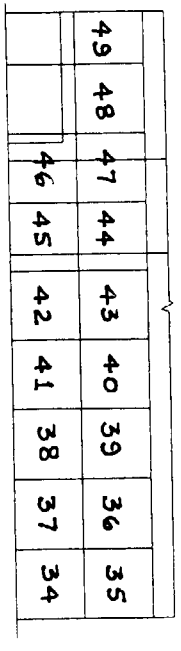
1 ELEVATION



4 ELEVATION

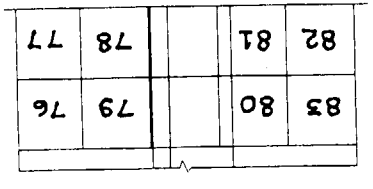


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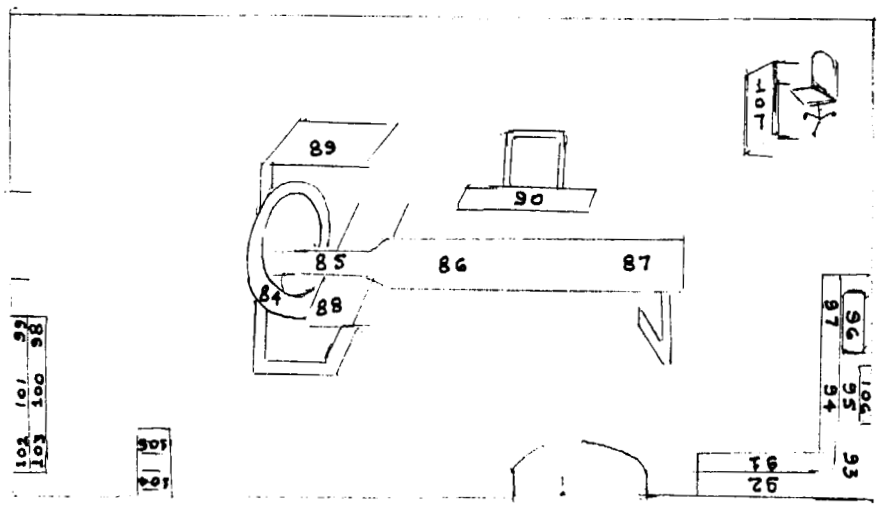


2 ELEVATION

ROOM 257



3 ELEVATION


89
90
85
86
87
84
88
107
96
97
95
94
106
91
92
93
98
99
101
100
102
103
105
104

ROOM 257

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 257

	[☑] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[☑] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	431	6/21/04	JS	0.0050	6/21/04	SH	36	6/21/04	NB
2	456			0.0200			37		
3	417			0.0150			38		
4	441			0.0150			39		
5	436			0.0125			40		
6	428			0.0125			41		
7	433			0.0250			42		
8	431			0.0250			43		
9	434			0.0200			44		
10	447			0.0200			45		
11	425			0.0200			46		
12	412			0.0125			47		
13	431			0.0050			48		
14	400			0.0200			49		
15	422			0.0050			50		
16	438			0.0050			51		
17	411			0.0050			52		
18	403			0.0050			53		

Survey Worksheet

Building: [✓] Lakeside Hospital [ ] MSB Room 257

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	384	6/21/04	F. S.	0.0075	6/21/04	SH	54	6/21/04	AB
20	415			0.0050			55		
21	426			0.0150			56		
22	415			0.0150			57		
23	398			0.0050			58		
24	459			0.0150			59		
25	435			0.0200			60		
26	451			0.0050			61		
27	435			/			62		
28	119	6.21.04	AC	0.0150	6/21/04	SH	63		
29	105			0.0050			64		
30	128			0.0050			65		
30A	393	6/21/04	F. S.	0.0050			66		
30B	410			0.0050			67		
30C	445			0.0200			68		
30D	121	6.21.04	AC	0.0150			69		
30E	403	6/21/04	F. S.	/			70		
31	123	6/21/04	AC	/			71		

after: 1 (30, 29)

after: 1 (30D)

after: 1 (31)

Survey Worksheet

Building: ☐ Lakeside Hospital ☐ MSB Room 257

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
32	142	6/21/04	AC	✓	6/21/04	SM	72	6/21/04	MB
33	139	↓	AC	✓			73	↓	↓
33A	468		↓	✓			74		
33B	448	↓	↓	0.010	6/21/04	↓	75		

Survey Worksheet

walls

Building: ☒ Lakeside Hospital ☐ MSB Room 257

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
34	126	6.21.04	AC				76	6/21/04	NB
35	115						77		
36	138						78		
37	127						79		
38	156						80		
39	143						81		
40	134						82		
41	146						83		
42	159						84		
43	183						85		
44	149						86		
45	129						87		
46	136						88		
47	143						89		
48	156						90		
49	148						91		
50	119						92		
51	137	↓	↓				93	↓	↓

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 257

	[ ] Floor Monitor [ ] Meter 2 Det. 1	Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
52	95	6.21.04	AC				94	6/21/04	NB
53	98						95		
54	163						96		
55	142						97		
56	185						98		
57	122						99		
58	111						100		
59	118						1	6/21/04	H. S.
60	136						2		
61	131						3		
62	91						4		
63	98						5		
64	126						6		
65	119						7		
66	116						8		
67	104						9		
68	150						10		
69	178						11		

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 257

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
70	183	6.21.04	AC				12	6/21/04	T.S.
71	146						13		
72	152						14		
73	147						15		
74	144						16		
75	137						17		
76	151						18		
77	145						19		
78	149						20		
79	138						21		
80	149						22		
81	143						23		
82	152						24		
83	164						25		

Survey Worksheet

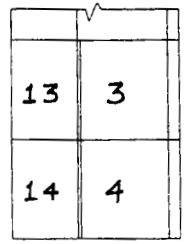
Building: ☒ Lakeside Hospital ☐ MSB Room 257

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
84	86	6.22.04	AC				26	6/21/04	T.S
85	130						27		
86	109						28		
87	94						29		
88	108						30		
89	114						31		
90	103						32		
91	87						33		
92	90						34		
93	119						35		
94	124						36		
95	123						37		
96	115						38		
97	115						39		
98	116						40		
99	158						41		
100	118						42		
101	131						43		

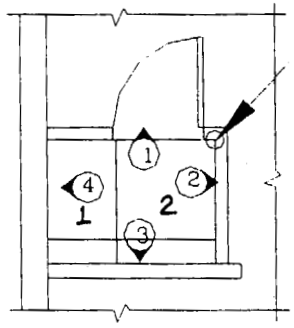
Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 257

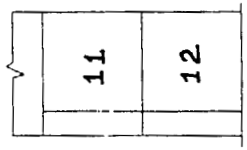
	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
102	136	6/22/04	AC				44	6/21/04	T.S.
103	151	↓	↓				45	↓	↓
104	99						46		
105	166						47		
106	116						48		
107	104	↓	↓				49	↓	↓



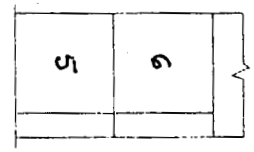
(1) ELEVATION



-- START GRID HERE

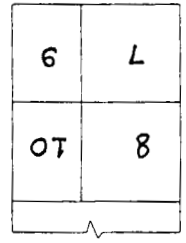


(4) ELEVATION



(2) ELEVATION

ROOM 257A



(3) ELEVATION

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 257A

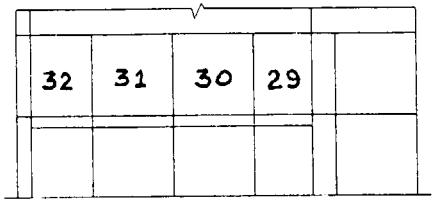
	[4] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[4] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	384	6/22/04	SY	0.0175	6/22/04	SY	1	6/22/04	NSY
2	381	↓	↓	0.0150	↓	↓	2	↓	↓

Wall & Surface

Survey Worksheet

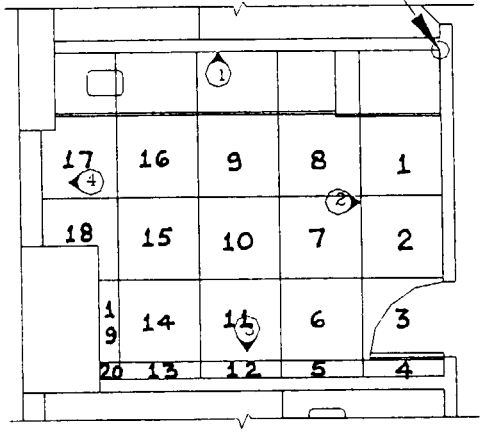
Building: ☑ Lakeside Hospital ☐ MSB Room 257 KP

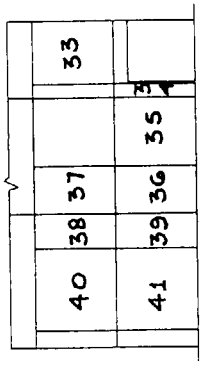
	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
3	137	6/22/04	SH	~~3845~~	~~6/22/04~~		3	6/22/04	NSH
4	118						4		
5	127						5		
6	98						6		
7	121						7		
8	119						8		
9	116						9		
10	125						10		
11	131						11		
12	140						12		
13	105						13		
14	113						14		
15	117						15		



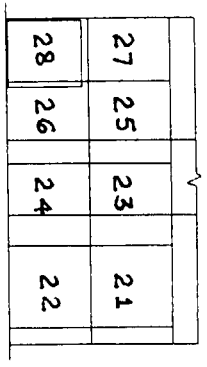
1 ELEVATION

START GRID HERE



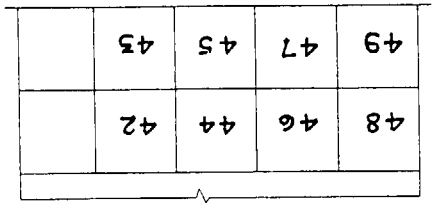


4 ELEVATION



2 ELEVATION

ROOM 258



3 ELEVATION

Survey Worksheet

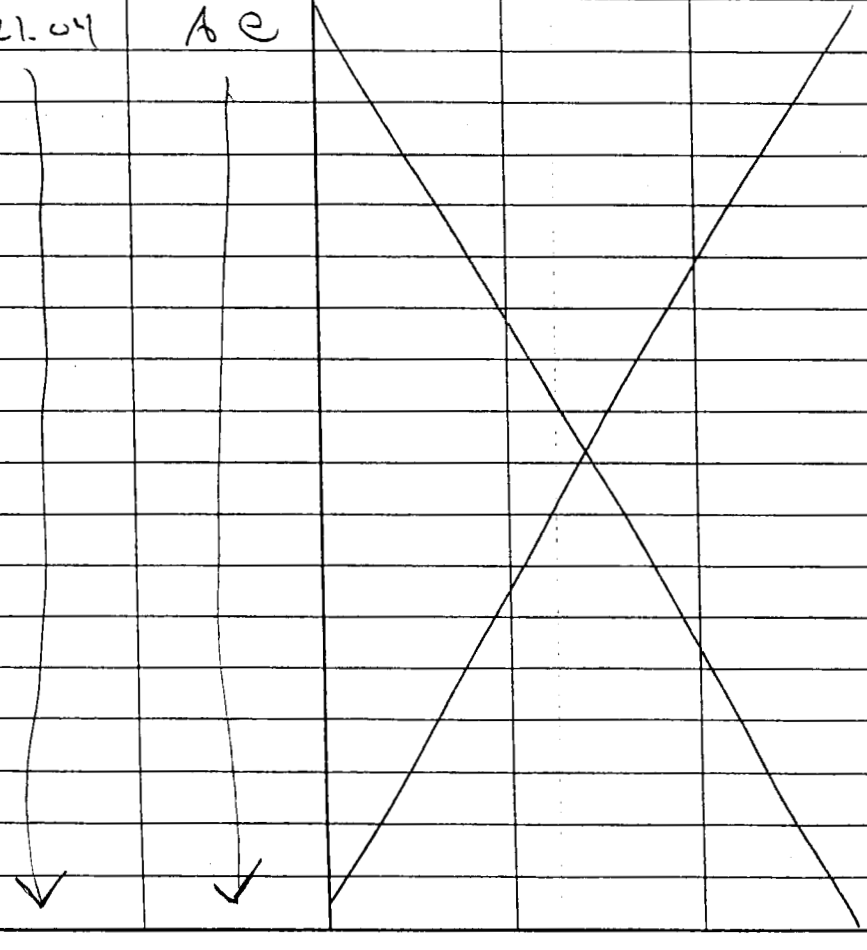
Building: ☑ Lakeside Hospital ☐ MSB Room 258

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	409	6/21/04	SY	0.0150	6/21/04	SY	73	6/21/04	MB
2	402			0.0150			74		
3	395			0.0125			75		
4	450			0.0100			76		
5	421			0.0050			77		
6	395			0.0150			78		
7	422			0.0150			79		
8	415			0.0150			80		
9	468			0.0100			81		
10	420			0.0200			82		
11	405			0.0250			83		
12	435			0.0050			84		
13	420			0.0200			85		
14	429			0.0150			86		
15	460			0.0100			87		
16	440			0.0100			88		
17	435			0.0200			89		
18	482			0.0160			90		
19	430			0.0150			91		
20	440			0.0100			92		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 258

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
21	124	6.21.04	AE				93	6/21/04	NB
22	135						94		
23	128						95		
24	116						96		
25	156						97		
26	148						98		
27	136						99		
28	114						100		
29	138						1		
30	115						2		
31	148						3		
32	137						4		
33	173						5		
34	146						6		
35	136						7		
36	147						8		
37	162						9		
38	127						10		



walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 258

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
39	130	6.21.04	AC				11	6/21/04	NB
40	138						12		
41	141						13		
42	159						14		
43	144						15		
44	142						16		
45	127						17		
46	135						18		
47	121						19		
48	159						20		
49	153						21		

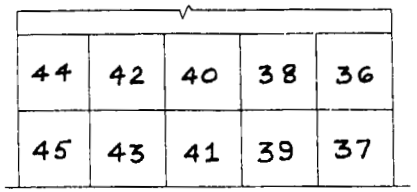
Survey Worksheet

Surfaces

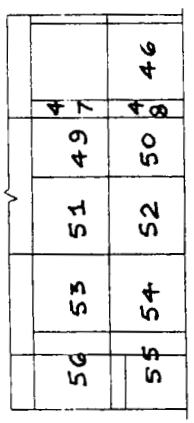
Building: ☑ Lakeside Hospital ☐ MSB Room 258

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
50	111	6.21.04	AC				22	6/21/04	AB
51	102						23		
52	97						24		
53	108						25		
54	114						26		
55	98						27		
56	135						28		
57	114						29		
58	122						30		
59	135						31		
60	115						32		
61	122						33		
62	93						34		
63	91						35		
64							swab		

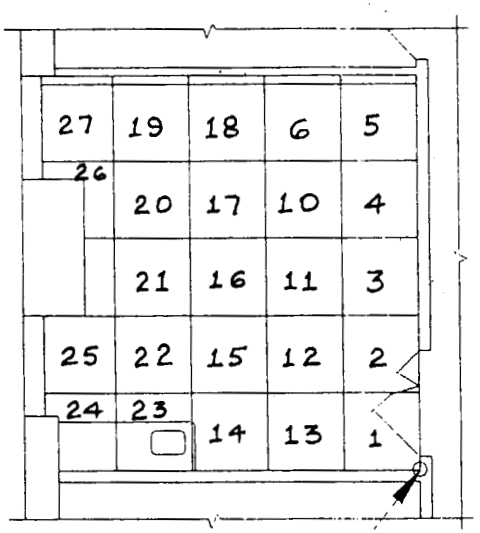
Vac—



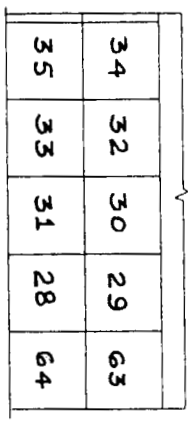
1 ELEVATION



4 ELEVATION

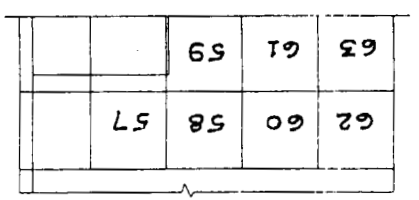


START GRID HERE

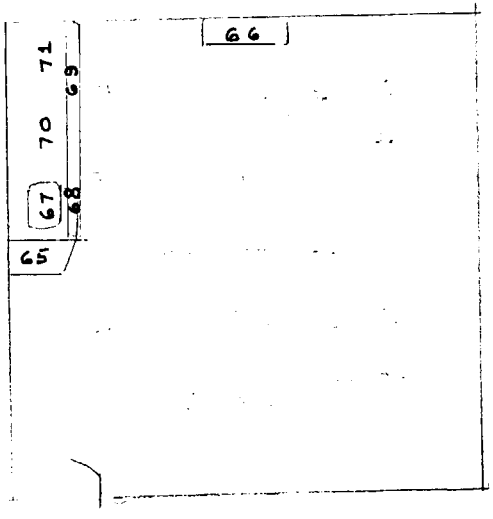


2 ELEVATION

ROOM 260



3 ELEVATION


66
71
69
70
68
67
65

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 260

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	393	6/21/04	T.S.	0.0100	6/21/04	SH	5	6/21/04	NB
2	387			0.0050			6		
3	419			0.0150			7		
4	374			0.0075			8		
5	395			0.015			9		
6	376			0.0075			10		
7	Do not			—			—		
8	exist			—			—		
9				—			—		
10	387			0.0075	6/21/04	SH	11		
11	395			0.0100			12		
12	378			0.0150			13		
13	404			0.0050			14		
14	421			0.0075			15		
15	444			0.0100			16		
16	403			0.0100			17		
17	396			0.0050			18		
18	482	↓	↓	0.0100	↓	↓	19	↓	↓

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 260

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	477	6/21/04	T.S.	0.0050	6/21/04	SY	20	6/21/04	NB
20	450			0.0050			21		
21	420			0.0050			22		
22	458			0.0150			23		
23	407			0.005			24		
24	443			0.0150			25		
25	482			0.0100			26		
26	425			0.0075			27		
27	471	↓	↓	0.0150	↓	↓	28	↓	↓

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 260

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
28	130	6.21.04	AC				29	6/21/04	MB
29	147						30		
30	150						31		
31	139						32		
32	132						33		
33	127						34		
34	131						35		
35	138						36		
36	139						37		
37	127						38		
38	109						39		
39	123						40		
40	142						41		
41	136						42		
42	163						43		
43	159						44		
44	123						45		
45	152						46		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 260

	[ ] Floor Monitor [ ] Meter 2 Det. 1	☒ Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
46	151	6.21.04	AC				47	6/21/04	NB
47	172						48		
48	168						49		
49	115						50		
50	128						51		
51	138						52		
52	121						53		
53	186						54		
54	163						55		
55	152						56		
56	148						57		
57	132						58		
58	113						59		
59	126						60		
60	127						61		
61	127						62		
62	131						63		
63	134						64		
64	141	6.21.04					65		

Survey Worksheet

Surfaces

Building: ☒ Lakeside Hospital ☐ MSB Room 760

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
65	120	6.21.04	AC				66	6/21/04	NB
66	93	↓	↓				67	↓	↓
67	117						68		
68	123						69		
69	113						70		
70	130						71		
71	143	↓	↓	↓	↓	↓	72	↓	↓

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	22-Jul-04
Survey Unit #:	LS-11
Building:	Lakeside Hospital
Floor:	2
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 716D. RIA laboratory.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-11.01	S	1	CT	SST	137	122	15	3.73E+02	-1
LS-11.02	S	1	F	VT	102	122.4	-20.4	-5.07E+02	-1
LS-11.03	S	1	F	VT	125	122.4	2.6	6.47E+01	-1
LS-11.04	S	1	F	VT	143	122.4	20.6	5.12E+02	-1
LS-11.05	S	1	F	VT	133	122.4	10.6	2.64E+02	-1
LS-11.06	S	1	F	VT	144	122.4	21.6	5.37E+02	-1
LS-11.07	S	1	CT	SST	116	122	-6	-1.49E+02	-1
LS-11.08	S	1	F	VT	117	122.4	-5.4	-1.34E+02	-1
LS-11.09	S	1	CT	SST	97	122	-25	-6.22E+02	-1
LS-11.10	S	1	CT	SST	122	122	0	0.00E+00	-1
LS-11.11	S	1	CT	SST	122	122	0	0.00E+00	-1
LS-11.12	S	1	F	VT	125	122.4	2.6	6.47E+01	-1
LS-11.13	S	1	F	VT	123	122.4	0.6	1.49E+01	-1
LS-11.14	S	1	F	VT	125	122.4	2.6	6.47E+01	-1
LS-11.15	S	1	F	VT	97	122.4	-25.4	-6.32E+02	-1
LS-11.16	S	1	F	VT	130	122.4	7.6	1.89E+02	-1
LS-11.17	S	1	F	VT	132	122.4	9.6	2.39E+02	-1
LS-11.18	S	1	F	VT	143	122.4	20.6	5.12E+02	-1
LS-11.19	S	1	F	VT	152	122.4	29.6	7.36E+02	-1
LS-11.20	S	1	CT	SST	149	122	27	6.72E+02	-1

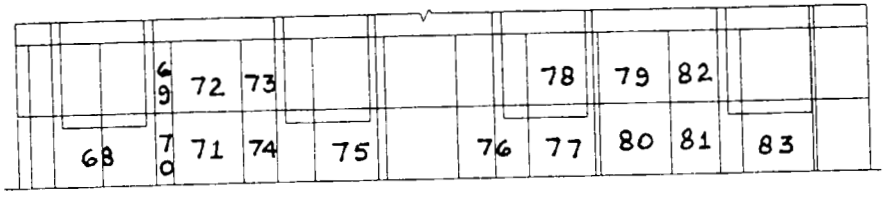
	Mean	**1.30E+02**
	Median	**6.47E+01**
	Range	**1.37E+03**
	Std Dev (1 σ)	**3.84E+02**
MARSSIM Sign Test Required?		**NO**

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

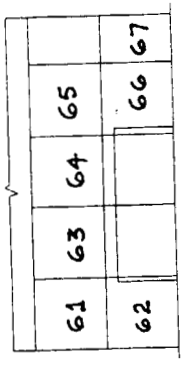
Scan Survey Results		
Area	**Instr. #**	**Gross CPM Notes**
Floors	F	(See Survey Worksheet Packages Attached)
Lower Walls	1	(See Survey Worksheet Packages Attached)

NOTES:

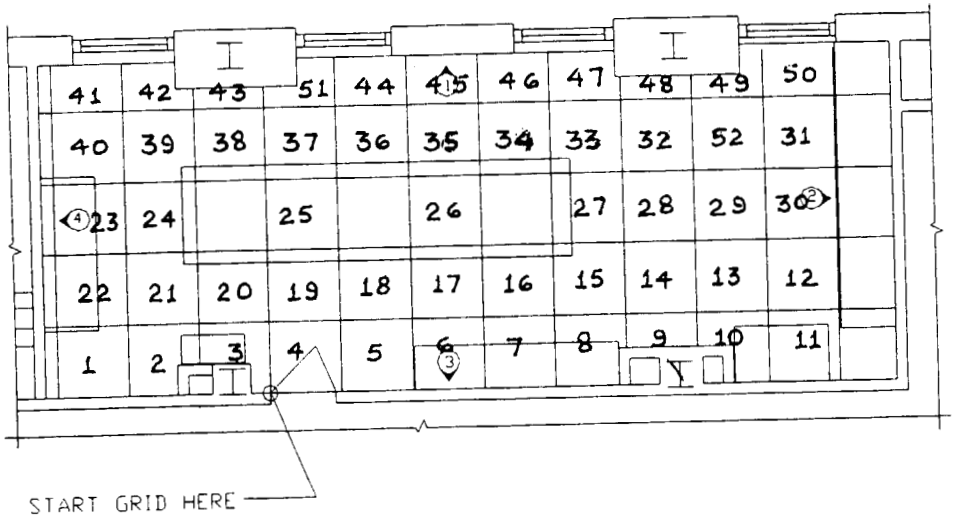
1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m) CT = countertop
4 Surface Materials: VT = Vinyl Tile SST = Synthetic Stone Countertop
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

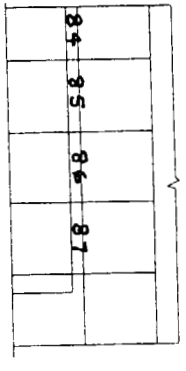


① ELEVATION



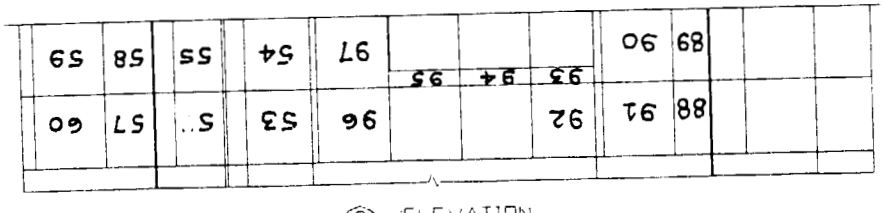
④ ELEVATION



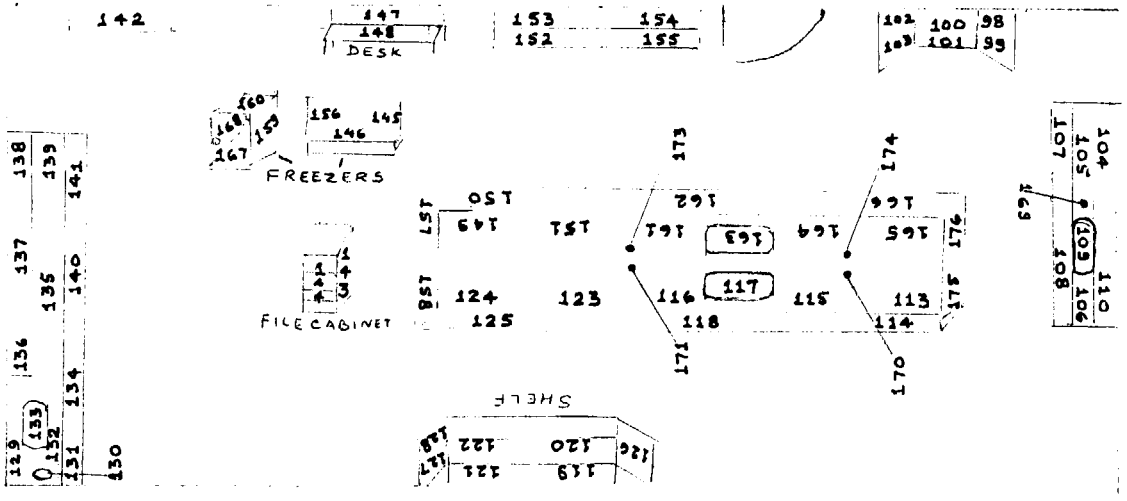


② ELEVATION

ROOM 716D



③ ELEVATION



ROOM 716D

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 716D

	Grid Position	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 [✓] Floor [ ] Surface cpm	Date	Initials	Meter 4 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
meter 1	1	132	6.09.04	AC	0.02	6.9.04	AC	87	6.9.04	NSH
	2	140			0.015			88		
	3	152			0.01			89		
	4	357		NSH	0.015			90		
	5	377			0.02			91		
	6	389			0.015			92		
	7	432			0.02			93		
	8	425			0.01			94		
meter 1	9	135		AC	Not Accessible			95		
	10	142			" "			96		
	11	157			" "			97		
	12	495		NSH	0.015			98		
	13	479			0.015			99		
	14	425			0.025			100		
	15	398			0.025			1		
	16	442			0.015			2		
	17	384			0.01			3		
	18	350			0.015			4		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 716D

		[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	400	6/9/04	NSH	0.015	6.9.04	AC	5	6.9.04	NSH
20	321	↓	↓	0.015	↓	↓	6	↓	↓
21	318	↓	↓	0.01	↓	↓	7	↓	↓
Meter 1 [22	140	↓	AC	Not Accessible	—	—	8	↓	↓
23	157	↓	AC	" "	—	—	9	↓	↓
24	358	↓	NSH	0.01	6.9.04	AC	10	↓	↓
25	115	↓	AC	Not Accessible	—	—	11	↓	↓
Meter 1] 26	126	↓	AC	" "	—	—	12	↓	↓
27	451	↓	NSH	0.015	6.9.04	AC	13	↓	↓
28	414	↓	↓	0.01	↓	↓	14	↓	↓
29	431	↓	↓	0.01	↓	↓	15	↓	↓
30	479	↓	↓	0.01	↓	↓	16	↓	↓
31	383	↓	↓	0.02	↓	↓	17	↓	↓
32	460	↓	↓	0.015	↓	↓	18	↓	↓
33	469	↓	↓	0.015	↓	↓	19	↓	↓
34	418	↓	↓	0.015	↓	↓	20	↓	↓
35	432	↓	↓	0.025	↓	↓	21	↓	↓
36	374	↓	↓	0.015	↓	↓	22	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 716D

		[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
	Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
	37	333	6/9/04	NSM	0.015	6.9.04	AC	23	6.9.04	NSM
METER 1 -	38	128		AC	0.015			24		
	39	381		NSM	0.015			25		
Meter [	40	135		AC	0.015			26		
1 [	41	97		AC	0.01			27		
	42	375		NSM	0.01			28		
leter 1 -	43	158		AC	0.015			29		
	44	322		NSM	0.015			30		
	45	419			0.02			31		
	46	478			0.01			32		
	47	469			0.015			33		
METER 1 -	48	153		AC	0.01			34		
	49	509		NSM	0.015			35		
	50	496			0.02			36		
	51	136	6.10.04	AC	0.025	6.10.04	AC	14	6.10.04	AC
	52	122	6.10.04	AC	0.025	6.10.04	AC	15	6.10.04	AC
	~~53~~	~~95~~								

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 716D

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
53	95	6.10.04	AC				16	6.10.04	AC
54	89	6.10.04	AC				17		
55	111	6/14/04	AC				18		
56	105						19		
57	136						20		
58	148						21		
59	142						22		
60	139						23		
61	139						24		
62	141						25		
63	133						26		
64	147						27		
65	143						28		
66	129						29		
67	153						30		
68	142						31		
69	138						32		
70	149						33		

Survey Worksheet

Building: [x] Lakeside Hospital [ ] MSB Room 716D

Grid Position	[ ] Floor Monitor [ ] Meter 2 Det. 1 [✓] Meter 1 [ ] Meter 2 Det. 2 — [✓] Floor Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
71	120	6/14/04	AC				34	6.10.04	AC
72	111						35		
73	148						36		
74	136						37		
75	129						38		
76	128						39		
77	133						40		
78	161						41		
79	138						42		
80	122						43		
81	154						44		
82	137						45		
83	130						46		
84	164						47		
85	174						48		
86	148						49		
87	155						50		
88	164						51		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 7161

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
89	172	6/14/04	AC				52	6.10.04	AC
90	157	↓	↓				53	↓	↓
91	153						54		
92	142						55		
93	141						56		
94	133						57		
95	119						58		
96	108						59		
97	116	↓	↓				60	↓	↓

Survey Worksheet

Other

Building: ☑ Lakeside Hospital ☐ MSB Room 716

[ ] Floor Monitor [✓] Meter 1
[ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2

Meter 4

Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
98	121	6/14/04	AC				61	6.10.04	NSH
99	110						62		
100	123						63		
101	104						64		
102	132						65		
103	119						66		
104	128						67		
105	156						68		
106	129						69		
107	123						70		
108	121						71		
109	119						72		
110	127						73		
111	135						74		
112	120						75		
113	133						76		
114	109						77		
115	131						78		

other

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 716D

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
116	114	6/14/04	AE				79	8.10.04	NSH
117	99						80		
118	120						81		
119	125						82		
120	168						83		
121	185						84		
122	139						85		
123	118						86		
124	126						87		
125	117						88		
126	123						89		
127	131						90		
128	137						91		
129	165						92		
130	~~168~~						93		
131	119						94		
132	108						95		
133	198						96		

Survey Worksheet

others

Building: ☒ Lakeside Hospital ☐ MSB Room 7160

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
134	128	6/14/04	AC				97	6.10.04	NSH
135	151						98		
136	138						99		
137	105						100		
138	130						1		
139	111						2		
140	148						3		
141	112						4		
142	115						5		
143	134						6		
144	113						7		
145	126						8		
146	104						9		
147	165						10		
148	134						11		
149	114						12		
150	132						13		
151	141						14		

Survey Worksheet

others

Building: ☒ Lakeside Hospital ☐ MSB Room 716D

Grid Position	[ ] Floor [x] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
	[ ] Floor Monitor [x] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
152	118	6/14/04	AC				15	6.10.04	NSM
153	163						16		
154	112						17		
155	118						18		
156	99						19		
157	121						20		
158	98						21		
159	126						22		
160	95						23		
161	92						24		
162	117						25		
163	66						26		
164	93						27		
165	122						28		
166	106						29		
167	101						30		
168	103						31		
VAC - 169	—						[redacted] swab		

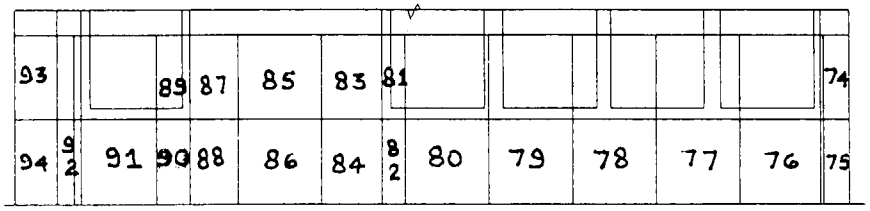
Survey Worksheet

Other

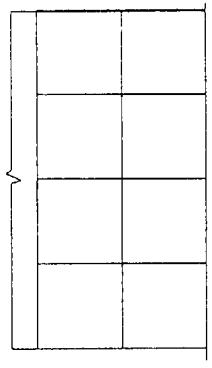
Building: [X] Lakeside Hospital [ ] MSB Room 716D

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
170	-	-	-	-	-	-	Swab	6.10.04	AC
171	-	-	-	-	-	-	↓	↓	↓
172	-	-	-	-	-	-			
173	-	-	-	-	-	-			
174	-	-	-	-	-	-			
175	115	6.11.04	AC	-	-	-	32		
176	125	6.11.04	AC	-	-	-	33	↓	↓

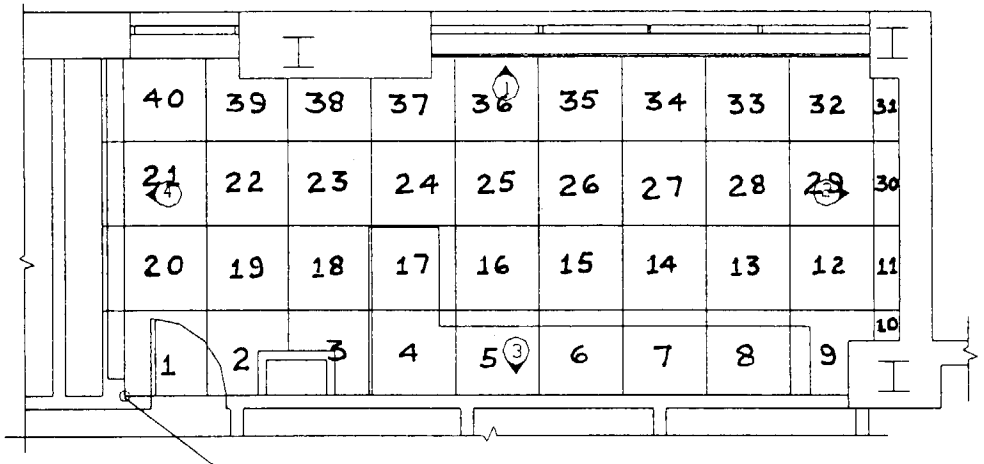
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1 ELEVATION

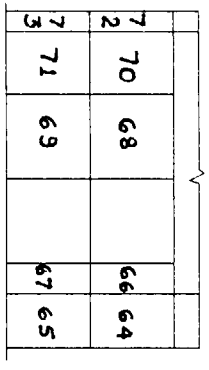


4 ELEVATION

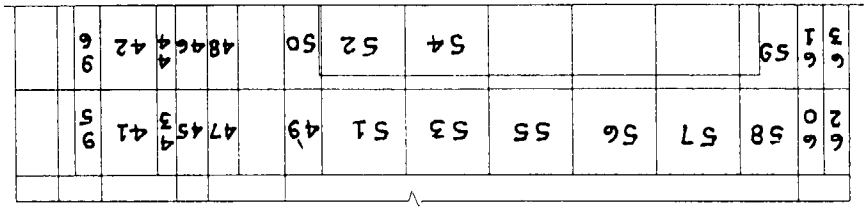


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ROOM 718



2 ELEVATION



3 ELEVATION

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	22-Jul-04
Survey Unit #:	LS-12
Building:	Lakeside Hospital
Floor:	7
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 718

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-12.01	S	2a	F	VT	137	122.4	14.6	3.92E+02	-1
LS-12.02	S	2a	F	VT	114	122.4	-8.4	-2.26E+02	-1
LS-12.03	S	2a	F	VT	121	122.4	-1.4	-3.76E+01	-1
LS-12.04	S	2a	F	VT	123	122.4	0.6	1.61E+01	-1
LS-12.05	S	2a	F	VT	120	122.4	-2.4	-6.45E+01	-1
LS-12.06	S	2a	F	VT	123	122.4	0.6	1.61E+01	-1
LS-12.07	S	2a	F	VT	126	122.4	3.6	9.68E+01	-1
LS-12.08	S	2a	F	VT	92	122.4	-30.4	-8.17E+02	-1
LS-12.09	S	2a	F	VT	99	122.4	-23.4	-6.29E+02	-1
LS-12.10	S	2a	F	VT	101	122.4	-21.4	-5.75E+02	-1
LS-12.11	S	2a	F	VT	92	122.4	-30.4	-8.17E+02	-1
LS-12.12	S	2a	F	VT	117	122.4	-5.4	-1.45E+02	-1
LS-12.13	S	2a	F	VT	138	122.4	15.6	4.19E+02	-1
LS-12.14	S	2a	F	VT	136	122.4	13.6	3.66E+02	-1
LS-12.15	S	2a	F	VT	113	122.4	-9.4	-2.53E+02	-1
LS-12.16	S	2a	CT	SST	115	122	-7	-1.88E+02	-1
LS-12.17	S	2a	CT	SST	111	122	-11	-2.96E+02	-1
LS-12.18	S	2a	CT	SST	99	122	-23	-6.18E+02	-1
LS-12.19	S	2a	CT	SST	127	122	5	1.34E+02	-1
LS-12.20	S	2a	F	VT	111	122.4	-11.4	-3.06E+02	-1

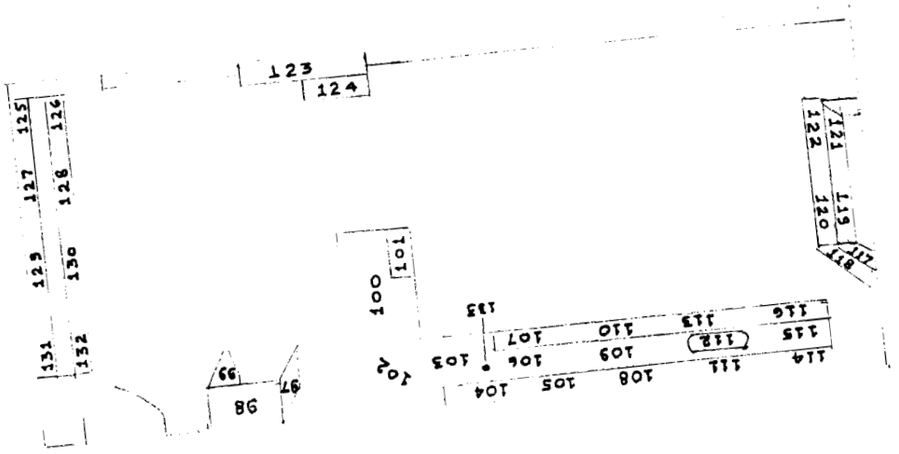
Scan Survey Results		
Area	Instr. #	Gross CPM Notes
Floors	F	(See Survey Worksheet Packages Attached)
Lower Walls	1	(See Survey Worksheet Packages Attached)

Mean	**-2.05E+02**
Median	**-1.67E+02**
Range	**1.24E+03**
Std Dev (1 σ)	**3.70E+02**
MARSSIM Sign Test Required?	**NO**

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m) CT = countertop
4 Surface Materials: VT = Vinyl Tile SST = Synthetic Stone Countertop
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.


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ROOM 718

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 718

		[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	424	6/8/04	NSH	0.015	6/8/04	NSH	89	6/8/04	NSH
2	419	↓	↓	0.015			90		
3	147	6.9.04	AC	0.02			91		
4	154			0.02			92		
5	136			0.02			93		
6	86			0.015			94		
7	127			0.015			95		
8	108	↓	↓	0.01			96		
9	508	6/9/04	NSH	0.01			97		
10	389			0.015			98		
11	421			0.02			99		
12	329			0.01			100		
13	342			0.01			1		
14	357			0.01			2		
15	375			0.02			3		
16	336	↓	↓	0.02			4		
17	114	6.9.04	AC	0.02			5		
18	323	6/9/04	NSH	0.02	↓	↓	6	↓	↓

Meter 1

Meter 1

Survey Worksheet

Building: ☐ Lakeside Hospital ☐ MSB Room 718

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	397	6/8/04	NSH	0.015	6/8/04	NSH	7	6/8/04	NSH
20	410	↓	↓	0.015	↓	↓	8	↓	↓
21	448			0.015			9		
22	435			0.015			10		
23	397			0.02			11		
24	352			0.025			12		
25	395			0.02			13		
26	418			0.025			14		
27	432			0.015			15		
28	339			0.015			16		
29	447			0.015			17		
30	466			0.015			18		
31	459			0.015			19		
32	442			0.015			20		
33	439			0.02			21		
34	411			0.025			22		
35	368			0.02			23		
36	424	↓	↓	0.025	↓	↓	24	↓	↓

Survey Worksheet

Building: ☐ Lakeside Hospital ☐ MSB Room 718

	[Y] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[Y] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	374	6/8/04	NSM	0.02	6/8/04	NSM	25	6/8/04	NSM
38	376	↓	↓	0.015	↓	↓	26	↓	↓
39	368	↓	↓	0.015	↓	↓	27	↓	↓
40	408	↓	↓	0.015	↓	↓	28	↓	↓

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 718

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor ~~Dr~~ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
41	112	6.9.04	AC				29	6/9/04	MSM
42	123	↓	↓				30	↓	↓
43	134						31		
44	126						32		
45	132						33		
46	141						34		
47	138						35		
48	129						36		
49	116						37		
50	127						38		
51	135						39		
52	128						40		
53	143						41		
54	122						42		
55	109						43		
56	95						44		
57	116						45		
58	132	↓	↓				46	↓	↓

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 718

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
59	143	6.9.04	AC				47	6/9/04	NSH
60	132						48		
61	138						49		
62	124						50		
63	132						51		
64	192						52		
65	178						53		
66	163						54		
67	145						55		
68	168						56		
69	156						57		
70	158						58		
71	162						59		
72	114						60		
73	119						61		
74	105						62		
75	108						63		
76	135						64		

walls

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 718

Grid Position	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [ ] Floor [✓] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
77	121	6.9.04	AE				65	6/9/04	NSH
78	133						66		
79	137						67		
80	128						68		
81	128						69		
82	141						70		
83	171						71		
84	143						72		
85	134						73		
86	126						74		
87	196						75		
88	159						76		
89	181						77		
90	148						78		
91	139						79		
92	124						80		
93	132						81		
94	149						82		
95	152						83		
96	138						84		

others

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 718

Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
97	123	6.9.04	AE				85	6/9/04	NSM
98	106						86		
99	100						87		
100	~~135~~ 137						88		
101	89						89		
102	147						90		
103	121						91		
104	130						92		
105	102						93		
106	112						94		
107	126						95		
108	119						96		
109	102						97		
110	122						98		
111	138						99		
112	134						100		
113	118						1		
114	114						2		

Survey Worksheet

other

Building: ☒ Lakeside Hospital ☐ MSB Room 718

	[ ] Floor Monitor [ ] Meter 2 Det. 1	☒ Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor ☒ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
115	134	6.9.04	AC				3	6/9/04	NSM
116	135						4		
117	141						5		
118	156						6		
119	135						7		
120	153						8		
121	168						9		
122	133						10		
123	137						11		
124	119						12		
125	138						13		
126	154						14		
127	123						15		
128	117						16		
129	137						17		
130	128						18		
131	149						19		
132	148						20		
Vac – 133	–	–	–				Swab		

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	22-Jul-04
Survey Unit #:	LS-13
Building:	Lakeside Hospital
Floor:	7
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Portion of Room 731 and Room 732.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-13.01	S	1	W	PL	138	124.4	13.6	3.38E+02	-1
LS-13.02	S	1	CT	SST	103	122	-19	-4.73E+02	-1
LS-13.03	S	1	W	PL	190	124.4	65.6	1.63E+03	-1
LS-13.04	S	1	F	C	120	137.2	-17.2	-4.28E+02	-1
LS-13.05	S	1	F	VT	137	122.4	14.6	3.63E+02	-1
LS-13.06	S	1	F	VT	129	122.4	6.6	1.64E+02	-1
LS-13.07	S	1	F	VT	144	122.4	21.6	5.37E+02	-1
LS-13.08	S	1	F	C	123	137.2	-14.2	-3.53E+02	-1
LS-13.09	S	1	F	VT	123	122.4	0.6	1.49E+01	-1
LS-13.10	S	1	F	VT	120	122.4	-2.4	-5.97E+01	-1
LS-13.11	S	1	F	VT	131	122.4	8.6	2.14E+02	-1
LS-13.12	S	1	F	C	108	137.2	-29.2	-7.26E+02	-1
LS-13.13	S	1	F	VT	112	122.4	-10.4	-2.59E+02	-1
LS-13.14	S	1	F	VT	117	122.4	-5.4	-1.34E+02	-1
LS-13.15	S	1	F	VT	114	122.4	-8.4	-2.09E+02	-1
LS-13.16	S	1	F	C	100	137.2	-37.2	-9.25E+02	-1
LS-13.17	S	1	F	VT	134	122.4	11.6	2.89E+02	-1
LS-13.18	S	1	F	VT	147	122.4	24.6	6.12E+02	-1
LS-13.19	S	1	F	VT	115	122.4	-7.4	-1.84E+02	-1
LS-13.20	S	1	F	C	127	137.2	-10.2	-2.54E+02	-1

	Mean	**1.63E+01**
	Median	**-9.70E+01**
	Range	**2.56E+03**
	Std Dev (1 σ)	**5.70E+02**
MARSSIM Sign Test Required?		**NO**

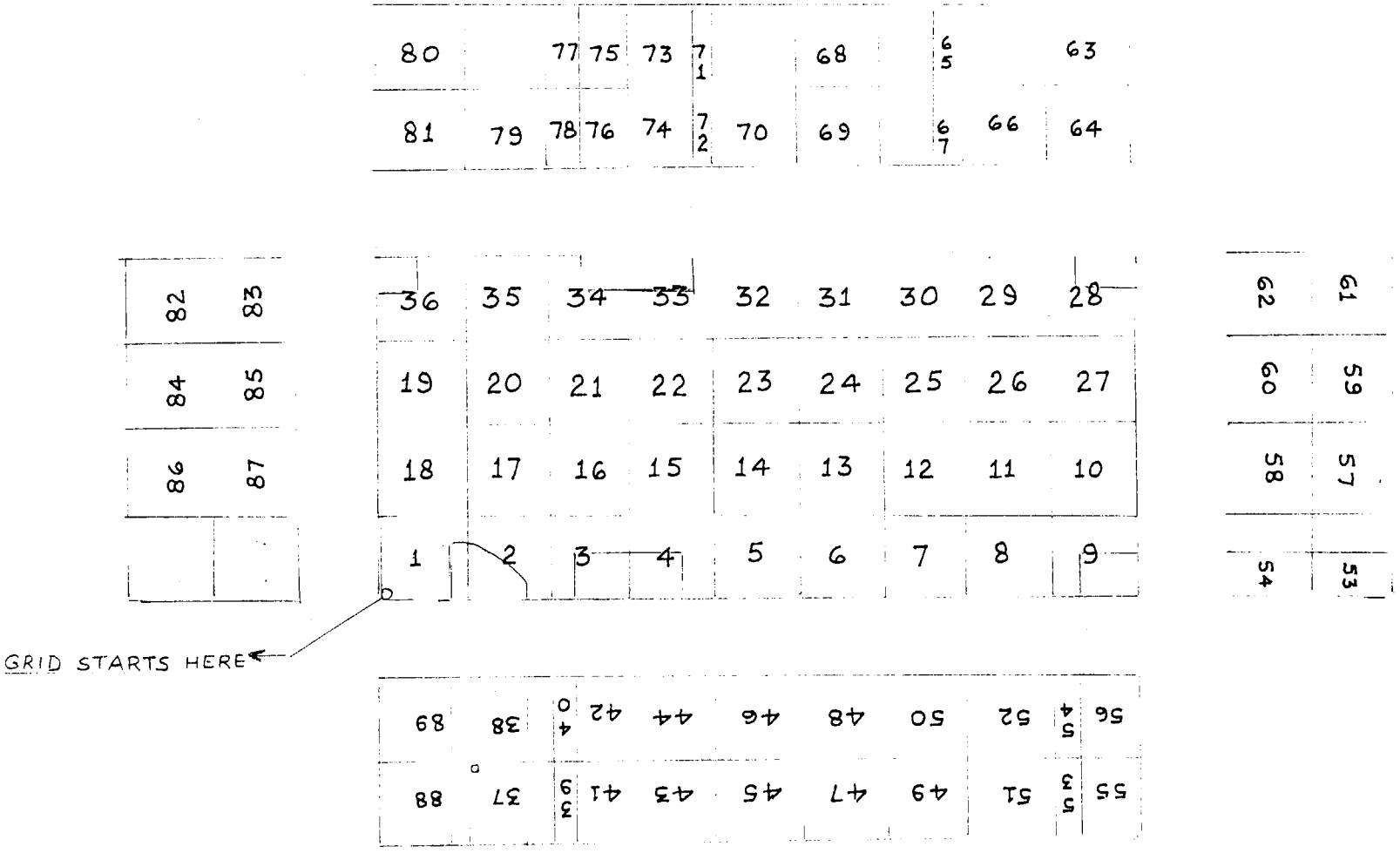
MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

Scan Survey Results

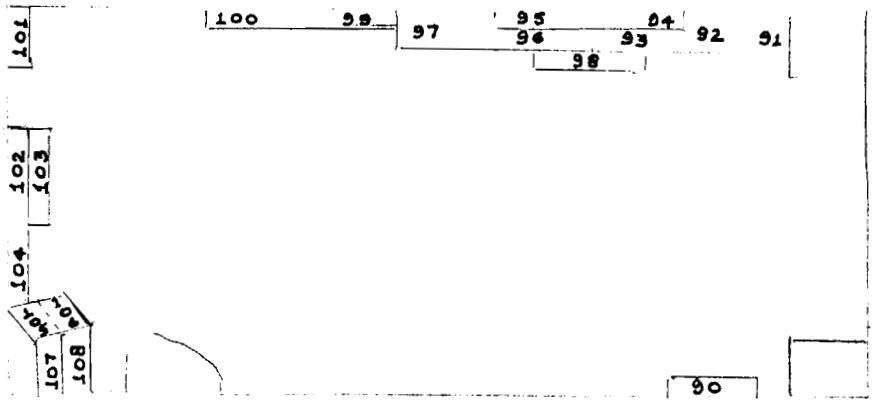
Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Lower Walls	1	(See Survey Worksheet Packages Attached)	

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m) CT = countertop
4 Surface Materials: VT = Vinyl Tile SST = Synthetic Stone Countertop C = Concrete PL = Plaster
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.


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GRID STARTS HERE
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ROOM 732



ROOM 732

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 132

Grid Position	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	401	7/1/04	NSM	0.02	7/1/04	[illegible]	92	7/1/04	NSM
2	388			0.02			93		
3	434			0.02			94		
4	395			0.01			95		
5	424			0.01			96		
6	376			0.01			97		
7	411			0.01			98		
8	456			0.01			99		
9	420			0.01			100		
10	410			0.01			70		
11	437			0.01			71		
12	432			0.01			72		
13	438			0.01			73		
14	381			0.01			74		
15	462			0.01			75		
16	396			0.01			76		
17	390			0.01			77		
18	415	↓	↓	0.01	↓	↓	78	↓	↓

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 732

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[V] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	450	7/1/04	NSH	0.01	7/1/04	[illegible]	79	7/1/04	NSH
20	386			0.01			80		
21	410			0.01			81		
22	462			0.01			82		
23	407			0.01			83		
24	426			0.01			84		
25	430			0.01			85		
26	435			0.01			86		
27	487			0.015			87		
28	376			0.015			88		
29	141			0.01			89		
30	158			0.005			90		
31	162			0.005			91		
32	146			0.005			92		
33	384			0.01			93		
34	351			0.015			94		
35	394			0.015			95		
36	464	↓	↓	0.015			96	↓	↓

Meter 1

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 732

	[ ] Floor Monitor [ ] Meter 2 Det. 1	⋈ Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	123	7.1.04	AC				97	⋈ 7/1/04	MSH
38	131						98		
39	137						99		
40	124						100		
41	143						50		
42	158						51		
43	127						52		
44	136						53		
45	161						54		
46	168						55		
47	146						56		
48	152						57		
49	138						58		
50	145						59		
51	153						60		
52	149						61		
53	156						62		
54	162						63		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 732

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
55	146	7.1.04	AC				64	7/1/04	MSY
56	178	↓	↓	↓	↓	↓	65	↓	↓
57	149	↓	↓	↓	↓	↓	66	↓	↓
58	153	↓	↓	↓	↓	↓	67	↓	↓
59	137	↓	↓	↓	↓	↓	68	↓	↓
60	145	↓	↓	↓	↓	↓	69	↓	↓
61	156	↓	↓	↓	↓	↓	70	↓	↓
62	174	↓	↓	↓	↓	↓	71	↓	↓
63	167	↓	↓	↓	↓	↓	72	↓	↓
64	155	↓	↓	↓	↓	↓	73	↓	↓
65	149	↓	↓	↓	↓	↓	74	↓	↓
66	136	↓	↓	↓	↓	↓	75	↓	↓
67	142	↓	↓	↓	↓	↓	76	↓	↓
68	133	↓	↓	↓	↓	↓	77	↓	↓
69	137	↓	↓	↓	↓	↓	78	↓	↓
70	152	↓	↓	↓	↓	↓	79	↓	↓
71	159	↓	↓	↓	↓	↓	80	↓	↓
72	144	↓	↓	↓	↓	↓	81	↓	↓

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 732

	[ ] Floor Monitor ~~84~~ Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
73	167	7.1.04	AC				82	7/1/04	NSM
~~74~~	142						83		
75	173						84		
76	180						85		
77	174						86		
78	138						87		
79	148						88		
80	154						89		
81	136						90		
82	183						91		
83	166						92		
84	125						93		
85	139						94		
86	128						95		
87	140						96		
88	145						97		
89	151						98		
90	175						99		

↓ Surface

Survey Worksheet

Surface

Building: ☒ Lakeside Hospital ☐ MSB Room 732

	[ ] Floor Monitor ~~[ ]~~ Meter 1 [X] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
91	126	7.1.04	AC				10	7/1/04	NSM
92	155						6		
93	119						7		
94	130						8		
95	112						9		
96	133						10		
97	106						11		
98	152						12		
99	168						13		
100	144						14		
101	116						15		
102	141						16		
103	145						17		
104	148						18		
105	126						19		
106	103						20		
107	148						21		
108	161						22		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 733

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
109							Swab	7/11/04	MSH
110							↓	↓	↓
Equip 1							23		
Equip 2							24		
Equip 3							25	↓	↓

VAC

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	22-Jul-04
Survey Unit #:	LS-14
Building:	Lakeside Hospital
Floor:	7
FSS Floor Classification:	2
SU DCGLw (dpm/100cm²):	6.94E+03
SU Description:	Rooms 734, 734A, and 735

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm²)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

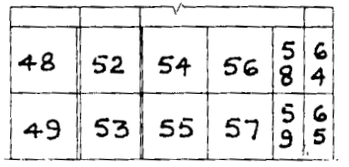
1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result[6] (net cpm)	Residual Surface Activity (dpm/100cm²)	Sign Test Parameter[6]
LS-14.01	S	2a	F	VT	113	122.4	-9.4	-2.53E+02	-1
LS-14.02	S	2a	W	PL	115	124.4	-9.4	-2.53E+02	-1
LS-14.03	S	2a	F	VT	103	122.4	-19.4	-5.22E+02	-1
LS-14.04	S	2a	F	VT	101	122.4	-21.4	-5.75E+02	-1
LS-14.05	S	2a	F	VT	112	122.4	-10.4	-2.80E+02	-1
LS-14.06	S	2a	F	VT	116	122.4	-6.4	-1.72E+02	-1
LS-14.07	S	2a	F	VT	110	122.4	-12.4	-3.33E+02	-1
LS-14.08	S	2a	F	VT	100	122.4	-22.4	-6.02E+02	-1
LS-14.09	S	2a	F	VT	104	122.4	-18.4	-4.95E+02	-1
LS-14.10	S	2a	F	VT	121	122.4	-1.4	-3.76E+01	-1
LS-14.11	S	2a	F	VT	135	122.4	12.6	3.39E+02	-1
LS-14.12	S	2a	F	VT	114	122.4	-8.4	-2.26E+02	-1
LS-14.13	S	2a	W	PL	127	124.4	2.6	6.99E+01	-1
LS-14.14	S	2a	F	VT	99	122.4	-23.4	-6.29E+02	-1
LS-14.15	S	2a	F	VT	121	122.4	-1.4	-3.76E+01	-1
LS-14.16	S	2a	F	VT	102	122.4	-20.4	-5.48E+02	-1
LS-14.17	S	2a	F	VT	121	122.4	-1.4	-3.76E+01	-1
LS-14.18	S	2a	F	VT	125	122.4	2.6	6.99E+01	-1
LS-14.19	S	2a	F	VT	108	122.4	-14.4	-3.87E+02	-1
LS-14.20	S	2a	F	VT	123	122.4	0.6	1.61E+01	-1
							Mean	-2.44E+02	
							Median	-2.53E+02	
							Range	9.68E+02	
							Std Dev (1 σ)	2.86E+02	
							MARSSIM Sign Test Required?		NO

Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Lower Walls	1	(See Survey Worksheet Packages Attached)	

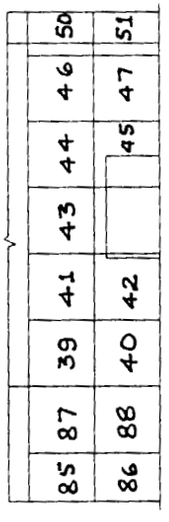
MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	0
Sign Test Critical Value (n=20)	14
Null Hypothesis Evaluation	N/A

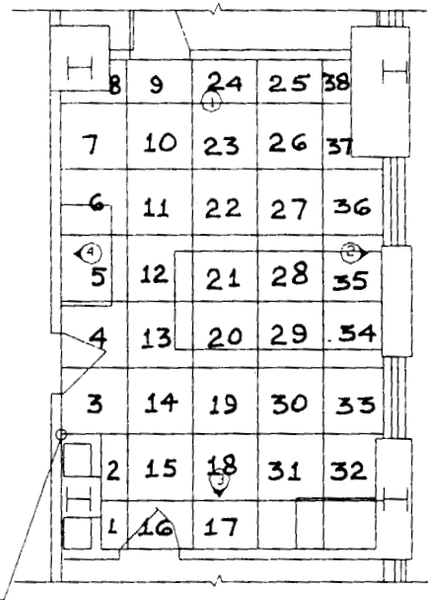
NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m)
4 Surface Materials: VT = Vinyl Tile PL = Plaster
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. *If Result > DCGLw, Sign =+1, Otherwise -1.*

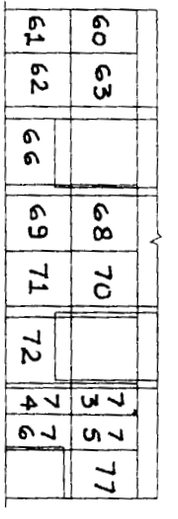


① ELEVATION





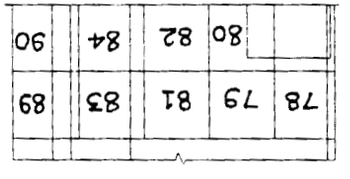
START GRID HERE



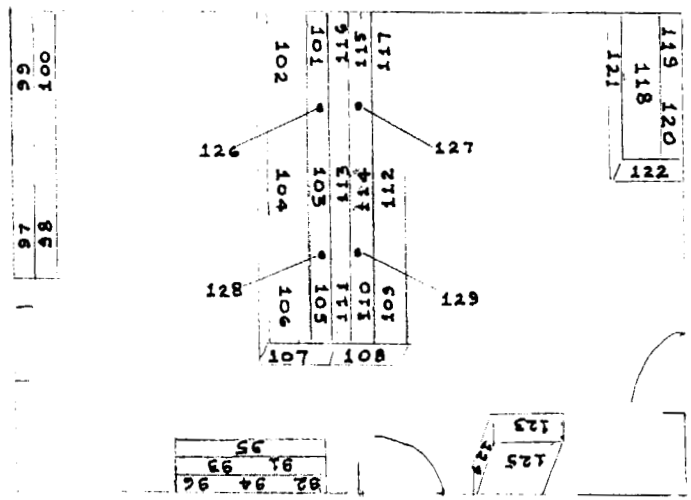
④ ELEVATION

ROOM 734

② ELEVATION



③ ELEVATION


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ROOM 734

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 734

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	339	6/4/04	Y.S.	0.10	6/4/04	Y.S.	97	6/4/04	NSM
2	353			0.10			98		
3	394			0.15			99		
4	338			0.10			100		
5	357			0.10			68		
6	422			0.20			69		
7	355			0.10			70		
8	419			0.10			71		
9	427			0.05			72		
10	381			0.15			73		
11	392			0.10			74		
12	325			0.05			75		
13	363			0.05			76		
14	371			0.05			77		
15	357			0.05			78		
16				0.05			79		
17	436			0.10			80		
18	381			0.05			81		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 734

	[M] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[M] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	401	6/4/04	J.S.	0.05	6/04/04	J.S.	82	6/4/04	NSH
20	395			0.10			83		
21	313			0.15			84		
22	384			0.10			85		
23	427			0.15			86		
24	410			0.10			87		
25	426			0.10			88		
26	385			0.05			89		
27	370			0.20			90		
28	368			0.20			91		
29	382			0.10			92		
30	361			0.15			93		
31	347			0.20			94		
32	373			0.15			95		
33	416			0.10			96		
34	440			0.15			97		
35	405			0.10			98		
36	424			0.10			99		
37	389			0.05			100		
38	439			0.10			1		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
39	124	6.4.4	AC				2	6/4/04	NSM
40	118						3		
41	109						4		
42	122						5		
43	133						6		
44	119						7		
45	125						8		
46	138						9		
47	122						10		
48	114						11		
49	127						12		
50	132						13		
51	109						14		
52	130						15		
53	115						16		
54	141						17		
55	155						18		
56	147						19		

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734

	[ ] Floor Monitor [4] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [4] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
57	164	6.4.04	AC				20	6/4/04	NSy
58	139	↓	↓				21	↓	↓
59	146						22		
60	132						23		
61	127						24		
62	145						25		
63	158						26		
64	126						27		
65	147						28		
66	134						29		
67	112						30		
68	163						31		
69	132						32		
70	142						33		
71	154						34		
72	139						35		
73	166						36		
74	158	↓	↓				37	↓	↓

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
75	151	6.4.04	AC				38	6/4/04	WSM
76	172						39		
77	123						40		
78	138						41		
79	157						42		
80	134						43		
81	98						44		
82	114						45		
83	148						46		
84	160						47		
85	152						48		
86	146						49		
87	137						50		
88	159						51		
89	142						52		
90	161						53		

Surfaces

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734

	[ ] Floor Monitor [ ] Meter 2 Det. 1	[X] Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
91	106	6.4.04	AC				54	6/4/04	NSM
92	112						55		
93	140						56		
94	136						57		
95	122						~~58~~		
96	108						59		
97	129						60		
98	142						61		
99	115						62		
100	141						63		
101	131						64		
102	120						65		
103	128						66		
104	126						67		
105	125						68		
106	114						69		
107	122						70		
108	111						71		

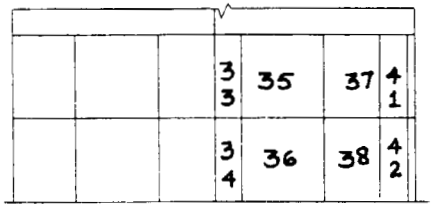
Surfaces

Survey Worksheet

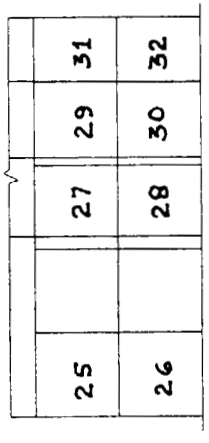
Building: [V] Lakeside Hospital [ ] MSB Room 134

	[ ] Floor Monitor [V] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [V] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
109	126	6/4/04	AC				72	6/4/04	NSH
110	114						73		
111	128						74		
112	110						75		
113	128						76		
114	135						77		
115	107						78		
116	131						79		
117	127						80		
118	126						81		
119	142						82		
120	146						83		
121	129						84		
122	126						85		
123	114						86		
124	149						87		
125	128	↓	↓				88		
126	-	-	-				swab		
127	-	-	-						
128	-	-	-						

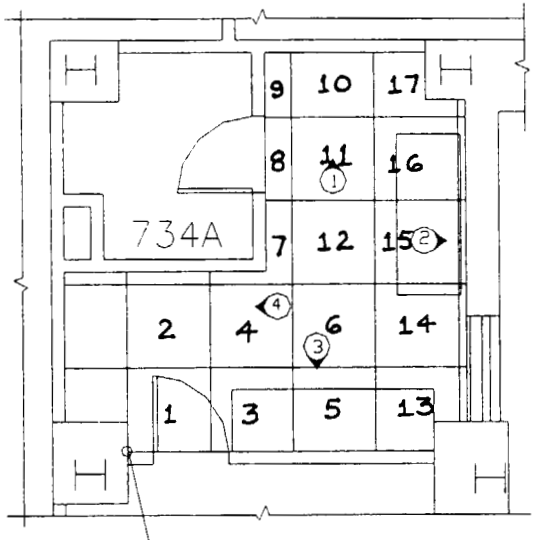
ACS



① ELEVATION

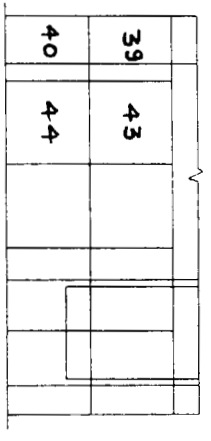


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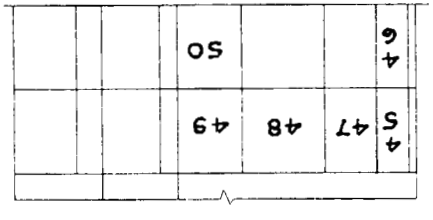


START GRID HERE

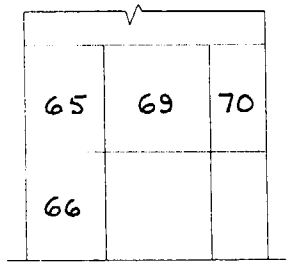
ROOM 734-1



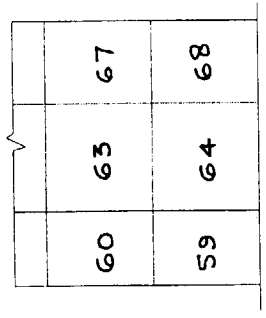
② ELEVATION



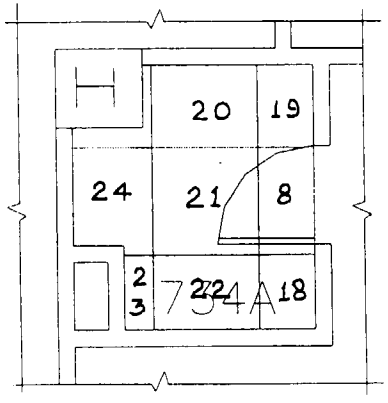
③ ELEVATION



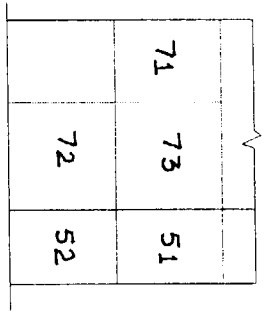
1 ELEVATION



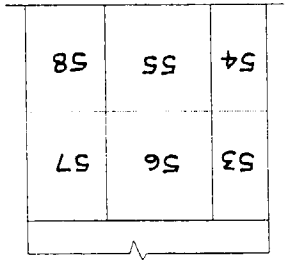
4 ELEVATION



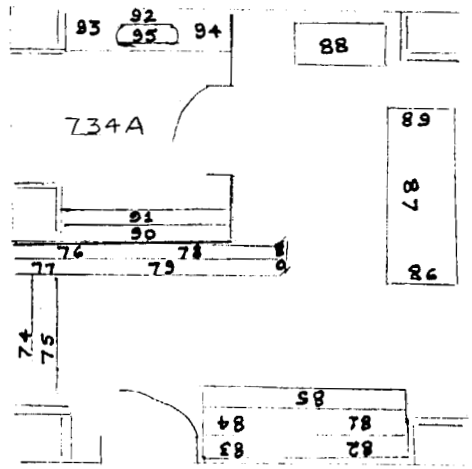
ROOM 734A



2 ELEVATION



3 ELEVATION



ROOM 734-1

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734-1/734A

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	422	6.7.04	AC	0.02	6.7.04	AC	57	06/07/04	NO
2	396	↓	↓	0.015	↓	↓	58	↓	↓
3	419			0.015			59		
4	406			0.025			60		
5	384			0.015			61		
6	422			0.015			62		
7	419			0.02			63		
8	434			0.025			64		
9	411			0.01			65		
10	460			0.02			66		
11	436			0.015			67		
12	431	↓	↓	0.02	↓	↓	68		
13	138	6.7.04	AC	Not Accessible			69		
14	115	↓	↓	↓	↓	↓	70		
15	109	↓	↓	↓	↓	↓	71		
16	443	6.7.04	AC	0.02	6.7.04	AC	72		
17	441	↓	↓	0.015	↓	↓	73		
18	417	↓	↓	0.01	↓	↓	74	↓	↓

steril

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734-1 / 734A

	Grid Position	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 ☒ Floor [ ] Surface cpm	Date	Initials	Meter 4 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
meter: 1	19	137	6.7.04	AC	Not Accessible			75	06/07/04	ME
	20	117	↓	↓	↓	↓	↓	76	↓	↓
	21	458	6.7.04	AC	0.025	6.7.04	AC	77	↓	↓
	22	441	↓	↓	0.015	↓	↓	78	↓	↓
	23	473	↓	↓	0.02	↓	↓	79	↓	↓
	24	434	↓	↓	0.01	↓	↓	80	↓	↓

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734-1/734A

W2115

	[ ] Floor Monitor [⋈] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [⋈] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
25	144	6.7.04	AC				B1	06/07/04	NB
26	153						B2		
27	146						B3		
28	139						B4		
29	146						B5		
30	138						B6		
31	129						B7		
32	152						B8		
33	162						B9		
34	145						90		
35	136						91		
36	159						92		
37	164						93		
38	149						94		
39	93						95		
40	86						96		
41	114						97		
42	97						98		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734-1/734A

V2115

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
43	142	6.7.04	AC				99	06/07/04	NB
44	157						100		
45	149						1		
46	138						2		
47	161						3		
48	138						4		
49	119						5		
50	126						6		
51	145						7		
52	123						8		
53	154						9		
54	157						10		
55	146						11		
56	139						12		
57	151						13		
58	163						14		
59	139						15		
60	144						16		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 734-1/734A

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
61	128	6.7.04	AC				17	06/07/04	NB
62	136						18		
63	159						19		
64	144						20		
65	169						21		
66	140						22		
67	136						23		
68	115						24		
69	149						25		
70	162						26		
71	151						27		
72	125						28		
73	117						29		

Survey Worksheet

Offices

Building: ☒ Lakeside Hospital ☐ MSB Room 734-1/734A

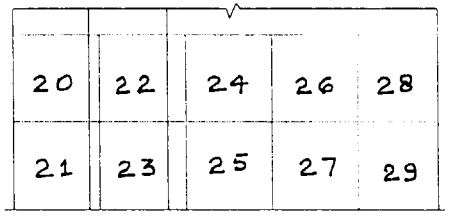
	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
74	147	6.7.04	AC				30	06/07/04	NB
75	132						31		
76	136						32		
77	142						33		
78	128						34		
79	133						35		
80	126						36		
81	132						37		
82	115						38		
83	121						39		
84	154						40		
85	118						41		
86	98						42		
87	127						43		
88	160						44		
89	133						45		
90	103						46		
91	127						47		

other

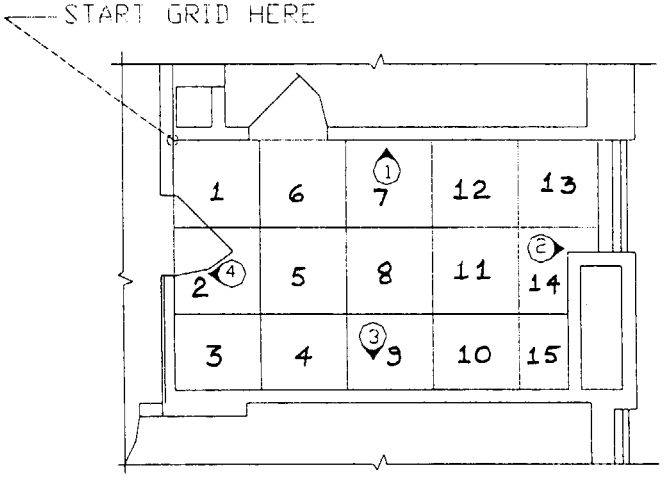
Survey Worksheet

Building: ~~[ ]~~ Lakeside Hospital [ ] MSB Room 734-1/734A

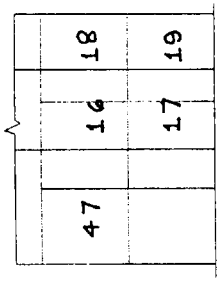
	[ ] Floor Monitor ~~[ ]~~ Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor ~~[ ]~~ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
92	135	6.7.04	AC				48	06/07/04	NB
93	138	↓	↓				49	↓	↓
94	164						50		
95	107						51		
96	117	↓	↓				52	↓	↓



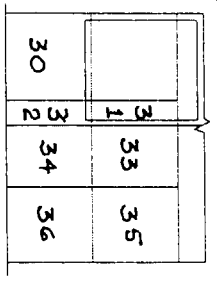
1 ELEVATION



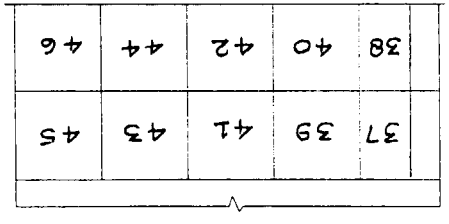
ROOM 735



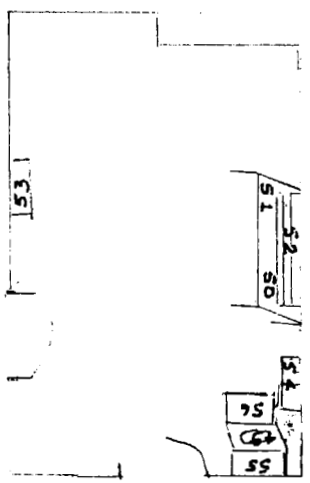
4 ELEVATION



2 ELEVATION



3 ELEVATION



ROOM 735

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 735

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	388	6.7.04	NB	0.015	6.7.04	AC	1	06/07/04	NB
2	426			0.02			2		
3	455			0.015			3		
4	485			0.01			4		
5	456			0.015			5		
6	476			0.02			6		
7	386			0.025			7		
8	442			0.02			8		
9	450			0.015			9		
10	516			0.015			10		
11	482			0.02			11		
12	431			0.015			12		
13	506			0.015			13		
14	379			0.02			14		
15	504			0.015			15		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 735

walls

	[ ] Floor Monitor ⋈ Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor ⋈ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
16	122	06/07/04	NB				16	06/07/04	NB
17	103						17		
18	142						18		
19	164						19		
20	196						20		
21	143						21		
22	127						22		
23	135						23		
24	155						24		
25	171						25		
26	169						26		
27	122						27		
28	177						28		
29	214						29		
30	179						30		
31	146						31		
32	134						32		
33	105						33		

Survey Worksheet

Walls

Building: ☒ Lakeside Hospital ☐ MSB Room 735

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
34	179	06/07/04	NB				34	06/07/04	NB
35	185						35		
36	182						36		
37	166						37		
38	184						38		
39	192						39		
40	168						40		
41	188						41		
42	163						42		
43	181						43		
44	200						44		
45	166						45		
46	160						46		
47	133						47		
48	187						48		

Survey Worksheet

other

Building: [X] Lakeside Hospital [ ] MSB Room 735

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
49	256	06/07/04	NB				49	06/07/04	NB
50	150						50		
51	138						51		
52	161						52		
53	106						53		
54	132						54		
55	151						55		
56	126						56		

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	27-Jul-04
Survey Unit #:	LS-15
Building:	Lakeside Hospital
Floor:	7
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 712 - Currently used as carpeted office space. Carpet removed in areas to obtain fixed-point measurements.

Instrument	*Ratemeter/Probe* Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-15.01	S	1	F	C	126	137.2	-11.2	-2.79E+02	-1
LS-15.02	S	1	F	C	146	137.2	8.8	2.19E+02	-1
LS-15.03	S	1	F	C	160	137.2	22.8	5.67E+02	-1
LS-15.04	S	1	F	C	124	137.2	-13.2	-3.28E+02	-1
LS-15.05	S	1	F	C	130	137.2	-7.2	-1.79E+02	-1
LS-15.06	S	1	F	C	125	137.2	-12.2	-3.03E+02	-1
LS-15.07	S	1	F	C	161	137.2	23.8	5.92E+02	-1
LS-15.08	S	1	F	C	143	137.2	5.8	1.44E+02	-1
LS-15.09	S	1	F	C	156	137.2	18.8	4.68E+02	-1
LS-15.10	S	1	F	C	150	137.2	12.8	3.18E+02	-1
LS-15.11	S	1	F	C	130	137.2	-7.2	-1.79E+02	-1
LS-15.12	S	1	F	C	115	137.2	-22.2	-5.52E+02	-1
LS-15.13	S	1	F	C	113	137.2	-24.2	-6.02E+02	-1
LS-15.14	S	1	F	C	117	137.2	-20.2	-5.02E+02	-1
LS-15.15	S	1	F	C	138	137.2	0.8	1.99E+01	-1
LS-15.16	S	1	F	C	151	137.2	13.8	3.43E+02	-1
LS-15.17	S	1	F	C	160	137.2	22.8	5.67E+02	-1
LS-15.18	S	1	F	C	120	137.2	-17.2	-4.28E+02	-1
LS-15.19	S	1	F	C	127	137.2	-10.2	-2.54E+02	-1
LS-15.20	S	1	F	C	116	137.2	-21.2	-5.27E+02	-1

Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F		N/A - Office carpeted

	Mean	**-4.64E+01**
	Median	**-1.79E+02**
	Range	**1.19E+03**
	Std Dev (1 σ)	**4.29E+02**
MARSSIM Sign Test Required?		**NO**
MARSSIM SIGN TEST EVALUATION		
Sum of Positive Signs		**0**
Sign Test Critical Value (n=20)		**14**
Null Hypothesis Evaluation		**N/A**

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor
4 Surface Materials: C = Concrete (under carpet).
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	21-Jul-04
Survey Unit #:	LS-16
Building:	Lakeside Hospital
Floor:	8
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Southeast wing of floor. Rooms 817-825 plus corridor.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-16.01	S	1	F	VT	146	122.4	23.6	5.87E+02	-1
LS-16.02	S	1	W	PL	153	124.4	28.6	7.11E+02	-1
LS-16.03	S	1	CT	SST	161	122	39	9.70E+02	-1
LS-16.04	S	1	F	VT	134	122.4	11.6	2.89E+02	-1
LS-16.05	S	1	W	PL	164	124.4	39.6	9.85E+02	-1
LS-16.06	S	1	CT	SST	120	122	-2	-4.98E+01	-1
LS-16.07	S	1	F	VT	137	122.4	14.6	3.63E+02	-1
LS-16.08	S	1	F	VT	116	122.4	-6.4	-1.59E+02	-1
LS-16.09	S	1	F	VT	140	122.4	17.6	4.38E+02	-1
LS-16.10	S	1	F	VT	132	122.4	9.6	2.39E+02	-1
LS-16.11	S	1	F	VT	148	122.4	25.6	6.37E+02	-1
LS-16.12	S	1	F	VT	145	122.4	22.6	5.62E+02	-1
LS-16.13	S	1	F	VT	116	122.4	-6.4	-1.59E+02	-1
LS-16.14	S	1	W	PL	163	124.4	38.6	9.60E+02	-1
LS-16.15	S	1	F	VT	115	122.4	-7.4	-1.84E+02	-1
LS-16.16	S	1	F	VT	144	122.4	21.6	5.37E+02	-1
LS-16.17	S	1	F	VT	131	122.4	8.6	2.14E+02	-1
LS-16.18	S	1	CT	SST	116	122	-6	-1.49E+02	-1
LS-16.19	S	1	CT	SST	122	122	0	0.00E+00	-1
LS-16.20	S	1	CT	SST	124	122	2	4.98E+01	-1
LS-16.21	S	1	CT	SST	123	122	1	2.49E+01	-1

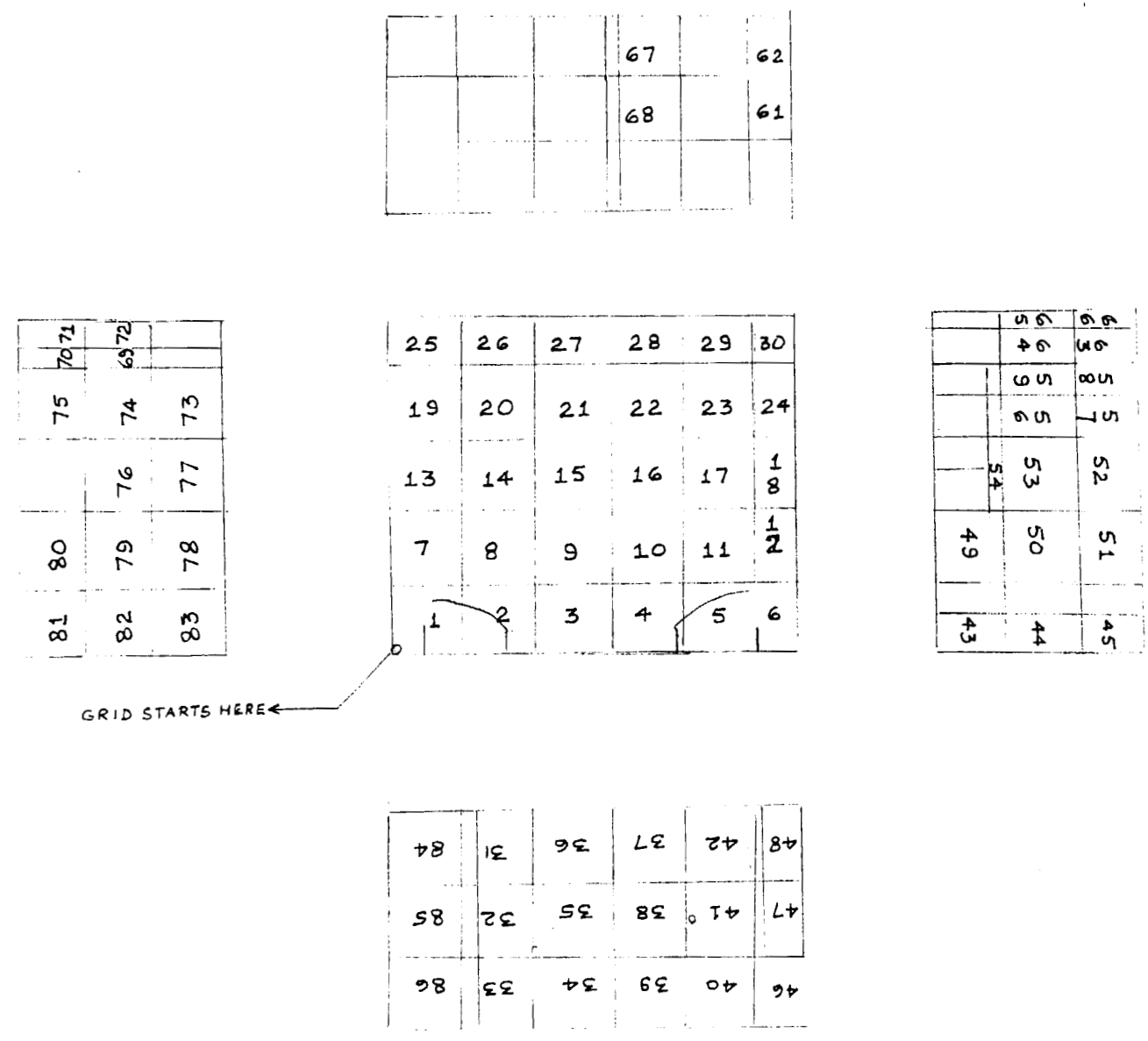
Mean	**3.42E+02**	
Median	**3.26E+02**	
Range	**1.17E+03**	
Std Dev (1 σ)	**3.96E+02**	
MARSSIM Sign Test Required?		**NO**

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**

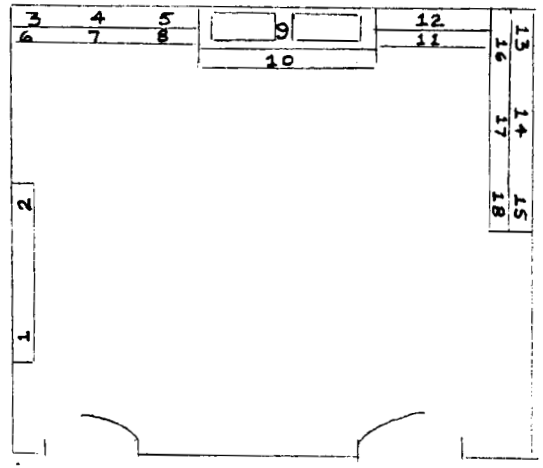
Scan Survey Results			
Area	**Instr. #**	**Gross CPM**	**Notes**
Floors	F	(See Survey Worksheet Packages Attached)	
Lower Walls	1	(See Survey Worksheet Packages Attached)	

NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m) CT = countertop
4 Surface Materials: VT = Vinyl Tile PL = Plaster SST = Synthetic Stone Countertop
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.


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GRID STARTS HERE
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ROOM 817 & 818



ROOM 817 & 818

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 817/818

Meter 3

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	497	4/19/04	DJD	0.015	4/21/04	SY	1	4/21/04	NSM
2	461			0.020			2		
3	377			0.010			3		
4	439			0.015			4		
5	442			0.015			5		
6	455			0.020			6		
7	432			0.015			7		
8	441			0.025			8		
9	443			0.020			9		
10	397			0.015			10		
11	422			0.015			11		
12	490			0.015			12		
13	392			0.015			13		
14	444			0.015			14		
15	424			0.005			15		
16	430			0.015			16		
17	513			0.020			17		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 817/818

Meter 3

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
18	423	4/19/04	DJD	0.015	4/21/04	SH	19	4/21/04	NSM
19	455			0.020			19		
20	484			0.015			20		
21	435			0.015			21		
22	421			0.015			22		
23	403			0.020			23		
24	410			0.010			24		
25	397			0.025			25		
26	441			0.020			26		
27	378			0.010			27		
28	452			0.010			28		
29	462			0.015			29		
30	460			0.020			30		
			BG	0.015 Bat OK	Check Source =		2.5 Kcpm		
~~35~~	~~1~~						~~1~~	~~4/21/04~~	~~NSM~~
~~36~~	~~2~~						(86)	"	"
~~33~~	~~3~~						87	"	"

~~35=86 0 0 0 0 0~~

Bkgd: 114 cpm
Bat: OK
Check source: 4.6 kcpm

WALLS

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 817/818

Surface Meter 1

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
31	130	4/22/04	SH/NB	—	—	—	85	4/22/04	NB
32	155						86		
33	130						87		
34	125						88		
35	140						89		
36	164						90		
37	150						91		
38	140						92		
39	130						93		
40	154						94		
41	145						95		
42	140						96		
43	140						97		
44	160						98		
45	136						99		
46	185						100		
47	155						1		

WALLS

Meter 1

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 817/818

Surface Meter 1

Grid Position	~~Floor~~ ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
48	145	4/27/04	GJ/NB	—	—	—	2	4/28/04	NB
49	160						3		
50	135						4		
51	174						5		
52	139						6		
53	140						7		
54	170						8		
55	160						9		
56	165						10		
57	165						11		
58	194						12		
59	180						13		
60	136						14		
61	190						15		
62	197						16		
63	151						17		
64	144						18		

Meter #1

WALLS

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 817/818

~~Alpha~~ Meter 1

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
65	140	4/21/04	SH	—	—	—	19	4/22/04	NB
66	172						20		
67	140						21		
68	165						22		
69	122						23		
70	140						24		
71	170						25		
72	130						26		
73	135						27		
74	140						28		
75	185						29		
76	180						30		
77	140						31		
78	140						32		
79	120						33		
80	—	~~4/20/04~~	~~NB~~				34		
81	—						35		

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 817/818

Surface Meter 1

Grid Position	~~Floor Monitor cpm~~	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
82	186	4/22/04	SY	—	—	—	36	4/22/04	NB
83	190	↓	↓	↓	↓	↓	37	↓	↓
84	148	↓	↓	↓	↓	↓	38	↓	↓
85	166	↓	↓	↓	↓	↓	39	↓	↓
86	—	—	—	—	—	—	40	↓	↓

Meter 1

Batt Ok
Bkgd: 95
CK Source: 4.6E/C60

Survey Worksheet

Surfaces

White Chok #

Building: ☑ Lakeside Hospital ☐ MSB Room 817/818

Surface Meter 1

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	130	4/28/04	SH	—	—	—	62	4/23/04	NSM
2	130						63		
3	120						64		
4	120						65		
5	120						66		
6	127						67		
7	115						68		
8	132						69		
9	120						70		
10	130						71		
11	130						72		
12	150						73		
13	125						74		
14	136						75		
15	120						76		
16	130						77		
17	130						78		

~~18~~

Survey Worksheet

Surfaces

Building: ☑ Lakeside Hospital ☐ MSB Room 817/818

White # surface meter 1

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
18	120	4/28/04	SY	—	—	—	79	4/23/24	NSM
19	120	↓	↓	↓	↓	↓	80	↓	↓
20	120	↓	↓	↓	↓	↓	81	↓	↓

Original / Transferred

Survey Worksheet

Date 4/21/04 Room 817/818 Surveyors Stephen Hay

Meter 3

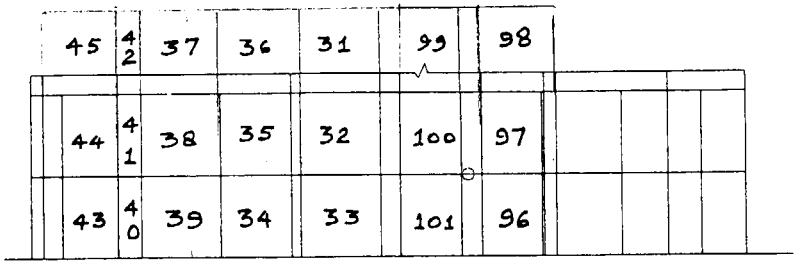
Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.015	Butad Bldg 0.015 mR/h
2		0.020	
3		0.010	
4		0.015	
5		0.015	
6		0.020	
7		0.015	
8		0.025	
9		0.020	
10		0.015	
11		0.015	
12		0.015	
13		0.015	
14		0.015	
15		0.005	
16		0.015	
17		0.020	
18		0.015	
19		0.020	
20		0.015	
21		0.015	
22		0.018	
23		0.020	
24		0.010	
25		0.025	
26		0.020	
27		0.010	
28		0.010	
29		0.015	
30		0.020	

Original, Transferred to new form

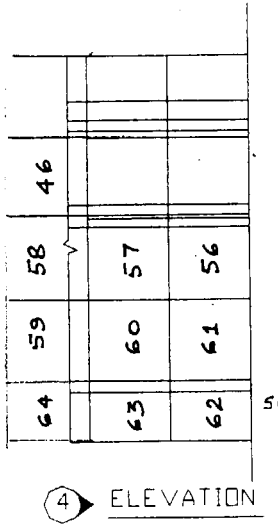
Survey Worksheet

Date 4/19/04 Room 817-818 Surveyors Dave Derenzo, Nina Bijedic, Stephanie Hay

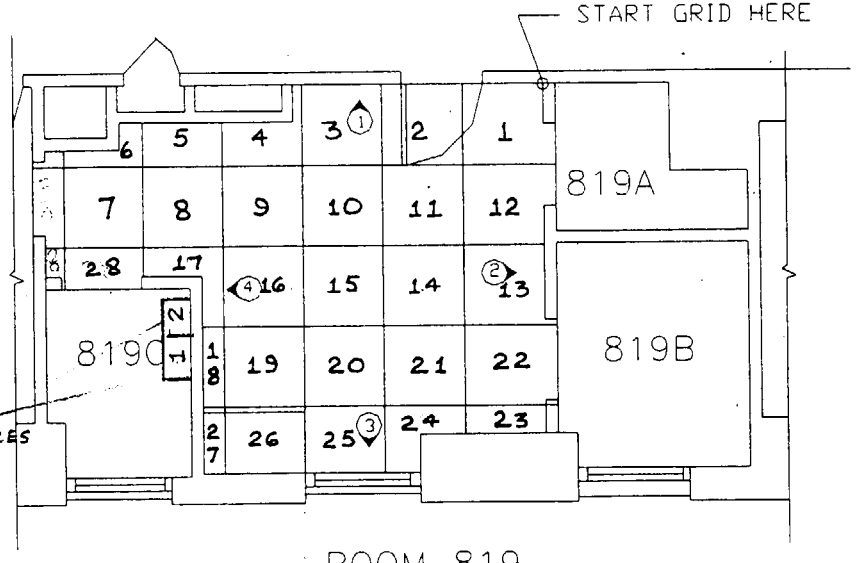
Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1	497		
2	461		
3	377		
4	439		
5	442		
6	455		
7	432		
8	441		
9	443		
10	397		
11	422		
12	490		
13	392		
14	444		
15	424		
16	430		
17	~~451~~ 513		
18	423		
19	455		
20	484		
21	435		
22	421		
23	403		
24	410		
25	397		
26	441		
27	378		
28	452		
29	462		
-			

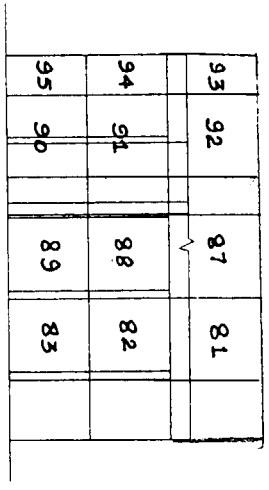


① ELEVATION

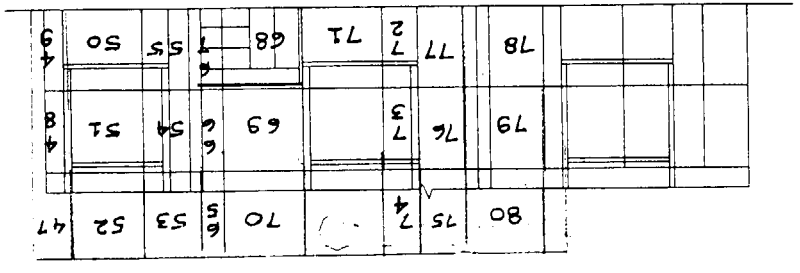


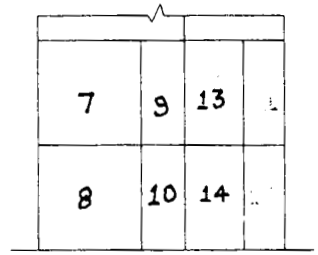
④ ELEVATION





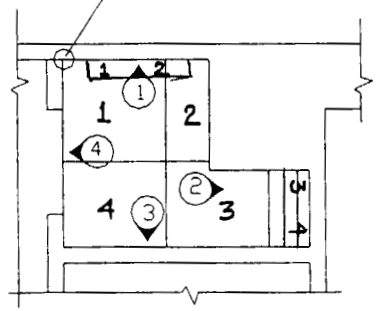
② ELEVATION



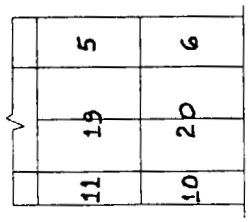


1 ELEVATION

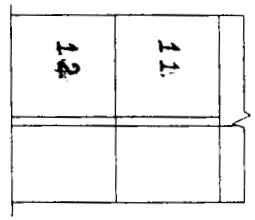
START GRID HERE



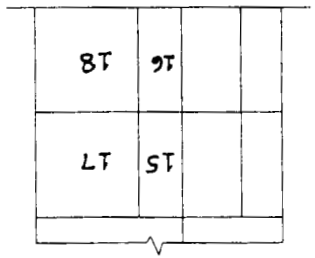
ROOM 819A



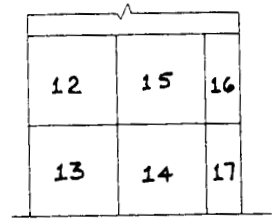
4 ELEVATION



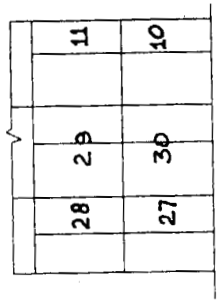
2 ELEVATION



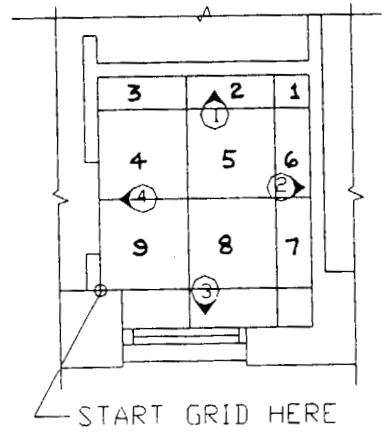
3 ELEVATION



1 ELEVATION

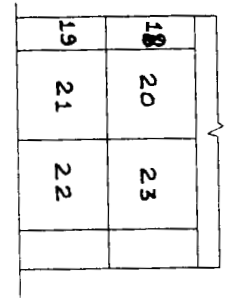


4 ELEVATION

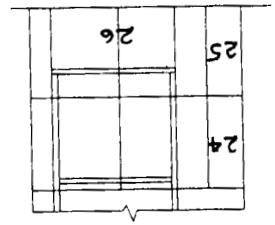


START GRID HERE

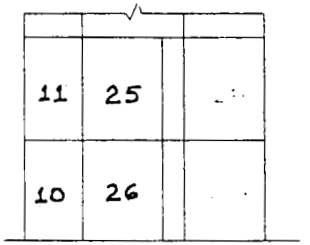
ROOM 819B



2 ELEVATION

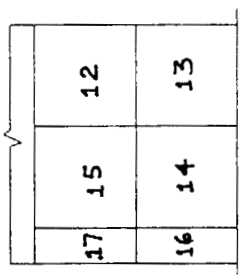


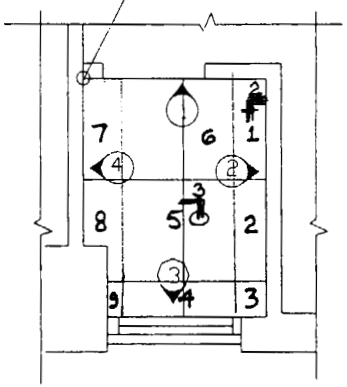
3 ELEVATION

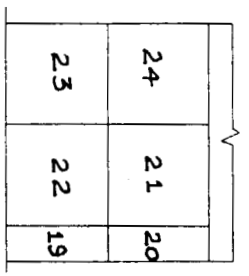


1 ELEVATION

START GRID HERE



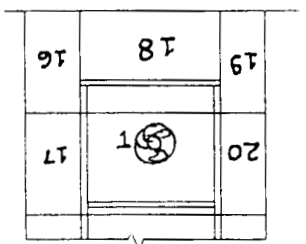




4 ELEVATION

2 ELEVATION

ROOM 819C



3 ELEVATION

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 8/9

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	477	4/2/04	NSH	0.035	4/20/04		503	4/21/04	NSH
2	442			0.030			51 ~~37~~		
3	510			0.020			52 ~~33~~		
4	502			0.020			53 ~~34~~		
5	519			0.020			54 ~~35~~		
6	487			0.020			55 ~~36~~		
7	474			0.030			56 ~~39~~		
8	464			0.025			57 ~~38~~		
9	486			0.020			58 ~~37~~		
10	455			0.030			59 ~~40~~		
11	471			0.020			60 ~~41~~		
12	472			0.030			61 ~~42~~		
13	449			0.020			62 ~~43~~		
14	431			0.010			63 ~~44~~		
15	470			0.030			64 ~~45~~		
16	491			0.015			65 ~~46~~		
17	509			0.025			66 ~~47~~		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 8/9

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	543	4/21/04	NSM	0.030			67	4/21/04	NSM
19	468	↓	↓	0.030			68	↓	↓
20	480			0.030			69		
21	455			0.025			70		
22	424			0.015			71		
23	420			0.025			72		
24	474			0.015			73		
25	526			0.035			74		
26	560			0.025			75		
27	553	↓	↓	0.030			76	↓	↓

WALLS

Meter 2
Ref 3

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819

Grid Position	~~Floor~~ Monitor cpm (surface)	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
28	144	4/23/04	SM	—	—	—	41	4/23/04	MB
29	130						42		
30	—						43		
31	—						44		
32	140						45		
33	135						46		
34	140						47		
36	150						48		
36	—						49		
37	—						50		
38	130						51		
39	120						52		
40	125						53		
41	125						54		
42							55		
43	155						56		
44	150						57		

(1

meter 1
Dept 3

WALLS

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819

Grid Position	surface ~~Floor~~ ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
45	—	4/23/04	CH				58	4/23/04	NB
46	—						59		
47	—						60		
48	140						61		
49	150						62		
50	110						63		
51	130						64		
52	—						65		
53	—						66		
54	130						67		
55	110						68		
56	130						69		
57	130						70		
58	—						71		
59	—						72		
60	130						73		
61	130						74		

WALLS

Meter 1
Det 3

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819

Grid Position	~~Floor~~ Monitor cpm (surface)	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
62	120	4/23/04	SH				75	4/23/04	MB
63	140						76		
64	—						77		
65	—						78		
66	130						79		
67	125						80		
68	155						81		
69	155						82		
70	—						83		
71	90						84		
72	130						85		
73	110						86		
74	—						87		
75	—						88		
76	100						89		
77	125						90		
78	110						91		

WALLS

Meter 1
Det 3

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819

Grid Position	surface ~~Floor~~ ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
79	90	4/23/04	GV	—	—	—	92	4/23/04	NB
80	—						93		
81	—						94		
82	105						95		
83	115						96		
84	105						97		
85	115						98		
86	—						99		
87	—						100		
88	105						1		
89	95						2		
90	125						3		
91	105						4		
92	—						5		
93	—						6		
94	100						7		
95	105						8		

WALLS

Survey Worksheet

Meter 1
Ref 3

Building: ☑ Lakeside Hospital ☐ MSB Room 819

Grid Position	~~Floor~~ Surface ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
96	180	4/23/04	SS	—	—	—	9	4/23/04	NB
97	100	↓	↓	↓	↓	↓	10	↓	↓
98	—						11		
99	—			↓	↓	↓	12	↓	↓
							[illegible]		

Metal ff

Survey Worksheet

White #

Building: ☑ Lakeside Hospital ☐ MSB Room 819

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	155	4/28/04	SH	—	—	—	82	4/23/04	NSH
2	145	↓	↓	↓	↓	↓	83	↓	↓
3	145	↓	↓	↓	↓	↓	84	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819A

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	540	4/21/04	NSM	0.025	04/21/04		77	4/21/04	NSM
2	555	↓	↓	0.020	↓		78	↓	↓
3	509			0.010			79		
4	526			0.015			80		
5	506			0.015			81		
6	522			0.005			82		
7	559			0.015			83		
8	560			0.020			84		
9	567	↓	↓	0.020	↓		85	↓	↓

Meter 1

Survey Worksheet

walls

Building: ☑ Lakeside Hospital ☐ MSB Room 819A

Surface

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
10	~~130~~	4/23/04	SY	—	—	—	13	4/23/04	JVSY
11	120						14		
12	190						15		
13	180						16		
14	125						17		
15	125						18		
16	100						19		
17	115						20		
18	140						21		
19	180						22		
20	180						23		
21	160						24		
22	170						25		
23	145						26		
24	155						27		
25	130						14		
26	140						15		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819A

White #

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	130	4/26/04	SY	—	—	—	85	4/23/04	NSM
2	140	↓	↓	↓	↓	↓	86	↓	↓
3	140	↓	↓	↓	↓	↓	87	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819B

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	503	4/21/04	NSM	0.015	4/21/04		86	4/21/04	NSM
2	499	↓	↓	0.0175	↓		87	↓	↓
3	550	↓	↓	0.015	↓		88	↓	↓
4	470	↓	↓	0.0100	↓		89	↓	↓

Survey Worksheet

Meter1

walls surface

Building: ☑ Lakeside Hospital ☐ MSB Room 8197B

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
5	85	4/23/04	SH	—	—	—	28	4/23/04	NSH
6	110						29		
7	130						30		
8	120						31		
9	156						32		
10	105						33		
11	120						34		
12	137						35		
13	130						36		
14	140						37		
15	100						38		
16	105						39		
17	105						40		
18	100						41		
19	105						42		
20	95						43		
—	—	—	—	—	—	—	—	—	—

Meter 1

Survey Worksheet

White # Monitor on Cabinet 6T Building: ☑ Lakeside Hospital ☐ MSB Room 819B

Grid Position	~~Floor Monitor cpm~~	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	186	4/28/04	SV	—	—	—	88	4/23/04	NSM
2	185	↓	↓	↓	↓	↓	89	↓	↓
3	140						90		
4	145	↓	↓	↓	↓	↓	91	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819C

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	446	4/21/04	NSM	0.030	04/20/04		90	4/21/04	NSM
2	466	↓	↓	0.025	↓		91	↓	↓
3	425	↓	↓	0.025	↓		92	↓	↓
4	447	↓	↓	0.020	↓		93	↓	↓
5	436	↓	↓	0.025	↓		94	↓	↓
6	526	↓	↓	0.020	↓		95	↓	↓
7	537	↓	↓	0.020	↓		96	↓	↓
8	486	↓	↓	0.025	↓		97	↓	↓
9	454	↓	↓	0.020	↓		98	↓	↓

Walls

Motor 1

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 819C

Grid Position	~~Floor~~ Surface ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
10	100	4/23/04	GJ	—	—	—	44	4/23/04	NSM
11	100						45		
12	125						46		
13	105						47		
14	100						48		
15	100						49		
16	100						50		
17	110						51		
18	110						52		
19	100						53		
20	120						54		
21	125						55		
22	140						56		
23	140						57		
24	130						58		
25	140						59		
26	125						60		

Walls

Surface

Survey Worksheet

Meter 1

Building: ☑ Lakeside Hospital ☐ MSB Room 819C

Grid Position	~~Floor~~ ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
27	100	4/23/04	SY	—	—	—	61	4/23/04	NSH
28	110	↓	↓	↓	↓	↓	62	↓	↓
29	105	↓	↓	↓	↓	↓	63	↓	↓
30	115	↓	↓	↓	↓	↓	64	↓	↓

Survey Worksheet

Date 4/29/04 Room 819 Surveyors Steph Haas

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.035	Bag of Blcs 0.02 mR/h
2		0.030	
3		0.020	
4		0.020	
5		0.020	
6		0.020	
7		0.030	
8		0.025	
9		0.020	
10		0.030	
11		0.020	
12		0.030	
13		0.020	
14		0.010	
15		0.030	
16		0.015	
17		0.025	
18		0.030	
19		0.030	
20		0.030	
21		0.025	
22		0.015	
23		0.025	
24		0.015	
25		0.035	
26		0.025	
27		0.030	

Survey Worksheet

Date 4/21/04 Room 819-A Surveyors Stephanie Hare

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.025	Bkgd 0.02 Batt: OK
2		0.020	
3		0.010	
4		0.015	
5		0.015	
6		0.005	
7		0.015	
8		0.020	
9		0.020	

Survey Worksheet

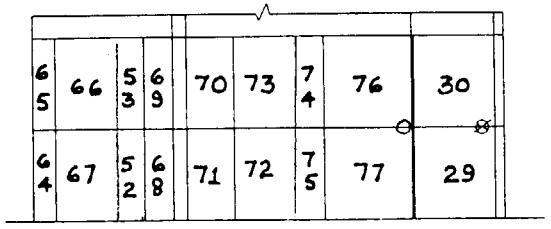
Date 4/21/04 Room 819B Surveyors Stephens Hape

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.015	Batt OK Bkgd 0.001 mR/h
2		0.0175	
3		0.015	
4		0.0100	

Survey Worksheet

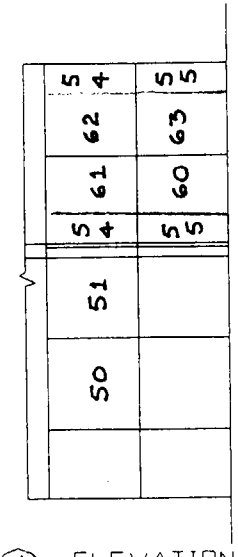
Date 4/20/04 Room 819c Surveyors Stephanie Harper

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.030	Batt OK BKGd 0.02 mR/h
2		0.025	
3		0.025	
4		0.020	
5		0.025	
6		0.020	
7		0.020	
8		0.025	
9		0.020	

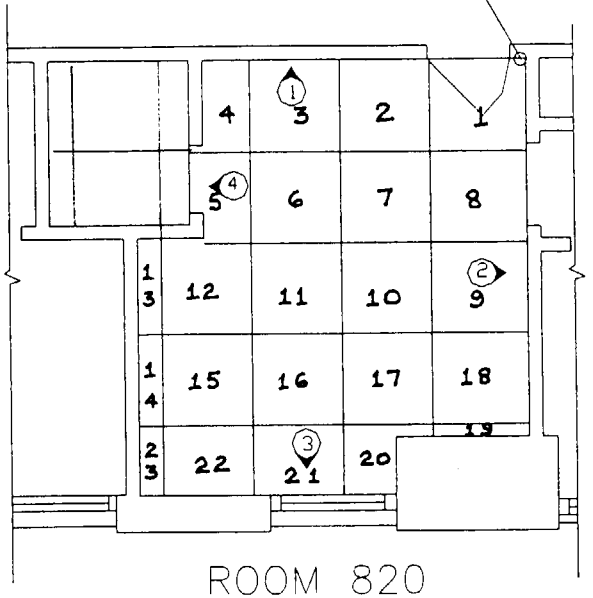


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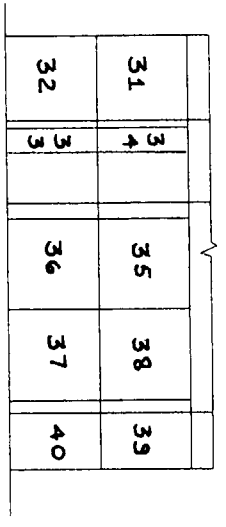
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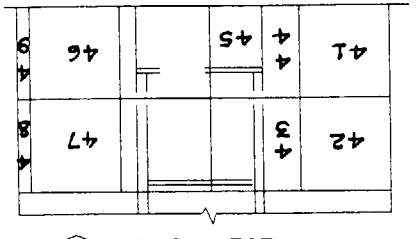
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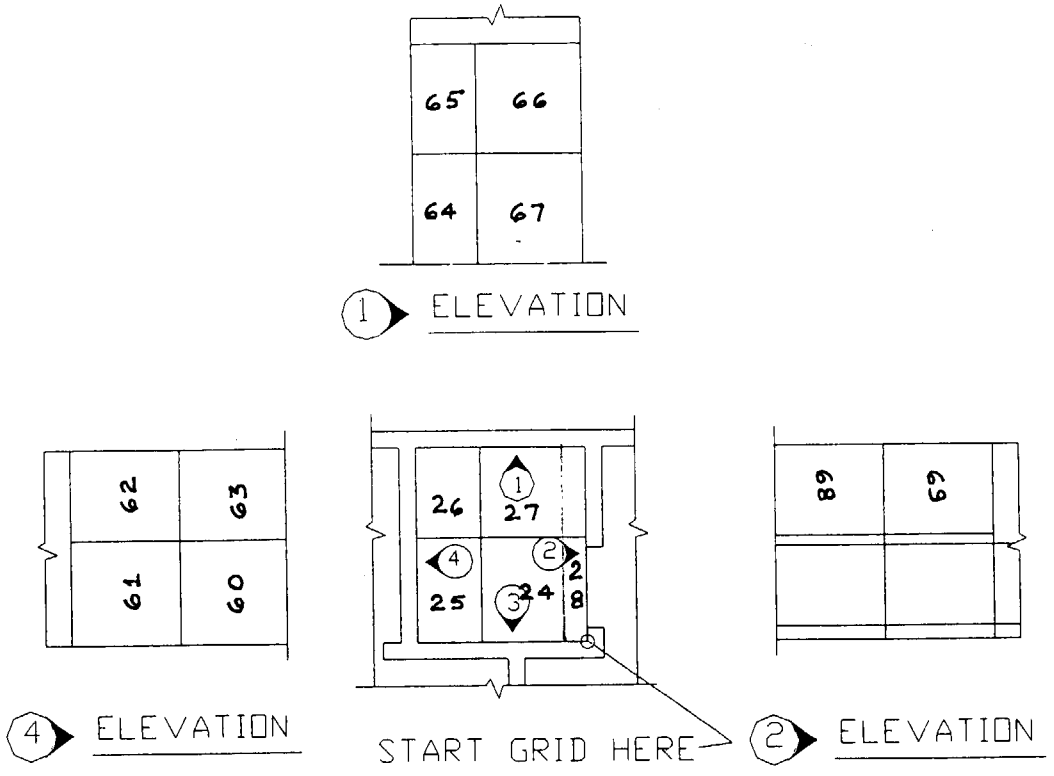
ROOM 820

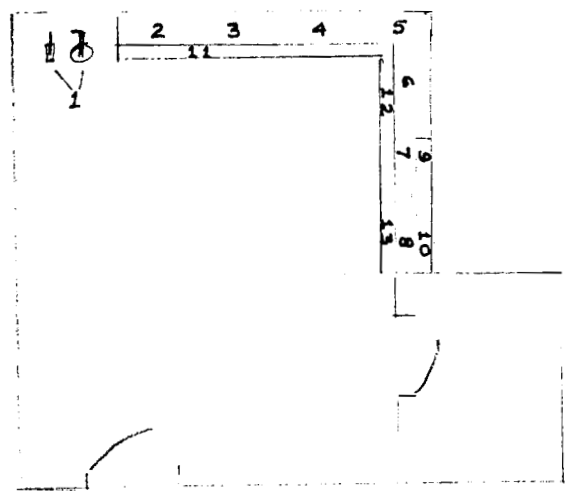


(2) ELEVATION



(3) ELEVATION


65
66
64
67
1 ELEVATION
62
63
61
60
4 ELEVATION
26
27
25
24
28
START GRID HERE
89
69
2 ELEVATION
ROOM 820A
59
56
58
57
3 ELEVATION



ROOM 820

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 820

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	513	4/21/04	NSM	0.025	04/20/04		99	4/21/04	NSM
2	477	↓	↓	0.020	↓		100	↓	↓
3	468			0.025			1		
4	424			0.020			2		
5	442			0.025			3		
6	439			0.020			4		
7	497			0.020			5		
8	459			0.025			6		
9	511			0.030			7		
10	486			0.025			8		
11	464			0.025			9		
12	459			0.020			10		
13	416			0.025			11		
14	411			0.020			12		
15	463			0.020			13		
16	458			0.035			14		
17	520	↓	↓	0.035	↓		15	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 820

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
18	466	4/21/04	NSM	0.030	04/20/04		16	4/21/04	~~NSM~~ NSM
19	479	↓	↓	0.030	↓		17	↓	↓
20	422			0.025			18		
21	456			0.025			19		
22	441			0.0225			20		
23	483			—	↓		21		
24	435			0.0225	04/21/04		22		
25	406			0.0100			23		
26	507			0.020			24		
27	517			0.020			25		
28	481	↓	↓	0.025	↓		26	↓	↓

Survey Worksheet

Metal

walls

Building: ☑ Lakeside Hospital ☐ MSB Room 820

Grid Position	~~Floor Monitor~~ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
29	105	4/23/04	SY	—	—	—	65	4/23/04	NSY
30	140						66		
31	134						67		
32	131						68		
33	140						69		
34	154						70		
35	120						71		
36	140						72		
37	140						73		
38	125						74		
39	135						75		
40	160						76		
41	120						77		
42	135						78		
43	116						79		
44	122						80		
45	150						81		

Survey Worksheet

Meter 1

Walls

Building: ☑ Lakeside Hospital ☐ MSB Room 820

Surface Meter 1 Meter 3

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
46	140	4/23/04	94	—	—	—	82	4/23/04	NSM
47	140	↓	↓	↓	↓	↓	83	↓	↓
48	145						84		
49	110						85		
50	131						86		
51	113						87		
52	100						88		
53	115						89		
54	120						90		
55	120						91		
56	110						92		
57	90						93		
58	110						94		
59	140						95		
60	115						96		
61	100						97		
62	140	↓	↓	↓	↓	↓	98	↓	↓

Survey Worksheet

Meter 1 Det 3

Walls Surface Building: ☑ Lakeside Hospital ☐ MSB Room 820

Meter 3

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
63	130	4/23/04	SH	—	—	—	99	4/23/04	NSH
64	110	↓	↓	↓	↓	↓	100	↓	↓
65	120						1		
66	130						2		
67	160						3		
68	140						4		
69	100						5		
70	130						6		
71	120						7		
72	160						8		
73	120						9		
74	140						10		
75	180						11		
76	110						12		
77	130	↓	↓	↓	↓	↓	13	↓	↓

meter 1

Survey Worksheet

White # Building: ☑ Lakeside Hospital ☐ MSB Room ~~820~~ 820

Counts, Shine (Meter 1) Meter 3

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	133	4/28/04	SH	—	—	—	92	4/23/04	NSH
2	150						93		
3	198						94		
4	155						95		
5	140						96		
6	140						97		
7	140						98		
8	150						99		
9	140						100		
10	140						1		
11	145						2		
12	155						3		
13	155						4		

Survey Worksheet

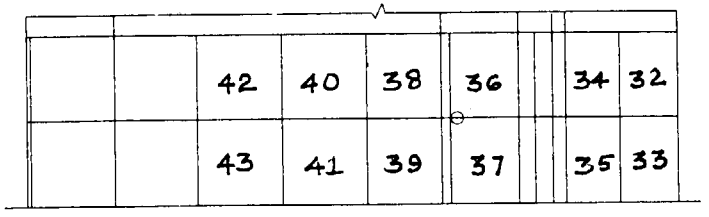
Date 4/20/04 Room 820 Surveyors Stephen Hansen

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.025	Bath o/c BKgd 0.02 mr/h
2		0.020	
3		0.025	
4		0.020	
5		0.025	
6		0.020	
7		0.020	
8		0.025	
9		0.030	
10		0.025	
11		0.025	
12		0.020	
13		0.025	under table
14		0.020	under tub
15		0.020	
16		0.035	
17		0.035	
18		0.030	
19		0.030	
20		0.025	partly under table
21		0.025	
22		0.025	partly under table
23			under table

Survey Worksheet

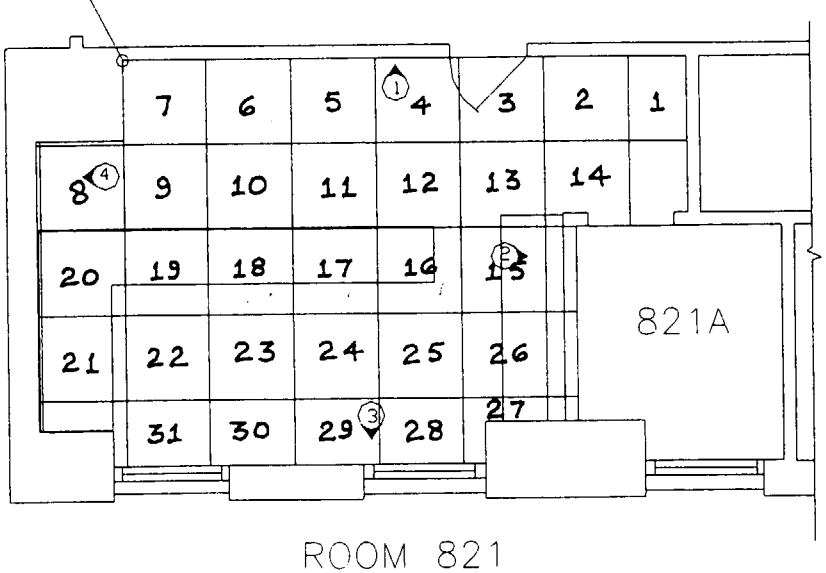
Date 4/21/04 Room Small anteroom of 820 Surveyors Stephens Harp

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
24		0.0220	Bkg 0.005 Batt: OK
25		0.0100	
26		0.0200	
27		0.0200	
28		0.0250	

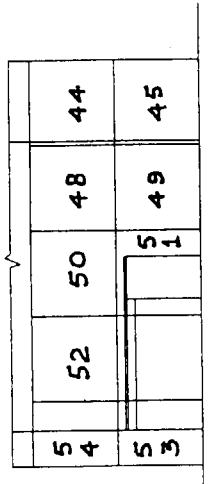


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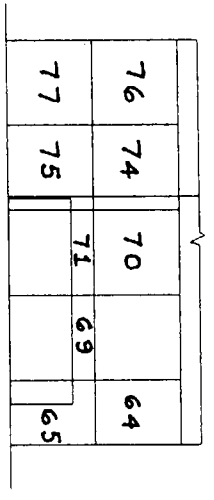
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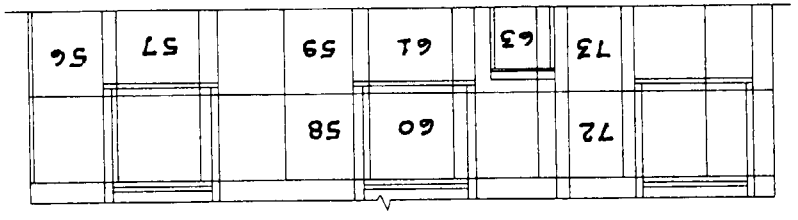
ROOM 821



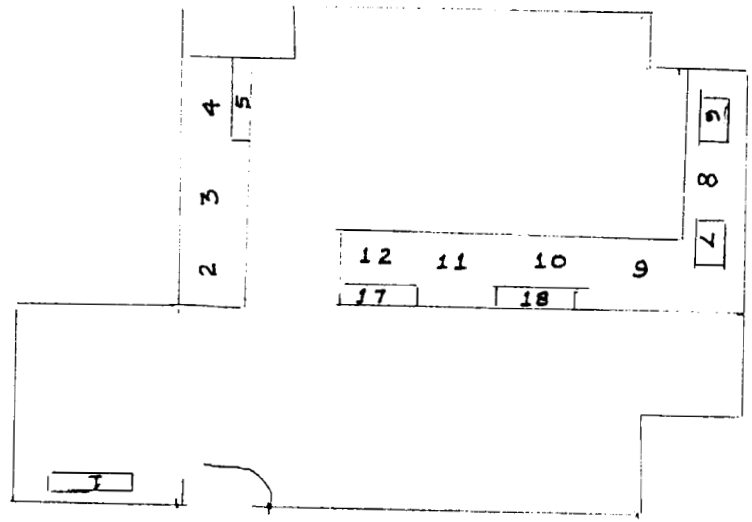
(4) ELEVATION



(2) ELEVATION



(3) ELEVATION



ROOM 821

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 821

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	511	4/21/04	NSH	0.015	4/21/04		27	4/21/04	NSH
2	455	↓	↓	0.015	↓		28	↓	↓
3	454			0.020			29		
4	462			0.015			30		
5	496			0.015			31		
6	512			0.020			32		
7	475			0.020			33		
8	~~500~~ 538			0.020			34		
9	482			0.035			35		
10	509			0.040			36		
11	507			0.040			37		
12	452			0.030			38		
13	475			0.030			39		
14	443			0.040			40		
15	444			0.025			41		
16	434			0.025			42		
17	445	↓	↓	0.030	↓		43	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 821

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
18	527	4/21/04	NSM	0.025	4/21/04		44	4/21/04	NSM
19	487	↓	↓	0.015	↓		45	↓	↓
20	485			0.020			46		
21	504 ~~538~~			0.015			47		
22	548			0.015			48		
23	491			0.015			49		
24	439			0.025			50		
25	441			0.015			51		
26	489			0.015			52		
27	490			0.020			53		
28	516			0.025			54		
29	472			0.025			55		
30	475			0.020			56		
31	477	↓	↓	0.020	▽		57	↓	↓

Walls

Bottom
B 12nd 114
Ck sm 4.612eg

Survey Worksheet

Surface Building: ☑ ~~☐~~ Lakeside Hospital ☐ MSB Room 821

Grid Position	~~Floor~~ ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
32	138	4/22/04	SM	—	—	—	98	4/23/04	NSM
33	133						99		
34	131						100		
35	140						1		
36	136						2		
37	135						3		
38	131						4		
39	130						5		
40	172						6		
41	153						7		
42	161						8		
43	138						9		
44	156						10		
45	142						11		
46	146						12		
47	151		✓				13		
48	128	✓		✓	✓	✓	14	✓	✓

Walls

Surface

Survey Worksheet

Meter 1

Det 3

Building: ☑ ~~Lakeside Hospital~~ ☐ MSB Room 821

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
49	152	4/27/01	SY	—	—	—	15	4/23/01	NSY
50	149						16		
51	140						17		
52	159						18		
53	171						19		
54	145						20		
55	169						21		
56	137						22		
57	142						23		
58	138						24		
59	139						25		
60	145						26		
61	169						27		
62	182						28		
63	162						29		
64	142						30		
65	138						31		

walls
surface

meter 1
Def 3

Survey Worksheet

Building: ☒ ~~Lakeside~~ Hospital ☐ MSB Room 821

Grid Position	Floor ~~Monitor cpm~~	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
66	156	4/22/04	GH	—	—	—	32	4/23/04	KSH
67	142	↓	↓	↓	↓	↓	33	↓	↓
68	161	↓	↓	↓	↓	↓	34	↓	↓
69	147	↓	↓	↓	↓	↓	35	↓	↓
70	144	↓	↓	↓	↓	↓	36	↓	↓
71	139	↓	↓	↓	↓	↓	37	↓	↓
72	102	↓	↓	↓	↓	↓	38	↓	↓
73	104	↓	↓	↓	↓	↓	39	↓	↓
74	133	↓	↓	↓	↓	↓	40	↓	↓
75	128	↓	↓	↓	↓	↓	41	↓	↓
76	136	↓	↓	↓	↓	↓	42	↓	↓
77	124	↓	↓	↓	↓	↓	43	↓	↓

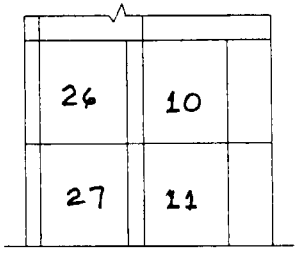
Survey Worksheet

Meter 1

Building: ☑ Lakeside Hospital ☐ MSB Room 821

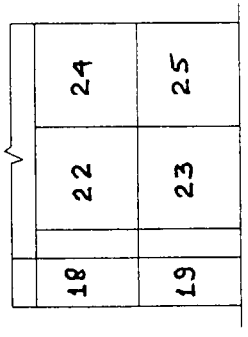
White # cabinet

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	123	4/28/04	SM	—	—	—	5	4/23/04	NSM
2	150						6		
3	140						7		
4	130						8		
5	135						9		
6	150						10		
7	140						11		
8	150						12		
9	160						13		
10	185						14		
11	140						15		
12	160						16		
13	115						17		
14	120						18		
15	130						19		
16	125						20		
17	120						21		
18	140						22		

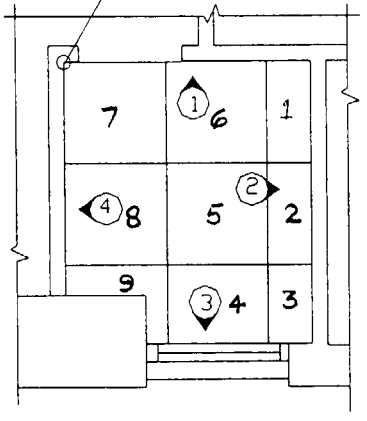


1 ELEVATION

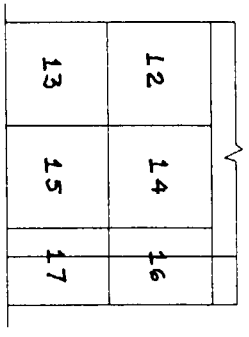
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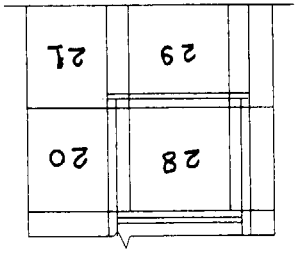
4 ELEVATION



ROOM 821A



2 ELEVATION



3 ELEVATION

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 821A

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	466	4/21/04	NSM	0.015	04/21/04		58	4/21/04	NSM
2	438	↓	↓	0.020	↓		59	↓	↓
3	527			0.0100			60		
4	488			0.015			61		
5	485			0.020			62		
6	441			0.020			63		
7	446			0.015			64		
8	420			0.0125			65		
9	447	↓	↓	0.020	↓		66	↓	↓

Walls

Surface

Survey Worksheet

CR Sandia

Bkg: 130
Bkg: QL
Key: 4.6

Building: ☒ Lakeside Hospital ☐ MSB Room 821 9

Grid Position	Floor ~~Monitor~~ ~~cpm~~	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
10	120	4/22/04	SH	—	—	—	44	4/23/04	NSH
11	110						45		
12	104						46		
13	117						47		
14	105						48		
15	104						49		
16	100						50		
17	94						51		
18	135						52		
19	142						53		
20	129						54		
21	145						55		
22	150						56		
23	101						57		
24	99						58		
25	102						59		
26	134						60		
27	141	↓	↓	↓	↓	↓	61	↓	↓

Survey Worksheet

See Over

Date 4/21/09 Room 821 Surveyors Stephanie Harper

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.015	BKG 0.005 mR/h; Bath GR over Marble Bench seat
2		0.015	
3		0.020	
4		0.015	
5		0.015	
6		0.020	
7		0.020	
8		0.020	over Marble Slab
9		0.035	
10		0.040	
11		0.040	
12		0.030	
13		0.030	
14		0.040	
15		0.025	under table
16		0.025	
17		0.030	
18		0.025	under table/ on floor edge
19		0.015	
20		0.020	under table/ on floor edge
21		0.015	under table
22		0.015	
23		0.015	
24		0.025	
25		0.015	under table
26		0.015	
27		0.020	
28		0.025	
29		0.025	
30		0.020	
31		0.020	

Survey Worksheet

Date 4/21/04 Room 821A Surveyors Stefanie & Hana

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.0150	Button Bkg 0.005
2		0.0200	
3		0.0100	
4		0.0150	
5		0.0200	
6		0.0200	
7		0.0150	
8		0.0125	
9		0.0200	

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13
15

ROOM 822

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 822

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	477	4/19/04		0.020	04/20/04		67	4/22/04	NB/SH
2	496			0.030			68		
3	438			0.025			69		
4	448			0.025			70		
5	423			0.030			71		
6	433			0.015			72		
7	424			0.025			73		
8	451			0.030			74		
9	404			0.030			75		
10	362			0.030			76		
11	391			0.030			77		
12	437			0.035			78		

Walls

Meter 1
Ref 3

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 822

Surface

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
13	180	4/23/04	SH	—	—	—	16	4/23/04	NSH
14	170						17		
15	170						18		
16	185						19		
17	165						20		
18	150						21		
19	130						22		
20	120						23		
21	115						24		
22	95						25		
23	115						26		
24	125						27		
25	105						28		
26	130						29		
27	160						30		
28	130						31		
29	160	↓	↓	↓	↓	↓	32	↓	↓

Walls

Survey Worksheet

Meter 1

Surface

Building: ☐ Lakeside Hospital ☑ MSB Room 822 Det 3

Grid Position	~~Floor~~ ~~Monit~~or cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
30	145	4/23/04	AS	—	—	—	33	4/23/04	AS
31	135	↓	↓	↓	↓	↓	34	↓	↓
32	135						35		
33	125						36		
34	135	↓	↓	↓	↓	↓	37	↓	↓
~~35~~									

Survey Worksheet

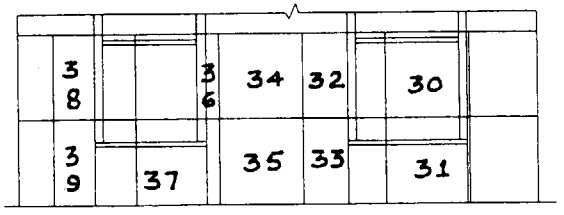
Date 4/19/04 Room 822 Surveyors _____

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1	477		
2	496		
3	438		
4	448		
5	423		
6	433		
7	424		
8	451		
9	404		
10	362		
11	391		
12	437		

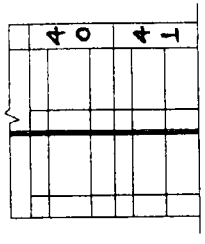
Survey Worksheet

Date 4/20/04 Room 822 Surveyors Stark Aagen

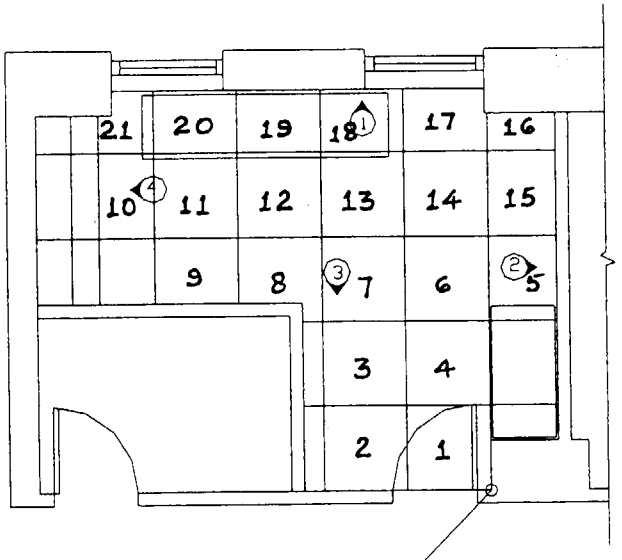
Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.020	Batt OK Bkg 0.02 mR/h
2		0.030	
3		0.025	
4		0.025	
5		0.030	
6		0.015	
7		0.025	
8		0 030	
9		0 030	
10		0.030	
11		0.030	
12		0.035	



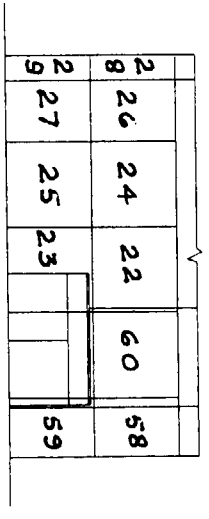
(1) ELEVATION



(4) ELEVATION

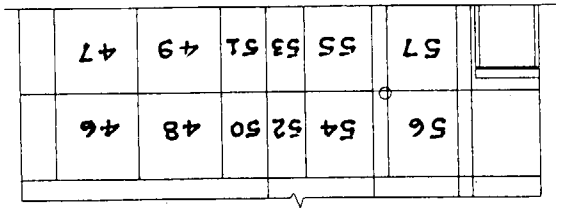


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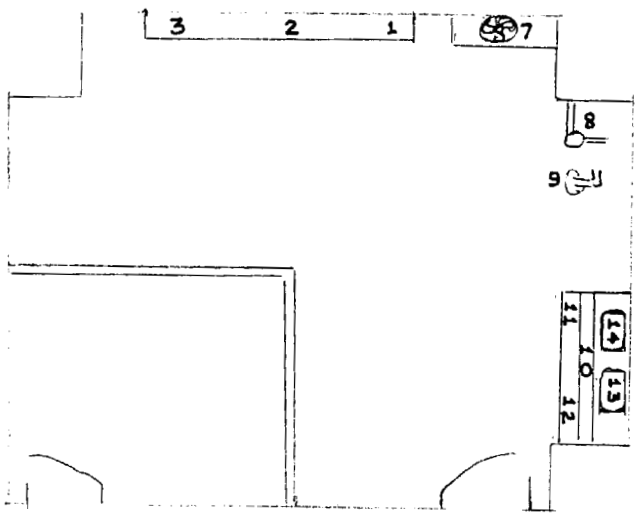


(2) ELEVATION

ROOM 823



(3) ELEVATION



ROOM 823

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 823

Meter 3

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	475	4/19/04	DSD	0.020	4/20/04		79	4/22/04	NB/
2	454			0.020			80		
3	424			0.015			81		
4	430			0.030			82		
5	437			0.025			83		
6	464			0.020			84		
7	413			0.010			85		
8	501			0.035			86		
9	465			0.030			87		
10	457			0.010			88		
11	454			0.010			89		
12	449			0.025			90		
13	465			0.020			91		
14	435			0.030			92		
15	522			0.025			93		
16	451			0.040			94		
17	437			0.020			95		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 823

Meter 3

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
18	428	4/19/04	[signature]	0.010	4/20/04		96	4/22/04	NB/
19	470	↓	↓	→	Inaccessible		97	↓	↓
20	399			—			98		
21	466	↓	↓	—			99	↓	↓

walls

Meter 1

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 823

Surface

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
22	150	4/23/04	SH	—	—	—	38	4/23/04	NSH
23	170						39		
24	150						40		
25	180						41		
26	125						42		
27	130						43		
28	140						44		
29	135						45		
30	140						46		
31	175						47		
32	155						48		
33	165						49		
34	120						50		
35	180						51		
36	120						52		
37	90						53		
38	128						54		

Walls

Meter 1
Det 3

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 8C3

Surface

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
39	153	4/23/04	SH	—	—	—	55	4/23/04	~~SH~~ NSH
40	120						56		
41	160						57		
42	cabinets								
43									
44									
45									
46	130						58		
47	110						59		
48	100						60		
49	130						61		
50	100						62		
51	120						63		
52	130						64		
53	130						65		
54	120						66		
55	130						67		

Walls

Survey Worksheet

Meter 1
Det 3

Surface

Building: ☑ Lakeside Hospital ☐ MSB Room 823

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
56	130	4/23/04	SH	—	—	—	68	4/23/04	NSH
57	120	↓	↓	↓	↓	↓	69	↓	↓
58	140	↓	↓	↓	↓	↓	70	↓	↓
59	130	↓	↓	↓	↓	↓	71	↓	↓
60	MIRROR	↓	↓	↓	↓	↓	72	↓	↓
		↓	↓						
		↓	↓						
		↓	↓						
		↓	↓						
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		↓	↓						
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		↓	↓						
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Survey Worksheet

Meter #1

Building: ☑ Lakeside Hospital ☐ MSB Room 823

White # Meter #1

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	151	4/28/04	NB/SH	—	—	—	23	4/23/04	NSH
2	142	↓	↓	↓	↓	↓	24	↓	↓
3	135						25		
4	139						26		
5	124						27		
6	137						28		
7	151						29		
8	155						30		
9	159						31		
10	144						32		
11	138						33		
12	132						34		
13	118						35		
14	127	↓	↓	↓	↓	↓	36	↓	↓

Survey Worksheet

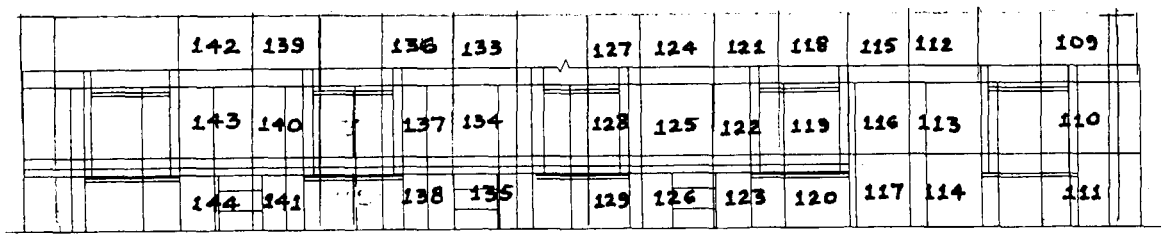
Date 4/19/04 Room 823 Surveyors Nima Bijedic Steph Hayes

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1	475		
2	454		
3	424		
4	430		
5	437		
6	464		
7	413		
8	501		
9	465		
10	457		
11	454		
12	449		
13	465		
14	435		
15	522		
16	451		
17	437		
18	428		
19	470		
20	399		
21	466		

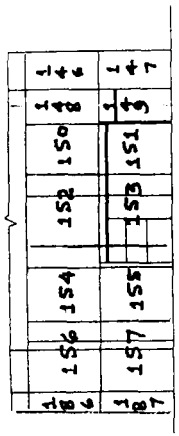
Survey Worksheet

Date 4/20/04 Room 823 Surveyors Stern

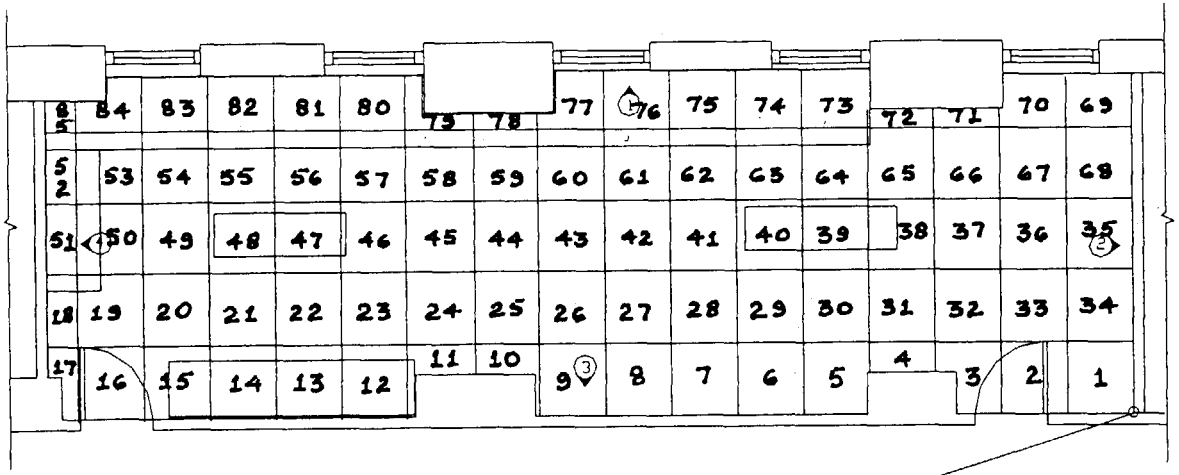
Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.020	Batt OL BKGD 0.02 mR/h
2		0.020	
3		0.015	
4		0.030	
5		0.025	
6		0.020	
7		0.010	
8		0.035	
9		0.030	
10		0.010	
11		0.010	
12		0.025	
13		0.020	
14		0.030	
15		0.025	
16		0.040	← 3 very separate measurements
17		0.020	
18		0.010	
19			in . abs
20			one - tube
21			inner tube



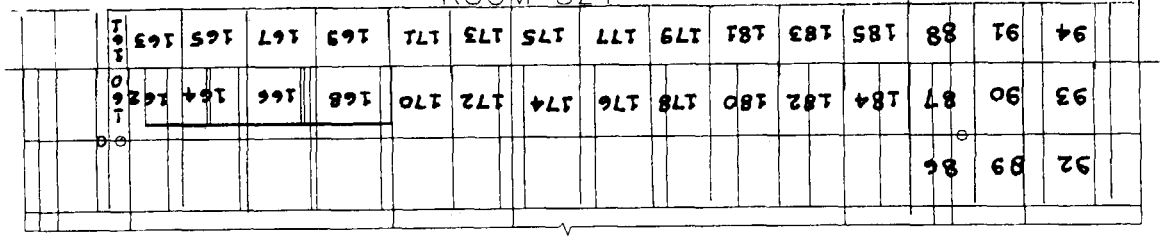
(1) ELEVATION



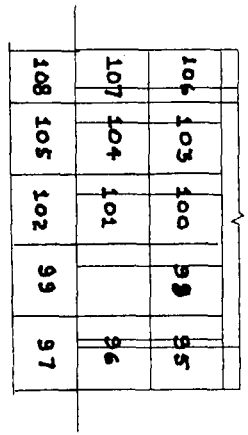
(4) ELEVATION



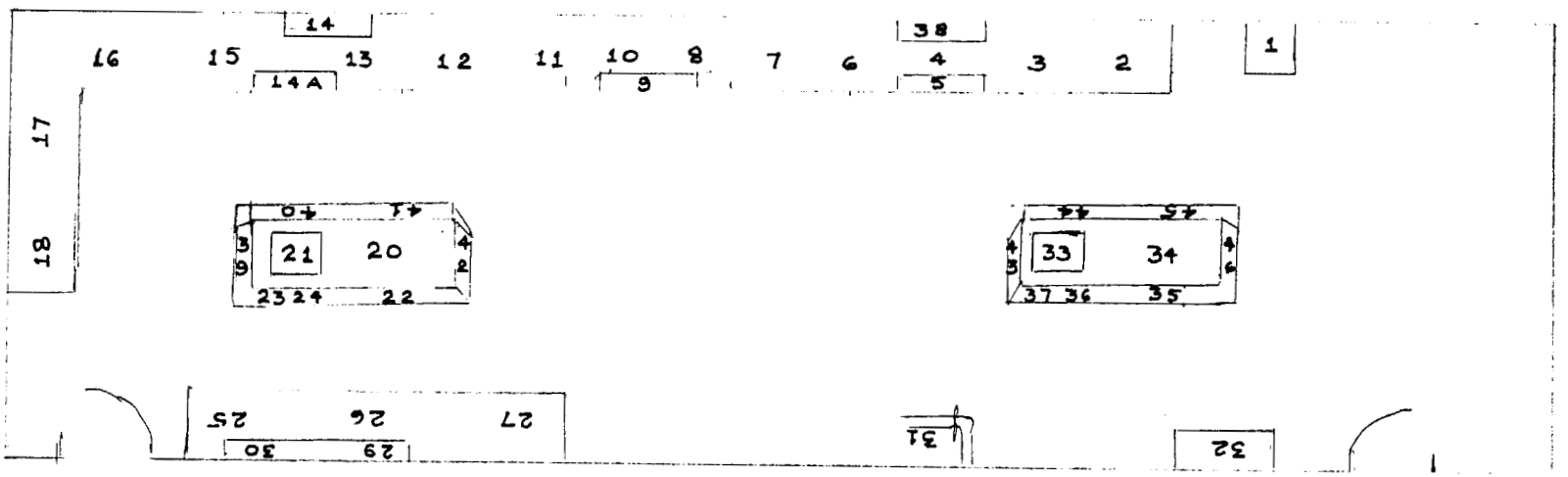
ROOM 824



(3) ELEVATION



(2) ELEVATION


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ROOM 824

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 824

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	504	4/19/04		0.030	4/20/04		100	4/22/04	NB/
2	460			0.035			1		
3	484			0.020			2		
4	363			0.020			3		
5	511			0.030			4		
6	443			0.030			5		
7	445			0.025			6		
8	484			0.030			7		
9	454			0.030			8		
10	445			0.035			9		
11	455			0.030			10		
12	371			0.025			11		
13	375			0.030			12		
14	407			0.025			13		
15	480			0.035			14		
16	450			0.030			15		
17	431			0.020			16		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 824

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
18	392	4/19/04		0.030	4/20/04		17	4/22/04	NB/
19	441			0.025			18		
20	381			0.035			19		
21	453			0.030			20		
22	412			0.025			21		
23	364			0.020			22		
24	442			0.010			23		
25	465			0.035			24		
26	412			0.025			25		
27	448			0.020			26		
28	403			0.020			27		
29	434			0.030			28		
30	430			0.025			29		
31	373			0.020			30		
32	453			0.030			31		
33	497			0.035			32		
34	516			0.010			33		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 824

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
35	489	4/19/04		0.020	4/20/04		34	4/22/04	NB/
36	460			0.030			35		
37	429			0.020			36		
38	446			0.020			37		
39	437			0.035			38		
40	401			0.025			39		
41	432			0.025			40		
42	420			0.035			41		
43	439			0.035			42		
44	441			0.010			43		
45	416			0.015			44		
46	414			0.015			45		
47	423			0.020			46		
48	403			0.035			47		
49	411			0.010			48		
50	443			0.015			49		
51	—			0.—			50		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 824

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
52	—	4/19/04		—	04/20/04		51	4/22/04	NB/
53	422			0.035			52		
54	390			0.035			53		
55	376			0.035			54		
56	392			0.010			55		
57	438			0.020			56		
58	422			0.020			57		
59	354			0.030			58		
60	394			0.025			59		
61	420			0.035			60		
62	369			0.010			61		
63	425			0.030			62		
64	457			0.025			63		
65	450			0.030			64		
66	446			0.035			65		
67	490			0.030			66		
68	469	↓		0.010	↓		67	↓	↓

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 824

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
69	496	4/19/04		0.030	04/20/04		68	4/22/04	NB/
70	456			0.030			69		
71	416			0.020			70		
72	381			0.030			71		
73	Table			0.025			72		
74	Inaccessible			0.020			73		
75				0.030			74		
76				0.020			75		
77				0.020			76		
78				0.025			77		
79				~~0.030~~			78		
80				0.030			79		
81				0.020			80		
82				0.025			81		
83				0.020			82		
84				0.025			83		
85				—			84		

Ludlum 2241, 44-94
S.No 203640, PR198969

walls

B Key 115
3 cell o/c
Ck exp 4.5 keys

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 824

Surface

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
86	114	4/22/04	SH				73	4/23/04	ANSH
87	112						74		
88	120						75		
89	119						76		
90	125						77		
91	130						78		
92	120						79		
93	114						80		
94	118						81		
95	118						82		
96	119						83		
97	124						84		
98	130						85		
99	134						86		
100	132						87		
101	125						88		
102	114						89		

Walls

Survey Worksheet

meter 1
Ref 3

Building: ☑ Lakeside Hospital ☐ MSB Room 824

surface

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
103	94.0	4/22/04	AY				90	4/23/04	NSM
104	111.0						91		
105	114						92		
106	120						93		
107	130						94		
108	125						95		
109	120						96		
110	110						97		
111	119						98		
112	120						99		
113	124						100		
114	124						1		
115	135						2		
116	143						3		
117	146						4		
118	153						5		
119	135						600		

Walls

Meter 1 of 3

Survey Worksheet

Surface

Building: ☑ Lakeside Hospital ☐ MSB Room 824

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
120	143	4/22/04	SY				1	4/23/04	NSY
121	125						8		
122	114						9		
123	94						10		
124	138						11		
125	135						12		
126	143						13		
127	118						14		
128	137						15		
129	124						16		
130	130						17		
131	134						18		
132	124						19		
133	143						20		
134	140						21		
135	125						22		
131	119	↓	↓				23	↓	↓

Walls

Survey Worksheet

Meter 1
Det 3

Surface

Building: ☑ Lakeside Hospital ☐ MSB Room 824

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
137	149	4/22/04	SY				24	4/23/04	NSY
138	156	↓	↓				25	↓	↓
139	159						26		
140	135						27		
141	164						28		
142	124						29		
143	182						30		
144	174						31		
145	148						32		
146	146						33		
147	134						34		
148	144						35		
149	133						36		
150	163						37		
151	182						38		
152	145						39		
153	124	↓	↓				40	↓	↓

Walls

Survey Worksheet

motor 1
Det 3

Surface

Building: ☑ Lakeside Hospital ☐ MSB Room 824

Grid Position	~~Floor,~~ ~~Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
154	152	4/22/04	SY				41	4/23/04	NSH
155	141	↓	↓				42	↓	↓
156	125						43		
157	136						44		
158	125						45		
159	108						46		
160	181						47		
161	142						48		
162	154						49		
163	163						50		
164	175						51		
165	109						52		
166	155						53		
167	136						54		
168	123						55		
169	129						56		
170	156	↓	↓				57	↓	↓

Walls

meter 1
Det 3

Survey Worksheet

Surface

Building: ☑ Lakeside Hospital ☐ MSB Room 824

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
171	177	4/22/04	SH				58	4/23/04	NSH
172	145	↓	↓				59	↓	↓
173	157						60		
174	162						61		
175	168						62		
176	166						63		
177	156						64		
178	166						65		
179	150						66		
180	166						67		
181	175						68		
182	156						69		
183	150						70		
184	183						71		
185	171						72		
186	156						73		
187	138	↓	↓				74	↓	↓

Survey Worksheet

Counters

Building: ☐ Lakeside Hospital ☐ MSB Room 824

White # Surface Meter)

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	140	4/28/04	SH	—	—	—	37	4/28/04	NSH
2	110						38		
3	112						39		
4	116						40		
5	113						41		
6	110						42		
7	99						43		
8	105						44		
9	95						45		
10	100						46		
11	95						47		
12	100						48		
13	125						49		
14	129						50		
15	95						51		
16	103						52		
17	110						53		
14A	90								

Survey Worksheet

Counters

Building: ☑ Lakeside Hospital ☐ MSB Room 824

White # surface Meter 1

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
18	119	4/28/04		—	—	—	54	4/23/04	NSM
19	90						55		
20	95						56		
21	97						57		
22	95						58		
23	125						59		
24	95						60		
25	100						61		
26	105						62		
27	~~90~~ 97						63		
28	114						64		
29	120						65		
30	110						66		
31	154						67		
32	135						68		
33	125						69		
34	100						70		

Survey Worksheet

White # Counters Surv. Meter 1 Building: ☐ Lakeside Hospital ☐ MSB Room 824

Grid Position	~~Floor~~ Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
35	~~65~~ 120	4/28/04	SH	—	—	—	71	4/28/04	NSH
36	~~85~~ 105	↓	↓	↓	↓	↓	72	↓	↓
37	106	↓	↓	↓	↓	↓	73	↓	↓
38	130	↓	↓	↓	↓	↓	74	↓	↓
39	130	↓	↓	↓	↓	↓	86	4/28/04	NB
40	135	↓	↓	↓	↓	↓	87	↓	↓
41	120	↓	↓	↓	↓	↓	88	↓	↓
42	125	↓	↓	↓	↓	↓	89	↓	↓
43	120	↓	↓	↓	↓	↓	90	↓	↓
44	115	↓	↓	↓	↓	↓	91	↓	↓
45	112	↓	↓	↓	↓	↓	92	↓	↓
46	130	↓	↓	↓	↓	↓	93	↓	↓

Survey Worksheet

Date 4/19/04 Room 824 8 Surveyors _____

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1	504		
2	460		
3	484		
4	363		
5	511		
6	443		
7	445		
8	484		
9	454		
10	445		
11	455		
12	371		
13	375		
14	407		
15	480		
16	450		
17	431		
18	392		
19	441		
20	381		
21	453		
22	412		
23	964		
24	442		
25	465		
26	412		
27	448		
28	403		
29	434		
30	430		

Survey Worksheet

Date 4/19/04 Room 824 Surveyors _____

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
31	373		
32	453		
33	497		
34	516		
35	489		
36	460		
37	429		
38	446		
39	437		
40	401		
41	432		
42	420		
43	439		
44	441		
45	416		
46	414		
47	423		
48	403		
49	411		
50	443		
51	—		
52	—		
53	422		
54	390		
55	376		
56	392		
57	438		
58	422		
59	354		
60	394		

Survey Worksheet

Date 4/19/04 Room 824 Surveyors _____

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
61	420		
62	369		
63	425		
64	457		
65	450		
66	446		
67	490		
68	469		
69	496		
70	456		
71	416		
72	381		
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			

Survey Worksheet

Date 4/20/04 Room 824 Surveyors SKA

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1		0.030	Battiolk 13 Kgd 0.02 mv/l
2		0.035	
3		0.020	
4		0.020	
5		0.030	
6		0.030	
7		0.025	
8		0.030	
9		0.030	
10		0.035	
11		0.030	
12		0.025	
13		0.030	
14		0.025	
15		0.035	
16		0.030	
17		0.020	
18		0.030	
19		0.025	
20		0.035	
21		0.030	
22		0.025	
23		0.020	
24		0.010	
25		0.035	
26		0.025	
27		0.020	
28		0.020	
29		0.030	
30		0.025	

Survey Worksheet

Date 4/20/04 Room 824 Surveyors Stark

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
31		0.020	
32		0.030	
33		0.035	
34		0.010	
35		0.020	
36		0.030	
37		0.020	
38		0.020	
39		0.035	
40		0.025	
41		0.025	
42		0.035	
43		0.035	
44		0.010	
45		0.015	Bad oil
46		0.015	
47		0.020	
48		0.035	
49		0.010	
50		0.015	
51		~~0.035~~ SM	undertable
52			undertable
53		0.030	
54		0.035	
55		0.035	
56		0.010	
57		0.020	
58		0.020	
59		0.030	
60		0.025	

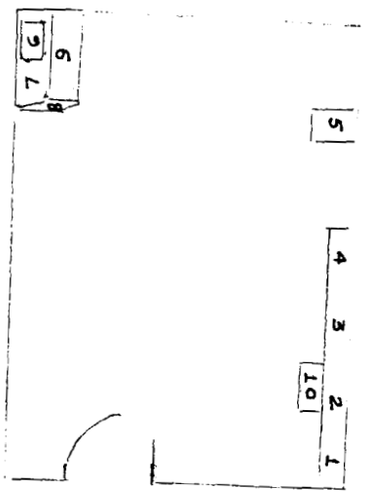
Survey Worksheet

Date 4/20/04 Room 824 Surveyors SKeN

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
61		0.034	
62		0.010	
63		0.030	
64		0.025	
65		0.030	
66		0.034	
67		0.030	
68		0.010	
69		0.030	
70		0.030	
71		0.020	
72		0.030	
73		0.025	under table
74		0.020	under table
75		0.030	under table
76		0.020	under table
77		0.020	under table
78		0.025	under table
79		0.030	under table
80		0.030	under table
81		0.020	under table
82		0.025	under table
83		0.020	under Table
84		0.025	under table

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ROOM 825



ROOM 825

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 825

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	400	4/19/04	DJP	0.030	04/21/04		31	4/21/04	NSM
2	477			0.025			32		
3	399			0.020			33		
4	—			—			34		
5	395			0.020			35		
6	475			0.0175			36		
7	472			0.020			37		
8	452			0.0225			38		
9	404			0.015			39		
10	402			0.015			40		
11	—			—			41		
12	—			—			42		
13	547			0.0175			43		
14	382			0.0225			44		
15	423			0.015			45		
16	392			0.0125			46		
17	441			0.015			47		
18	432			0.020			48		
19	512			0.010			49		

Bkd 120
Bkd OK
Meter 4.6 klm

WM225

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 825

Grid Position	~~Floor~~ Surface Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
20	177	4/23/04	SV				75	4/23/04	~~4/23/04~~ KSM
21	140	↓	↓				76	↓	↓
22	124						77		
23	130						78		
24	125						79		
25	140						80		
26	175						81		
27	184						82		
28	172						83		
29	174						84		
30	156						85		
31	173						86		
32	142						87		
33	152						88		
34	170						89		
35	216						90		
36	172	↓	↓				91	↓	↓

Walls

meter 1
Det 3

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 825

Surface

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	174	4/22/04	GY				92	4/23/04	NSY
38	182	↓	↓				93	↓	↓
39	184						94		
40	181						95		
41	172						96		
42	154	↓	↓				99	↓	↓
43	125	4/28/04	↓						
44	130	↓	↓						

Survey Worksheet

Counters

Building: ☑ Lakeside Hospital ☐ MSB Room 825

White # Surface Meter #

Grid Position	~~Floor Monitor~~ cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	113	4/28/04	SY				86	4/23/04	NSy
2	112	↓	↓				87	↓	↓
3	120						88		
4	119						89		
5	128						90		
6	125						91		
7	125						92		
8	99						93		
9	105						94		
10	110	↓	↓				95	↓	↓

Survey Worksheet

Date 4/19/04 Room 825 Surveyors _____

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1	400		
2	477		
3	399		
4	—		
5	395		
6	475		
7	472		
8	452		
9	404		
10	402		
11	—		
12	—		
13	547		
14	382		
15	423		
16	392		
17	441		
18	[redacted] 432		
19	512		

Survey Worksheet

Date 4/21/04 Room 825 Surveyors Stephen Hay

Grid Position	Floor Monitor cpm	1 m Exposure Rate mR/h	Notes
1	~~0 0~~ 5u	0.030	Bkgd 0.01 mr/h Bottom
2		0.025	
3		0.020	under table
4			under table
5		0.020	
6		0.0175	
7		0.020	
8		0.0225	
9		0.0150	
10		0.015	under table
11			under table
12			under table
13		0.0175	under table
14		0.025	
15		0.0150	
16		0.0125	
17		0.0150	
18		0.0200	
19		0.0100	

Survey Worksheet

white#

Building: ☑ Lakeside Hospital ☐ MSB Room Hallway

Grid Position	Floor Monitor cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1							75	4/23/04	NSH
2							76	↓	↓
3							77		
4							78		
5							79		
6							80		
7							81		
8							82		
9							83		
10							84		
11							85		

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	22-Jul-04
Survey Unit #:	LS-17
Building:	Lakeside Hospital
Floor:	8
FSS Floor Classification:	3
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Historical animal use area. Totally remodeled as building morgue and southwest wing of floor (rooms 829A-838).

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material-Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-17.01	S	1	F	VT	135	122.4	12.6	3.13E+02	-1
LS-17.02	S	1	F	VT	136	122.4	13.6	3.38E+02	-1
LS-17.03	S	1	F	VT	122	122.4	-0.4	-9.95E+00	-1
LS-17.04	S	1	F	VT	135	122.4	12.6	3.13E+02	-1
LS-17.05	S	1	F	VT	164	122.4	41.6	1.03E+03	-1
LS-17.06	S	1	F	C	233	137.2	95.8	2.38E+03	-1
LS-17.07	S	1	F	VT	112	122.4	-10.4	-2.59E+02	-1
LS-17.08	S	1	F	CT	294	287.8	6.2	1.54E+02	-1
LS-17.09	S	1	F	CT	301	287.8	13.2	3.28E+02	-1
LS-17.10	S	1	F	VT	112	122.4	-10.4	-2.59E+02	-1
LS-17.11	S	2a	W	PL	131	124.4	6.6	1.77E+02	-1
LS-17.12	S	1	W	PL	121	124.4	-3.4	-8.46E+01	-1
LS-17.13	S	1	F	VT	164	122.4	41.6	1.03E+03	-1
LS-17.14	S	1	F	VT	125	122.4	2.6	6.47E+01	-1
LS-17.15	S	1	F	CT	309	287.8	21.2	5.27E+02	-1
LS-17.16	S	1	F	VT	110	122.4	-12.4	-3.08E+02	-1
LS-17.17	S	1	F	VT	122	122.4	-0.4	-9.95E+00	-1
LS-17.18	S	1	F	VT	116	122.4	-6.4	-1.59E+02	-1
LS-17.19	S	1	F	VT	130	122.4	7.6	1.89E+02	-1
LS-17.20	S	1	F	VT	127	122.4	4.6	1.14E+02	-1
							Mean	**2.91E+02**	
							Median	**1.34E+02**	
							Range	**2.69E+03**	
							Std Dev (1 σ)	**6.49E+02**	
							MARSSIM Sign Test Required?		**NO**

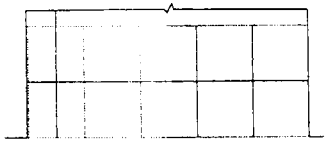
MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

Scan Survey Results

Area	Instr. #	Gross CPM	Notes
Morgue Floor	F	455 - 566	No spots > A.L. observed
Room 827	F	1450 - 1540	Red Clay Tile
Hall Floor	F	315 - 405	No spots > A.L. observed
Walls - Morgue	2a	315 - 398	Gray porcelian tile
Walls - Plaster	2a	125 - 200	No spots > A.L. observed

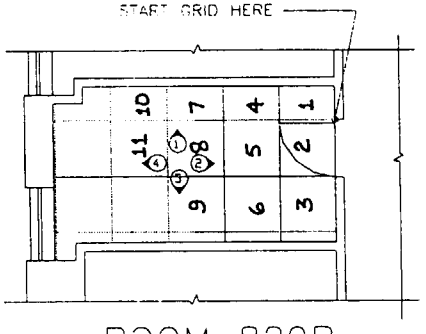
NOTES:

1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m)
4 Surface Materials: VT = Vinyl Tile CT = Clay Tile PL = Plaster C = Concrete
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

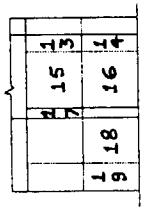


① ELEVATION

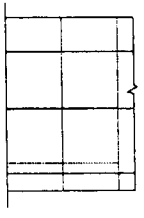
START GRID HERE



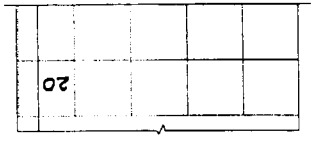
ROOM 829B



④ ELEVATION



② ELEVATION



③ ELEVATION

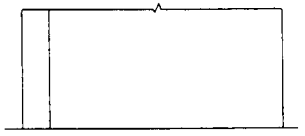
Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 829B

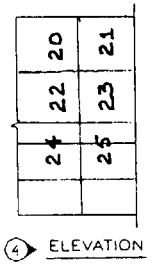
walls →

Grid Position	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 — [ ] Floor [ ] Surface cpm	Date	Initials	Meter 4 — 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	884	7/6/04	[illegible]	0.01	7/6/04	[illegible]	50	7.6.04	AC
2	791			0.01			51		
3	860			0.01			52		
4	845			0.01			53		
5	838			0.01			54		
6	874			0.01			55		
7	854			0.01			56		
8	824			0.01			57		
9	884			0.01			58		
10	856			0.01			59		
11	890			0.01			60		
12	879			0.01			61		
13	316	7/6/04	SY				62	7.6.04	AC
14	277						63		
15	292						64		
16	288						65		
17	278						66		
18	245						67		
19	247						68		
20	298						69		

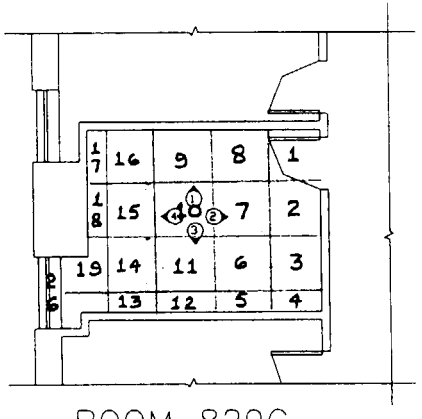
walls ↓



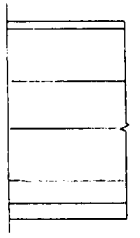
① ELEVATION



④ ELEVATION



ROOM 829C



② ELEVATION



③ ELEVATION

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 829C

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	900	7/6/04	SH	0.015	7/6/04	[illegible]	70	7.6.04	AC
2	870			0.01			71		
3	800			0.01			72		
4	265	7.12.04*	AC	0.01			73		
5	690			0.01			74		
6	670			0.01			75		
7	712			0.01			76		
8	910			0.01			77		
9	990			0.02			78		
10	770			0.01			79		
11	900			0.01			80		
12	1000			0.01			81		
13	980			0.01			82		
14	940			0.01			83		
15	920			0.01			84		
16	970			0.01			85		
17	960			0.01			86		
18	755			0.01			87		
19	1000			0.02			88		

*Not Accessible

Survey Worksheet

Walls

Building: ☒ Lakeside Hospital ☐ MSB Room 829C

	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
20	320	7/6/04	SY				89	7.6.04	AC
21	305						90		
22	350						91		
23	305						92		
24	321						93		
25	318						94		
26	245						95		

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	22-Jul-04
Survey Unit #:	LS-18
Building:	Lakeside Hospital
Floor:	8
FSS Floor Classification:	2
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Northwest wing of floor. Rooms 839-850 plus corridor.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	*Ludlum 239-1F*	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-18.01	S	1	F	C	161	137.2	23.8	5.92E+02	-1
LS-18.02	S	1	F	C	164	137.2	26.8	6.67E+02	-1
LS-18.03	S	1	F	VT	115	122.4	-7.4	-1.84E+02	-1
LS-18.04	S	1	F	VT	102	122.4	-20.4	-5.07E+02	-1
LS-18.05	S	1	F	C	121	137.2	-16.2	-4.03E+02	-1
LS-18.06	S	1	F	VT	120	122.4	-2.4	-5.97E+01	-1
LS-18.07	S	1	F	VT	116	122.4	-6.4	-1.59E+02	-1
LS-18.08	S	1	F	VT	123	122.4	0.6	1.49E+01	-1
LS-18.09	S	1	F	VT	120	122.4	-2.4	-5.97E+01	-1
LS-18.10	S	1	F	VT	114	122.4	-8.4	-2.09E+02	-1
LS-18.11	S	1	F	VT	122	122.4	-0.4	-9.95E+00	-1
LS-18.12	S	1	F	VT	135	122.4	12.6	3.13E+02	-1
LS-18.13	S	1	F	VT	108	122.4	-14.4	-3.58E+02	-1
LS-18.14	S	1	F	C	183	137.2	45.8	1.14E+03	-1
LS-18.15	S	1	F	C	132	137.2	-5.2	-1.29E+02	-1
LS-18.16	S	1	F	C	110	137.2	-27.2	-6.77E+02	-1
LS-18.17	S	1	F	VT	121	122.4	-1.4	-3.48E+01	-1
LS-18.18	S	1	F	VT	131	122.4	8.6	2.14E+02	-1
LS-18.19	S	2a	F	C	110	137.2	-27.2	-7.31E+02	-1
LS-18.20	S	1	F	C	148	137.2	10.8	2.69E+02	-1

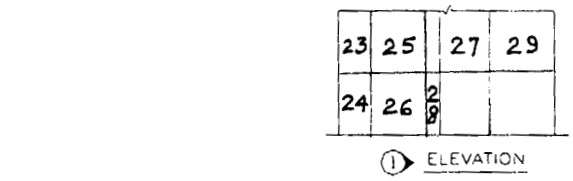
Mean	**-8.73E+01**
Median	**-9.45E+01**
Range	**1.87E+03**
Std Dev (1 σ)	**4.23E+02**
MARSSIM Sign Test Required?	**NO**

MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

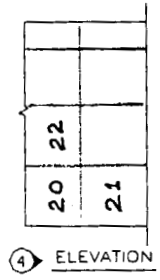
Scan Survey Results			
Area	**Instr. #**	**Gross CPM**	**Notes**
Floors	F	(See Survey Worksheet Packages Attached)	
Lower Walls	1, 2A	(See Survey Worksheet Packages Attached)	

NOTES:

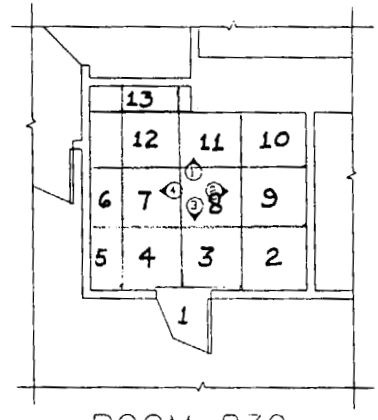
1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m)
4 Surface Materials: VT = Vinyl Tile C = Concrete
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.



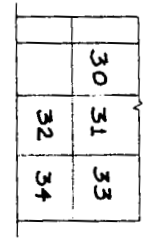
① ELEVATION



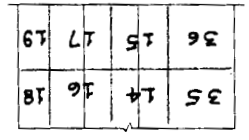
④ ELEVATION



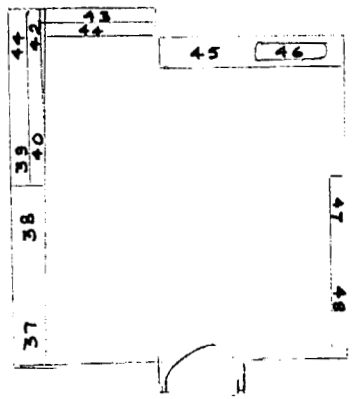
ROOM 839



② ELEVATION



③ ELEVATION



ROOM 839

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 839

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	451	7.13.04	AC	.015	7.8.04	AC	53	7.8.04	AC
2	438	↓	↓	.015	↓	↓	54	↓	↓
3	466			.01			55		
4	458			.015			56		
5	177			Not Accessible			57		
6	168			Not Accessible			58		
7	471			.015			59		
8	499			.01			60		
9	463			.02			61		
10	160			Not Accessible			62		
11	454			.01			63		
12	425	↓	↓	.015			64	↓	↓
13	163	7.8.04	AC	.01	↓	↓	65		

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 839

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
14	144	7.8.04	AC				66	7.8.04	AC
15	153	"	"				67	"	"
16	157	"	"				68	"	"
17	176	"	"				69	"	"
18	172	"	"				70	"	"
19	169	"	"				71	"	"
20	157	"	"				72	"	"
21	163	"	"				73	"	"
22	156	"	"				74	"	"
23	178	"	"				75	"	"
24	164	"	"				76	"	"
25	182	"	"				77	"	"
26	173	"	"				78	"	"
27	159	"	"				79	"	"
28	161	"	"				80	"	"
29	180	"	"				81	"	"
30	188	"	"				82	"	"
31	167	"	"				83	"	"

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 839

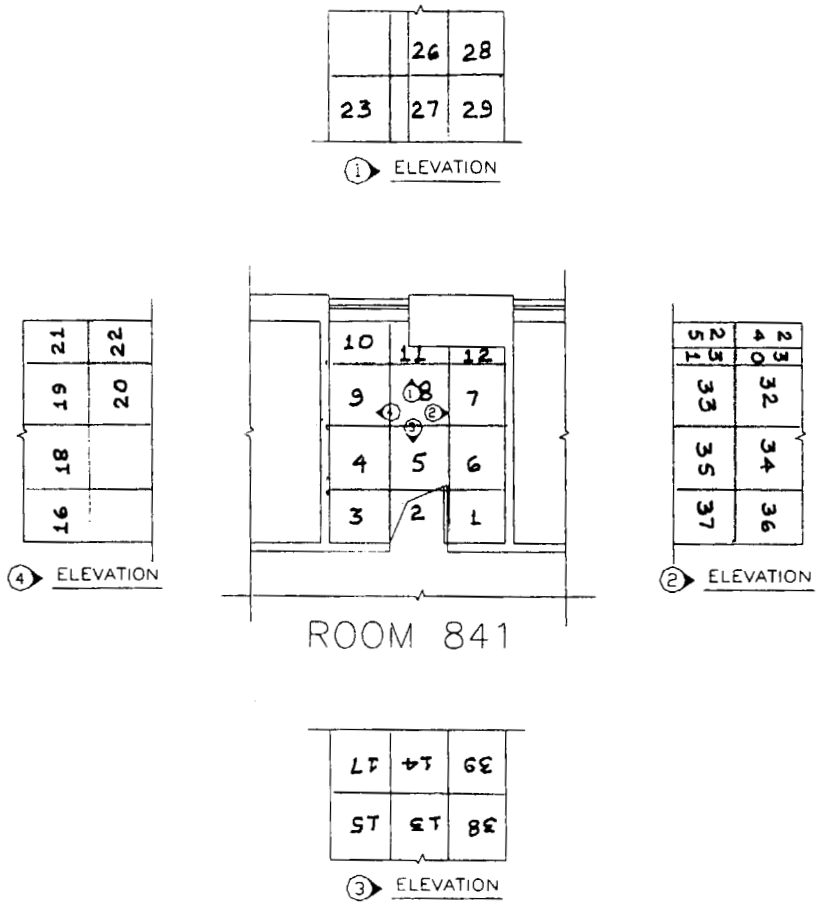
	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
32	136	7-8-04	AC				84	7.8.04	AC
33	186	↓	↓				85	↓	↓
34	173						86		
35	194						87		
36	190	↓	↓				88	↓	↓

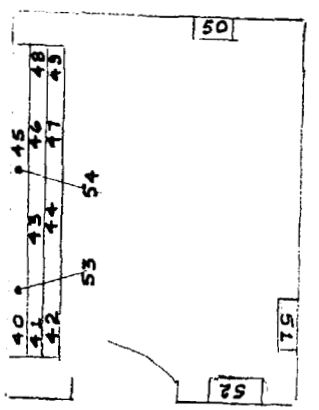
Survey Worksheet

surfaces

Building: ☒ Lakeside Hospital ☐ MSB Room 839

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	207	7-8.04	AC				89	7.8.04	AC
38	236						90		
39	154						91		
40	148						92		
41	146						93		
42	159						94		
43	138						95		
44	150						96		
45	196						97		
46	172						98		
47	206						99		
48	197						100		


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1 ELEVATION
21
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4 ELEVATION
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ROOM 841
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33
32
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36
2 ELEVATION
17
14
39
15
13
38
3 ELEVATION



ROOM 841

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 841

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	385	7.12.04	AC	0.0100	7/8/04	SJ	1	7/8/04	SJ
2	393			0.0150	↓	↓	2		
3	~~385~~ 175			Not Access			3		
4	342			0.0150	7/8/04	SJ	4		
5	373			Not Access 0.0100	7/8/04		5		
6	391			0.0050 ~~Not Access~~	7/8/04	SJ	6		
7	386			0.0200	7/8/04	SJ	7		
8	354			0.0150	↓	↓	8		
9	168			Not Access			9		
10	204			Not Access			10		
11	382			0.0125	7/8/04	SJ	11		
12	359	↓	↓	0.0050	↓	↓	12	↓	↓

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 841

	[X] Floor Monitor [ ] Meter 2 Det. 1	[X] Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
13	115	7/8/04	SM				13	7/8/04	SM
14	100						14		
15	120						15		
16	95						16		
17	110						17		
18	112						18		
19	99						19		
20	85						20		
21	115						21		
22	112						22		
23	100						23		
24	119						24		
25	125						25		
26	122						26		
27	110						27		
28	117						28		
29	115						29		
30	102	↓	↓				30	↓	↓

Survey Worksheet

Walls

Building: ☒ Lakeside Hospital ☐ MSB Room 841

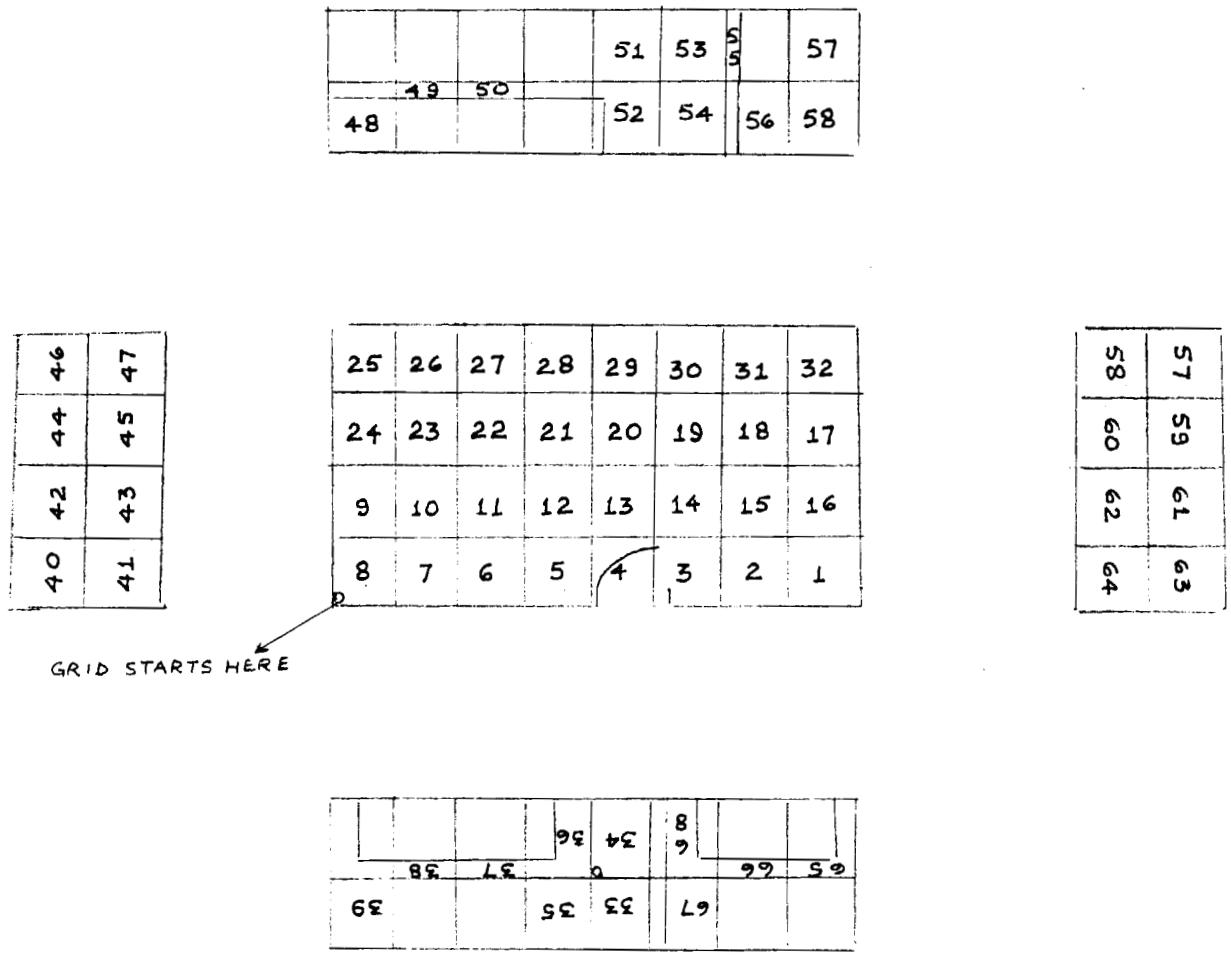
	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
31	110	7/8/04	SM				31	7/8/04	SM
32	122						32		
33	92						33		
34	135						34		
35	115						35		
36	92						36		
37	105						37		
38	112						38		
39	135	↓	↓				39	↓	↓

Survey Worksheet

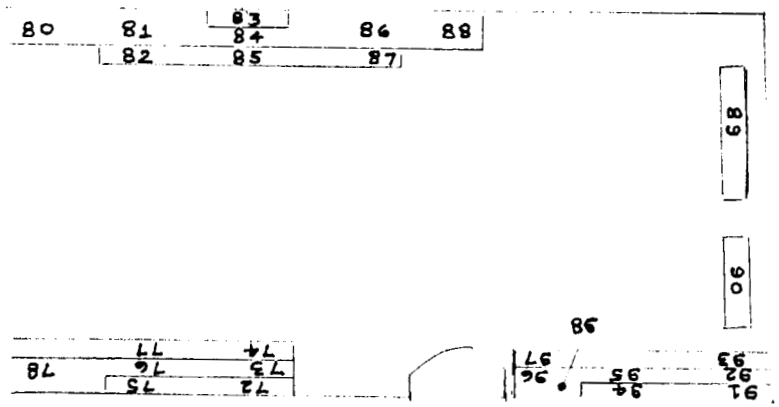
Surfaces

Building: ☒ Lakeside Hospital ☐ MSB Room 841

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
40	120	7/8/04	SM				40	7/8/04	SM
41	107						41		
42	119						42		
43	109						43		
44	112						44		
45	95						45		
46	88						46		
47	110						47		
48	106						48		
49	115						49		
50	114						50		
51	119						51		
52	140						52		
ACS 53							Sw26	7.8.04	AC
54							Sw26	7.8.04	AC


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ROOM 842


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ROOM 842

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 842

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	134	7.1.04	AC	Not accessible			26	7/1/04	NSH
2	146	7.1.04	AC				27		
3	333	7/1/04	[illegible]	0.01	7/1/04	[illegible]	28		
4	317			0.01			29		
5	338			0.01			30		
6	298			0.02			31		
7	325			0.02			32		
8	384			0.01			33		
9	357			0.01			34		
10	349			0.01			35		
11	329			0.01			36		
12	380			0.01			39		
13	315			0.005			38		
14	366			0.01			39		
15	330	[illegible]	[illegible]	0.01			40		
16	373	[illegible]	[illegible]	0.01			41		
17	118	7.1.04	AC	0.01			42		
18	334	7.1.04	[illegible]	0.01			43		

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 842

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	324	7/1/04		0.01	7/1/04		44	7/1/04	
20	317			0.01			45		
21	352			0.005			46		
22	380			0.005			47		
23	408			0.01			48		
24	356			0.01			49		
25	326			0.01			50		
26	341			0.015			51		
27	328			0.02			52		
28	363			0.015			53		
29	341			0.2			54		
30	313			0.01			55		
31	294			0.01			56		
32	350			0.01			57		
				0.01					

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 842

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
33	111	7.1.04	AC				58	7/1/04	NSH
34	118						59		
35	138						60		
36	134						61		
37	127						62		
38	136						63		
39	142						64		
40	133						65		
41	128						66		
42	131						67		
43	144						68		
44	131						69		
45	126						70		
46	137						71		
47	118						72		
48	140						73		
49	153						74		
50	146						75		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 842

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
51	138	7.1.04	AC				76	7/1/04	NSH
52	125						77		
53	131						78		
54	140						79		
55	146						80		
56	127						81		
57	141						82		
58	138						83		
59	140						84		
60	144						85		
61	101	7.1.04	SW				86		
62	95						87		
63	130						88		
64	135						89		
65	130						90		
66	137						91		
67	140						92		
68	135						93		

Survey Worksheet

Surfaces

Building: ☒ Lakeside Hospital ☐ MSB Room 842

	[ ] Floor Monitor [ ] Meter 1 [4] ~~Meter 2~~ Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [4] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
69	108	7/1/04	SH				94	7/11/04	NSH
70	101						95		
71	112						96		
72	135						97		
73	105						98		
74	95						99		
75	140						100		
76	116						10		
77	122						2		
78	110						3		
79	119						4		
80	135						5		
81	117						6		
82	110						7		
83	143						8		
84	125						9		
85	115						10		
86	102						11		

Surfaces

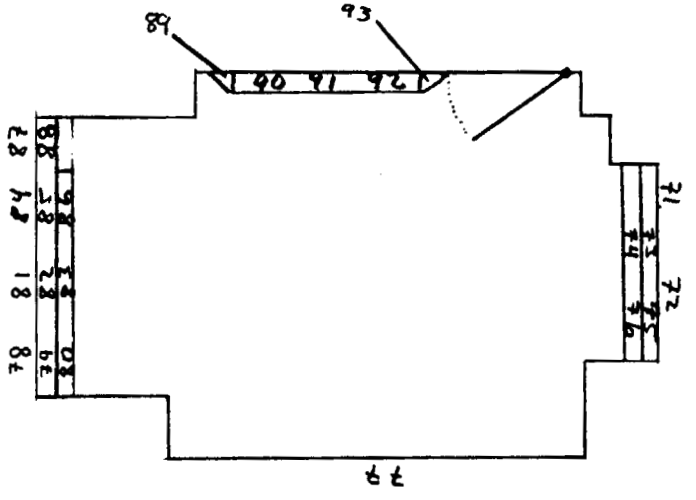
Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 842

	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
87	125	7/1/04	SH				12	7/1/04	NSH
88	110						13		
89	135						14		
90	112						15		
91	127						16		
92	125						17		
93	117						18		
94	127						19		
95	140						20		
96	114						21		
97	125						22		
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845



845

Surfaces

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 845

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[V] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	344	6/29/04	NSH	0.01	6/29/04	HSH	13	06/29/04	NB
2	422			0.01			14		
3	395			0.01			15		
4	382			0.005			16		
5	320			0.005			17		
6	389			0.01			18		
meter:) - 7	N17	NCCESIBLE AC		not accessible.			19		
meter:) - 8	N04	NCCESIBLE AC					20		
9	315			0.01	6/29/04	HSH	21		
10	344			0.005			22		
11	324			0.01			23		
12	431			0.01			24		
13	342			0.01			25		
14	365			0.01			26		
15	389			0.005			27		
16	405			0.01			28		
17	448			0.01			29		
18	379			0.01			30		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 845

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	367	6/29/04	NSH	0.01	6/29/04	[illegible]	31	06/29/04	KH
20	392	↓	↓	0.01	↓	↓	32	↓	↓
21	359			0.015			33		
22	378			0.0175			34		
23	422			0.01			35		
24	454			0.01			36		
25	401			0.01			37		
26	416			0.01			38		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 845

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
27	169	6.29.04	AC				39	06/29/04	AB
28	172						40		
29	164						41		
30	191						42		
31	138						43		
32	141						44		
33	143						45		
34	137						46		
35	149						47		
36	164						48		
37	127						49		
38	145						50		
39	138						51		
40	163						52		
41	153						53		
42	139						54		
43	156						55		
44	128						56		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 845

	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
45	152	6/29/04	SH				57	06/29/04	NB
46	165						58		
47	155						59		
48	179						60		
49	125						61		
50	130						62		
51	135						63		
52	115						64		
53	189						65		
54	132						66		
55	112						67		
56	99						68		
57	130						69		
58	142						70		
59	122						71		
60	135						72		
61	128						73		
62	138	☆		☆			74	↓	↓

WALLS

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 845

	[ ] Floor Monitor [ ] Meter 1 [~~x~~] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ]Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
63	120	6/29/04	SH				75	06/29/04	ND
64	145						76		
65	117						77		
66	122						78		
67	138						79		
68	122						80		
69	135						81		
70	145	↓	↓	↓	↓	↓	82	↓	↓

Surfaces

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 845

Grid Position	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 [ ] Floor [ ] Surface cpm	Date	Initials	Meter 4 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
71	125	6.29.04	AC				83	06/29/04	NB
72	129						84		
73	160						85		
74	117						86		
75	148						87		
76	131						88		
77	153						89		
78	110						90		
79	117						91		
80	123						92		
81	106						93		
82	110						94		
83	121						95		
84	112						96		
85	116						97		
86	108						98		
87	132						99		
88	101						100		

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 845

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
89	126	6.29.04	AC				1	06/29/04	NB
90	133	↓	↓				2	↓	↓
91	128						3		
92	131						4		
93	156	↓	↓	↓	↓	↓	5	↓	↓

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848

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 848

	[V] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[V] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	389	6/29/04	HSM	0.01	6/29/04	YLL	6	6/29/04	AC
2	365			0.01			7		
3	395			0.01			8		
4	406			0.01			9		
5	371			0.01			10		
6	367			0.01			11		
7	378			0.01			12		
8	410			0.01			13		
9	401			0.01			14		
10	401			0.01			15		
11	345			0.015			16		
12	383			0.005			17		
13	328			0.005			18		
14	363			0.01			19		
15	381			0.005			20		
16	411			0.003			21		
17	385			0.001			22		
18	357			0.00			23		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 848

	[M] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[M] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	385	6/29/04	MSM	0.01	6/29/04	MSL	24	6/29/04	AC
20	412	↓	↓	0.01	↓	↓	25	↓	↓
21	419			0.01			26		
22	366			0.01			27		
23	363	↓	↓	0.01	↓	↓	28	↓	↓

Survey Worksheet

walls

Building: ☑ Lakeside Hospital ☐ MSB Room 848

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [Y] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
24	124	6/29/04	AC				29	6/29/04	AC
25	161						30		
26	128						31		
27	146						32		
28	135						33		
29	158						34		
30	126						35		
31	143						36		
32	125						37		
33	117						38		
34	135						39		
35	129						40		
36	127						41		
37	143						42		
38	124						43		
39	119						44		
40	126						45		
41	130						46		

Walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 848

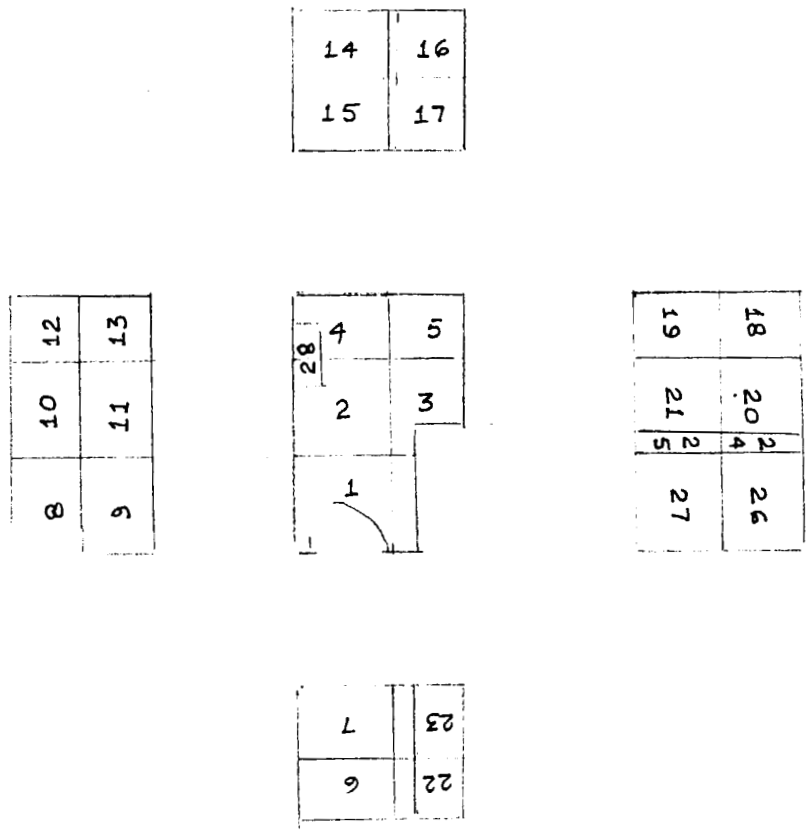
	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
42	119	6/29/04	SH				47	6/29/04	AC
43	123						48		
44	142						49		
45	160						50		
46	150						51		
47	145						52		
48	150						53		
49	120						54		
50	120						55		
51	130						56		
52	113						57		
53	105						58		
54	109						59		
55	130						60		
56	115						61		
57	120						62		
58	120						63		
59	125						64		

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 848

Grid Position	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2 [ ] Floor [✓] Surface cpm	Date	Initials	Meter 4 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
60	132	6/29/04	SH		~~6/29/04~~	"	65	6/29/04	AC
61	145	↓	↓				66	↓	↓
62	148						67		
63	160						68		
64	160	↓	↓				69	↓	↓



ROOM 850

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 850

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	1270	6/14/04	NSM	0.015	6/14/04	NSM	69	6/14/04	NSM
2	1240	↓	↓	0.02	↓	↓	70	↓	↓
3	1370	↓	↓	0.03	↓	↓	71	↓	↓
4	1280	↓	↓	0.02	↓	↓	72	↓	↓
5	1160	↓	↓	0.025	↓	↓	73	↓	↓

Survey Worksheet

Walls Building: ☑ Lakeside Hospital ☐ MSB Room 850

	[ ] Floor Monitor [ ] Meter 2 Det. 1			[✓] Meter 1 [ ] Meter 2 Det. 2			Meter 4		
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
6	143	6/4/04	NSH				74	6/4/04	NSH
7	124						75		
8	361						76		
9	346						77		
10	404						78		
11	385						79		
12	321						80		
13	434						81		
14	402						82		
15	433						83		
16	363						84		
17	312						85		
18	378						86		
19	359						87		
20	454						88		
21	376						89		
22	392						90		
23	347						91		

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 860

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
24	357	6/4/04	NSM				92	6/4/04	NSM
25	382	↓	↓				93	↓	↓
26	375						94		
27	411						95		
28 (sunflee)	385	↓	↓				96	↓	↓
Sink pipe	–	–	–				Swab	↓	↓

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	21-Jul-04
Survey Unit #:	LS-19
Building:	Lakeside Hospital
Floor:	8
FSS Floor Classification:	2
SU DCGLw (dpm/100cm²):	6.94E+03
SU Description:	Rooms 803, 809, 811, and 813.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm²)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

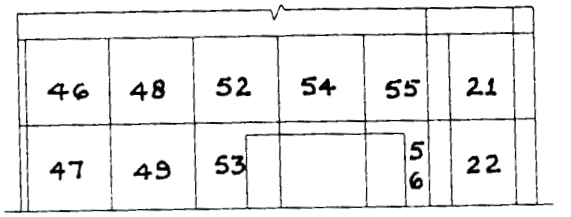
1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm²)	Sign Test Parameter[6]
LS-19.01	S	1	CT	SST	130	122	8	1.99E+02	-1
LS-19.02	S	1	F	VT	133	122.4	10.6	2.64E+02	-1
LS-19.03	S	1	F	VT	109	122.4	-13.4	-3.33E+02	-1
LS-19.04	S	1	F	VT	150	122.4	27.6	6.87E+02	-1
LS-19.05	S	1	F	VT	130	122.4	7.6	1.89E+02	-1
LS-19.06	S	1	CT	SST	101	122	-21	-5.22E+02	-1
LS-19.07	S	1	F	VT	103	122.4	-19.4	-4.83E+02	-1
LS-19.08	S	1	F	VT	136	122.4	13.6	3.38E+02	-1
LS-19.09	S	1	CT	SST	85	122	-37	-9.20E+02	-1
LS-19.10	S	1	F	VT	120	122.4	-2.4	-5.97E+01	-1
LS-19.11	S	1	F	VT	119	122.4	-3.4	-8.46E+01	-1
LS-19.12	S	1	F	VT	126	122.4	3.6	8.96E+01	-1
LS-19.13	S	1	F	VT	108	122.4	-14.4	-3.58E+02	-1
LS-19.14	S	1	F	VT	133	122.4	10.6	2.64E+02	-1
LS-19.15	S	1	S	SST	158	122	36	8.96E+02	-1
LS-19.16	S	1	F	VT	125	122.4	2.6	6.47E+01	-1
LS-19.17	S	1	W	PL	123	124.4	-1.4	-3.48E+01	-1
LS-19.18	S	1	S	SST	129	122	7	1.74E+02	-1
LS-19.19	S	1	W	PL	122	124.4	-2.4	-5.97E+01	-1
LS-19.20	S	1	F	VT	128	122.4	5.6	1.39E+02	-1
LS-19.21	B	1	F	VT	155	122.4	32.6	8.11E+02	N/A
LS-19.22	B	1	F	VT	134	122.4	11.6	2.89E+02	N/A
LS-19.23	B	1	CT	SST	122	122	0	0.00E+00	N/A
LS-19.24	B	1	CT	SST	162	122	40	9.95E+02	N/A

Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Lower Walls	1, 2A	(See Survey Worksheet Packages Attached)	

	Mean	-8.29E-01
	Median	1.49E+01
	Range	1.82E+03
	Std Dev (1 σ)	4.31E+02
MARSSIM Sign Test Required?		NO
MARSSIM SIGN TEST EVALUATION		
Sum of Positive Signs		0
Sign Test Critical Value (n=20)		14
Null Hypothesis Evaluation		N/A

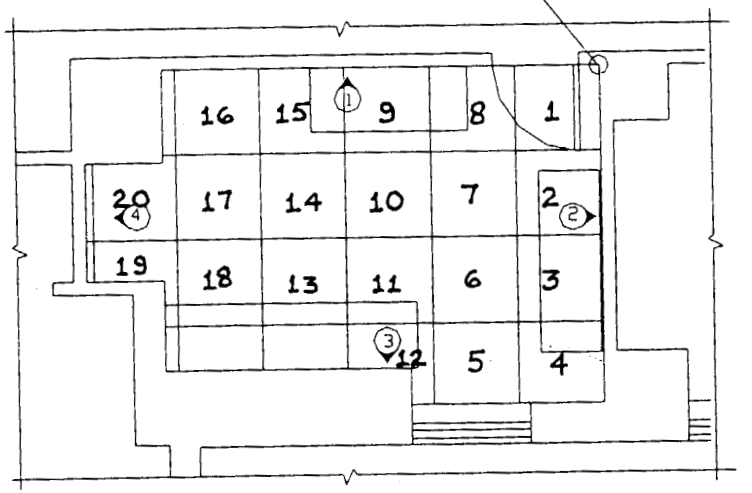
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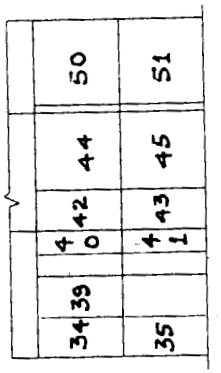
1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = lower wall (< 2m) S = sink CT = countertop
4 Surface Materials: VT = Vinyl Tile SST = Synthetic Stone Countertop PL = Plaster
5 Average of (5) 1-minute background readings collected *in unimpacted areas for* each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.



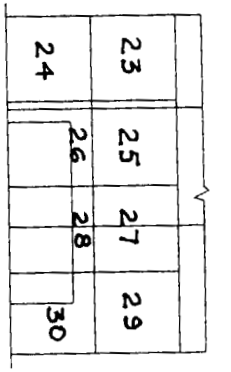
(1) ELEVATION

START GRID HERE



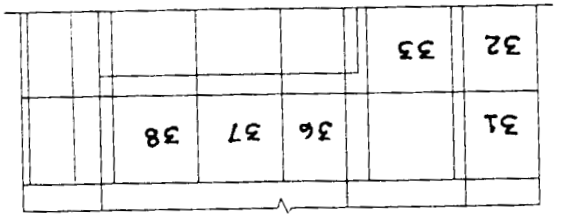


(4) ELEVATION

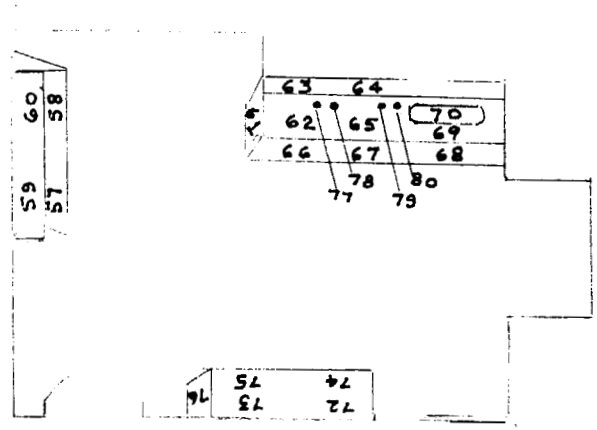


(2) ELEVATION

ROOM 803



(3) ELEVATION



ROOM 803

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 803

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	426	6/10/04	NSM	0.015	6/10/04	NSM	37	6/10/04	NSM
2	387			0.015			38		
3	401			0.015			39		
4	484			0.015			40		
5	456			0.015			41		
6	447			0.015			42		
7	443			0.015			43		
8	471			0.015			44		
9	386			0.015			45		
10	413			0.015			46		
11	454			0.015			47		
12	389			0.015			48		
13	399			0.015			49		
14	495			0.015			50		
15	5700			0.02			51		
16	484			0.02			52		
17	428			0.015			53		
18	436			0.02			54		
19	527			0.02			55		
20	442			0.02			56		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 803

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
21	153	6.10.04	AC				57	6/10/04	NSH
22	132						58		
23	168						59		
24	174						60		
25	140						61		
26	124						62		
27	119						63		
28	128						64		
29	142						65		
30	178						66		
31	153						67		
32	195						68		
33	132						69		
34	156						70		
35	143						71		
36	142						72		
37	135						73		
38	129						74		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 803

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
39	171	6.10.04	AC				75	6/10/04	NSM
40	163						76		
41	146						77		
42	176						78		
43	162						79		
44	186						80		
45	214						81		
46	158						82		
47	176						83		
48	172						84		
49	155						85		
50	156						86		
51	140						87		
52	165						88		
53	131						89		
54	152						90		
55	135						91		
56	129						92		

Other

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 803

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
57	153	6.10.04	AC				93	6/10/04	NSM
58	157						94		
59	114						95		
60	156						96		
61	113						97		
62	132						98		
63	156						99		
64	152						100		
65	144						1		
66	163						2		
67	149						3		
68	152						4		
69	158						5		
70	120						6		
71	132						7		
72	165						8		
73	157						9		
74	130						10		

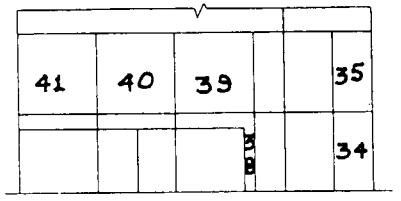
other

Survey Worksheet

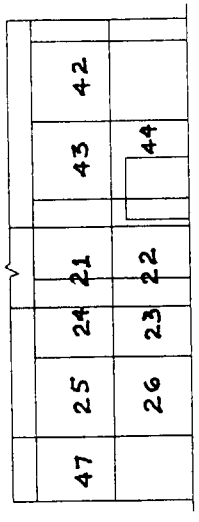
Building: ☒ Lakeside Hospital ☐ MSB Room 803

		[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
75	126	6.10.04	AC				11	6/10/04	NSM
76	115	↓	↓				12	↓	↓
77							swab		
78							↓		
79									
80									

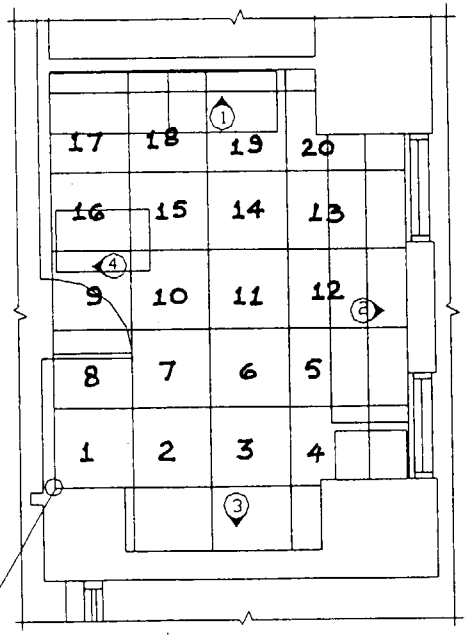
IACS



① ELEVATION

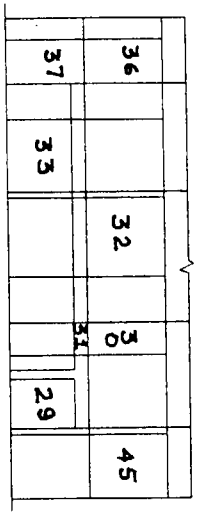


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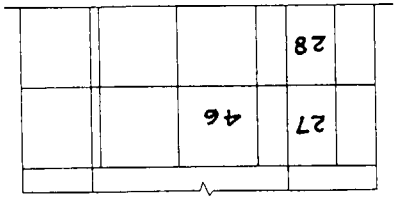


ROOM 809

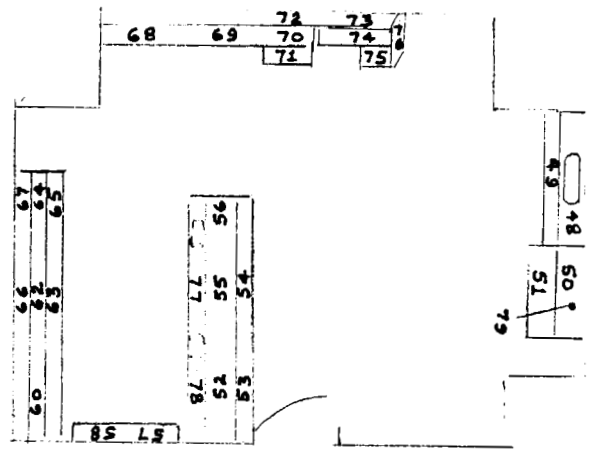
START GRID HERE



② ELEVATION



③ ELEVATION


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ROOM 809

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 809

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	416	7/21/04	[illegible]	0.01	7/21/04	[illegible]	98	7/21/04	[illegible]
2	430			0.01			99		
3	446			0.01			100		
4	461			0.02			1		
5	433			0.0150			2		
6	445			0.005			3		
7	450			0.01			4		
8	417			0.0250			5		
9	465			0.0175			6		
10	350			0.01			7		
11	430			0.005			8		
12	415			0.01			9		
13	340			0.01			10		
14	336			0.01			11		
15	374			0.01			12		
16	286			0.0150			13		
17	386			0.01			14		
18	392	↓	↓	0.02	↓	↓	15	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 809

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	314	7/21/04	[illegible]	0.02	7/21/04	[illegible]	16	7/21/04	[illegible]
20	365	↓	[illegible]	0.01		↓	17	↓	↓

Walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 809

	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
21	111	7.21.04	AC				18	7/21/04	
22	119						19		
23	134						20		
24	105						21		
25	123						22		
26	132						23		
27	128						24		
28	143						25		
29	132						26		
30	135						27		
31	146						28		
32	127						29		
33	178						30		
34	122						31		
35	134						32		
36	114						33		
37	132						34		
38	108						35		

Walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 809

Grid Position	[ ] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 [ ] Floor [ ] Surface cpm	Date	Initials	Meter 4 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
39	114	7.21.04	AC				36	7/21/04	
40	122	↓	↓				37	↓	↓
41	108						38		
42	123						39		
43	129						40		
44	160						41		
45	123	↓	↓				42	↓	↓

Survey Worksheet

Other SURFACE

Building: ☑ Lakeside Hospital ☐ MSB Room 809

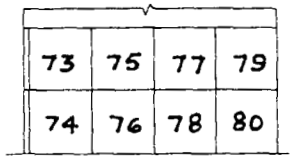
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
46	140	7/21/04	SH				43	7/21/04	[illegible]
47	132						44		
48	105						45		
49	115						46		
50	138						47		
51	115						48		
52	135						49		
53	110						50		
54	120						51		
55	125						52		
56	135						53		
57	120						54		
58	130						55		
59	105						56		
60	85	7/21/04	SH				57		
61	104						58		
62	105	7/21/04	SH				59		
63	112						60		

SURFACE=+VAC

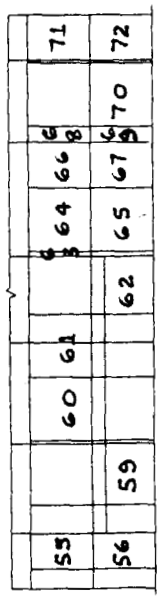
Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 809

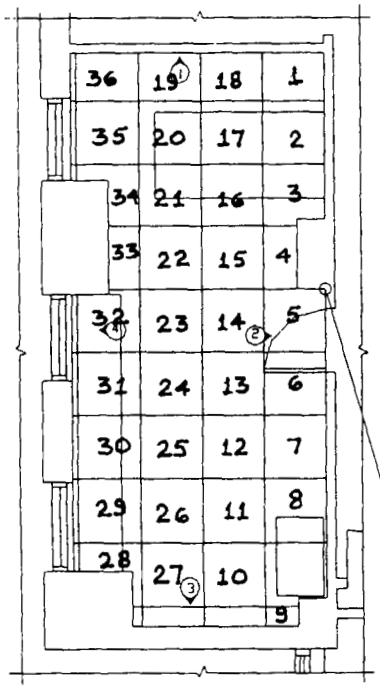
	[ ] Floor Monitor [ ] Meter 1 [✓] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
64	95	7/21/04	SH				61	7/21/04	SH
65	110						62		
66	98						63		
67	102		SH				64		
68	130						65		
69	128						66		
70	145						67		
71	107						68		
72	95						69		
73	140						70		
74	120						71		
75	117						72		
76	90						73		
77	110						74		
78	95						75		
VAC 79									



① ELEVATION

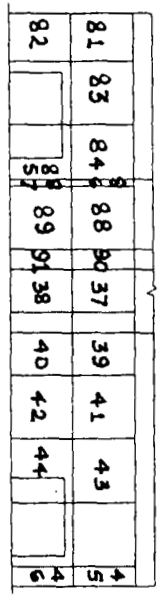


④ ELEVATION

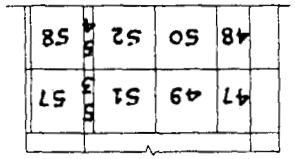


ROOM 811

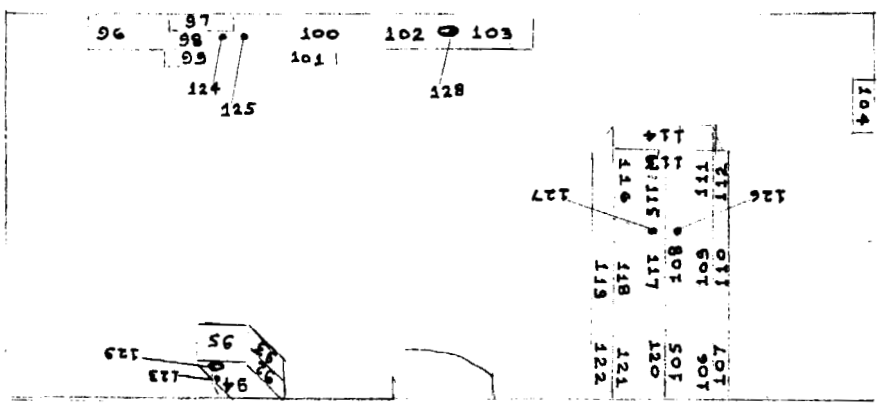
START GRID HERE



② ELEVATION



③ ELEVATION


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107
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123

ROOM 811

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 811

	☒ Floor Monitor ☒ Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	370	7/2/04	SH	0.0200	7/2/04	SH	2	7/2/04	SH
2	360	↓	↓	0.0150			3		
3	137	7.2.04	AC	0.0200			4		
4	370		SH	0.0200			5		
5	423			0.0200			6		
6	360			0.0125			7		
7	385			0.0100			8		
8	410			0.0050			9		
9	430			0.0200			10		
10	440			0.0150			11		
11	425			0.0125			12		
12	485			0.0150			13		
13	400			0.0150			14		
14	380			0.0150			15		
15	350			0.0050			16		
16	912			0.0125			96		
17	344			0.0175			17		
18	340	↓	↓	0.0125	↓	↓	18	↓	↓

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 811

	[M] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[M] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	365	7/2/04	SH	0.0125	7/2/04	SH	19	7/2/04	SH
20	330			0.0150			20		
21	340			0.0150			21		
22	395			0.0125			22		
23	340			0.0125			23		
24	410			0.0050			24		
25	415			0.0125			25		
26	470			0.0075			26		
27	470			0.0100			27		
28	485			0.0200			28		
29	415			*			29		
30	402			0.0125			30		
31	395			*			31		
32	385			*			32		
33	406			0.0125			33		
34	380			0.0075			34		
35	320			0.0250			35		
36	350	↓	↓	0.0200	↓	↓	36	↓	↓

* NOT ACCESSIBLE

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 811

	[ ] Floor Monitor ⋈ Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor ⋈ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	113	7.2.04	AC				37	7.2.04	SJ
38	121						38		
39	157						39		
40	138						40		
41	166						41		
42	151						42		
43	138						43		
44	142						44		
45	134						45		
46	168						46		
47	150	7.2.04	AC				47		
48	146						48		
49	137						49		
50	141						50		
51	145						51		
52	166						52		
53	173						53		
54	157						54		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 811

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
55	152	7.2.04	AC				55	7.2.04	SY
56	163						56		
57	154						57		
58	171						58		
59	149						59		
60	157						60		
61	165						61		
62	148						62		
63	129						63		
64	136						64		
65	143						65		
66	152						66		
67	136						67		
68	139						68		
69	140						69		
70	170						70		
71	139						71		
72	155						72		

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 811

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
73	122	7.2.04	AC				73	7.2.04	AC
74	139						74		
75	118						75		
76	121						76		
77	116						77		
78	123						78		
79	136						79		
80	129						80		
81	158						81		
82	161						82		
83	163						83		
84	141						84		
85	148						85		
86	132						86		
87	117						87		
88	123						88		
89	129						89		
90	131						90		
91	143						91		

Surfaces

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 811

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
92	131	7.2.04	AC				92	7.2.04	AC
93	139						93		
94	128						94		
95	113						95		
96	137						96		
97	142						97		
98	158						98		
99	144						99		
100	137						100		
101	143						28		
102	142						29		
103	126						30		
104	128						31		
105	124						32		
106	118						33		
107	153						34		
108	130						35		
109	127						36		

Surfaces

Survey Worksheet

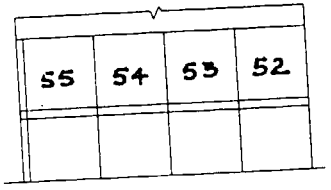
Building: ☒ Lakeside Hospital ☐ MSB Room 811

[ ] Floor Monitor [X] Meter 1
[ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2

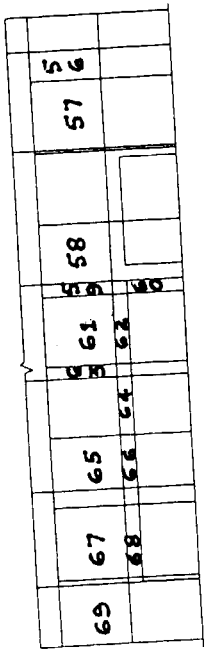
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	Meter 4: 1 meter Exp. Rate mR/h	Meter 4: Date	Meter 4: Initials	Wipe No.	Date	Initials
110	134	7.2.04	AC				37	7.2.04	AC
111	113						38		
112	108						39		
113	96						40		
114	120						41		
115	127						42		
116	133						43		
117	126						44		
118	138						45		
119	124						46		
120	136						47		
121	128						48		
122	117						49		
123	X						Swab		
124									
125									
126									
127									
128	X								
129	X								

VAC

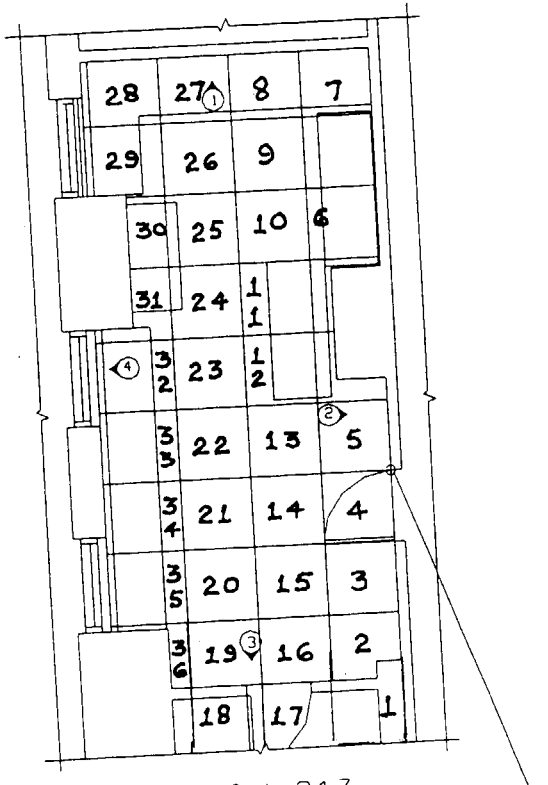
c. Sink



① ELEVATION

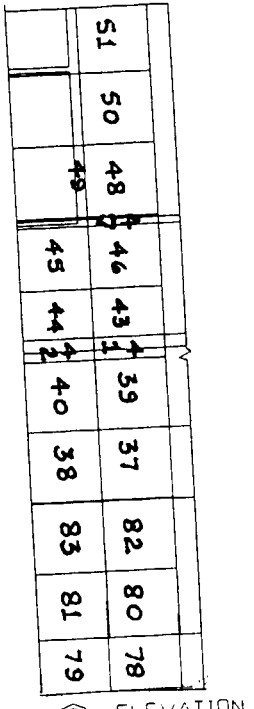


④ ELEVATION

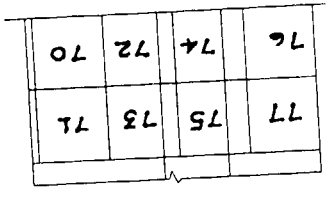


ROOM 813

START GRID HERE



② ELEVATION



③ ELEVATION

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 813

	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	405	6.16.04	AC	0.015	6/16/04	NSM	35	6/16/04	NSM
2	396	↓	↓	0.015	↓	↓	36	↓	↓
3	414	↓	↓	0,02	↓	↓	37	↓	↓
4	436	↓	↓	0.02	↓	↓	38	↓	↓
5	374	↓	↓	0,025	↓	↓	39	↓	↓
6	145	↓	↓	0.015	↓	↓	40	↓	↓
7	162	↓	↓	0,015	↓	↓	41	↓	↓
8	392	↓	↓	0,02	↓	↓	42	↓	↓
9	388	↓	↓	0.02	↓	↓	43	↓	↓
10	409	↓	↓	0.02	↓	↓	44	↓	↓
11	125	6/22/04	AC	0.02	6/22/04	NSM	66	6/22/04	NSM
12	174	↓	↓	0.02	↓	↓	67	↓	↓
13	377	6/16/04	AC	0.02	6/16/04	NSM	45	6/16/04	NSM
14	346	↓	↓	0.015	↓	↓	46	↓	↓
15	121	↓	↓	0.02	↓	↓	47	↓	↓
16	394	↓	↓	0.02	↓	↓	48	↓	↓
17	402	↓	↓	0.015	↓	↓	49	↓	↓
18	119	↓	↓	0.015	↓	↓	50	↓	↓

meter:1 [

Meter1 [redacted]

meter:1 –

meter:1 –

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 813

	Grid Position	[✓] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2 [✓] Floor [ ] Surface cpm	Date	Initials	Meter 4 1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
meter:1	19	167	6.16.04	AC	0.02	6/14/04	NSM	51	6/16/04	NSM
	20	131	↓	↓	0.02	↓	↓	52	↓	↓
	21	144	↓	↓	0.02	↓	↓	53	↓	↓
	22	396	6.16.04	AC	0.02	↓	↓	54	↓	↓
	23	412	↓	↓	0.02	↓	↓	55	↓	↓
	24	367	↓	↓	0.02	↓	↓	56	↓	↓
	25	382	↓	↓	0.015	↓	↓	57	↓	↓
	26	349	↓	↓	0.015	↓	↓	58	↓	↓
	27	338	↓	↓	0.015	↓	↓	59	↓	↓
meter:1	28	142	6.16.04	AC	0.015	↓	↓	60	↓	↓
	29	365	6.16.04	AC	0.015	↓	↓	61	↓	↓
	30	388	↓	↓	0.015	↓	↓	62	↓	↓
	31	140	6.16.04	AC	0.015	↓	↓	63	↓	↓
	32	134	↓	↓	0.02	↓	↓	64	↓	↓
uter: 1	33	123	↓	↓	0.015	↓	↓	65	↓	↓
	34	149	↓	↓	0.015	↓	↓	66	↓	↓
	35	158	↓	↓	0.015	↓	↓	67	↓	↓
	36	144	↓	↓	0.015	↓	↓	68	↓	↓

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 813

	[ ] Floor Monitor [M] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [M] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	131	6.16.04	AC				69	6/16/04	NSH
38	118						70		
39	123						71		
40	153						72		
41	158						73		
42	164						74		
43	154	6/22/04	AC				68	6/22/04	NSH
44	178						69		
45	172						70		
46	165						71		
47	179	6.16.04	AC				75	6/16/04	NSH
48	148						76		
49	122						77		
50	133						78		
51	147						79		
52	129						80		
53	131						81		
54	125						82		

walls

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 813

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
55	147	6.16.04	* AC				83	6/16/04	NSH
56	156						84		
57	184						85		
58	147						86		
59	122						87		
60	106						88		
61	131						89		
62	155						90		
63	152						91		
64	122						92		
65	142						93		
66	132						94		
67	157						95		
68	151						96		
69	135						97		
70	159						98		
71	140						99		
72	121						100		

Survey Worksheet

walls

Building: ☑ Lakeside Hospital ☐ MSB Room 8/3

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
73	119	6.16.04	AC				1	6/16/04	NSy
74	126	↓	↓				2	↓	↓
75	144						3		
76	128						4		
77	136						5		
78	134						6		
79	151						7		
80	148						8		
81	161						9		
82	136						10		
83	127	↓	↓				11	↓	↓

Survey Worksheet

surface

Building: [X] Lakeside Hospital [ ] MSB Room 813

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
84	160	6.16.04	AC				12	6/16/04	NSM
85	172						13		
86	154						14		
87	139						15		
88	113						16		
89	140						17		
90	155						18		
91	132						19		
92	128						20		
93	163						21		
94	158						22		
95	139						23		
96	131						24		
97	146						25		
98	132						26		
99	127						27		
100	129						28		
101	148						29		

Survey Worksheet

Surface

Building: ☑ Lakeside Hospital ☐ MSB Room 813

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
102	113	6.16.04	AC				30	6/16/04	NSH
103	127						31		
104	119						32		
105	124						33		
106	164						34		
107	159						35		
108	124						36		
109	132						37		
110	119						38		
111	120						39		
112	126						40		
113	132						41		
114	131						42		
115	118						43		
116	142						44		
117	118						45		
118	95						46		
119	112						47		

Surface

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 813

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[✓] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
120	104	6.16.04	AC				48	6/16/04	NSM
121	147						49		
122	138						50		
123	142						51		
124	114						52		
125	501						53		
126	129						54		
127	159						55		
128	117						56		
129	142						57		
130	118						58		
131	91						59		
132	142						60		
133	116						61		
134	124						62		
135	133						63		
136	141						64		
137	135	↓	↓				65	↓	↓

Surface

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 813

	[ ] Floor Monitor [✓] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [✓] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
138	129	6.16.04	AC				66	6/16/04	NSH
139	142						67		
140	119						68		
141	96						69		
142	124						70		
143	119						71		
144	99						72		
145	110						73		
146	126						74		
147	114						75		
148	8040	6.16.04	AC				76		
149	94	6.16.04	AC				77		
150	102						78		
151	106						79		
152	119						80		
153	101						81		
154	98						82		
155	93						83		

Surface

Survey Worksheet

Building: ☑ Lakeside Hospital ☐ MSB Room 813

		[ ] Floor Monitor [4] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [4] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
156	97	6-16-04	AC				84	6/16/04	HSy
157	86	↓	↓				85	↓	↓
158	94						86		
159	127						87		
160	115						88		
161	136						89		
162	145						90		
163	128	↓	↓				91		
164	–	–	–				Swabs		
165	–	–	–				↓		
166	–	–	–						
167	–	–	–				↓	↓	↓

VAC

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	19-Aug-04
Survey Unit #:	LS-20
Building:	Lakeside Hospital
Floor:	1SB
FSS Floor Classification:	1
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 1SB-10B

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-94	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-94	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-9	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

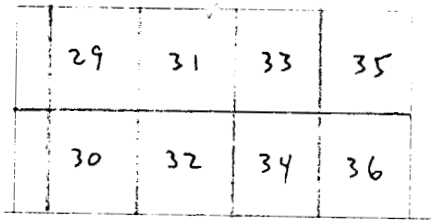
1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-20.01	S	1	W	CT	311	287.8	23.2	5.77E+02	-1
LS-20.02	S	1	W	CT	309	287.8	21.2	5.27E+02	-1
LS-20.03	S	1	W	CT	299	287.8	11.2	2.79E+02	-1
LS-20.04	S	1	W	CT	259	287.8	-28.8	-7.16E+02	-1
LS-20.05	S	1	F	C	130	137.2	-7.2	-1.79E+02	-1
LS-20.06	S	1	F	C	145	137.2	7.8	1.94E+02	-1
LS-20.07	S	1	W	O	103	96.6	6.4	1.59E+02	-1
LS-20.08	S	1	W	CT	259	287.8	-28.8	-7.16E+02	-1
LS-20.09	S	1	F	C	124	137.2	-13.2	-3.28E+02	-1
LS-20.10	S	1	F	C	133	137.2	-4.2	-1.04E+02	-1
LS-20.11	S	1	F	C	184	137.2	46.8	1.16E+03	-1
LS-20.12	S	1	W	CT	164	287.8	-123.8	-3.08E+03	-1
LS-20.13	S	1	W	CT	219	287.8	-68.8	-1.71E+03	-1
LS-20.14	S	1	W	CT	236	287.8	-51.8	-1.29E+03	-1
LS-20.15	S	1	W	CT	235	287.8	-52.8	-1.31E+03	-1
LS-20.16	S	1	C	C	111	137.2	-26.2	-6.52E+02	-1
LS-20.17	S	1	C	C	124	137.2	-13.2	-3.28E+02	-1
LS-20.18	S	1	C	C	107	137.2	-30.2	-7.51E+02	-1
LS-20.19	S	1	C	C	131	137.2	-6.2	-1.54E+02	-1
LS-20.20	S	1	C	C	115	137.2	-22.2	-5.52E+02	-1
							Mean	-5.60E+02	
							Median	-4.40E+02	
							Range	4.24E+03	
							Std Dev (1 σ)	9.16E+02	
							MARSSIM Sign Test Required?		NO

Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F	(See Survey Worksheet Packages Attached)	
Lower Walls	1	(See Survey Worksheet Packages Attached)	

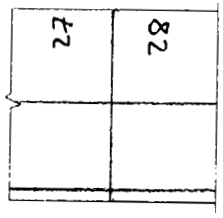
MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	0
Sign Test Critical Value (n=20)	14
Null Hypothesis Evaluation	N/A

NOTES:

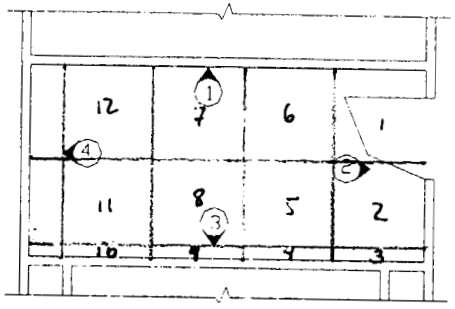
1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = walls C = Ceiling
4 Surface Materials: C = Concrete CT = Clay Tile O = Other
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.

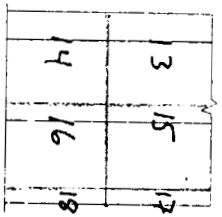


1 ELEVATION



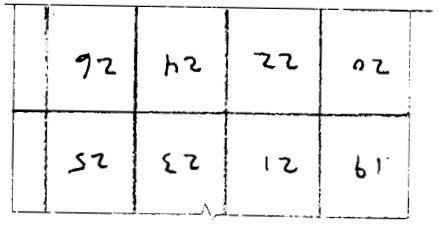
4 ELEVATION



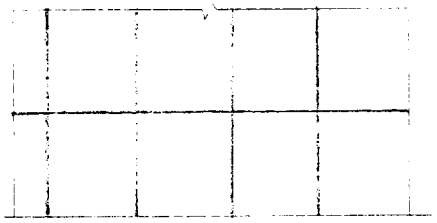


2 ELEVATION

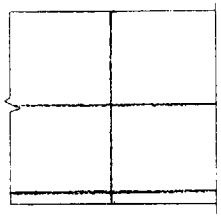
ROOM 1SB10B



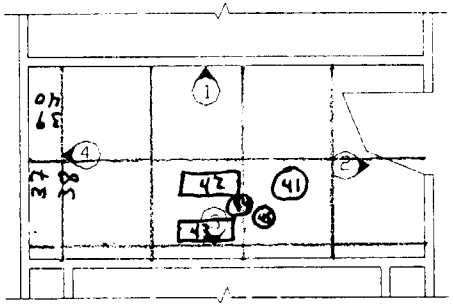
3 ELEVATION

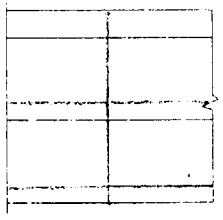


1 ELEVATION



4 ELEVATION

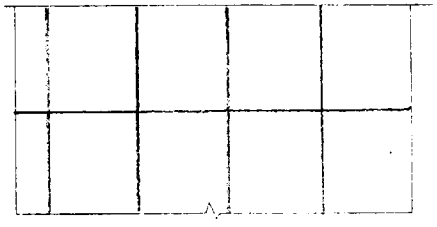




2 ELEVATION

ROOM 1SB10B

Surfaces



3 ELEVATION

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB 10B

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	587	8.24.04	AC	.015	8.19.04	AC	1	8.17.04	AC
2	573	↓	↓	.020	↓	↓	2	↓	↓
3	606	↓	↓	.020	↓	↓	3	↓	↓
4	~~143~~ 143	8.24.04	AC	.020	↓	↓	4	↓	↓
5	~~160~~ 160	8.24.04	AC	.020	↓	↓	5	↓	↓
6	568	8.24.04	AC	.010	↓	↓	6	↓	↓
7	537	8.24.04	AC	.015	↓	↓	7	↓	↓
8	154	8.24.04	AC	.010	↓	↓	8	↓	↓
9	130	8.24.04	AC	.015	↓	↓	9	↓	↓
10	561	8.24.04	AC	.010	↓	↓	10	↓	↓
11	513	8.24.04	AC	.015	↓	↓	11	↓	↓
12	536	8.24.04	AC	.015	↓	↓	12	↓	↓

meter: 1

walls

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 1SB10B

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
13	136	8.17.04	AC				13	8.17.04	AC
14	118						14		
15	281						15		
16	268						16		
17	251						17		
18	263						18		
19	227						19		
20	238						20		
21	255						21		
22	226						22		
23	235						23		
24	227						24		
25	248						25		
26	233						26		
27	242						27		
28	229						28		
29	316						29		
30	321						30		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB10B

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
31	268	8.17.04	AC				31	8.17.04	AC
32	283	↓	↓				32	↓	↓
33	284						33		
34	289						34		
35	271						35		
36	300						36		

Surfaces

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 1SB10B

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
37	133	8.17.04	AC				37	8.17.04	AC
38	157	↓	↓	↓	↓	↓	38	↓	↓
39	153						39		
40	141						40		
41	136						41		
42	129						42		
43	156						43		
44	126						44	↓	↓
45	115	↓	↓	↓	↓	↓	45		

Survey Unit Data Summary Sheet
VA Chicago - Lakeside Hospital Final Status Survey

Survey Date:	19-Aug-04
Survey Unit #:	LS-21
Building:	Lakeside Hospital
Floor:	1SB
FSS Floor Classification:	1
SU DCGLw (dpm/100cm^2):	6.94E+03
SU Description:	Room 1SB-16 - Location of former animal incinerator.

Instrument	Ratemeter/Probe Models	Ratemeter S/N	Probe S/N	Total Efficiency[1]	Probe Active Area (cm^2)
1	Ludlum 2241 / 44-9	203640	PR198969	6.7%	60
2a	Ludlum 2241-3 / 44-9	200101	PR198966	6.2%	60
2b	Ludlum 2241-3 / 44-	200101	PR209866	5.2%	15
F	Ludlum 239-1F	203519	PR190331	5.9%	528

1	2	3	4	5	6	7	8	9	10
Sample ID	Sample Type[2]	Instrument Number	Sample Location[3]	Surface Material[4]	Fixed-Point Result (gross cpm)	Material Specific Background[5] (cpm)	Net Fixed-Point Result (net cpm)	Residual Surface Activity (dpm/100cm^2)	Sign Test Parameter[6]
LS-21.01	S	1	W	C	118	137.2	-19.2	-4.78E+02	-1
LS-21.02	S	1	F	C	142	137.2	4.8	1.19E+02	-1
LS-21.03	S	1	F	C	144	137.2	6.8	1.69E+02	-1
LS-21.04	S	1	W	CT	234	287.8	-53.8	-1.34E+03	-1
LS-21.05	S	1	W	CT	270	287.8	-17.8	-4.43E+02	-1
LS-21.06	S	1	F	C	174	137.2	36.8	9.15E+02	-1
LS-21.07	S	1	F	C	142	137.2	4.8	1.19E+02	-1
LS-21.08	S	1	F	C	167	137.2	29.8	7.41E+02	-1
LS-21.09	S	1	W	CT	234	287.8	-53.8	-1.34E+03	-1
LS-21.10	S	1	W	CT	315	287.8	27.2	6.77E+02	-1
LS-21.11	S	1	F	C	148	137.2	10.8	2.69E+02	-1
LS-21.12	S	1	F	C	160	137.2	22.8	5.67E+02	-1
LS-21.13	S	1	W	CT	295	287.8	7.2	1.79E+02	-1
LS-21.14	S	1	W	CT	335	287.8	47.2	1.17E+03	-1
LS-21.15	S	1	W	CT	226	287.8	-61.8	-1.54E+03	-1
LS-21.16	S	1	C	C	132	137.2	-5.2	-1.29E+02	-1
LS-21.17	S	1	C	C	118	137.2	-19.2	-4.78E+02	-1
LS-21.18	S	1	C	C	126	137.2	-11.2	-2.79E+02	-1
LS-21.19	S	1	C	C	131	137.2	-6.2	-1.54E+02	-1
LS-21.20	S	1	C	C	140	137.2	2.8	6.97E+01	-1
LS-21.21	S	1	C	C	136	137.2	-1.2	-2.99E+01	-1

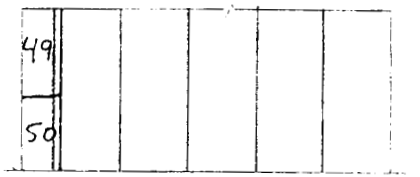
Scan Survey Results			
Area	Instr. #	Gross CPM	Notes
Floors	F		(See Survey Worksheet Packages Attached)
Lower Walls	1		(See Survey Worksheet Packages Attached)

Mean	**-5.87E+01**
Median	**9.45E+01**
Range	**2.71E+03**
Std Dev (1 σ)	**7.38E+02**
MARSSIM Sign Test Required?	**NO**

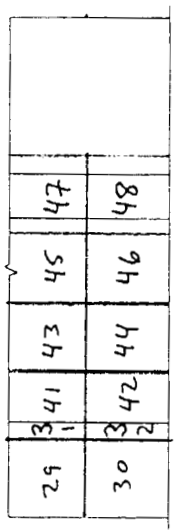
MARSSIM SIGN TEST EVALUATION	
Sum of Positive Signs	**0**
Sign Test Critical Value (n=20)	**14**
Null Hypothesis Evaluation	**N/A**

NOTES:

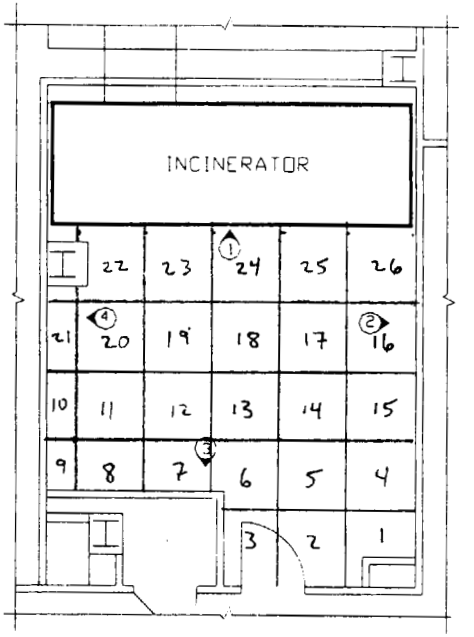
1 Instrument Efficiency = Instrument static 4-pi efficiency for C-14.
2 Sample Type: S = Systematic Location B = Biased Location
3 F = floor W = wall C = ceiling
4 Surface Materials: C = Concrete CT = Clay Tile
5 Average of (5) 1-minute background readings collected in unimpacted areas for each building surface encountered during FSS.
6 MARSSIM Sign Test parameter. If Result > DCGLw, Sign =+1, Otherwise -1.



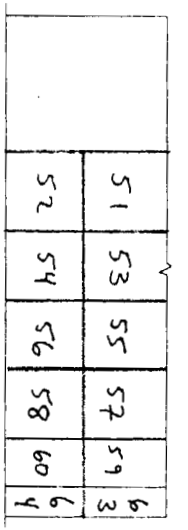
① ELEVATION



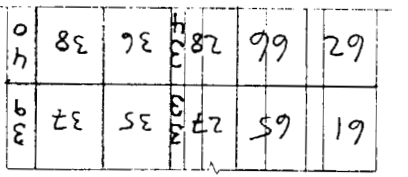
④ ELEVATION



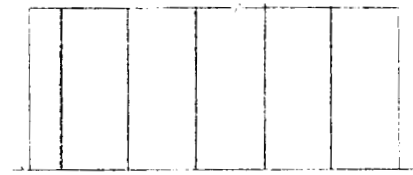
ROOM 1SB16



② ELEVATION

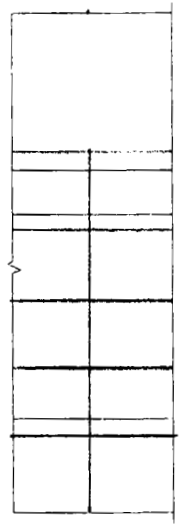


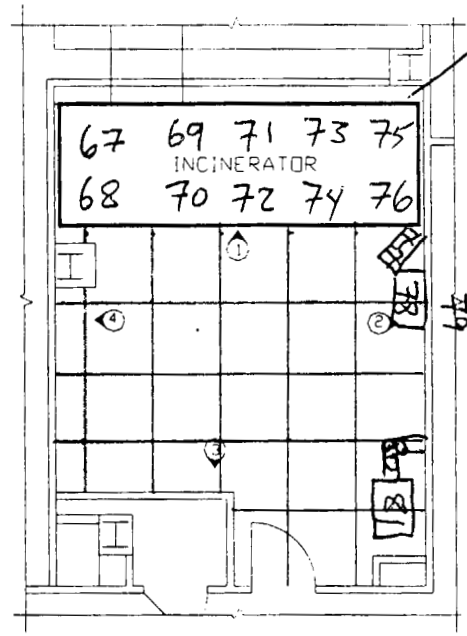
③ ELEVATION

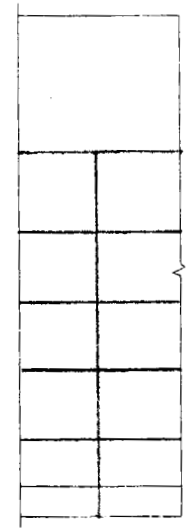


① ELEVATION

Face of incinerator.





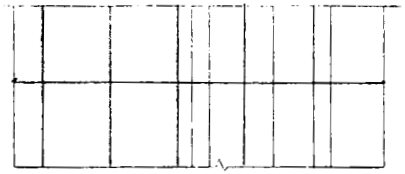


④ ELEVATION

② ELEVATION

ROOM 1SB16

Surfaces



③ ELEVATION

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1 SB 16

	☒ Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	☒ Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
1	556	8.24.04	AC	.015	8.19.04	AC	1	8.18.04	AC
2	593			.010			2		
3	579			.020			3		
4	563			.020			4		
5	574			.015			5		
6	521			.010			6		
7	558			.015			7		
8	528			.010			8		
9	623			.020			9		
10	591			.010			10		
11	552			.015			11		
12	530			.020			12		
13	574			.020			13		
14	611			.010			14		
15	531			.010			15		
16	558			.015			16		
17	572			.010			17		
18	589			.020			18		

Survey Worksheet

Building: [X] Lakeside Hospital [ ] MSB Room 1 SB 16

	[X] Floor Monitor [ ] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[X] Floor [ ] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
19	602	8.24.04	AC	.020	8.19.04	AC	19	8.18.04	AC
20	573	↓	↓	.020	↓	↓	20	↓	↓
21	627	↓	↓	.015	↓	↓	21	↓	↓
22	601	↓	↓	.010	↓	↓	22	↓	↓
23	546	↓	↓	.015	↓	↓	23	↓	↓
24	594	↓	↓	.015	↓	↓	24	↓	↓
25	582	↓	↓	.015	↓	↓	25	↓	↓
26	638	↓	↓	.010	↓	↓	26	↓	↓
~~XX~~									
~~XX~~									
~~XX~~									

walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB16

	[ ] Floor Monitor [ ] Meter 2 Det. 1	[X] Meter 1 [ ] Meter 2 Det. 2		Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
27	181	8.18.04	AC				27	8.18.04	AC
28	190						28		
29	130						29		
30	119						30		
31	128						31		
32	144						32		
33	122						33		
34	137						34		
35	101						35		
36	113						36		
37	157						37		
38	136						38		
39	179						39		
40	167						40		
41	247						41		
42	238						42		
43	226						43		
44	234						44		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB16

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
45	246	8.18.04	AC				45	8.18.04	AC
46	252						46		
47	169						47		
48	185						48		
49	172						49		
50	154						50		
51	264						51		
52	252						52		
53	278						53		
54	262						54		
55	239						55		
56	254						56		
57	239						57		
58	258						58		
59	217						57		
60	269						60		
61	225						61		
62	215						62		

Walls

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB16

	[ ] Floor Monitor ⋈ Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor ⋈ Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
63	289	8.18.04	AC				63	8.18.04	AC
64	306	↓	↓				64	↓	↓
65	299						65		
66	271						66		

surfaces

Survey Worksheet

Building: ☒ Lakeside Hospital ☐ MSB Room 1SB16

	[ ] Floor Monitor [X] Meter 1 [ ] Meter 2 Det. 1 [ ] Meter 2 Det. 2			Meter 4					
Grid Position	[ ] Floor [X] Surface cpm	Date	Initials	1 meter Exp. Rate mR/h	Date	Initials	Wipe No.	Date	Initials
62	218	8.18.04	AC				67	8.18.04	AC
68	185	↓	↓				68	↓	↓
69	170						69		
70	159						70		
71	178						71		
72	189						72		
73	172						73		
74	218						74		
75	235						75		
76	198						76		
77	152						77		
78	136						78		
79	115						79		
80	164						80		
81	130	↓	↓				81	↓	↓

Windowless Proportional Counter Survey Results
VA Chicago - Lakeside Hospital Final Status Survey

Survey Instrument	Instrument / Probe S/N	Probe Active Area (cm^2)	Asserted 44-110 H-3 Efficiency[1]
Ludlum 2221 / 44-110	176947 / PR178079	126	10%

SU - Room	Sample Location	Surface Material[2]	Material-Specific Background (cpm)	Gross Static Count Rate (cpm)	Net Static Count Rate (cpm)	H-3 Residual Activity (dpm / $100cm^2$)	Notes
LS-1	T1 - Floor	C	413	237	-176	-1.40E+03	
LS-1	T2 - Floor	C	413	321	-92	-7.29E+02	
LS-1	T3 - Floor	C	413	257	-156	-1.24E+03	
LS-3 - 2SB03	T1 - Floor	VT	309	234	-75	-5.94E+02	
LS-3 - 2SB05	T1 - Floor	VT	309	281	-28	-2.21E+02	
LS-3 - 2SB05A	T1 - Sink	SS	339	287	-52	-4.11E+02	
LS-3 - 2SB05A	T2 - Floor	VT	309	289	-20	-1.57E+02	
LS-3 - 2SB05A	T3 - Floor	VT	309	294	-15	-1.17E+02	
LS-3 - 2SB07A	T1 - Sink	SS	339	397	58	4.62E+02	
LS-3 - 2SB07A	T2 - Floor	VT	309	325	16	1.29E+02	
LS-3 - 2SB07A	T3 - Floor	VT	309	274	-35	-2.76E+02	
LS-3 - 2SB08	T1 - Floor	VT	309	241	-68	-5.38E+02	
LS-3 - 2SB08	T2 - Floor	VT	309	288	-21	-1.65E+02	
LS-3 - 2SB08A	T1 - Floor	VT	309	289	-20	-1.57E+02	
LS-3 - 2SB08B	T1 - Floor	VT	309	286	-23	-1.81E+02	
LS-4 - 2SB09	T1 - Floor	VT	309	250	-59	-4.67E+02	
LS-4 - 2SB09	T1 - Floor	VT	309	300	-9	-6.98E+01	
LS-6 - 1SB10A	T1 - Floor	C	413	375	-38	-3.00E+02	
LS-6 - 1SB10A	T2 - Floor	C	413	439	26	2.08E+02	
LS-6 - 1SB10A	T3 - Floor	C	413	538	125	9.94E+02	
LS-6 - 1SB10A	T4 - Floor	C	413	434	21	1.68E+02	
LS-6 - 1SB10A	T5 - Floor	C	413	337	-76	-6.02E+02	
LS-6 - 1SB10A	T6 - Floor (Grid #13 Post Decon)	C	413	802	389	3.09E+03	These measurements were taken after decon and shipment of sample freezer in 1SB-10A. LSC results of water from freezer showed H-3 contamination. Thawed ice from freezer leaked onto floor during freezer disposition.
LS-6 - 1SB10A	T7 - Floor (Grid #17 Post Decon)	C	413	1649	1236	9.81E+03	
LS-6 - 1SB10A	T8 - Floor (Grid #35 Post Decon)	C	413	748	335	2.66E+03	
LS-6 - 1SB10A	T9 - Floor (Grid #36 Post Decon)	C	413	1094	681	5.41E+03	
LS-20 - 1SB10B	T1 - Floor	C	413	329	-84	-6.65E+02	
LS-20 - 1SB10B	T2 - Floor	C	413	336	-77	-6.10E+02	
LS-7 - 1SB13	T1 - Floor	C	413	331	-82	-6.49E+02	
LS-7 - 1SB13	T2 - Floor	C	413	441	28	2.24E+02	
LS-7 - 1SB13	T3 - Floor	C	413	361	-52	-4.11E+02	
LS-8 - 1SB12A	T1 - Floor	C	413	342	-71	-5.62E+02	
LS-8 - 1SB12A	T2 - Floor	C	413	363	-50	-3.95E+02	
LS-8 - 1SB12A	T3 - Floor	C	413	426	13	1.05E+02	
LS-21 - 1SB16	T1 - Floor	C	413	419	6	4.92E+01	
LS-21 - 1SB16	T2 - Floor	C	413	381	-32	-2.52E+02	
LS-21 - 1SB16	T3 - Floor	C	413	375	-38	-3.00E+02	
LS-9 - 254	T1 - Sink	SST	260	340	80	6.38E+02	
LS-9 - 254	T2 - Floor	VT	309	271	-38	-3.00E+02	
LS-9 - 254A	T1 - Floor	VT	309	280	-29	-2.29E+02	
LS-9 - 255	T1 - Floor	VT	309	279	-30	-2.37E+02	
LS-9 - 256	T1 - Floor	VT	309	316	7	5.71E+01	
LS-9 - 257	T1 - Floor	VT	309	228	-81	-6.41E+02	
LS-9 - 257	T2 - Sink	SS	339	292	-47	-3.71E+02	
LS-9 - 257A	T1 - Floor	VT	309	374	65	5.17E+02	
LS-9 - 258	T1 - Sink	SS	339	257	-82	-6.49E+02	
LS-9 - 258	T2 - Floor	VT	309	281	-28	-2.21E+02	
LS-9 - 260	T1 - Sink	SS	339	281	-58	-4.59E+02	

Windowless Proportional Counter Survey Results
VA Chicago - Lakeside Hospital Final Status Survey

Survey Instrument	Instrument / Probe S/N	Probe Active Area (cm^2)	Asserted 44-110 H-3 Efficiency[1]
Ludlum 2221 / 44-110	176947 / PR178079	126	10%

SU - Room	Sample Location	Surface Material[2]	Material-Specific Background (cpm)	Gross Static Count Rate (cpm)	Net Static Count Rate (cpm)	H-3 Residual Activity (dpm / $100cm^2$)	Notes
LS-9 - 260	T2 - Floor	O	124	132	8	6.03E+01	
LS-11 - 716D	T1 - Sink	SST	260	281	21	1.70E+02	
LS-11 - 716D	T2 - Sink	SST	260	329	69	5.51E+02	
LS-11 - 716D	T3 - Sink	SST	260	297	37	2.97E+02	
LS-11 - 716D	T4 - Sink	SST	260	282	22	1.78E+02	
LS-11 - 716D	T5 - Floor	VT	309	186	-123	-9.75E+02	
LS-12 - 718	T1 - Sink	SST	260	295	35	2.81E+02	
LS-12 - 718	T2 - Floor	VT	309	280	-29	-2.29E+02	
LS-13 - 732	T1 - Floor	VT	309	249	-60	-4.75E+02	
LS-13 - 732	T2 - Countertop	SST	260	311	51	4.08E+02	
LS-13 - 732	T3 - Countertop	SST	260	325	65	5.19E+02	
LS-14 - 734	T1 - Sink	SST	260	333	73	5.83E+02	
LS-14 - 734	T2 - Floor	VT	309	201	-108	-8.56E+02	
LS-14 - 734-1	T1 - Hood	SS	339	309	-30	-2.37E+02	
LS-14 - 734-1	T2 - Floor	VT	309	218	-93	-7.37E+02	
LS-14 - 734-1	T3 - Floor	VT	309	267	-42	-3.32E+02	
LS-14 - 734-1	T4 - Sink	SST	260	221	-39	-3.06E+02	
LS-14 - 735	T1 - Sink	PS	631	610	-21	-1.68E+02	
LS-14 - 735	T2 - Floor	VT	309	236	-73	-5.78E+02	
LS-16 - 817	T1 - Sink	O	124	142	18	1.40E+02	
LS-16 - 817	T2 - Sink	SST	260	364	104	8.29E+02	
LS-16 - 817	T3 - Floor	VT	309	240	-69	-5.46E+02	
LS-16 - 819	T1 - Floor	VT	309	239	-70	-5.54E+02	
LS-16 - 819	T2 - Floor	VT	309	267	-42	-3.32E+02	
LS-16 - 819A	T1 - Floor	VT	309	308	-1	-6.35E+00	
LS-16 - 819B	T1 - Countertop	SST	260	353	93	7.41E+02	
LS-16 - 819C	T1 - Floor	VT	309	257	-52	-4.11E+02	
LS-16 - 820	T1 - Countertop	SST	260	349	89	7.10E+02	
LS-16 - 820	T2 - Floor	VT	309	351	42	3.35E+02	
LS-16 - 820A	T1 - Floor	VT	309	350	41	3.27E+02	
LS-16 - 821	T1 - Sink	SST	260	336	76	6.06E+02	
LS-16 - 821	T2 - Sink	SST	260	326	66	5.27E+02	
LS-16 - 821	T3 - Countertop	SST	260	239	-21	-1.63E+02	
LS-16 - 821A	T1 - Floor	VT	309	271	-38	-3.00E+02	
LS-16 - 822	T1 - Floor	VT	309	257	-52	-4.11E+02	
LS-16 - 823	T1 - Sink	SST	260	324	64	5.11E+02	
LS-16 - 823	T2 - Sink	SST	260	274	14	1.14E+02	
LS-16 - 823	T3 - Countertop	SST	260	361	101	8.05E+02	
LS-16 - 824	T1 - Sink	SST	260	296	36	2.89E+02	
LS-16 - 824	T2 - Sink	SST	260	253	-7	-5.24E+01	
LS-16 - 824	T3 - Countertop	SST	260	236	-24	-1.87E+02	

Windowless Proportional Counter Survey Results
VA Chicago - Lakeside Hospital Final Status Survey

Survey Instrument	Instrument / Probe S/N	Probe Active Area (cm^2)	Asserted 44-110 H-3 Efficiency[1]
Ludlum 2221 / 44-110	176947 / PR178079	126	10%

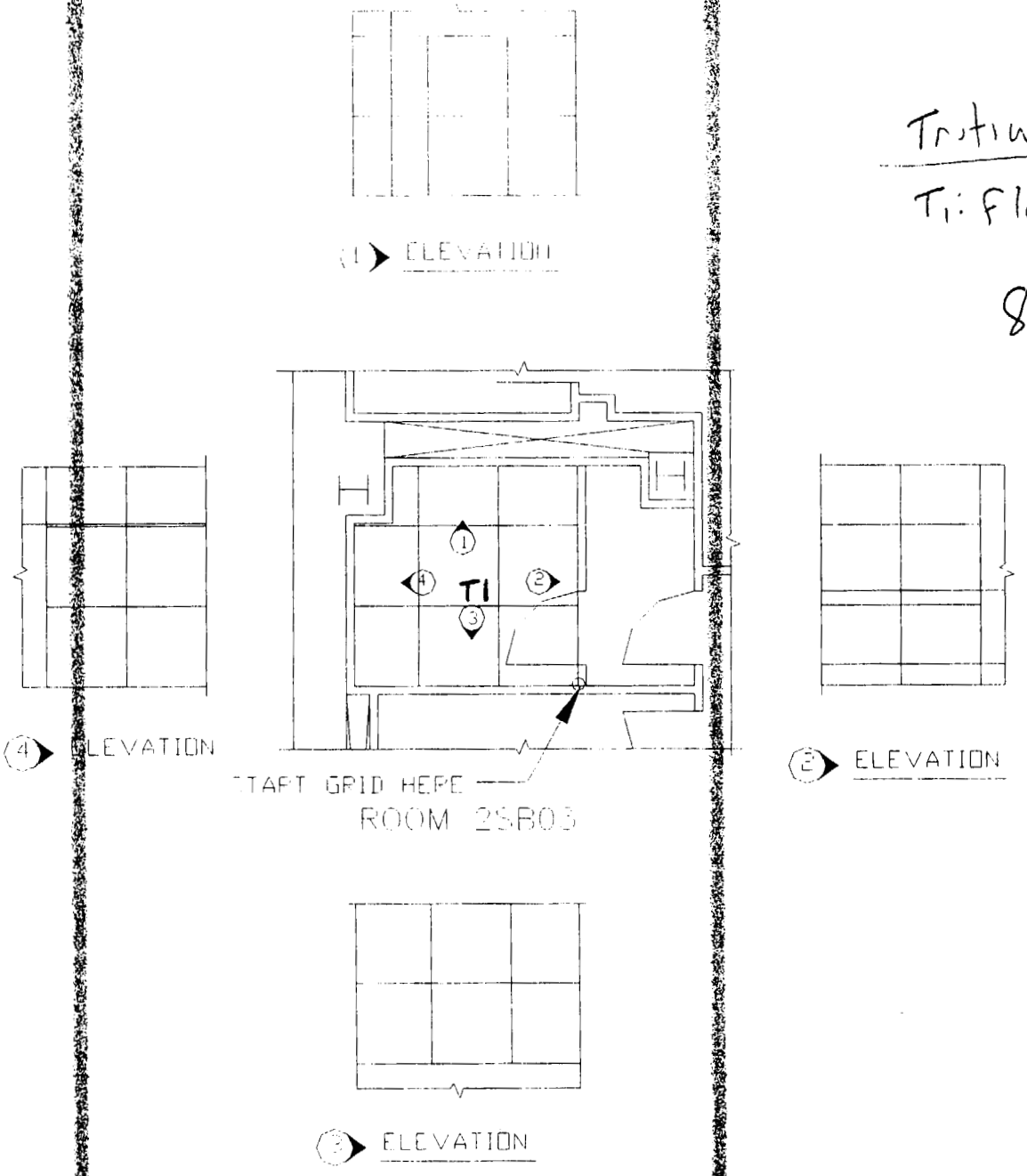
SU - Room	Sample Location	Surface Material[2]	Material-Specific Background (cpm)	Gross Static Count Rate (cpm)	Net Static Count Rate (cpm)	H-3 Residual Activity (dpm / $100cm^2$)	Notes
LS-16 - 824	T4 - Floor	VT	309	217	-92	-7.29E+02	
LS-16 - 825	T1 - Sink	SST	260	272	12	9.84E+01	
LS-16 - 825	T2 - Countertop	SST	260	206	-54	-4.25E+02	
LS-17 - 827C	T1 - Wall	O	124	283	159	1.26E+03	
LS-17 - 827C	T2 - Wall	O	124	272	148	1.17E+03	
LS-17 - 829B	T1 - Floor	O	124	185	61	4.81E+02	
LS-17 - 829C	T1 - Floor	O	124	205	81	6.40E+02	
LS-18 - 839	T1 - Sink	SST	260	474	214	1.70E+03	
LS-18 - 839	T2 - Floor	C	413	336	-77	-6.10E+02	
LS-18 - 841	T1 - Floor	VT	309	132	-177	-1.40E+03	
LS-18 - 842	T1 - Floor	O	124	152	28	2.19E+02	
LS-18 - 842	T2 - Floor	O	124	119	-5	-4.29E+01	
LS-18 - 845	T1 - Sink	O	124	122	-2	-1.90E+01	
LS-18 - 845	T2 - Floor	O	124	124	0	-3.17E+00	
LS-18 - 848	T1 - Floor	O	124	96	-28	-2.25E+02	
LS-18 - 850	T1 - Sink	O	124	145	21	1.63E+02	
LS-19 - 803	T1 - Sink	SST	260	309	49	3.92E+02	
LS-19 - 803	T2 - Floor	VT	309	290	-19	-1.49E+02	
LS-19 - 803	T3 - Floor (Grid #15 post-decon)	VT	309	247	-62	-4.90E+02	
LS-19 - 809	T1 - Sink	SST	260	264	4	3.49E+01	
LS-19 - 809	T2 - Hood	SST	260	193	-67	-5.29E+02	
LS-19 - 809	T3 - Floor	VT	309	297	-12	-9.37E+01	
LS-19 - 811	T1 - Hood	SST	260	239	-21	-1.63E+02	
LS-19 - 811	T2 - Sink	SST	260	305	45	3.60E+02	
LS-19 - 811	T3 - Floor	VT	309	237	-72	-5.70E+02	
LS-19 - 811	T4 - Floor (Grid #16 post-decon)	VT	309	752	443	3.52E+03	
LS-19 - 813	T1 - Sink	SS	339	323	-16	-1.25E+02	
LS-19 - 813	T2 - Floor	VT	309	380	71	5.65E+02	
LS-19 - 813	T3 - Countertop	SST	260	246	-14	-1.08E+02	
LS-19 - 813	T4 - Countertop (Grid #125 post-decon)	SST	260	329	69	5.51E+02	

NOTES:

1 **Instrument H-3 efficiency conservatively de-rated to 10% from vendor calibration 2-pi H-3 efficiency of 46.9% to account for surface inconsistencies.**

2 **Surface materials:**

SSI = Synthetic Stone Sink
SST = Synthetic Stone Bench Top
ST = Natural Stone Surfaces (Room 302 Only)
SS = Stainless Steel
VT = Vinyl Tile

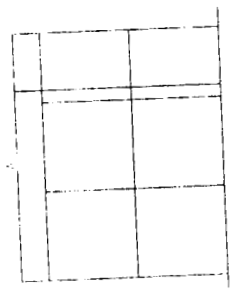


Tritium Readings

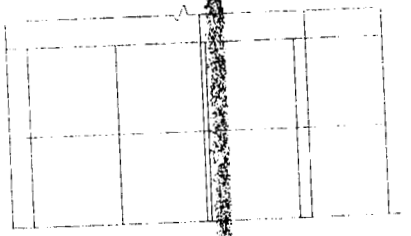
T1: Floor (Vinyl Tile) - 234

8.3.04

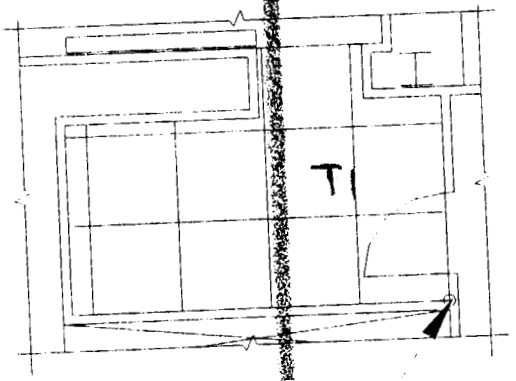
AC



(4) ELEVATION

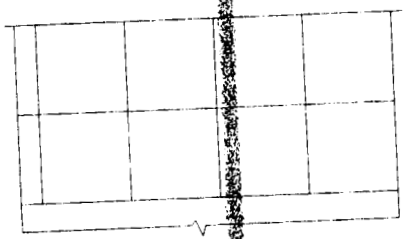


(1) ELEVATION

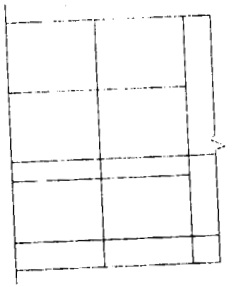


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ROOM 2[illegible]B05



(3) ELEVATION

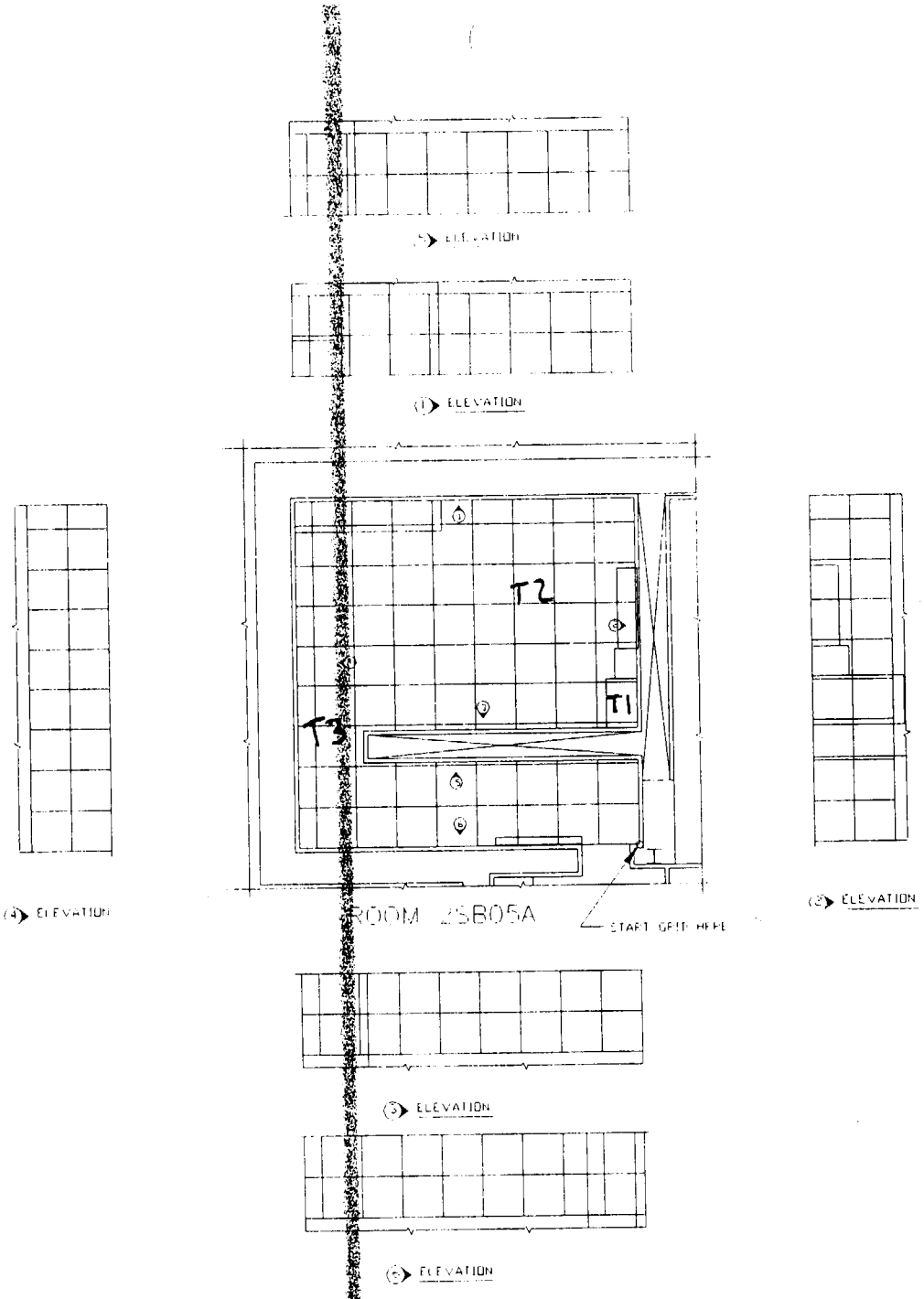


(2) ELEVATION

Tritium Readings

T1: Floor (Terrazzo) -281

8.3.04
AC



Tartium Readings

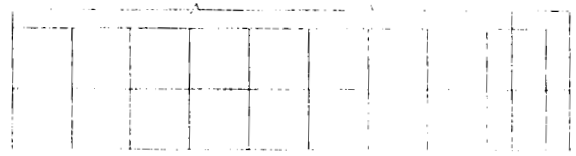
T1: Sink (Stainless) Surface - 287

T2: floor (Terrazzo) - 289

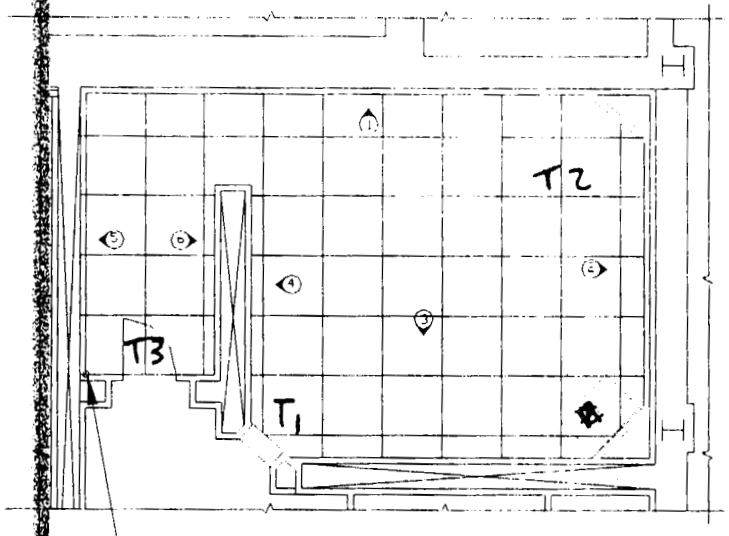
T3: floor (Terrazzo) - 294

8.3.04

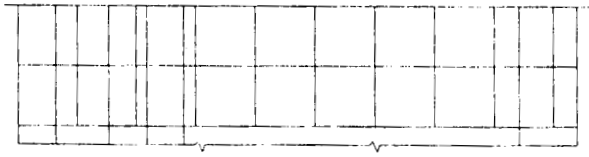
AE



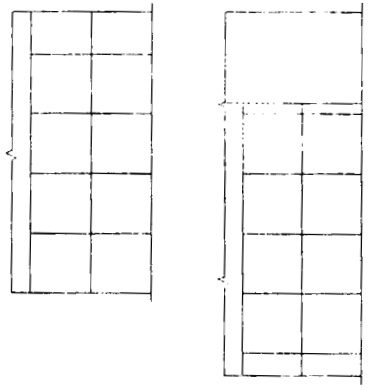
(1) ELEVATION



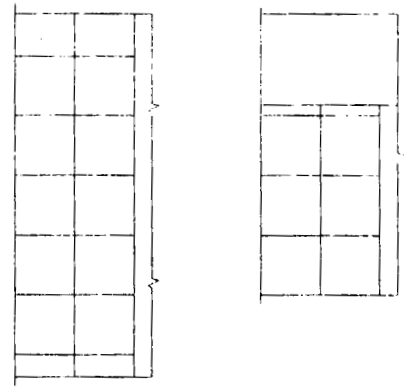
ROOM 25B07A



(3) ELEVATION



(5) ELEVATION (4) ELEVATION



(2) ELEVATION (1) ELEVATION

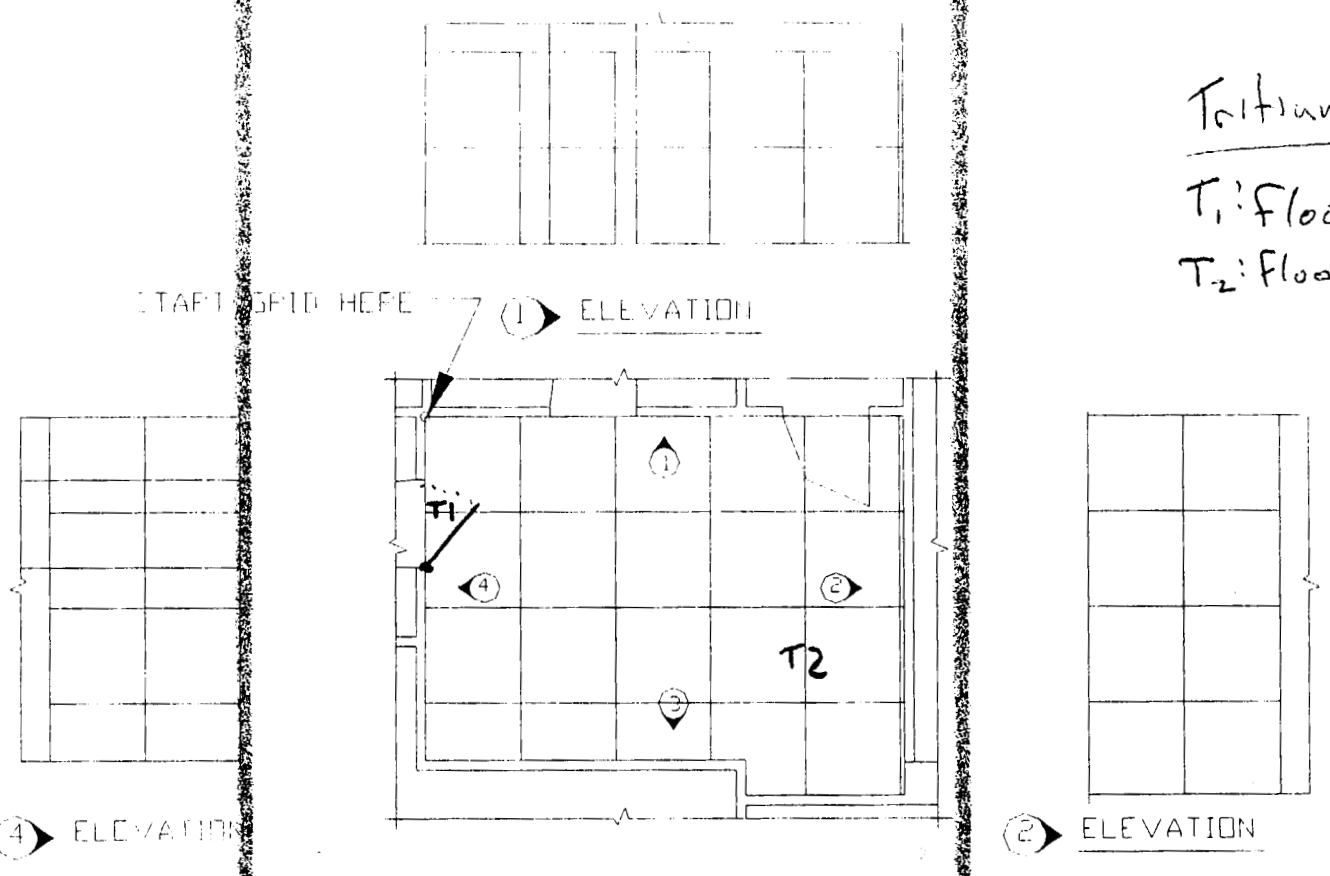
Tritium Readings

T_1: Sink (stainless) -397

T_2: Floor (Terrazzo) -325

T_3: Floor (Terrazzo) -274

8.3.04 AC



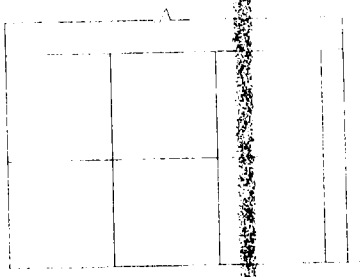
Tritium Readings

T_1: Floor (Vinyl Tile) - 211

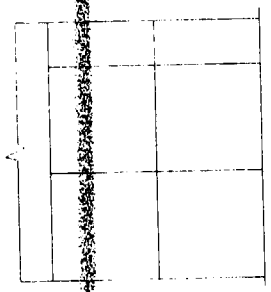
T_2: Floor (Vinyl Tile) - 288

8, 3, 04

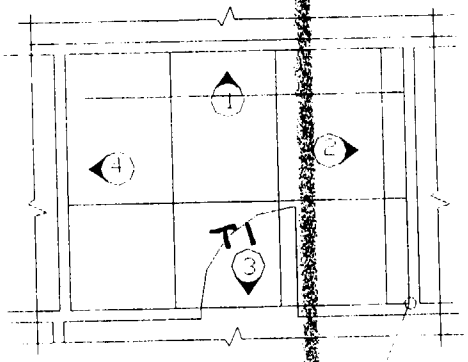
AC



(1) ELEVATION

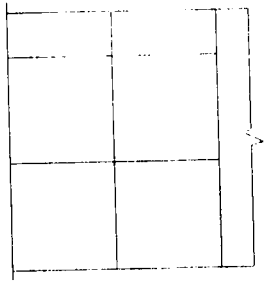


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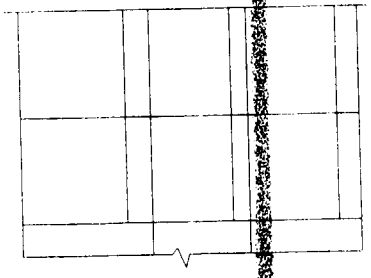


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ROOM 238084



(2) ELEVATION



(3) ELEVATION

Tritium Readings

T_1: Floor (Vinyl Tile)

-289

8.3.04

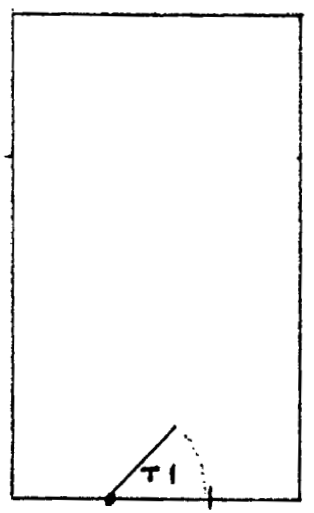
AC

Tritium Readings

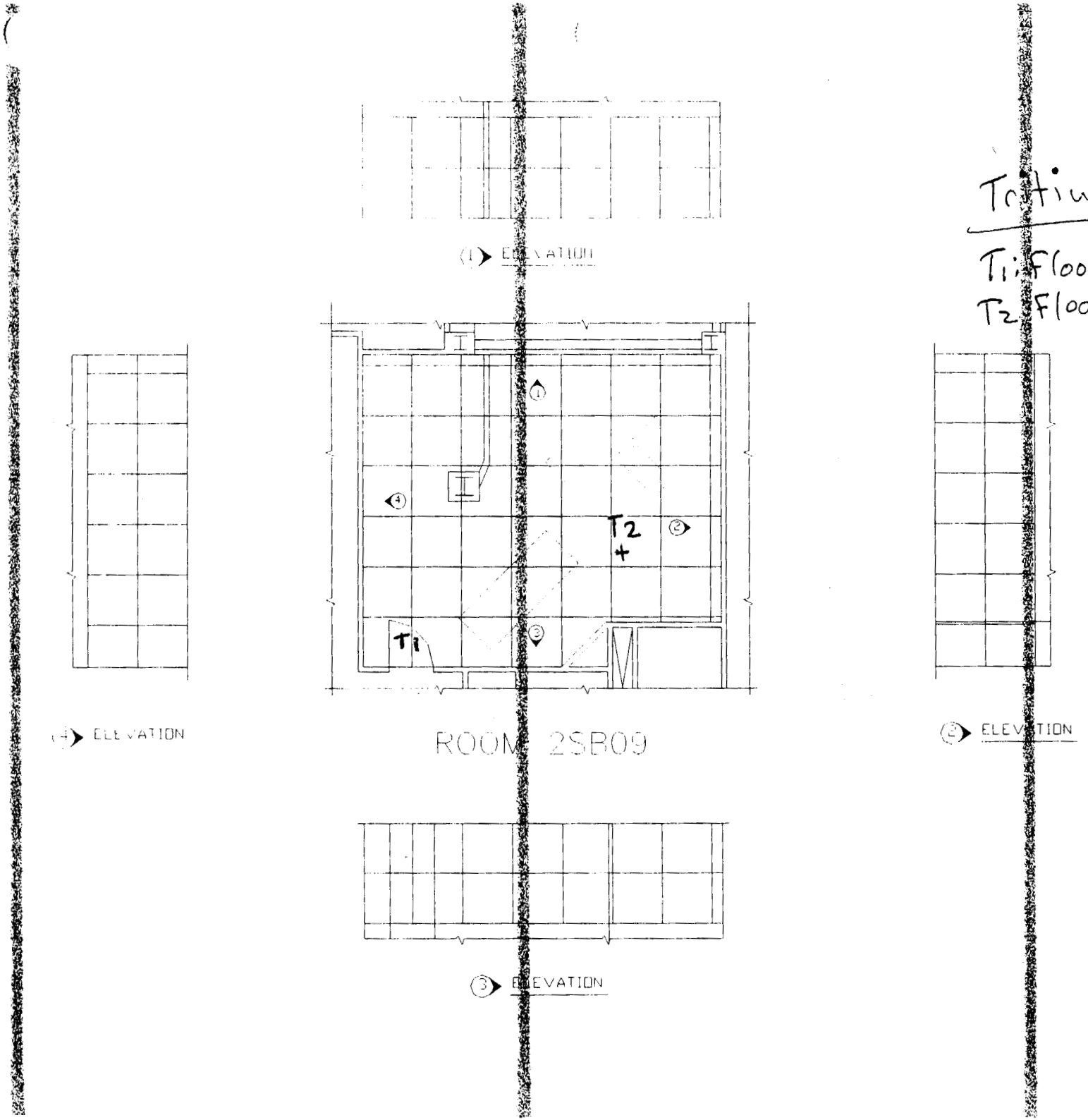
T_1: Floor (Vinyl Tile) - 286

8.3.04

AC



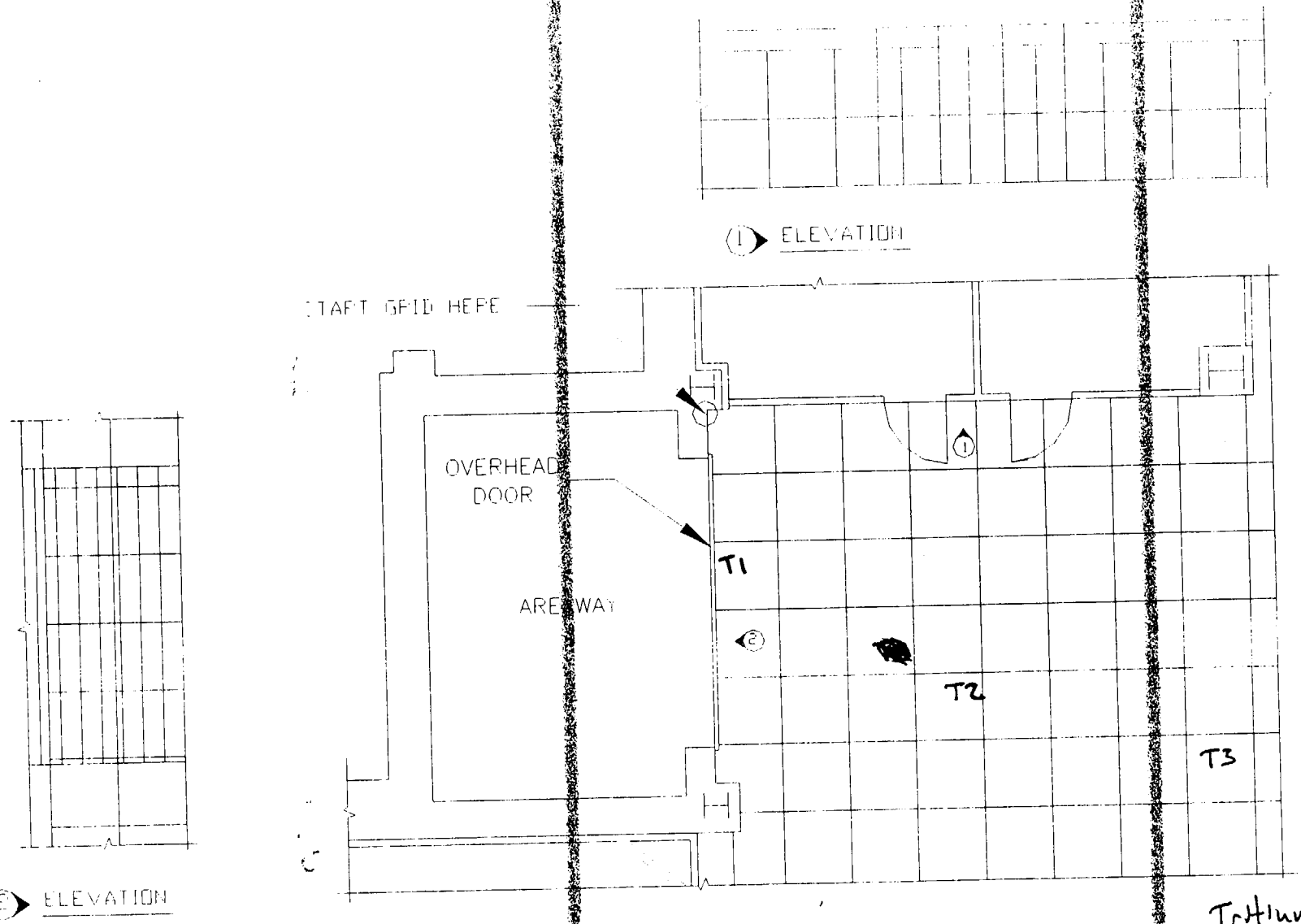
Room 2^{SB}08B



Tritium Readings

T1: Floor (Vinyl Tile) -25
T2: Floor (Vinyl Tile) -30

8.30.04
AC



8.5.04
AE

Tritium Readings

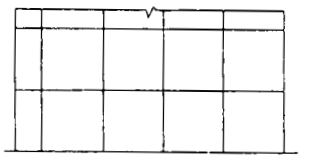
T1: [redacted] Floor (cement) - 23?
T2: Floor (cement) - 321
T3: Floor (cement) - 25?

ROOM 25B Incin – Boiler Room

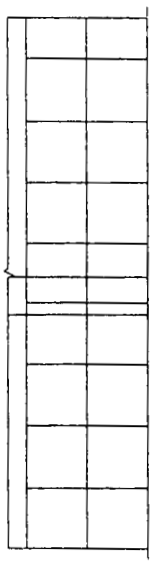
Pre-Decontam
Tritium Readings

T_1: Floor (Concrete) - 375
T_2: Floor (Concrete) - 439
T_3: Floor (Concrete) - 538
T_4: Floor (Concrete) - 434
T_5: Floor (Concrete) - 337

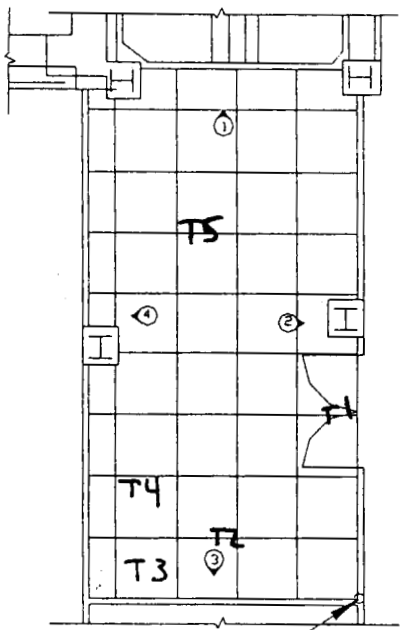
8.1.04
AC

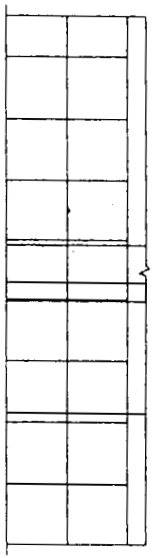


① ELEVATION



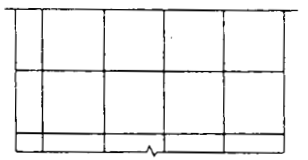
④ ELEVATION



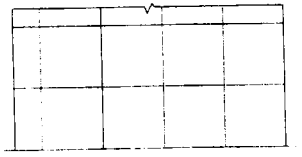


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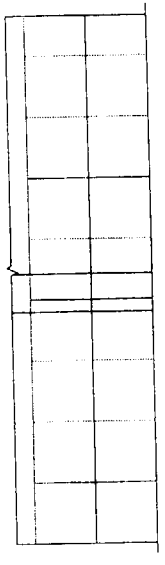
ROOM 1SB10A



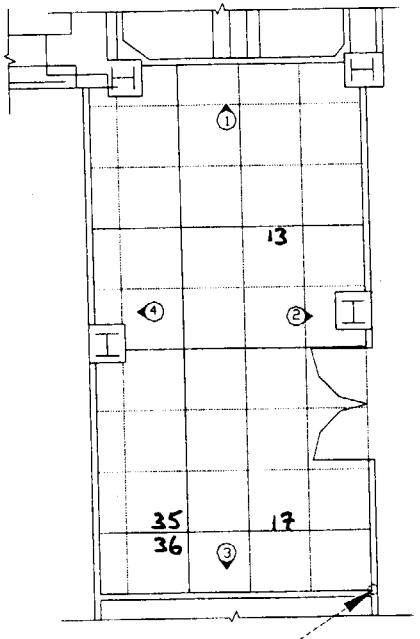
③ ELEVATION



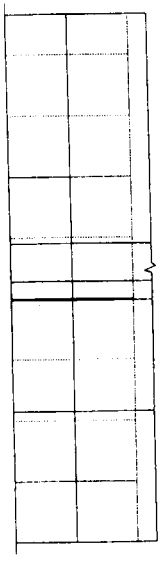
① ELEVATION



④ ELEVATION

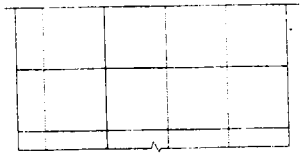


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② ELEVATION

ROOM 1SB10A



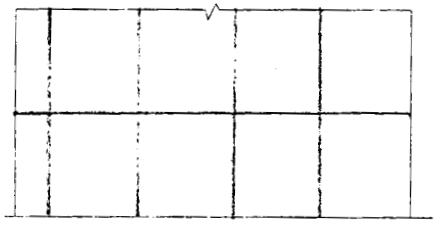
③ ELEVATION

Post-Decontamination Tritium Readings

13: 802
17: 1649
35: 748
36: 1094

} 9.2.04

AC



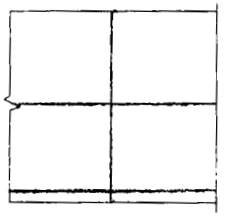
① ELEVATION

Tritium Readings

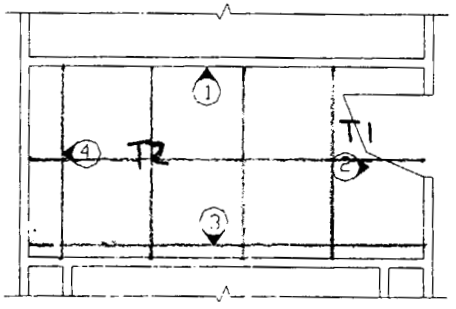
T_1: Floor (Concrete): 329

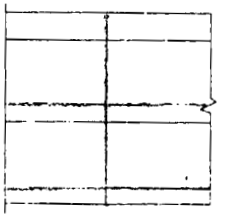
T_2: Floor (Concrete): 358

8.24.04
AC



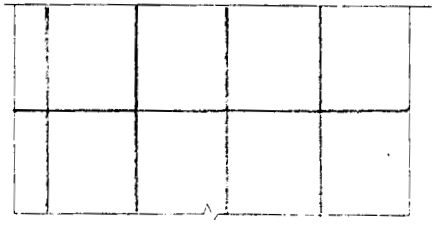
④ ELEVATION





② ELEVATION

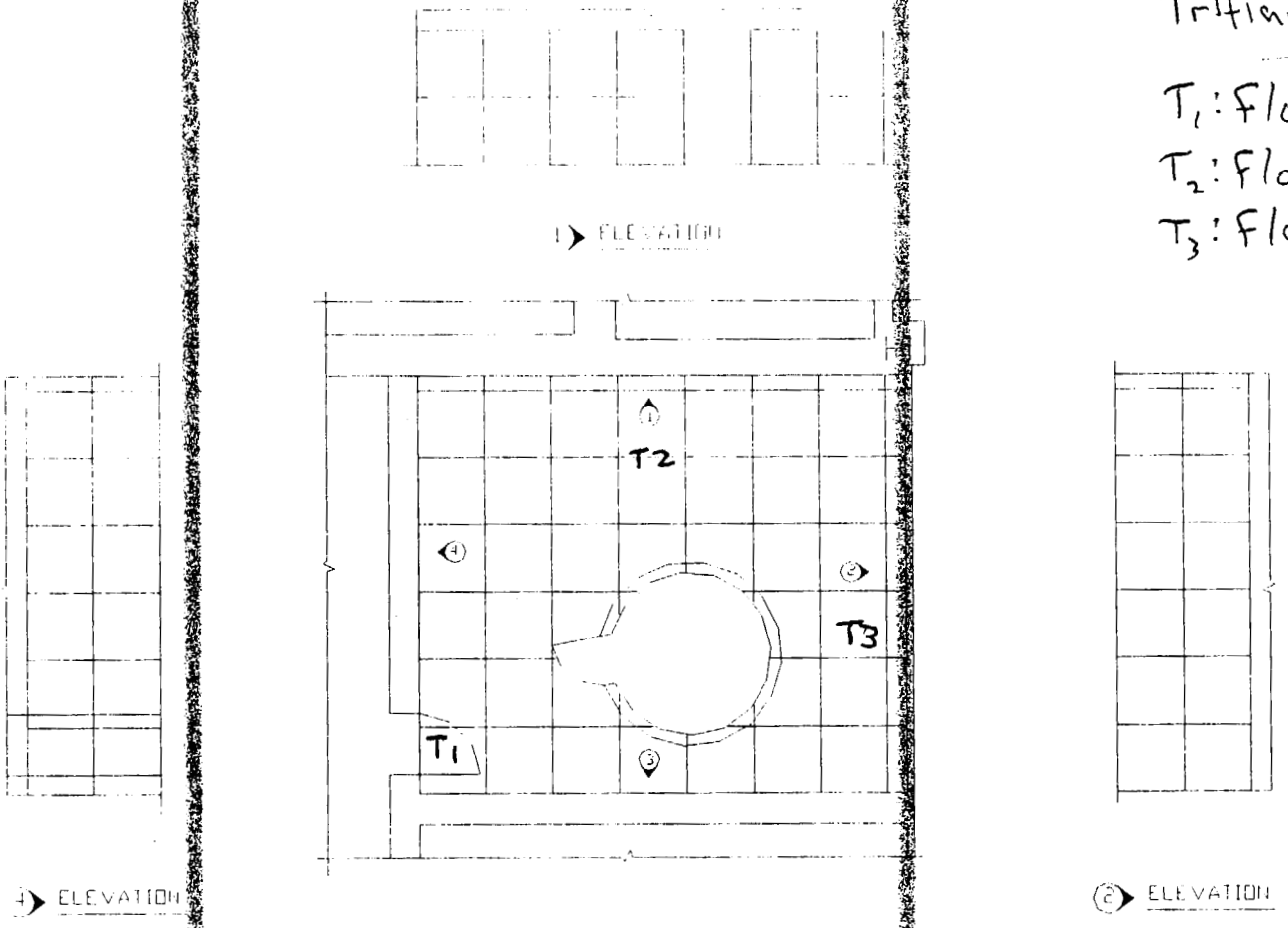
ROOM 1SB10B

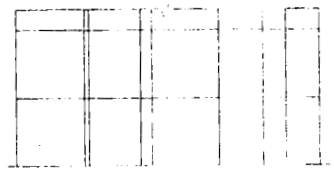


③ ELEVATION

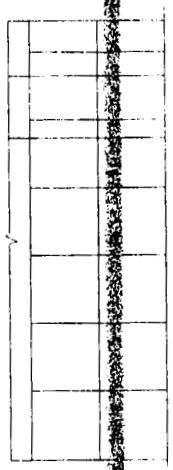
Tritium Readings

T_1: Floor (Cement) - 342
T_2: Floor (Cement) - 363
T_3: Floor (Cement) - 426



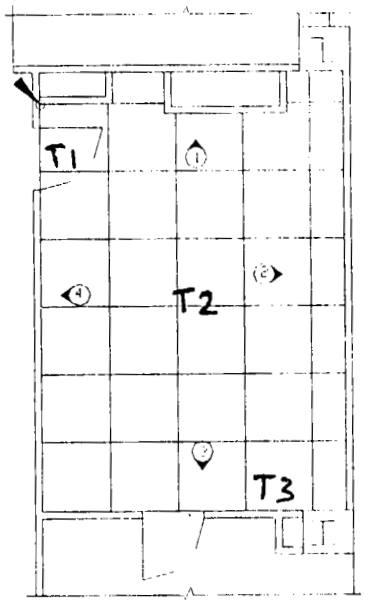


(1) ELEVATION

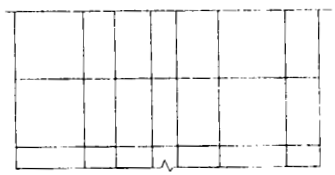


(4) ELEVATION

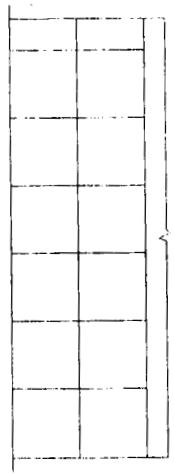
TAPE GRID HERE



ROOM 1SB13



(3) ELEVATION



(2) ELEVATION

Tritium Readings

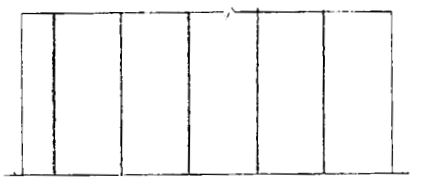
T1: Floor (cement) - 336

T2: Floor (cement) - 331

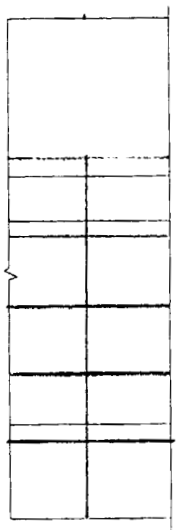
T3: Floor (cement) - 441

8.03.04

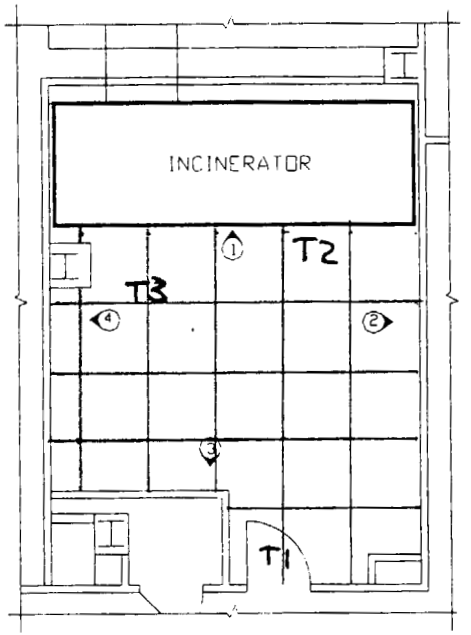
AC



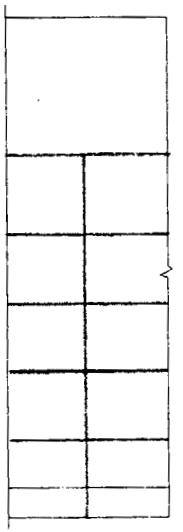
① ELEVATION



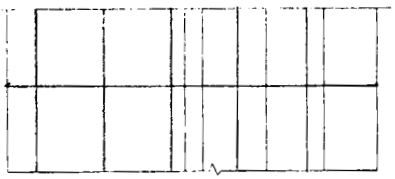
④ ELEVATION



ROOM 1SB16



② ELEVATION



③ ELEVATION

Tritium Readings

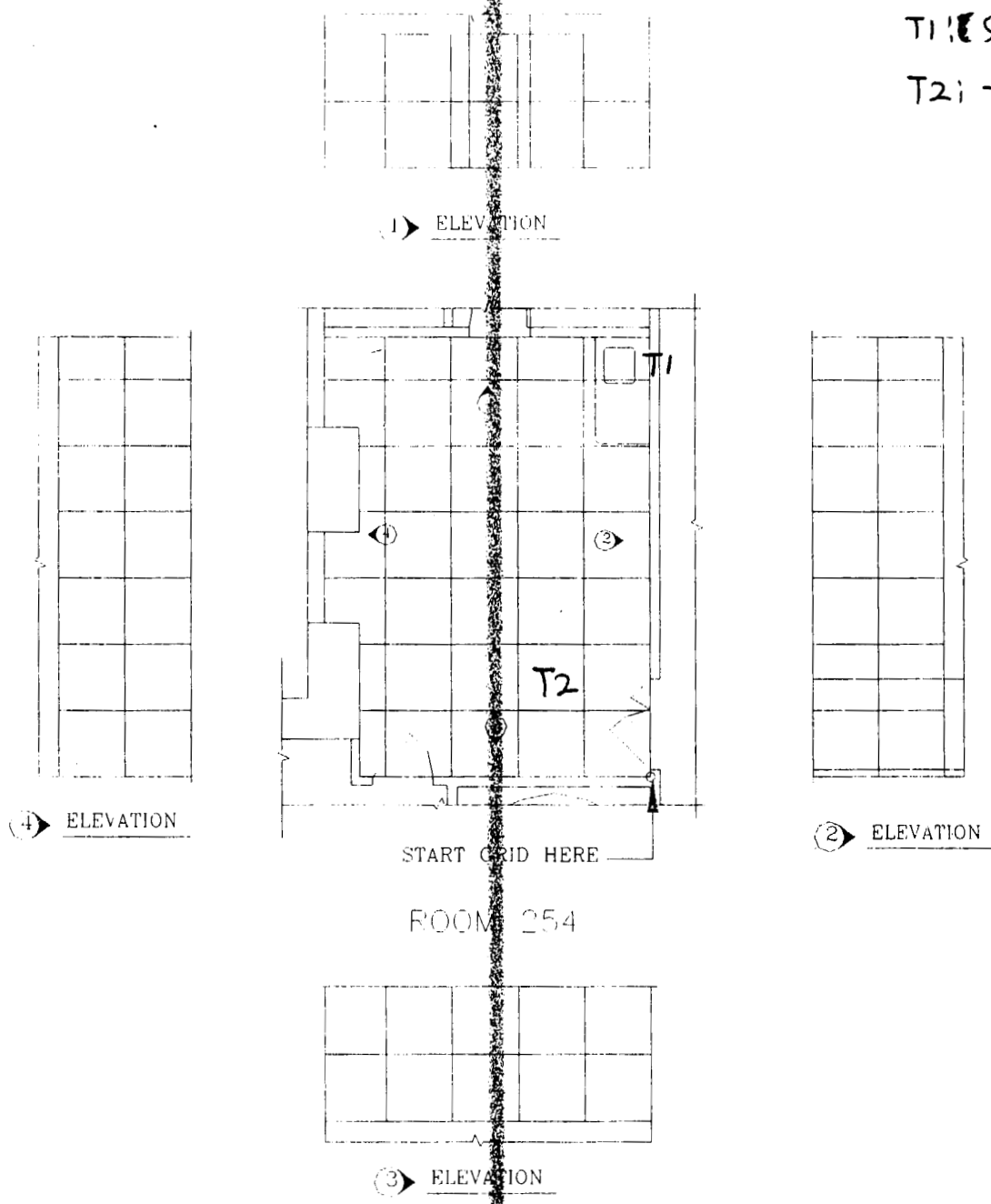
T_1: Floor (Concrete) - 419
T_2: Floor (Concrete) - 381
T_3: Floor (Concrete) - 375

T1 (Sink) - 140

T2 floor (Vinyl tile) - 271

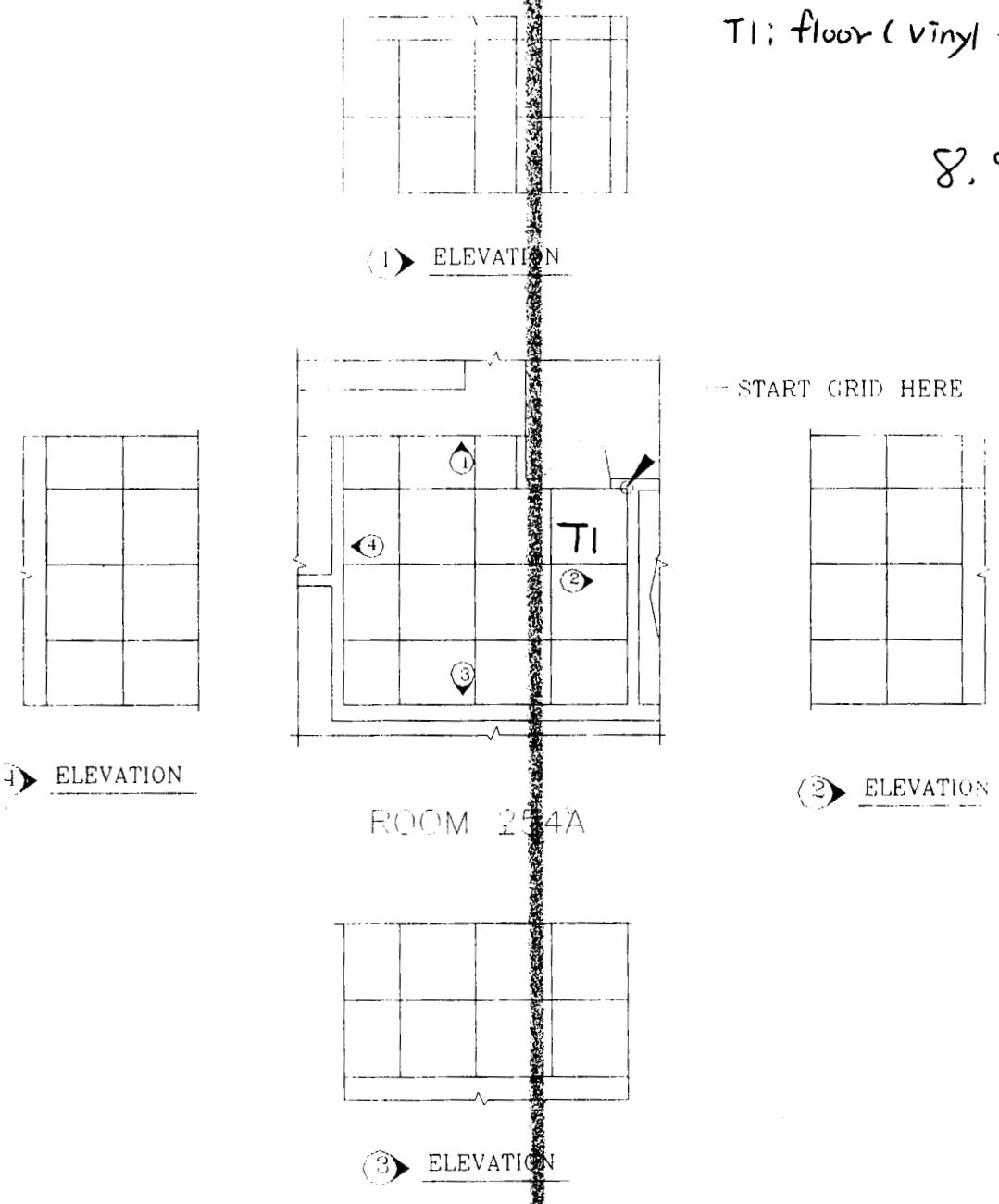
89.04

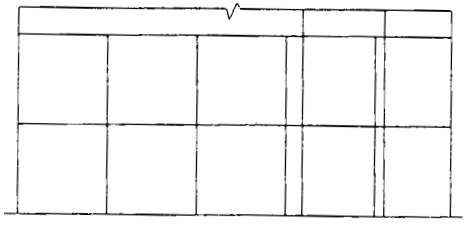
AC



T1: floor (vinyl tile) - 280

8.9.04
AC



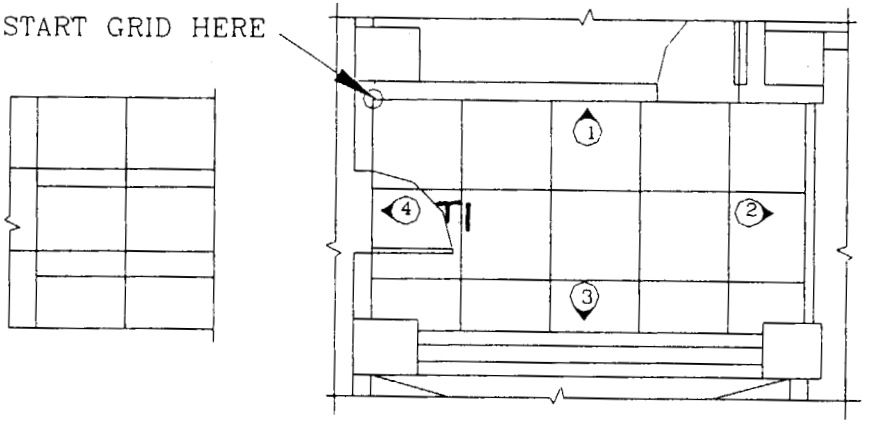


① ELEVATION

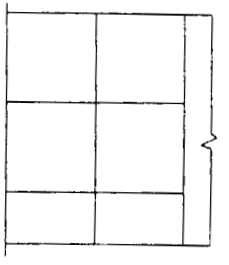
Tritium Readings
T1: Floor (Vinyl Tile) - 279

8.9.04

AC

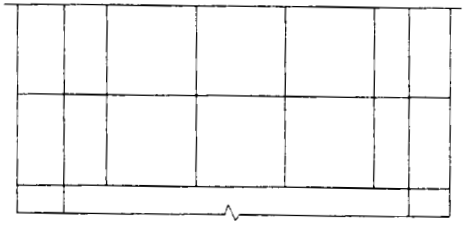


④ ELEVATION

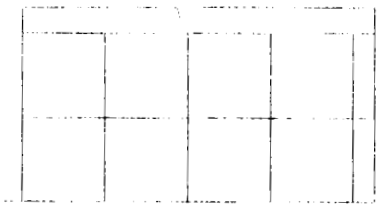


② ELEVATION

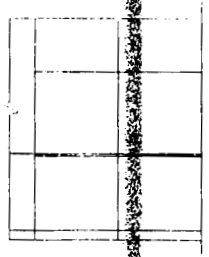
ROOM 255



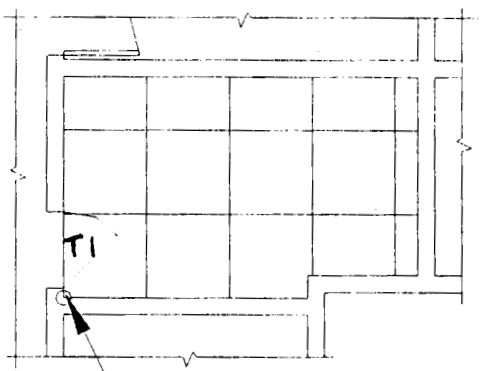
③ ELEVATION



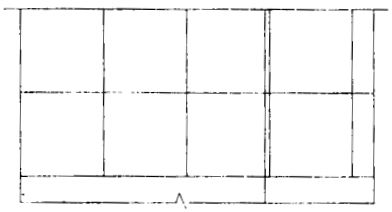
(1) ELEVATION



(4) ELEVATION



ROOM 256



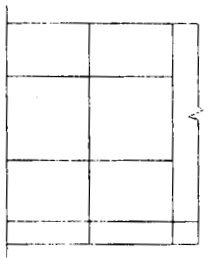
(3) ELEVATION

Tritium Readings

T1: Floor (Vinyl Tile) - 316

8.9.04

AE

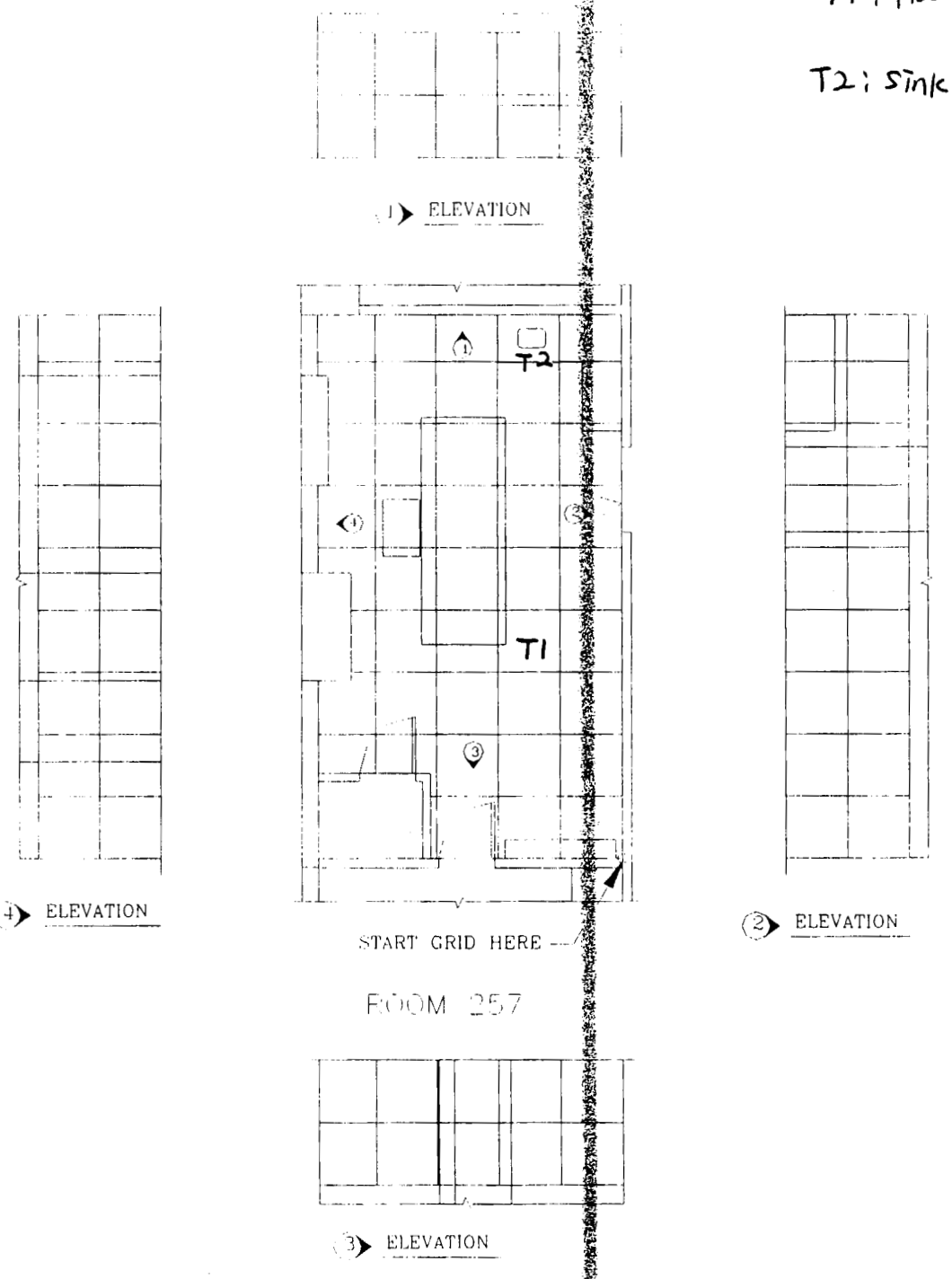


(2) ELEVATION

T1 : floor (vinyl tile) - 228

T2 : sink - 292

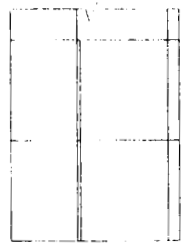
8.9.04
AC



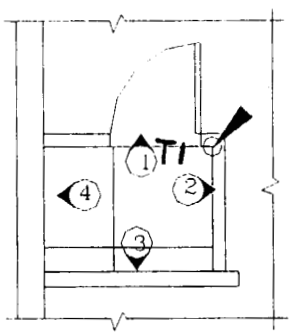
T1: floor (vinyl tile) - 374

8.9.04

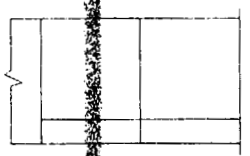
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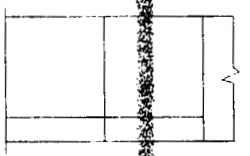
(1) ELEVATION



START GRID HERE

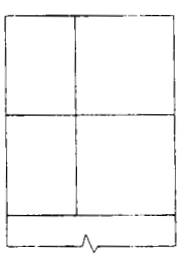


(4) ELEVATION



(2) ELEVATION

ROOM 257A



(3) ELEVATION

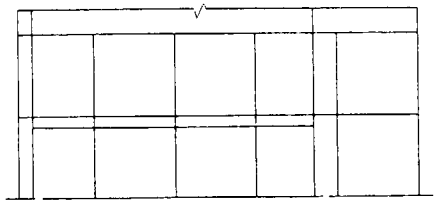
Tritium Readings

T_1: Sink (Stainless) - 257

T_2: Floor (Vinyl Tile) - 281

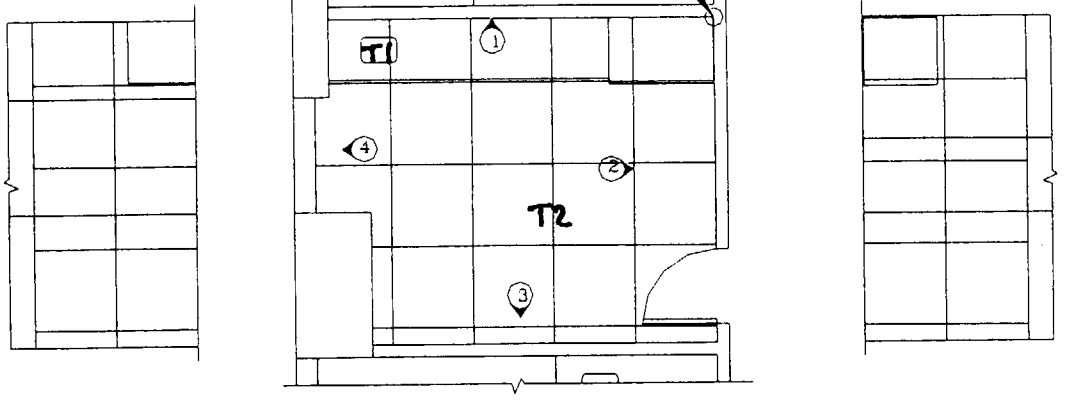
8.9.04

AC



1 ELEVATION

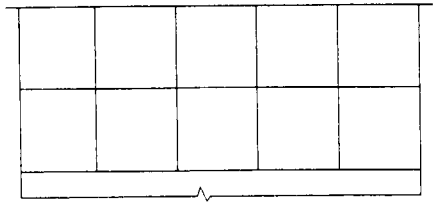
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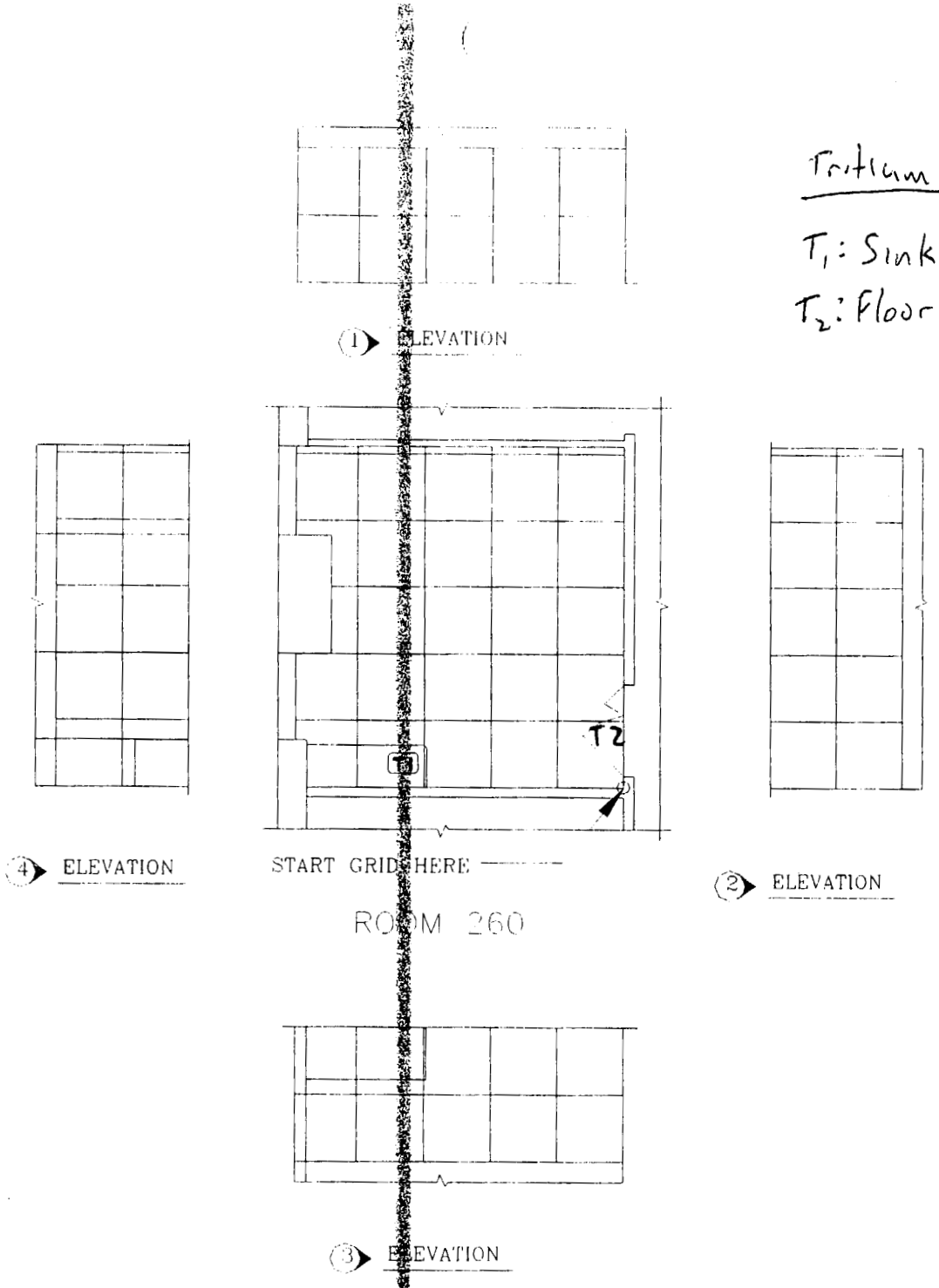
4 ELEVATION

2 ELEVATION

ROOM 258



3 ELEVATION



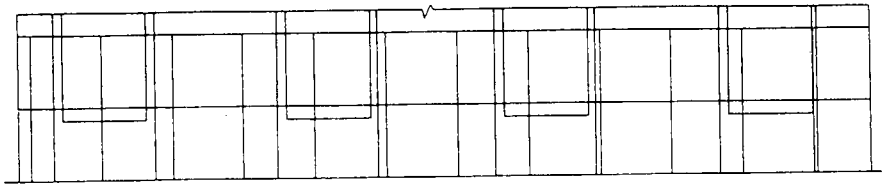
Tritium Readings

T_1: Sink (Stainless) - 281

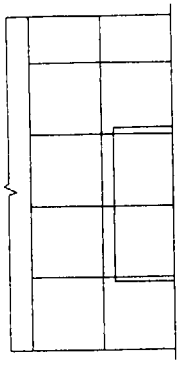
T_2: Floor (Vinyl Tile) - 132

8.9.04

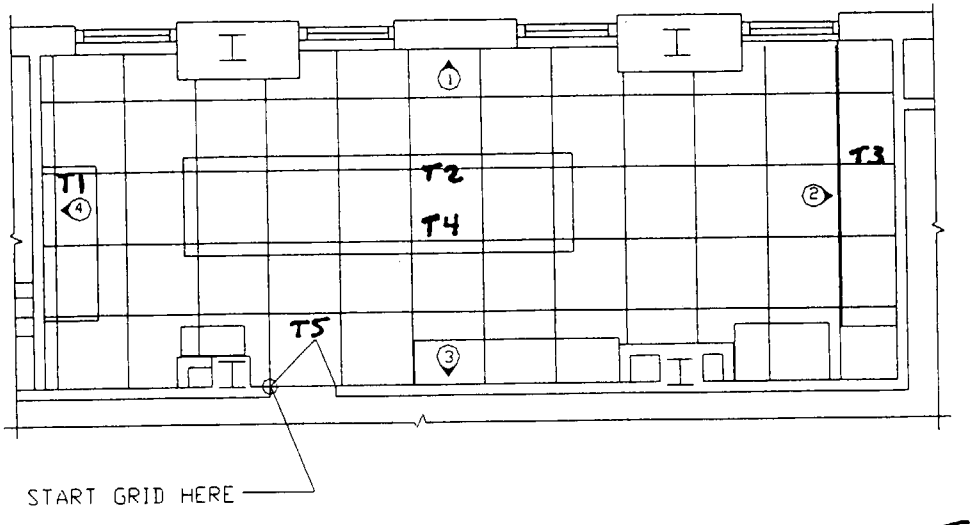
AE



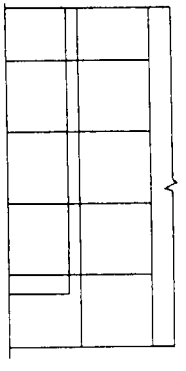
① ELEVATION



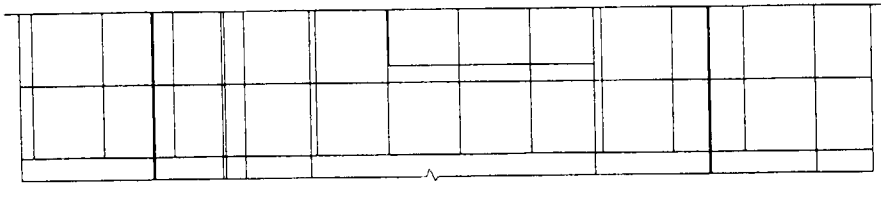
④ ELEVATION



ROOM 716D



② ELEVATION



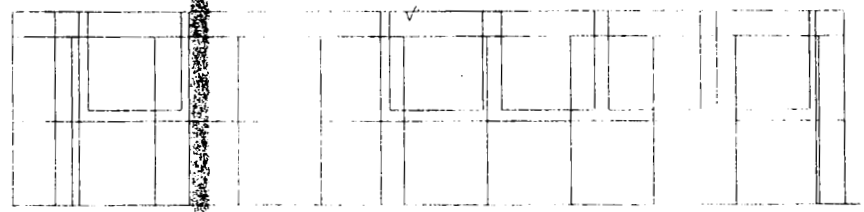
③ ELEVATION

Tritium Readings

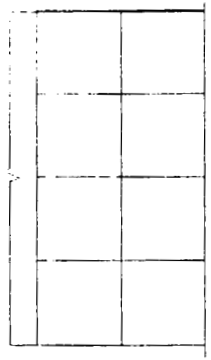
T_1: Sink (Synthetic Stone) - 281
T_2: Sink (Synthetic Stone) - 329
T_3: Sink (Synthetic Stone) - 297
T_4: Sink (Synthetic Stone) - 282
T_5: Floor (Vinyl Tile) - 186

8.2.04

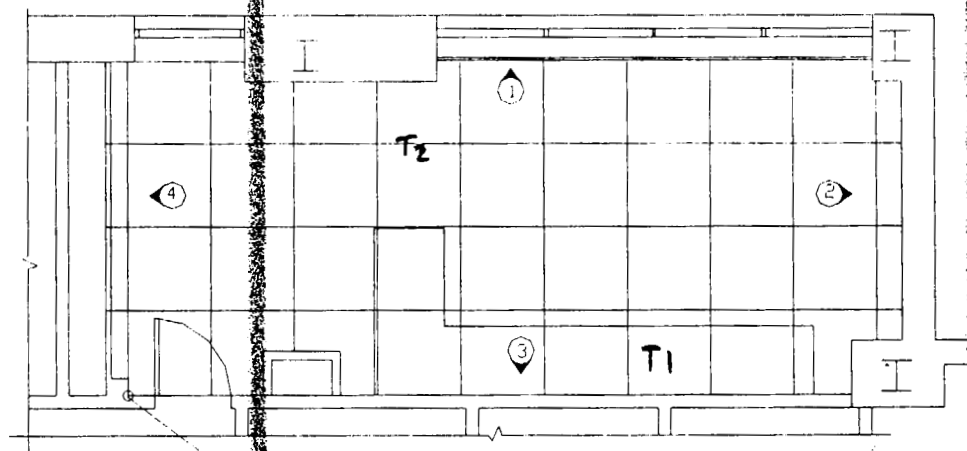
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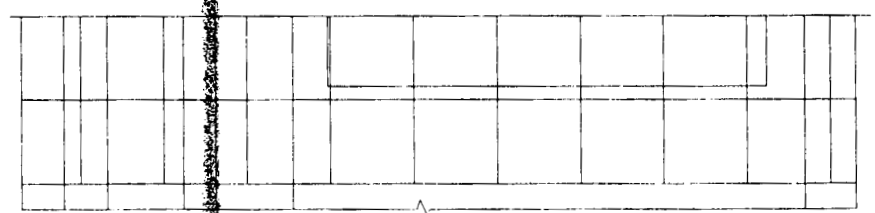


① ELEVATION

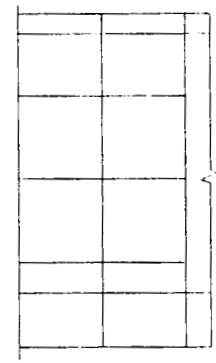


④ ELEVATION





③ ELEVATION



② ELEVATION

Tritium Readings

T_1: Sink (stone) - 295

T_2: Floor (Vinyl Tile) - 280

8.3.04

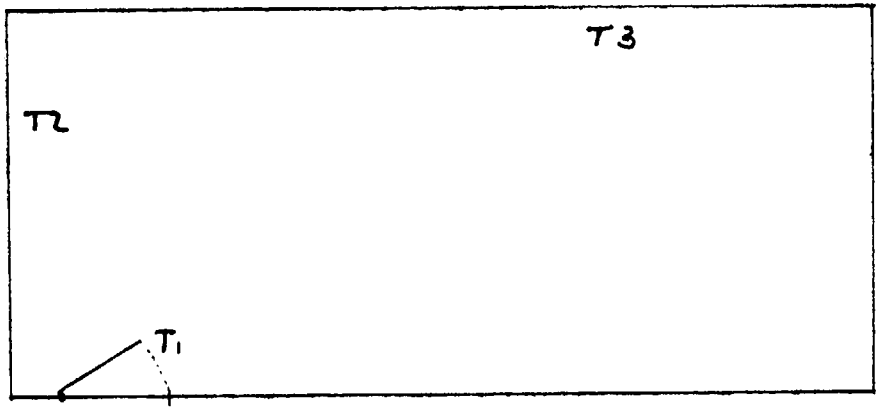
AE

Tritium Readings

T_1: Floor (Vinyl Tile) - 249

T_2: Bench Top (Synthetic Stone) - 311

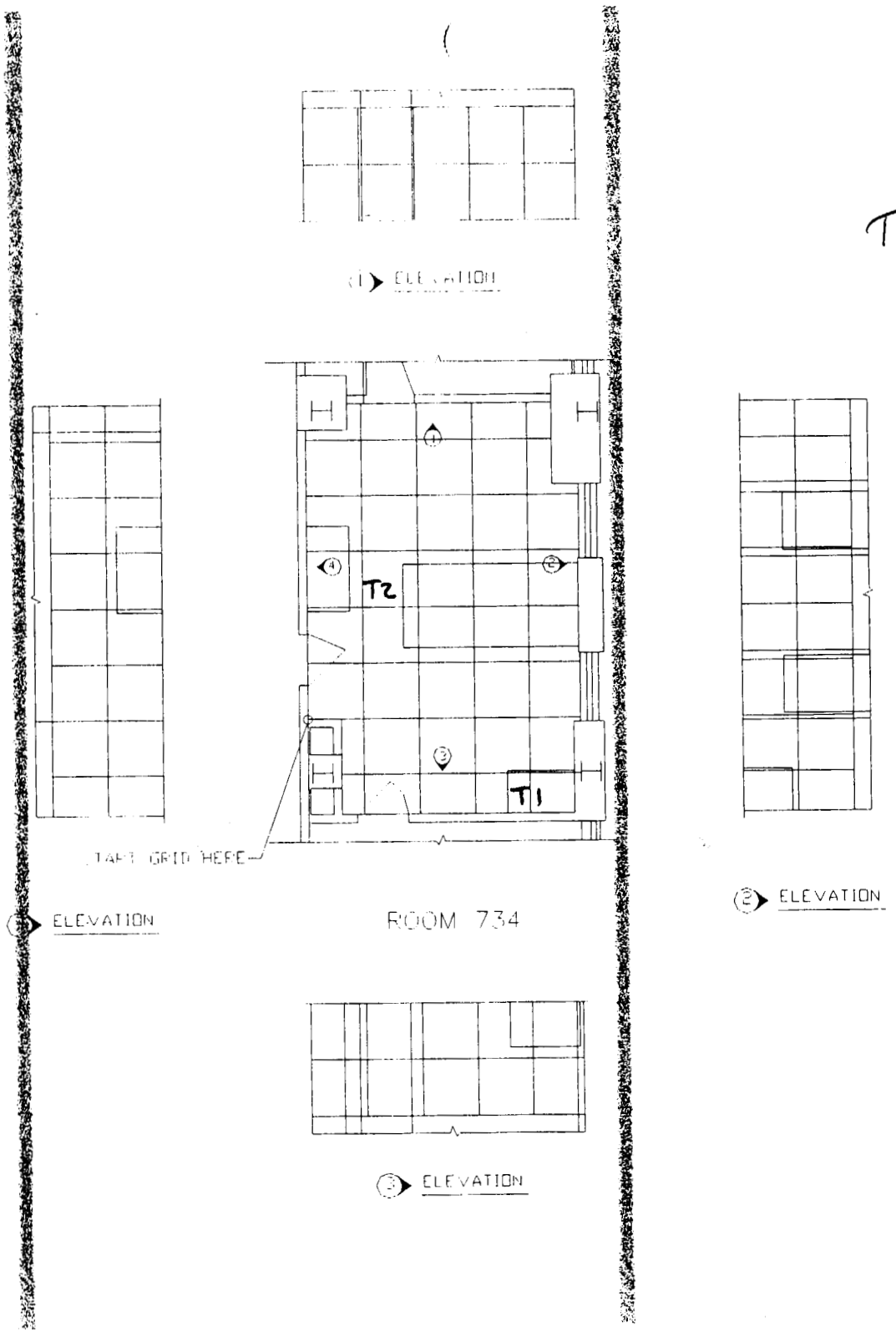
T_3: Bench Top (Stone) - 325



Room 732

8.2.04

AC



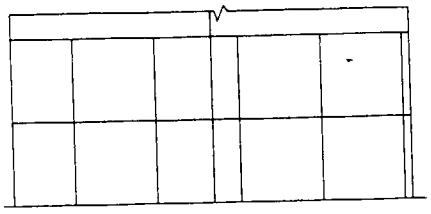
Tritium Readings

T_1: Sink (stone) - 333

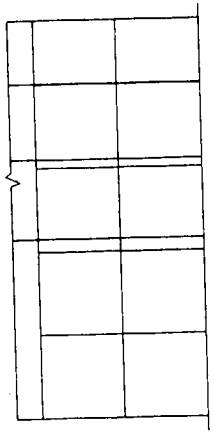
T_2: Floor (Vinyl Tile) - 201

8.3.02

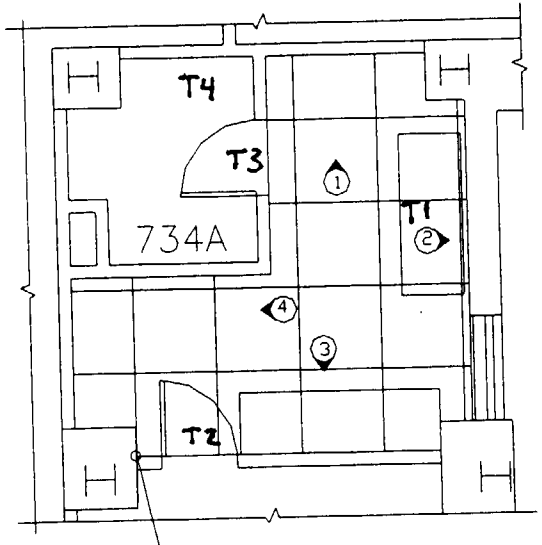
AC



① ELEVATION

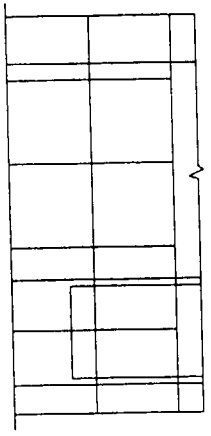


④ ELEVATION

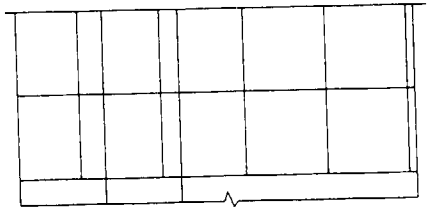


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ROOM 734-1



② ELEVATION

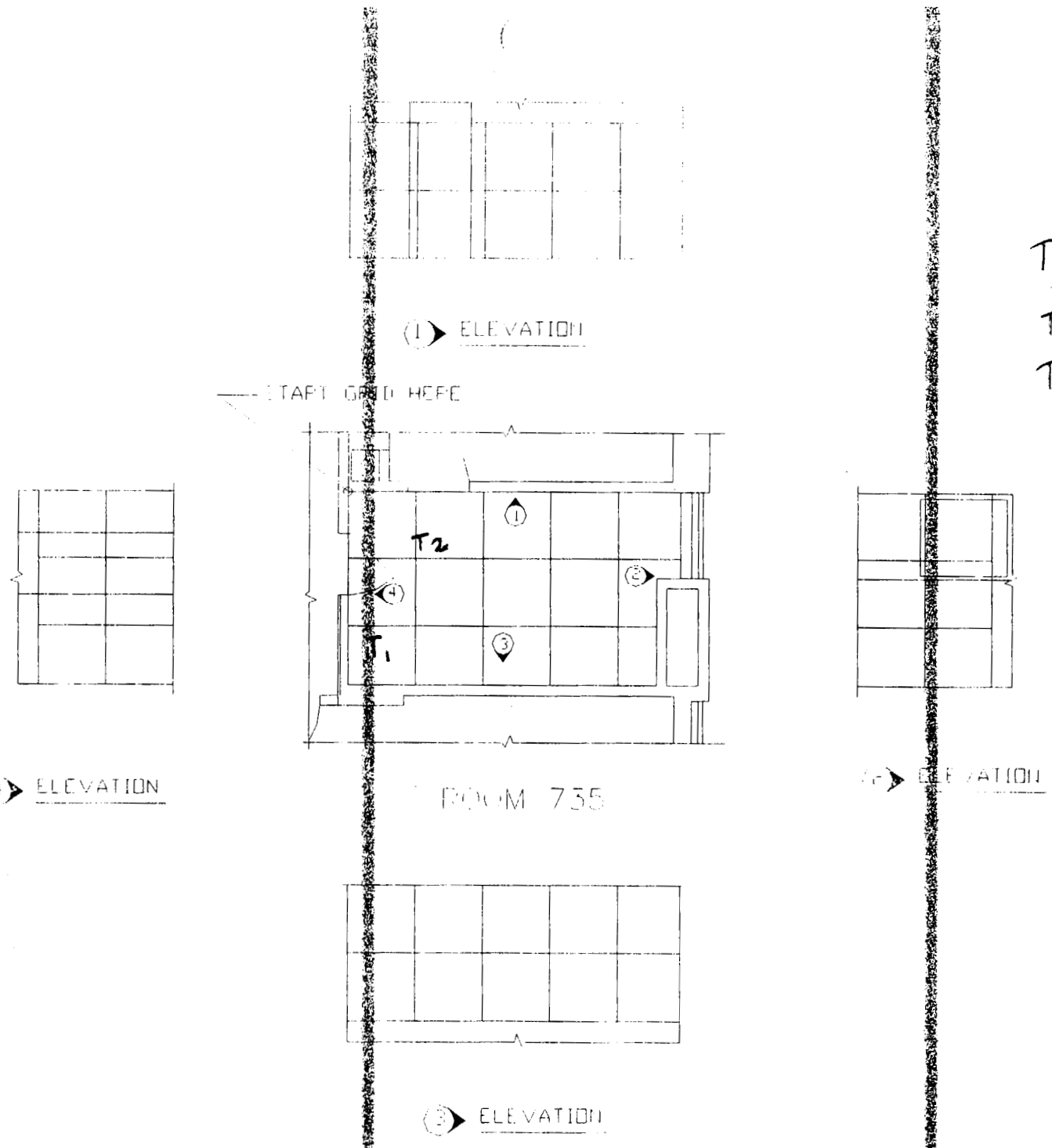


③ ELEVATION

Tritium Readings

T_1: Hood (stainless) - 309
T_2: Floor (Vinyl Tile) - 216
T_3: Floor (Vinyl Tile) - 267
T_4: Sink (Stone) - 221

8.3.04
AE



Tritium Readings

T_1: Sink (Porcelain) - 611

T_2: Floor (Vinyl Tile) - 23

8.2.04

AC

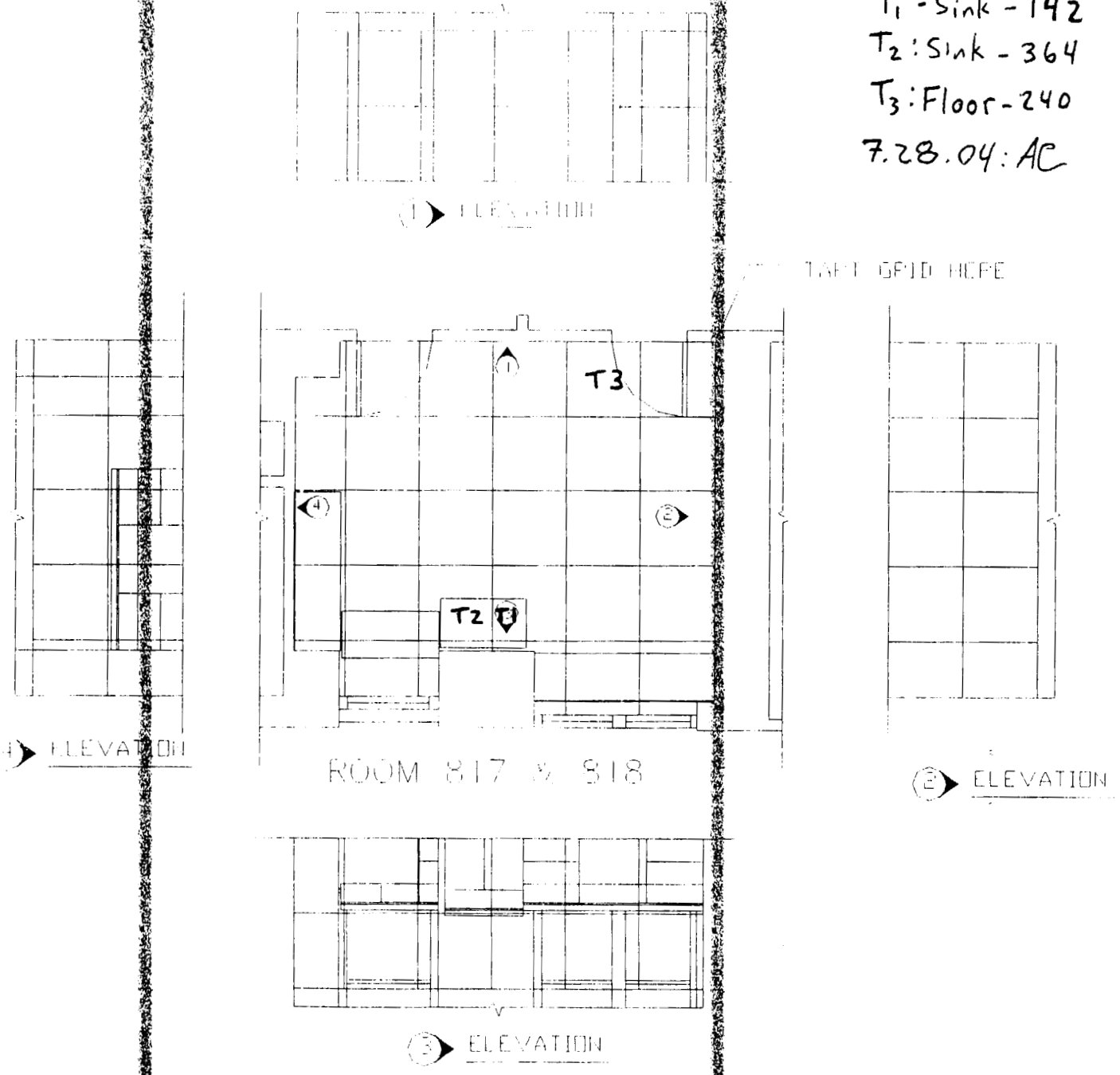
Tritium Readings

T_1 : Sink - 142

T_2 : Sink - 364

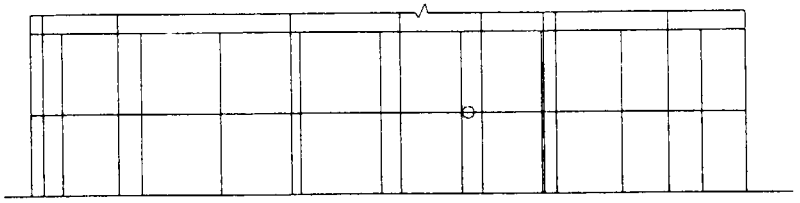
T_3 : Floor - 240

7.28.04 : AC



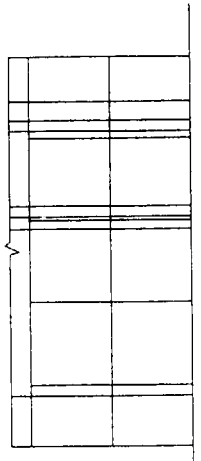
Tritium Readings
T_1: Floor (Vinyl Tile) - 239
T_2: Floor (Vinyl Tile) - 267

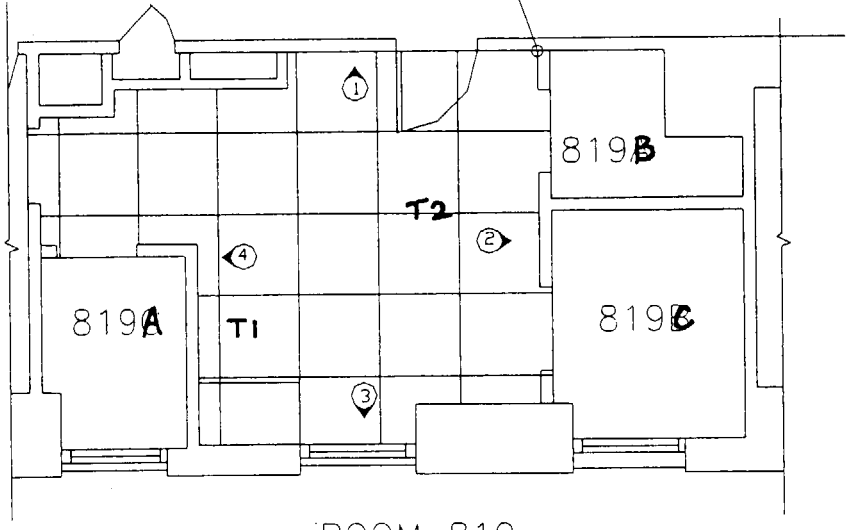
7.30.04
AC



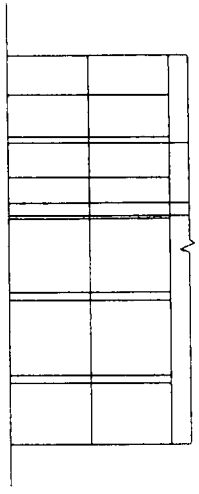
① ELEVATION

START GRID HERE



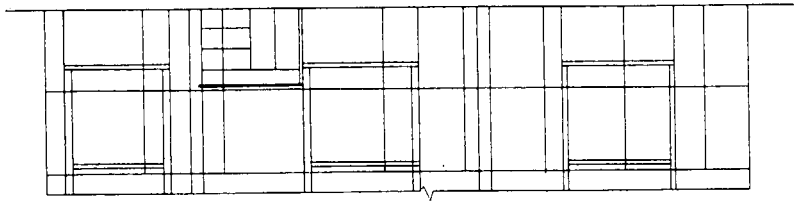


ROOM 819

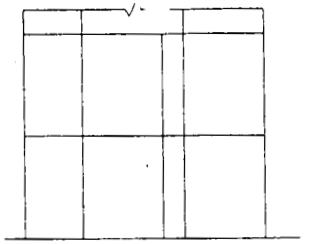


④ ELEVATION

② ELEVATION



③ ELEVATION



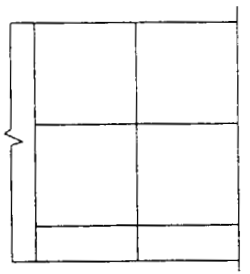
(1) ELEVATION

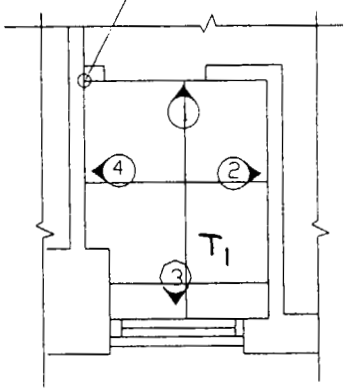
Tritium Readings

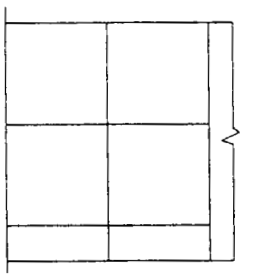
T1: Floor (Vinyl Tile) - 308

7.30.04 AC

START GRID HERE



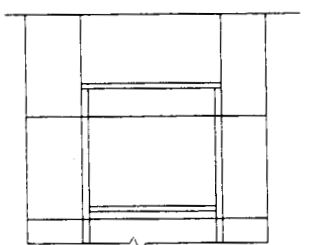




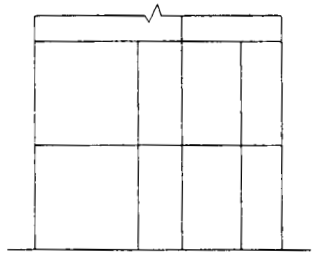
(4) ELEVATION

(2) ELEVATION

ROOM 819A



(3) ELEVATION



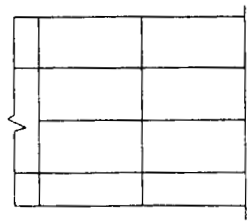
1 ELEVATION

Tritium Readings

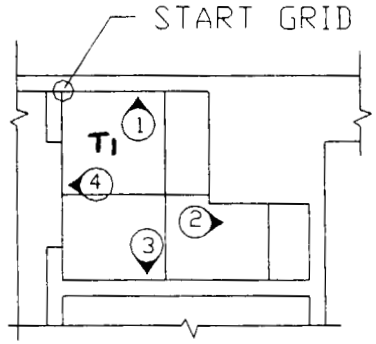
T_1: Bench Top (Synthetic Stone) - 353

7.30.04

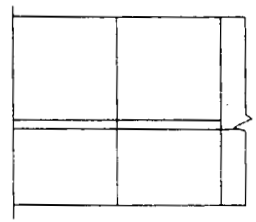
AC



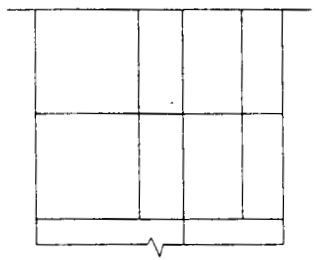
4 ELEVATION



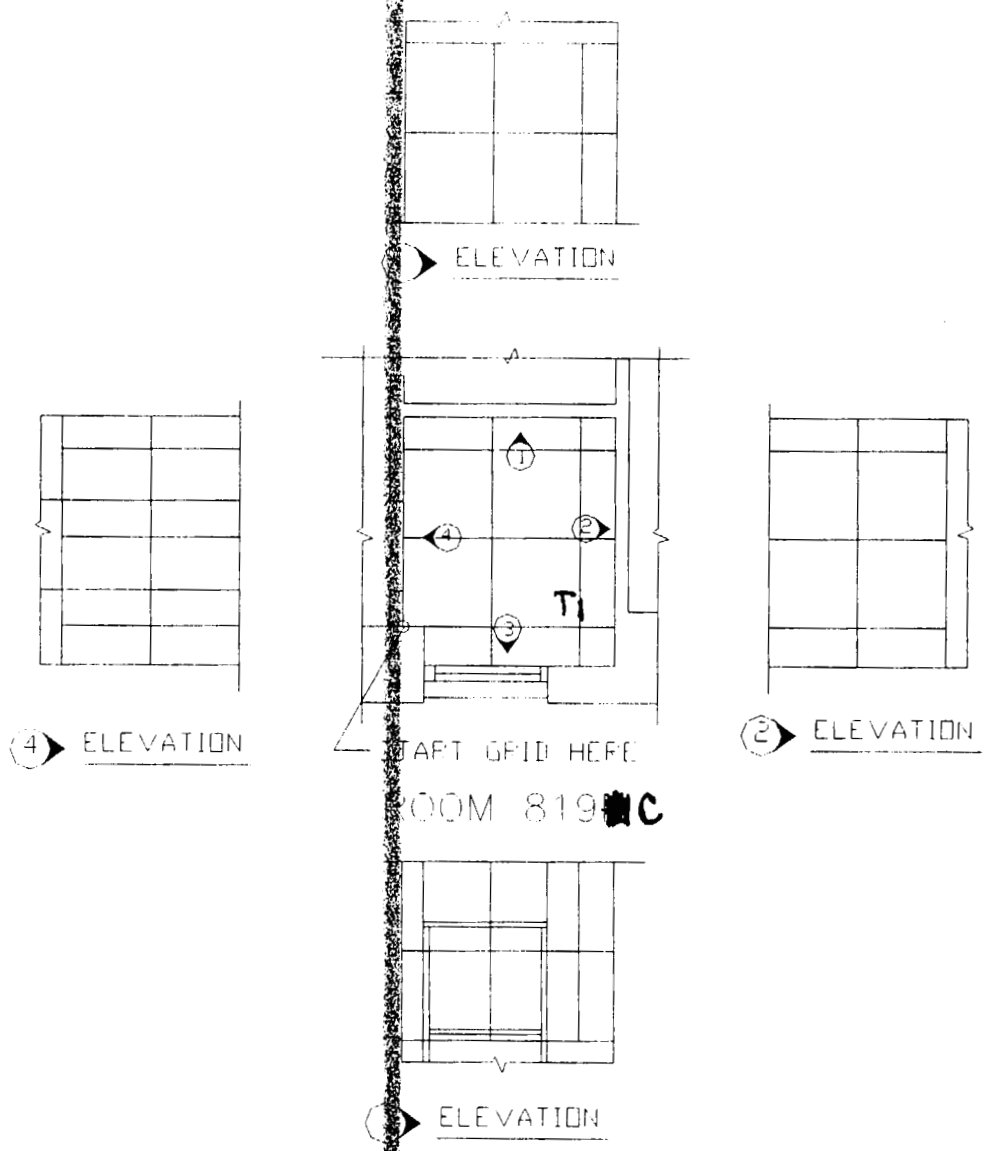
ROOM 819B



2 ELEVATION



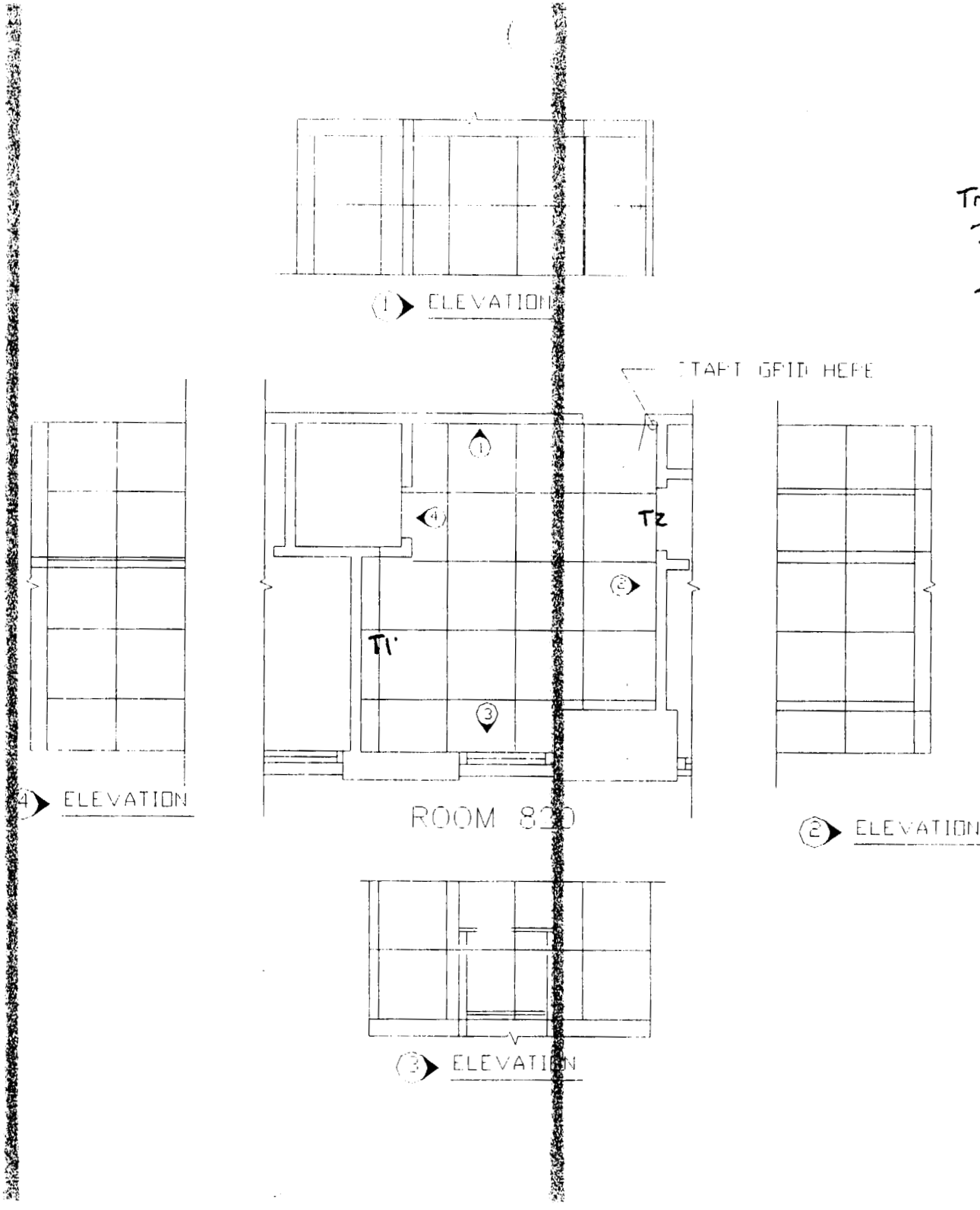
3 ELEVATION



Tritium Readings

T1: Floor (Vinyl Tile) - 25z

7.30.04 AC

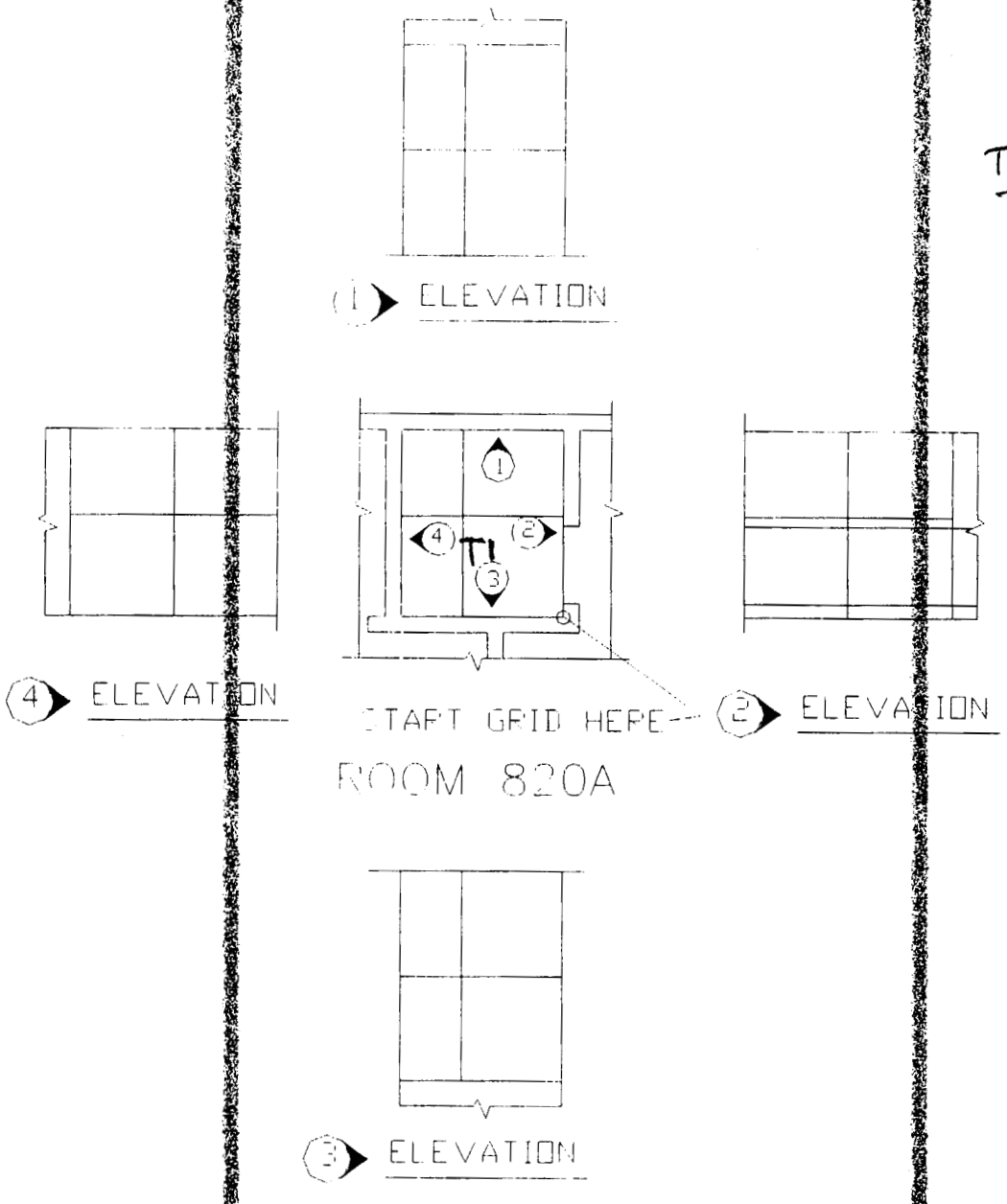


Tritium Readings

T_1: Bench Top (Synthetic Stone) 349

T_2: Floor (Vinyl Tile) - 351

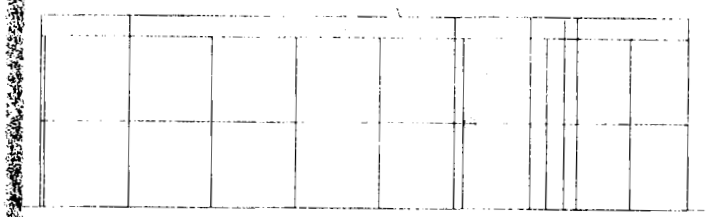
7.30.04 AC



Tritium Readings

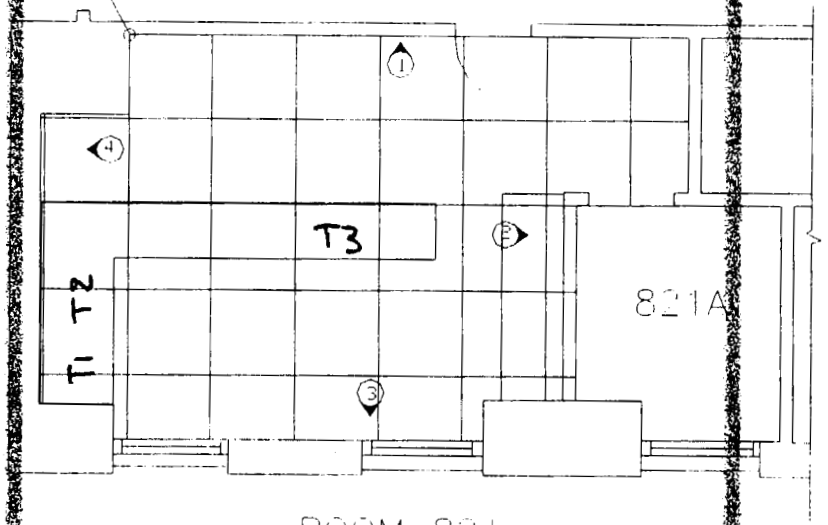
T_1: Floor (Vinyl Tile) - 350

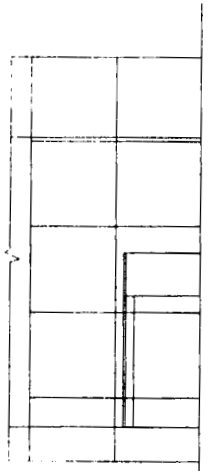
7.30.04 AC



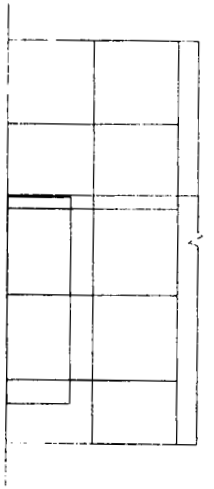
① ELEVATION

START GRID HERE

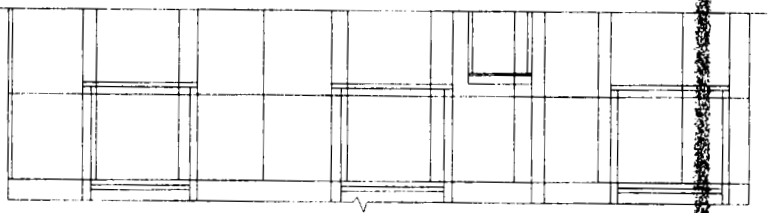




④ ELEVATION



② ELEVATION



③ ELEVATION

Tritium Readings

T_1: Sink surface (stone) - 336

T_2: " " - 326

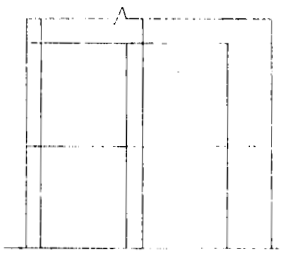
T_3: Bench Tape (stone) - 239

7.30.04: AC

Tritium Readings

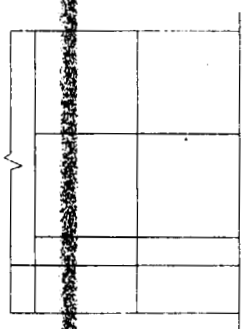
T1: Floor (Vinyl Tile) - 27

7.30.04 : AC

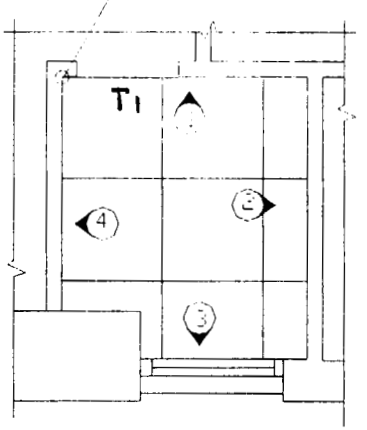


(1) ELEVATION

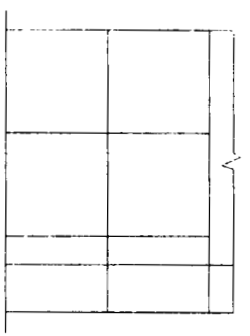
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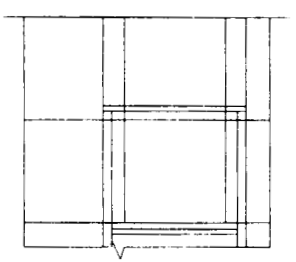
(4) ELEVATION



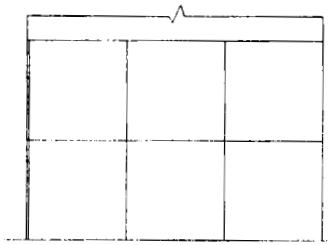
ROOM 821A



(2) ELEVATION



(3) ELEVATION

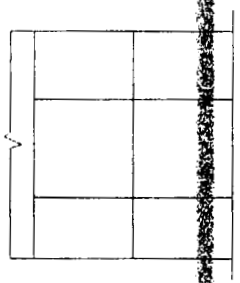


(1) ELEVATION

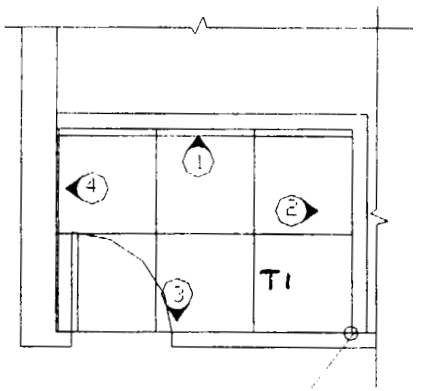
Tritium Readings

T_1: Floor (Vinyl Tile) - 257

7.30.04 AC

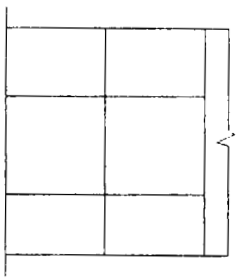


(4) ELEVATION

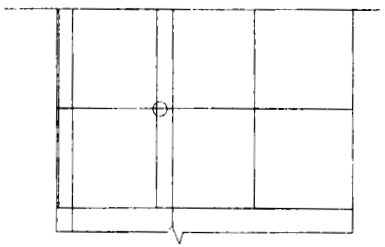


START GRID HERE

ROOM 822



(2) ELEVATION



(3) ELEVATION

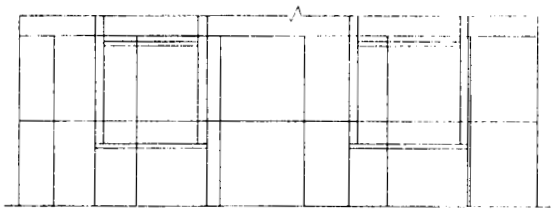
Tritium Readings

T_1: Sink - 324

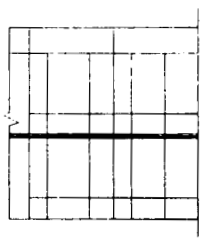
T_2: Sink - 274

7.28.04: AC

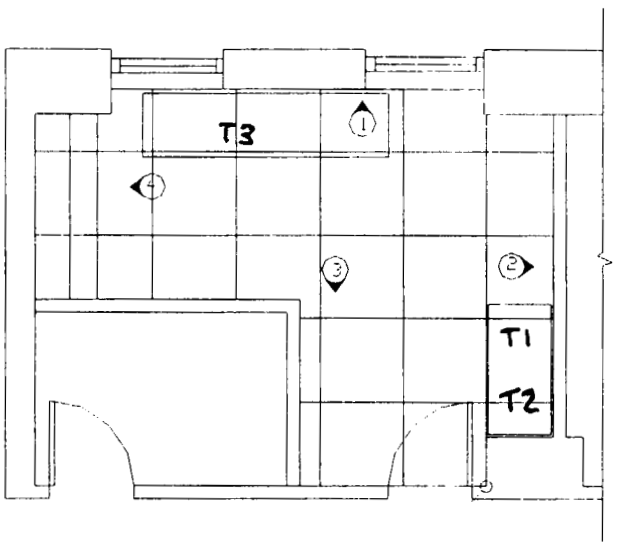
T_3: BenchTop - 761
(Synth. Stone)
7.30.04: AC



(1) ELEVATION

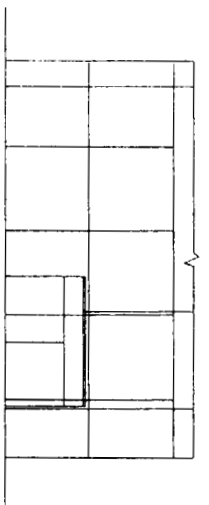


(4) ELEVATION

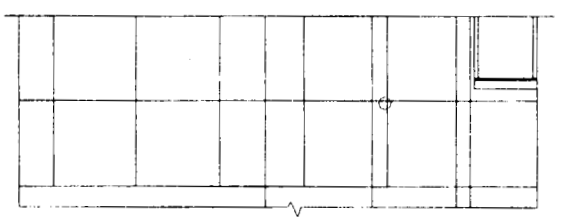


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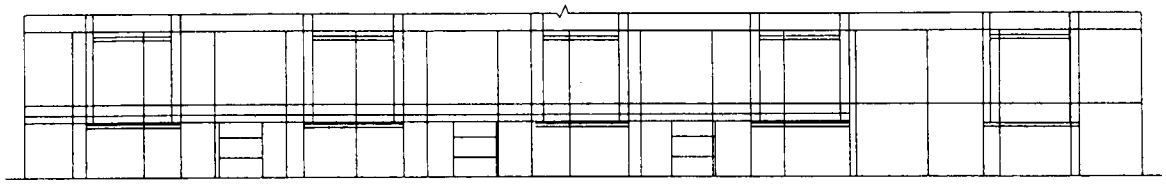
ROOM 823



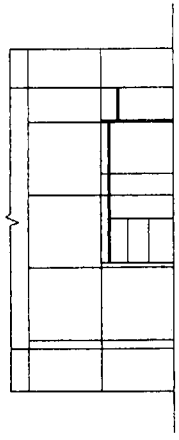
(2) ELEVATION

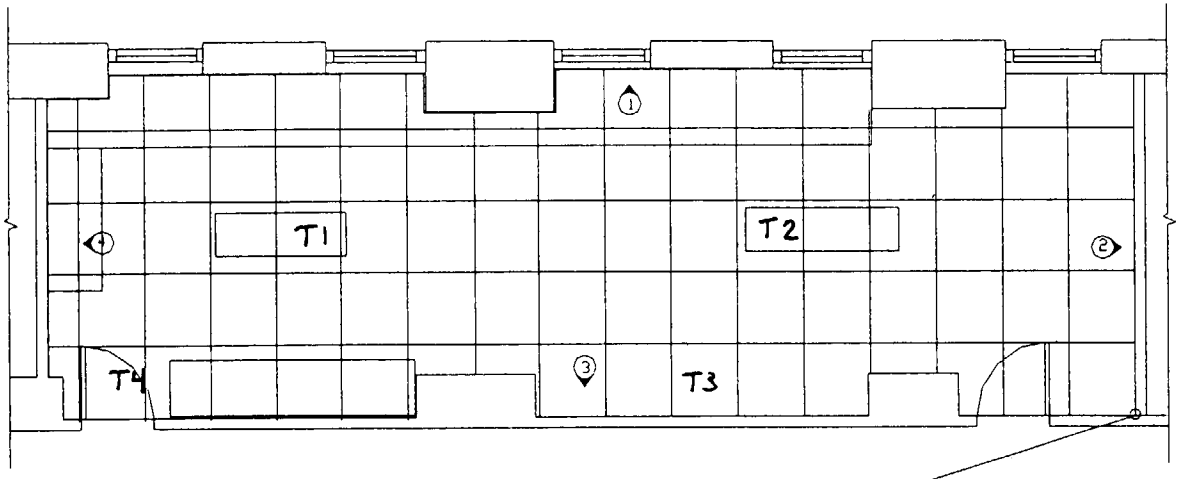


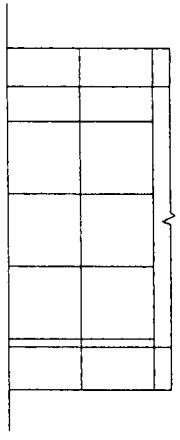
(3) ELEVATION



① ELEVATION





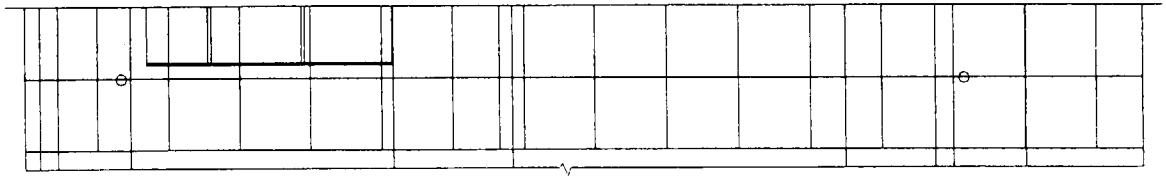


④ ELEVATION

ROOM 824

START GRID HERE

② ELEVATION



③ ELEVATION

Tritium Readings

T_1: Sink Surface (Synthetic Stone) - 296
T_2: Sink Surface (Synthetic Stone) - 253
T_3: Bench Top (Synthetic Stone) - 236
T_4: Floor (Vinyl Tile) - 217

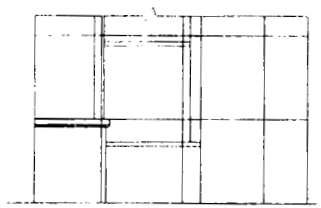
I 3/7 04 AP.

Tritium Readings

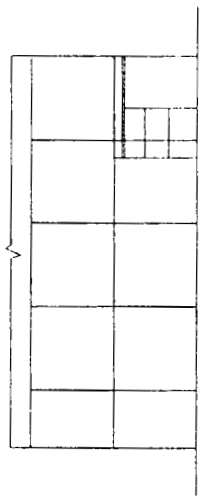
T_1: Sink - 272

T_2: Bench Top - 206

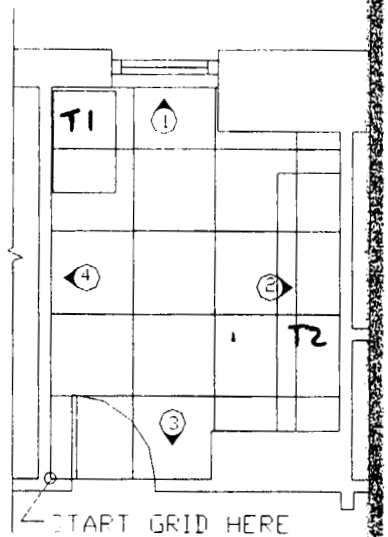
7.28.04 : AC



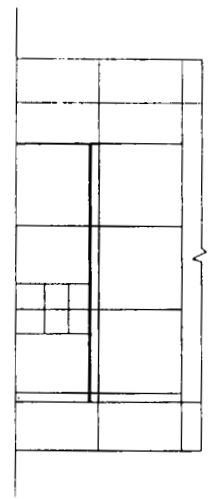
(1) ELEVATION



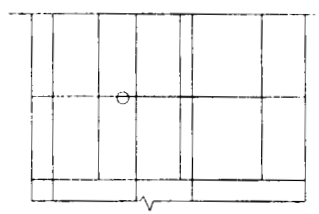
(4) ELEVATION



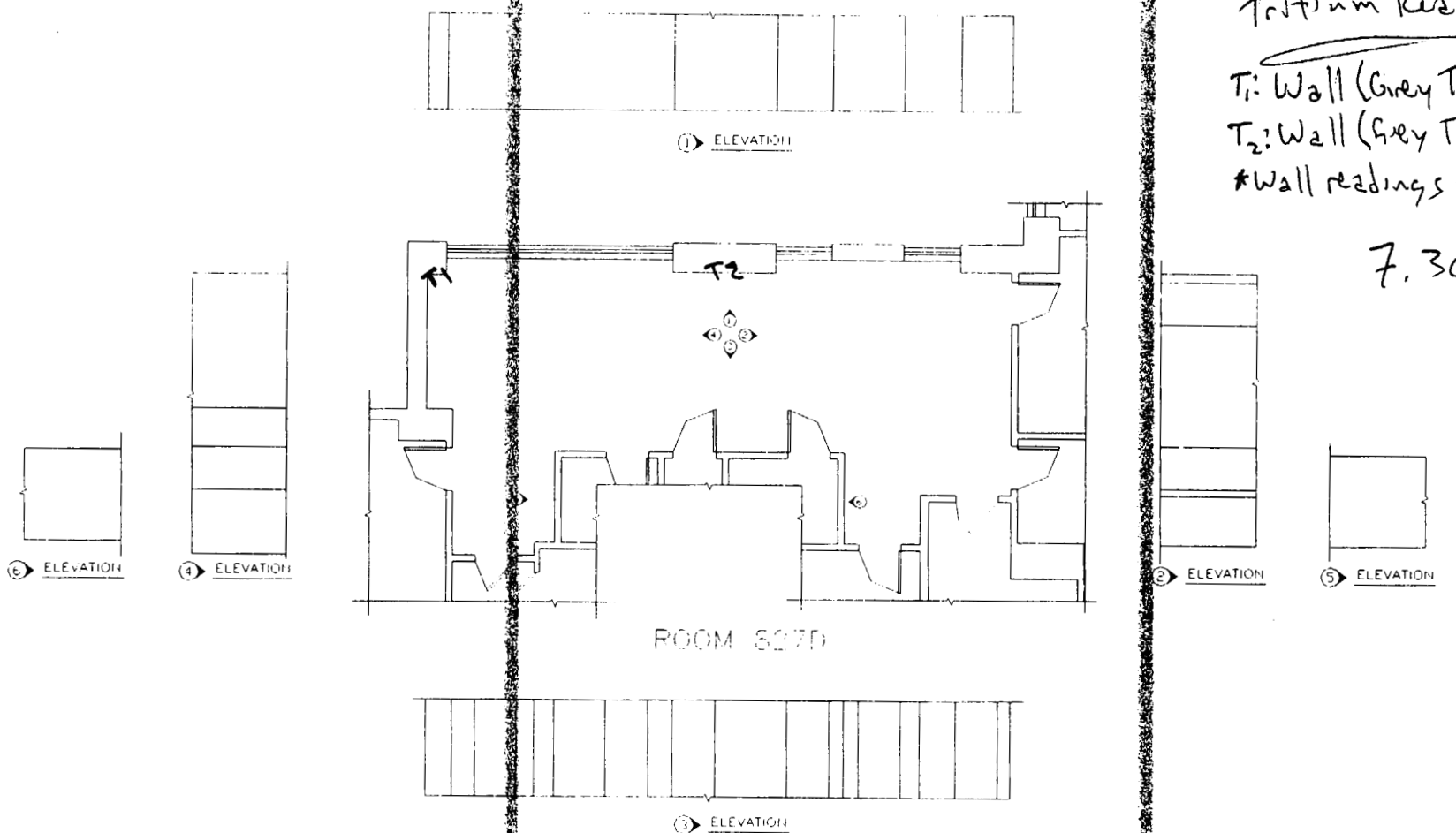
ROOM 825



(2) ELEVATION



(3) ELEVATION



Tritium Readings

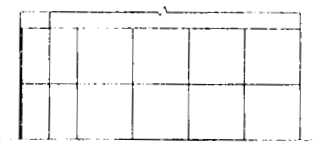
T_1: Wall (Grey Tile) - 283

T_2: Wall (Grey Tile) 272

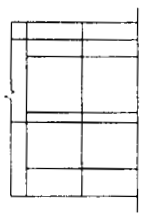
*Wall readings taken @ 1m

7.30.04

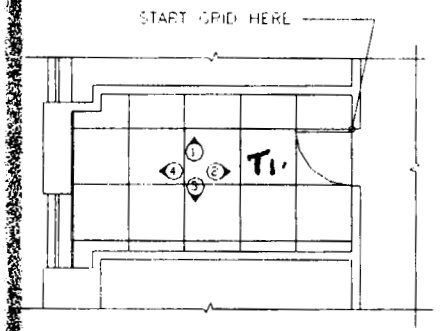
AC



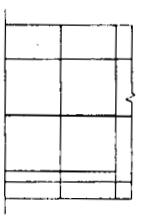
(1) ELEVATION



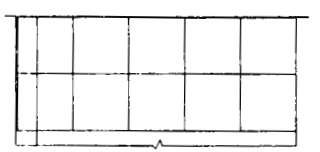
(4) ELEVATION



ROOM 829B



(2) ELEVATION

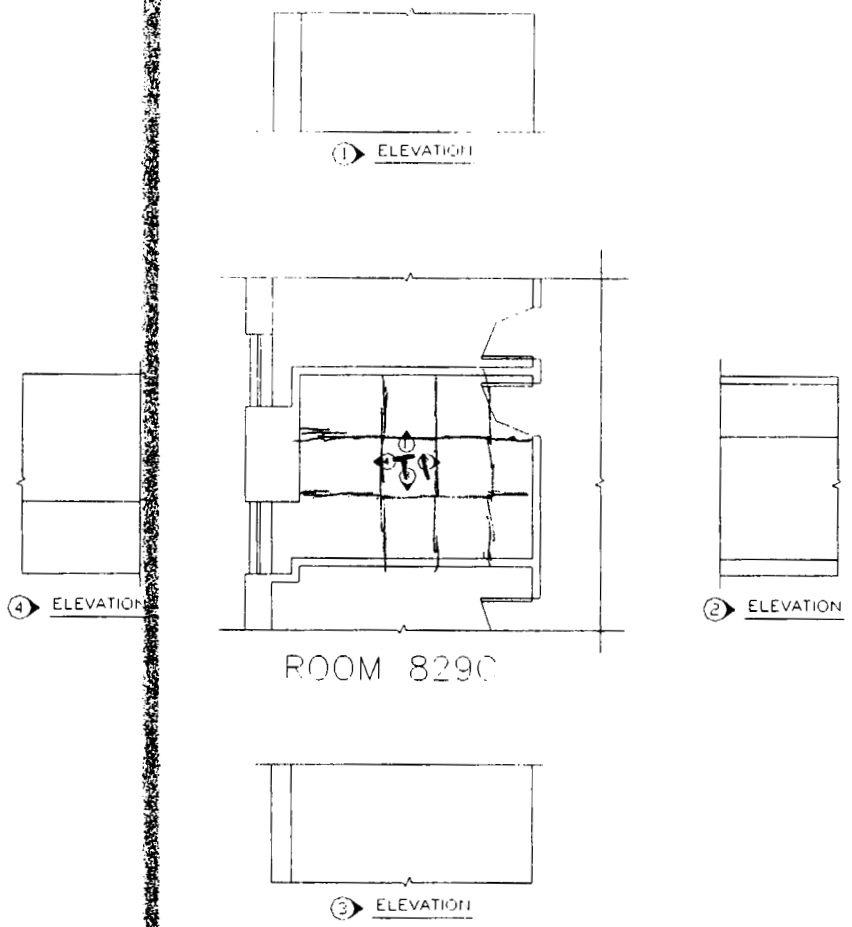


(3) ELEVATION

Tritium Readings

T1: Floor (Red Tile) - 185

7.30.04 AE



Tritium Readings

T_1: Floor (Red Tile) - 205

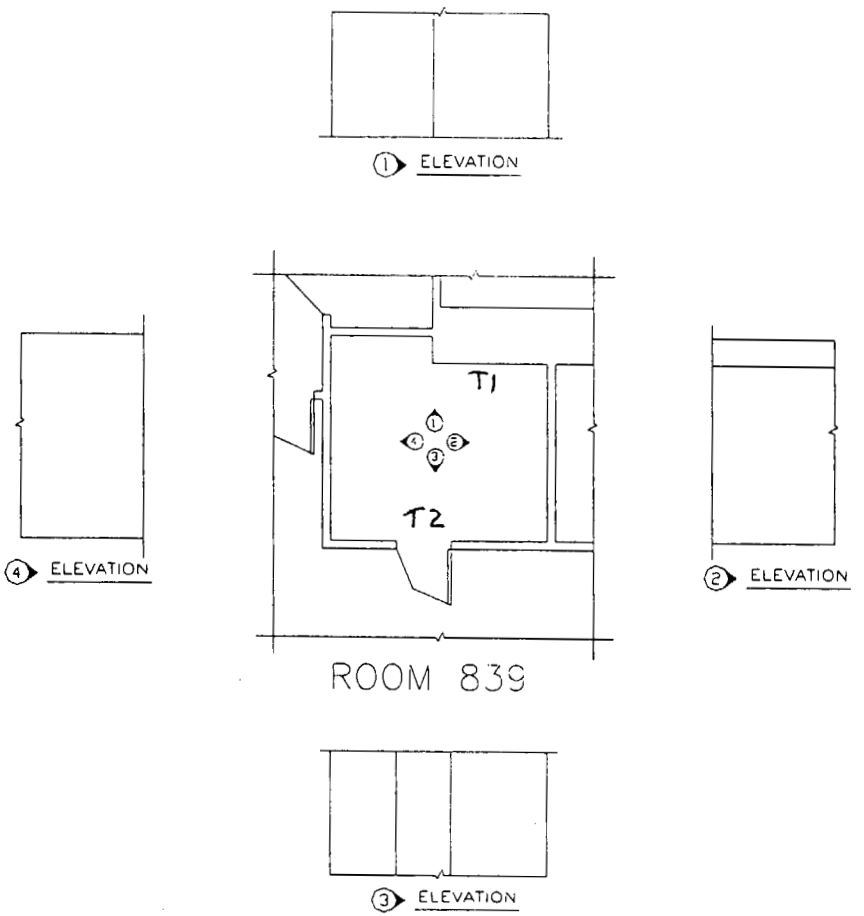
7.30.04 AC

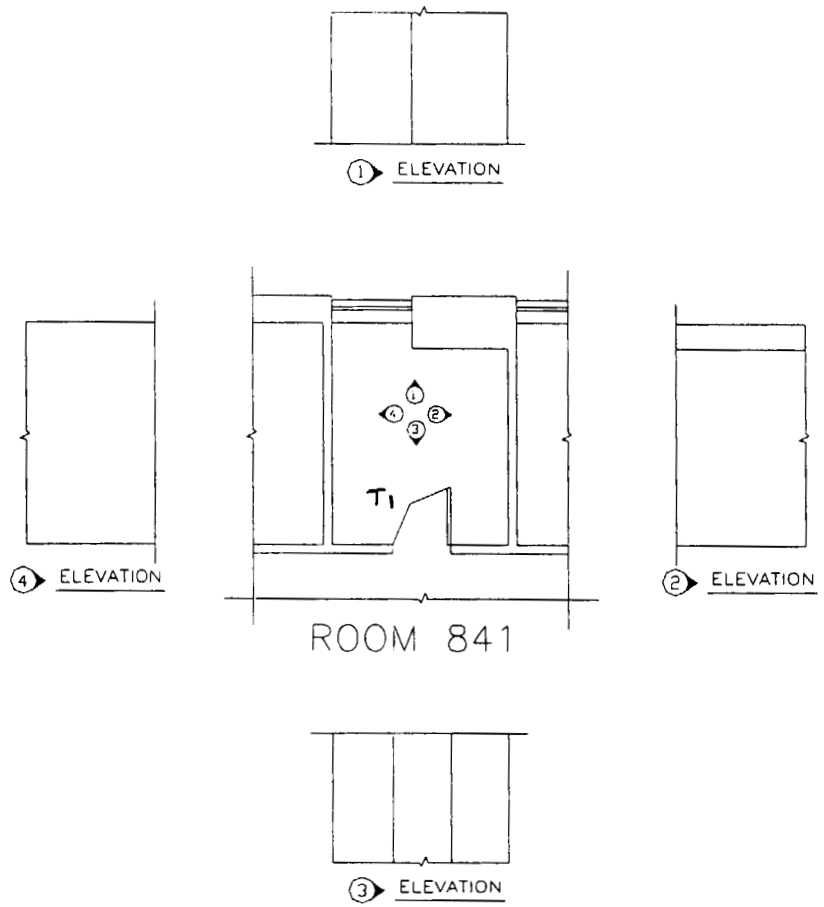
Tritium Readings

T1: Sink (stone) - 474

T2: Floor (Concrete - 336

8.2.04 AC





Tritium Readings

T1: Floor (Vinyl Tile) - 132

7.30.04

AC

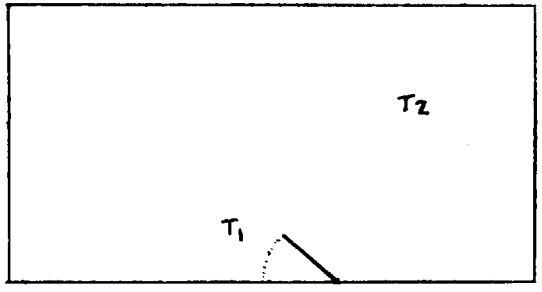
Tritium Readings

T_1: Floor (Vinyl Tile) - 152

T_2: Floor (Vinyl Tile) - 119

7.30.04

AC



842

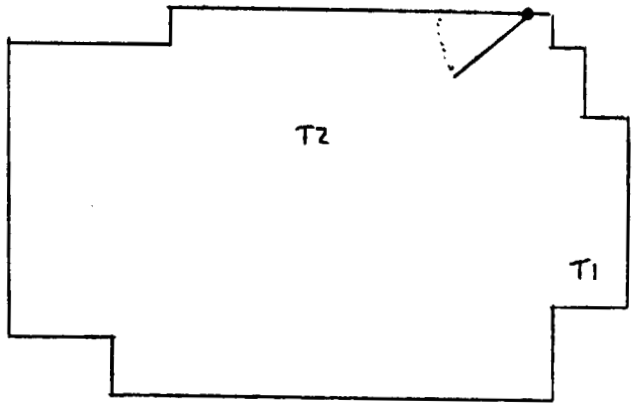
Tritium Readings

T_1: Sink Surface (stainless) - 122

T_2: Floor (Vinyl Tile) - 124

7.30.04

AC



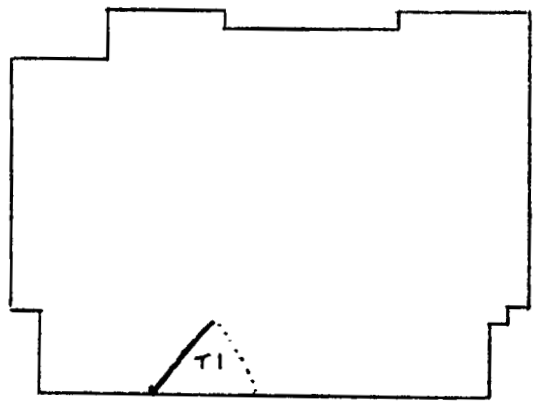
845

Tritium Readings

T1: Floor (Vinyl Tile) - 96

7.30.04

AC

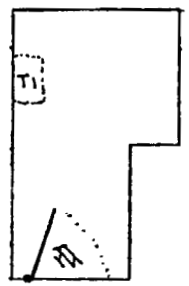


Tritium Readings

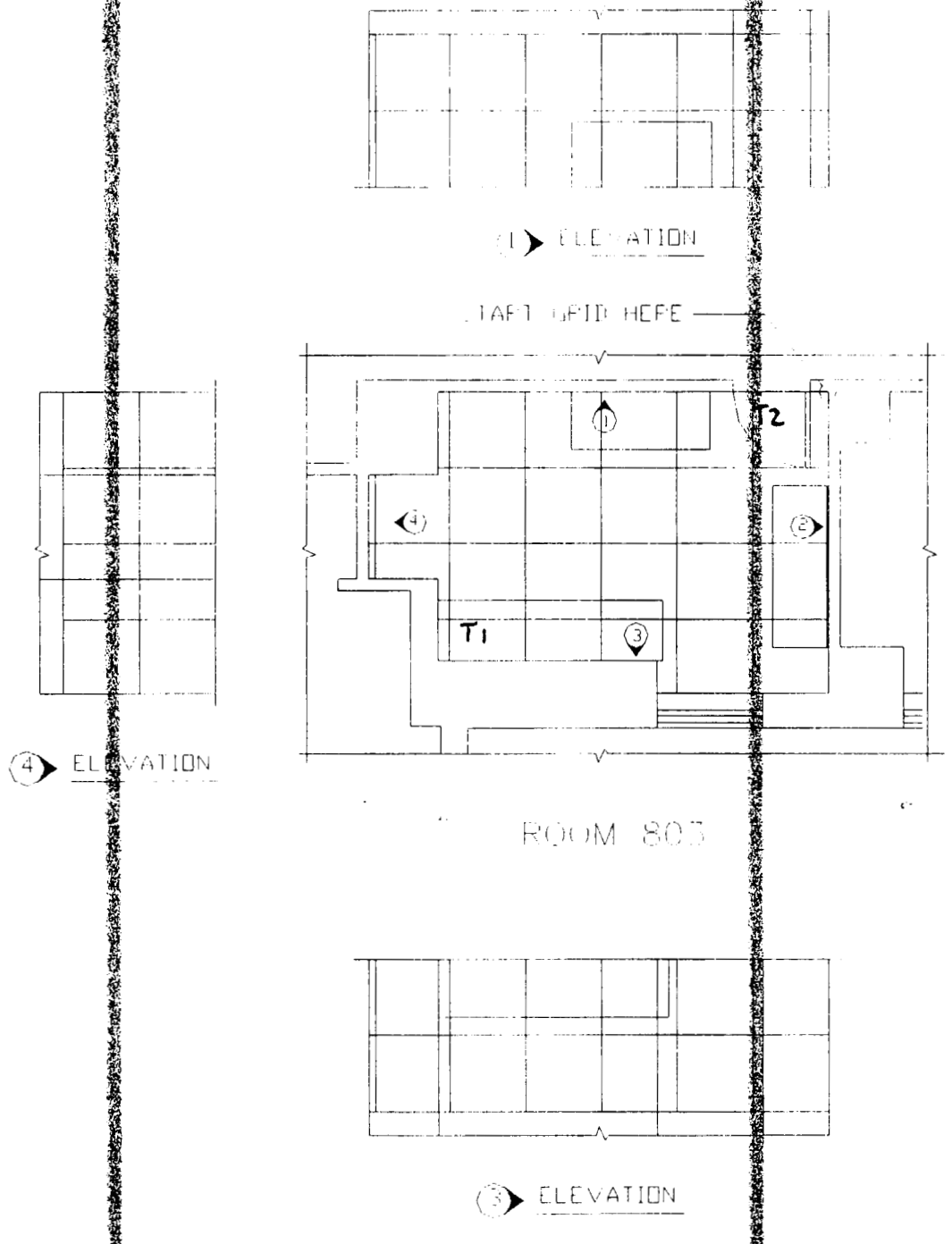
T_1: Sink surface (Porcelain) - 145

7.30.04

AC



850

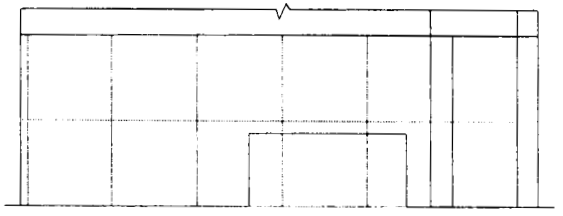


Tritium Readings

T_1: Sink Surface (Stone) - 309

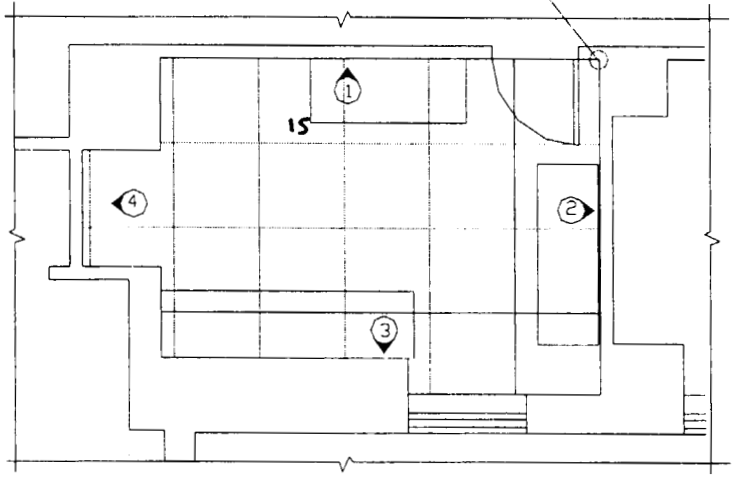
T_2: Floor (Vinyl Tile) - 290

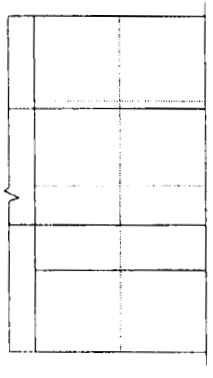
7.30.04 AC



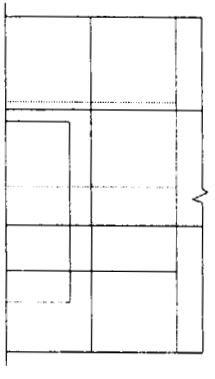
1 ELEVATION

START GRID HERE



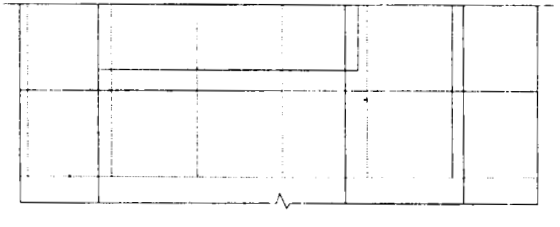


4 ELEVATION



2 ELEVATION

ROOM 803

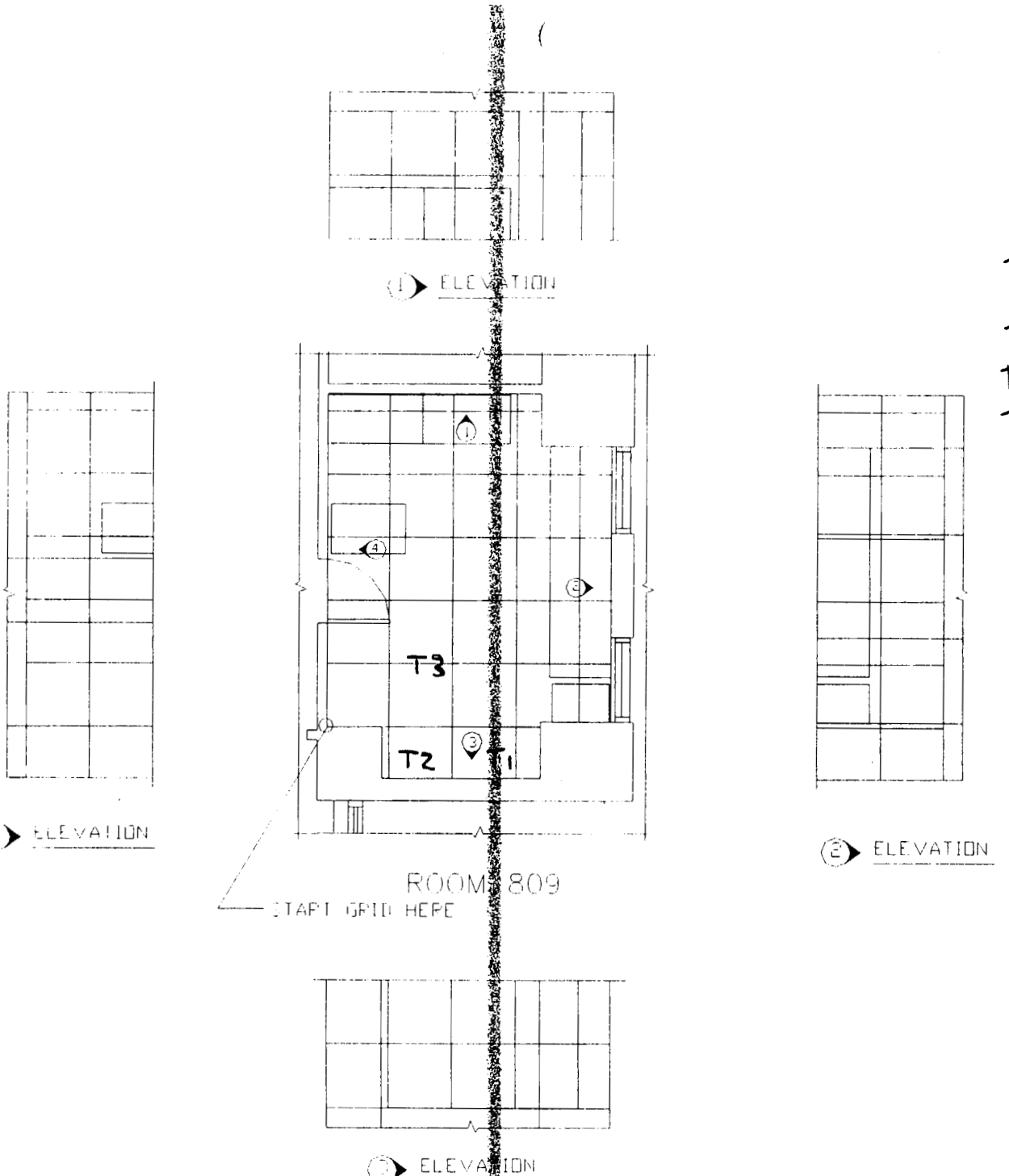


3 ELEVATION

Post-Decontamination Tritium Reading

15 = 247

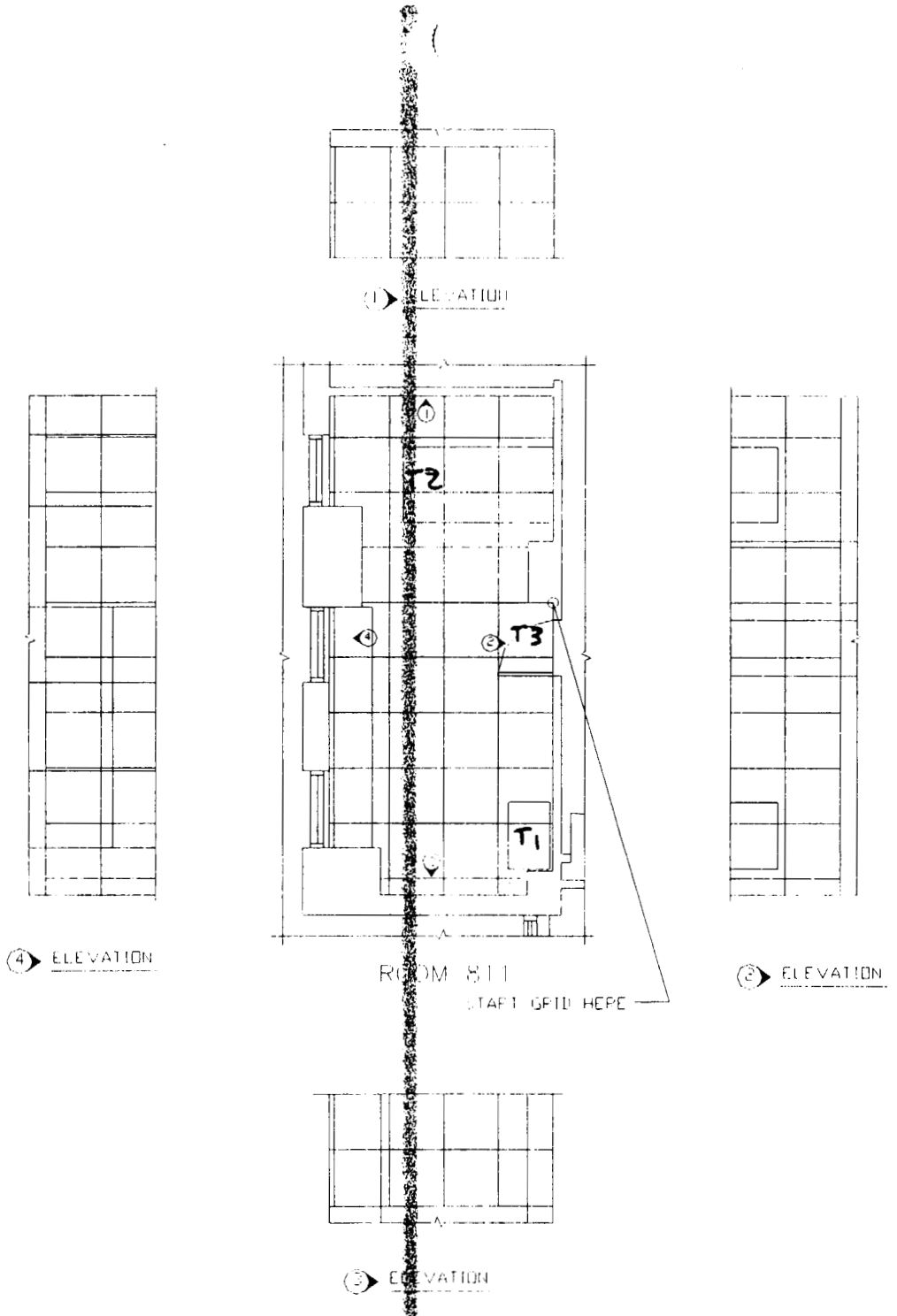
9.2.04 AC



Tritium Readings

T_1: Sink (stone) - 264
T_2: Hoods (stone) - 193
T_3: Floor (Vinyl Tile) - 297

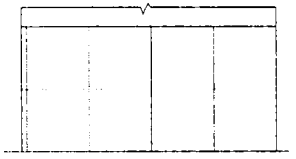
7.30.04 AC



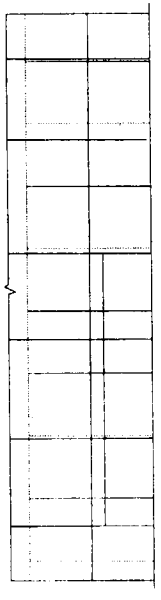
Tritium Readings

T_1: Hood (Formica) - 239
T_2: Sink (stone) - 305
T_3: Floor (Vinyl Tile) - 237

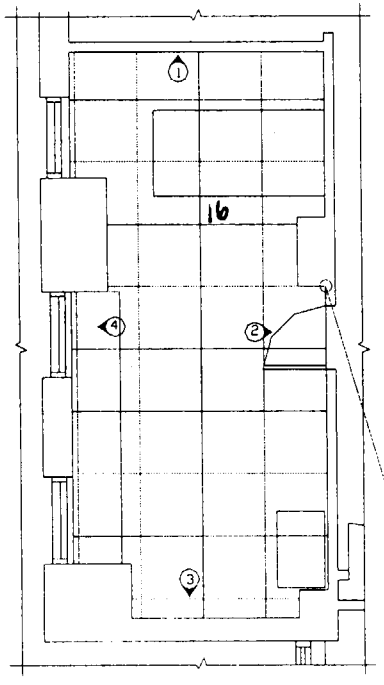
7-30-04 AC



① ELEVATION

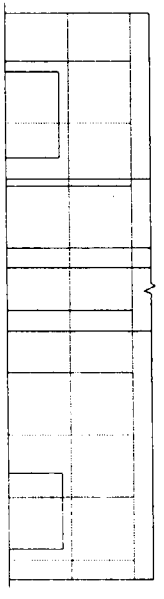


④ ELEVATION

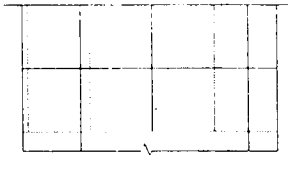


ROOM 811

START GRID HERE



② ELEVATION



③ ELEVATION

Post-Decontamination Tritium Readings

16 = 752

9.2.04 AC

Rms 817/818, 819, 819A, 819B, & 819C Lakeside Hosp

Protocol #:25 Name:Decommissioning 03-May-2004 11:54
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 223212 Nuclide 2 = 130300
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
1	10.00	7.64		9.41		11.00	55.045	608.	10	B BG
2	3.00	16606.6	0.00	115288.	136818.	502.87	162.14	1004	0	E } stds
3	3.00	105635.	170090.	8516.23	887.05	0.00	20.020	997.	0	E } stds
4	3.00	0.39	0.64	0.00	0.00	0.00	0.000	998.	20	E } stds
(1 missing vial)										
6	3.00	0.00	0.00	2.25	2.74	0.00	112.72	582.	7	#1 817/818
7	3.00	2.96	5.33	2.33	2.47	0.00	59.306	583.	16	
8	3.00	0.00	0.00	0.59	0.71	0.00	0.000	589.	25	
9	3.00	0.00	0.00	0.25	0.31	0.00	0.000	593.	24	
10	3.00	0.01	0.00	3.41	4.15	0.00	147.22	581.	25	
11	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	26	
12	3.00	1.09	1.73	1.64	1.86	0.00	5.693	590.	13	
13	3.00	0.00	0.00	2.95	3.59	0.00	68.593	590.	14	
14	3.00	0.67	1.35	0.00	0.00	0.00	74.640	587.	21	
15	3.00	3.70	7.05	1.25	1.08	0.00	49.773	597.	17	
16	3.00	0.00	0.00	0.34	0.42	0.00	0.000	580.	22	
17	3.00	0.00	0.00	0.00	0.00	0.00	147.20	587.	26	
18	3.00	1.56	3.11	0.00	0.00	0.00	71.745	600.	26	
19	3.00	0.00	0.00	0.60	0.73	0.00	647.46	593.	33	
20	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	29	
21	3.00	0.00	0.00	2.97	3.62	0.00	79.698	591.	23	
22	3.00	1.14	1.94	1.25	1.39	0.00	36.976	596.	27	
23	3.00	0.00	0.00	0.35	0.42	0.00	0.000	579.	32	
24	3.00	0.00	0.00	1.59	1.94	0.00	24.312	581.	31	
25	3.00	2.08	4.12	0.31	0.13	0.00	48.820	585.	13	
26	3.00	4.31	8.63	0.00	0.00	0.00	0.000	596.	20	
27	3.00	1.54	3.10	0.00	0.00	0.00	0.000	591.	26	
28	3.00	5.22	10.25	1.04	0.63	0.00	0.000	584.	17	
29	3.00	0.88	1.56	0.81	0.87	0.00	101.46	579.	21	
30	3.00	4.75	9.66	0.00	0.00	0.00	0.000	578.	15	
31	3.00	0.00	0.00	1.92	2.34	0.00	54353.	582.	41	
32	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	32	
33	3.00	0.00	0.00	0.97	1.18	0.00	100.78	586.	35	
34	3.00	4.72	9.08	1.12	0.80	0.00	35.320	603.	20	
35	3.00	0.00	0.00	3.56	4.33	0.00	130.72	602.	31	
36	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	23	
37	3.00	0.00	0.00	0.65	0.79	0.00	92.427	585.	32	
38	3.00	0.00	0.00	3.25	3.96	0.00	120.01	592.	30	
39	3.00	0.48	0.94	0.00	0.00	0.00	0.000	606.	29	
40	3.00	0.00	0.00	0.48	0.59	0.00	0.000	602.	50	
41	3.00	2.95	5.44	1.59	1.57	0.00	18.632	600.	20	
42	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	52	
43	3.00	0.00	0.00	0.00	0.00	0.67	0.000	600.	43	
44	3.00	0.00	0.00	2.42	2.95	0.00	150.00	602.	26	
45	3.00	2.60	4.21	3.57	4.03	0.00	126.31	596.	20	
46	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	19	Rm 817/818 #41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
47	3.00	0.00	0.00	1.87	2.27	0.00	1855.2	602.	17	Rm817/818 #42
48	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	37	
49	3.00	0.00	0.00	0.98	1.20	0.00	0.000	556.	26	
50	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	43	
51	3.00	0.00	0.00	0.65	0.79	0.00	0.000	589.	37	
52	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	36	
53	3.00	0.00	0.00	0.59	0.71	0.00	585.84	601.	45	
54	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	35	
55	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	40	
56	3.00	0.00	0.00	0.25	0.31	0.00	0.000	601.	39	
57	3.00	2.89	5.76	0.00	0.00	0.00	21.007	602.	12	
58	3.00	0.11	0.00	1.32	1.59	0.00	193.48	589.	27	
59	3.00	0.00	0.00	0.12	0.15	0.00	0.000	603.	37	
60	3.00	0.00	0.00	1.64	2.00	0.00	93.868	586.	23	
61	3.00	4.72	8.50	4.06	4.36	0.00	54.941	572.	8	
62	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	32	
63	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	33	
64	3.00	2.07	4.19	0.00	0.00	0.00	0.000	582.	14	
65	3.00	0.17	0.00	1.25	1.51	0.00	0.000	582.	12	
66	3.00	0.00	0.00	3.55	4.32	0.00	215.08	599.	21	
67	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	21	
68	3.00	0.00	0.00	1.58	1.92	0.00	0.000	595.	24	
69	3.00	0.00	0.00	0.81	0.99	0.00	32.320	582.	23	
70	3.00	0.00	0.00	0.53	0.65	0.00	0.000	598.	33	
71	3.00	0.36	0.56	0.59	0.67	0.00	46.302	600.	19	
72	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	31	
73	3.00	2.06	4.15	0.00	0.00	0.00	183.35	590.	17	
74	3.00	0.00	0.00	1.21	1.47	0.00	0.000	597.	16	
75	3.00	0.00	0.00	1.79	2.18	0.00	355.41	587.	17	
76	3.00	0.00	0.00	4.95	6.03	0.00	186.58	588.	16	
77	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	38	
78	3.00	0.68	1.36	0.00	0.00	0.00	326.79	590.	19	
79	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	28	
80	3.00	2.79	5.61	0.00	0.00	0.00	0.000	593.	14	
81	3.00	0.74	0.30	4.21	5.03	0.00	131.21	596.	17	
82	3.00	0.00	0.00	1.88	2.28	0.00	0.000	597.	32	
83	3.00	0.49	0.97	0.00	0.00	0.00	127.08	596.	14	
84	3.00	0.00	0.00	0.92	1.12	0.00	0.000	601.	26	
85	3.00	0.03	0.07	0.00	0.00	0.00	1040.2	555.	16	
86	3.00	6.50	12.58	1.25	0.74	1.33	32.964	605.	9	
87	3.00	0.00	0.00	0.25	0.31	0.67	0.000	590.	11	
88	3.00	0.00	0.00	1.10	1.34	0.00	311.49	601.	28	
89	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	34	
90	3.00	2.95	5.53	1.59	1.57	0.00	71.157	581.	5	#
91	3.00	0.00	0.00	0.00	0.00	0.00	0.000	562.	16	86 8/7/818
(1 missing vial)										
93	3.00	0.00	0.00	0.59	0.71	0.00	0.000	587.	23	#1 white
94	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	27	8/7/818
95	3.00	1.11	1.80	1.53	1.73	0.00	114.29	598.	17	
96	3.00	2.34	4.72	0.00	0.00	0.00	47.720	588.	16	
97	3.00	0.00	0.00	3.92	4.77	0.00	98.131	596.	26	
98	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	16	
99	3.00	4.83	9.66	0.00	0.00	0.00	26.733	597.	12	
100	3.00	2.82	5.21	1.32	1.27	0.00	96.670	612.	23	
101	3.00	0.28	0.40	0.59	0.68	0.00	64.870	601.	23	
102	3.00	1.95	3.95	0.00	0.00	0.00	140.22	586.	18	8/7/818 #[illegible]white

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
103	3.00	6.68	13.42	0.00	0.00	0.00	29.242	593.	16	8/17/818 # 11 Whi
104	3.00	0.00	0.00	0.59	0.72	0.00	0.000	593.	34	
105	3.00	0.00	0.00	1.54	1.87	0.00	37.263	596.	19	
06	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	29	
107	3.00	0.00	0.00	0.00	0.00	0.67	0.000	596.	29	
108	3.00	0.00	0.00	0.59	0.71	0.00	49.489	609.	26	
109	3.00	0.29	0.20	1.36	1.61	0.00	154.14	588.	18	
110	3.00	0.00	0.00	0.59	0.71	0.00	83.929	589.	23	
111	3.00	1.03	1.69	1.25	1.40	0.00	107.24	610.	18	
112	3.00	0.00	0.00	1.14	1.39	1.33	1877.8	609.	18	#20 white 8
(8 missing vials)										
121	3.00	0.25	0.50	0.00	0.00	0.00	0.000	608.	8	819 #1
122	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	35	
123	3.00	0.00	0.00	0.83	1.01	2.00	312.99	584.	30	
124	3.00	0.00	0.00	0.00	0.00	1.67	0.000	575.	29	
125	3.00	0.11	0.23	0.00	0.00	0.00	0.000	587.	17	
126	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	36	
127	3.00	0.00	0.00	0.59	0.71	0.00	134.71	597.	32	
128	3.00	0.00	0.00	1.52	1.85	0.00	179.48	573.	25	
129	3.00	0.00	0.00	2.25	2.74	0.00	144.16	601.	23	
130	3.00	0.00	0.00	2.02	2.46	0.00	94.177	578.	24	
131	3.00	0.00	0.00	0.29	0.36	0.00	0.000	588.	21	
132	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	28	
133	3.00	2.63	5.27	0.00	0.00	0.00	30.375	595.	22	
134	3.00	1.33	2.70	0.00	0.00	0.00	137.11	585.	18	
135	3.00	0.00	0.00	0.92	1.12	0.00	0.000	591.	24	
136	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	23	
137	3.00	0.00	0.00	1.91	2.32	0.00	0.000	595.	18	
38	3.00	0.64	0.47	2.92	3.47	0.00	150.55	597.	20	
39	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	41	
140	3.00	1.06	2.14	0.00	0.00	0.00	0.000	594.	21	
141	3.00	0.74	1.48	0.00	0.00	0.33	0.000	596.	23	
142	3.00	3.63	6.90	1.21	1.04	0.00	25.795	600.	21	
143	3.00	5.60	11.30	1.10	0.65	0.00	19.976	553.	12	
144	3.00	0.00	0.00	5.32	6.48	0.00	121.77	588.	15	
145	3.00	4.78	9.51	0.00	0.00	0.00	0.000	604.	14	
146	3.00	1.80	3.57	0.00	0.00	2.33	89.854	604.	18	
147	3.00	0.00	0.00	1.28	1.55	0.00	0.000	590.	20	
148	3.00	1.63	2.27	3.65	4.24	0.00	43.713	584.	16	
149	3.00	1.23	2.46	0.00	0.00	0.00	0.000	599.	11	
150	3.00	2.96	4.50	5.04	5.78	0.33	77.195	602.	13	
151	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	27	
152	3.00	0.00	0.00	0.91	1.11	0.00	0.000	586.	37	
153	3.00	1.28	2.58	0.00	0.00	0.00	0.000	591.	25	
154	3.00	0.00	0.00	0.47	0.57	0.00	0.000	578.	26	
155	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	21	
156	3.00	0.00	0.00	0.59	0.71	0.00	0.000	594.	23	
157	3.00	1.56	2.91	0.92	0.93	1.33	51.392	576.	8	
158	3.00	3.79	7.38	1.44	1.28	0.00	74.744	565.	19	
159	3.00	0.28	0.57	0.00	0.00	0.00	0.000	587.	21	
160	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	29	
161	3.00	0.53	0.96	0.42	0.45	0.00	62.393	567.	19	
162	3.00	0.00	0.00	0.36	0.44	0.00	0.000	577.	17	
163	3.00	0.00	0.00	0.00	0.00	0.00	0.000	9.90	39	E
64	3.00	0.00	0.00	1.66	2.02	0.00	1062.2	583.	14	
165	3.00	0.00	0.00	0.00	0.00	0.00	0.000	13.1	43	Rm E 819 #45

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
166	3.00	0.00	0.00	1.35	1.65	0.00	111.03	578.	19	-Rm819#46
167	3.00	0.62	0.79	1.62	1.90	0.00	114.40	586.	20	
168	3.00	0.00	0.00	2.69	3.27	0.00	109.10	578.	25	
69	3.00	0.72	1.37	0.31	0.29	0.67	0.000	584.	15	
170	3.00	0.90	1.03	2.80	3.30	0.00	140.30	577.	14	•
171	3.00	0.00	0.00	5.03	6.12	0.00	74.894	577.	19	
172	3.00	4.63	8.86	1.68	1.48	0.33	31.049	589.	15	
173	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	27	
174	3.00	0.00	0.00	1.59	1.93	0.00	323.38	560.	28	
175	3.00	0.78	0.81	2.75	3.25	0.00	33.781	585.	21	
176	3.00	0.00	0.00	2.58	3.13	0.00	382.42	594.	22	
177	3.00	2.24	4.43	0.57	0.42	0.00	121.66	569.	8	
178	3.00	0.01	0.02	0.00	0.00	0.00	0.000	584.	12	
179	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	23	
180	3.00	4.64	9.19	0.09	0.00	0.00	39.295	605.	12	•
181	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	32	
182	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	26	
183	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	24	
184	3.00	0.00	0.00	0.20	0.24	0.00	0.000	593.	39	
185	3.00	3.16	6.32	0.00	0.00	0.00	0.000	596.	15	
186	3.00	1.86	3.75	0.00	0.00	0.00	61.546	590.	11	
187	3.00	0.00	0.00	1.30	1.58	0.00	3226.4	587.	36	
188	3.00	0.73	0.15	4.72	5.66	0.00	97.151	583.	22	
189	3.00	1.59	2.47	2.67	3.05	0.00	118.98	582.	18	
190	3.00	0.00	0.00	0.64	0.78	0.00	0.000	585.	11	•
191	3.00	0.00	0.00	5.25	6.39	0.00	155.75	584.	17	
192	3.00	0.00	0.00	2.94	3.58	0.00	102.71	591.	24	
193	3.00	1.43	2.51	1.19	1.27	0.00	89.122	603.	18	
94	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	32	
195	3.00	0.00	0.00	0.28	0.34	0.00	0.000	592.	30	
196	3.00	1.72	3.44	0.00	0.00	0.00	2082.3	601.	19	
197	3.00	0.00	0.00	1.78	2.16	0.00	236.73	614.	18	
198	3.00	0.00	0.00	0.14	0.17	0.00	0.000	602.	20	
199	3.00	0.00	0.00	0.59	0.71	0.00	0.000	595.	21	
200	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	32	•
201	3.00	0.00	0.00	3.25	3.96	0.00	114.27	597.	25	
202	3.00	0.00	0.00	1.53	1.87	0.00	0.000	598.	29	
203	3.00	3.34	6.68	0.00	0.00	0.00	41.098	596.	19	
204	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	26	
205	3.00	1.81	3.16	1.59	1.71	0.00	65.514	604.	12	
206	3.00	2.36	4.72	0.00	0.00	0.00	23.754	600.	19	
207	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	33	
208	3.00	1.47	2.98	0.00	0.00	0.00	0.000	585.	11	
209	3.00	0.00	0.00	2.21	2.68	0.00	0.000	601.	31	
210	3.00	1.08	1.55	2.20	2.54	0.00	9.790	602.	18	•
211	3.00	0.00	0.00	0.23	0.28	0.00	0.000	598.	26	
212	3.00	0.15	0.00	2.13	2.58	0.00	109.87	603.	18	
213	3.00	0.00	0.00	2.52	3.06	0.00	44.038	599.	29	
214	3.00	0.42	0.80	0.17	0.15	0.00	64.244	606.	21	
215	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	24	
216	3.00	0.00	0.00	3.19	3.87	0.00	256.30	599.	26	
217	3.00	0.00	0.00	0.19	0.24	0.00	31.460	572.	23	
218	3.00	2.98	6.00	0.00	0.00	0.00	0.000	591.	20	
19	3.00	2.98	5.18	3.05	3.35	1.00	40.312	584.	12	#99, Rm 819
missing vial)										
221	3.00	0.00	0.00	0.07	0.09	0.00	0.000	596.	28	819 #1 whil

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
222	3.00	0.00	0.00	1.59	1.93	0.00	733.36	592.	25	
223	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	20	819 #3 White
(5 missing vials)										
29	3.00	0.00	0.00	4.25	5.17	0.00	65.429	603.	24	819A #1
230	3.00	1.62	3.22	0.00	0.00	0.00	0.000	600.	11	
231	3.00	0.00	0.00	0.89	1.08	0.00	624.51	599.	18	
232	3.00	1.67	2.70	2.39	2.71	0.00	41.576	583.	12	
233	3.00	0.00	0.00	3.77	4.58	0.00	85.252	582.	25	
234	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	28	
235	3.00	0.00	0.00	0.61	0.75	0.00	90.510	575.	28	
236	3.00	0.99	2.03	0.00	0.00	0.00	0.000	570.	14	
237	3.00	0.00	0.00	0.29	0.35	0.00	0.000	591.	25	
238	3.00	0.13	0.00	1.18	1.42	0.00	171.79	604.	18	
239	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	27	
240	3.00	1.60	3.26	0.00	0.00	0.00	203.17	574.	18	
241	3.00	0.00	0.00	1.92	2.34	0.00	1144.4	597.	13	
242	3.00	3.17	6.34	0.00	0.00	0.00	23.374	597.	14	
243	3.00	2.48	4.98	0.00	0.00	0.00	0.000	591.	27	
244	3.00	0.00	0.00	0.00	0.00	0.00	0.000	12.8	60	E
245	3.00	0.00	0.00	1.08	1.32	0.00	146.30	555.	19	
246	3.00	2.00	4.18	0.00	0.00	0.00	51.766	546.	22	
247	3.00	0.00	0.00	0.00	0.00	0.67	0.000	585.	26	
248	3.00	0.00	0.00	2.31	2.81	0.00	82.172	589.	19	
249	3.00	2.16	4.25	0.15	0.00	0.00	149.84	609.	17	
250	3.00	2.05	3.94	1.73	1.86	0.32	52.780	504.	9	
251	3.00	1.39	1.80	3.59	4.19	0.00	79.111	588.	15	
252	3.00	1.35	1.78	3.43	4.01	0.00	116.20	580.	9	
253	3.00	0.00	0.00	0.25	0.31	0.00	0.000	588.	12	
54	3.00	0.00	0.00	0.00	0.00	0.00	0.000	571.	30	819A #26
(1 missing vial)										
256	3.00	0.00	0.00	8.86	10.83	0.00	98.761	527.	13	819A white1
257	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	34	
258	3.00	0.00	0.00	0.25	0.31	0.00	0.000	594.	35	819A White3
(6 missing vials)										
265	3.00	3.26	6.48	0.33	0.01	0.00	0.000	588.	19	819B #1
266	3.00	1.60	3.26	0.00	0.00	0.00	0.000	579.	19	
267	3.00	0.00	0.00	1.26	1.53	1.00	93.180	593.	16	
268	3.00	0.11	0.00	2.90	3.51	0.00	237.01	597.	15	
269	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	28	
270	3.00	1.49	2.96	0.00	0.00	0.00	0.000	611.	16	
271	3.00	3.17	5.54	3.08	3.36	0.00	50.265	585.	17	
272	3.00	0.00	0.00	2.59	3.15	0.00	181.63	599.	18	
273	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	17	
274	3.00	1.04	2.02	0.19	0.10	0.00	69.244	603.	22	
275	3.00	0.47	0.92	0.00	0.00	0.00	0.000	608.	21	
276	3.00	0.00	0.00	0.85	1.03	0.00	0.000	604.	22	
277	3.00	0.00	0.00	0.59	0.71	0.00	0.000	608.	34	
278	3.00	0.00	0.00	1.15	1.40	0.00	0.000	608.	27	
279	3.00	2.86	5.69	0.00	0.00	0.00	0.000	605.	11	
280	3.00	0.25	0.50	0.00	0.00	0.00	0.000	598.	12	
281	3.00	0.00	0.00	1.25	1.53	0.00	212.34	577.	25	
282	3.00	1.16	2.33	0.00	0.00	0.00	0.000	596.	16	
283	3.00	0.00	0.00	0.00	0.00	1.33	0.000	599.	16	
84	3.00	0.00	0.00	3.92	4.77	0.00	893.15	589.	38	819B #20
(1 missing vial)										
286	3.00	0.00	0.00	0.00	0.00	0.00	0.000	568.	26	819B White1

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
287	3.00	0.00	0.00	0.00	0.00	0.00	0.000	563.	22	
288	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	32	
289	3.00	1.73	3.46	0.00	0.00	0.00	0.000	599.	21	- 819B White 4
.1 missing vials)										
301	3.00	1.21	1.58	3.27	3.84	0.00	32.725	539.	8	- 819C #1
302	3.00	0.00	0.00	2.74	3.33	0.00	315.25	582.	16	
303	3.00	0.00	0.00	0.01	0.01	0.00	0.000	580.	17	
304	3.00	0.64	1.02	0.95	1.08	0.00	131.18	589.	20	
305	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	24	
306	3.00	0.42	0.77	0.25	0.26	0.00	57.124	594.	17	
307	3.00	0.00	0.00	0.00	0.00	0.00	0.000	9.74	30	E
308	3.00	0.00	0.00	1.25	1.53	2.67	867.78	604.	28	
309	3.00	3.45	6.61	0.92	0.70	0.00	49.360	603.	13	
310	3.00	0.16	0.35	0.00	0.00	0.00	0.000	543.	15	
311	3.00	0.00	0.00	1.61	1.96	0.00	1491.0	590.	25	
312	3.00	0.00	0.00	0.00	0.00	0.00	0.000	9.79	26	E
313	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	22	
314	3.00	0.84	1.55	0.92	1.02	0.33	0.000	499.	12	
315	3.00	0.00	0.00	1.50	1.83	0.00	0.000	600.	18	
316	3.00	0.00	0.00	2.73	3.32	0.00	69.740	607.	15	
317	3.00	0.00	0.00	0.44	0.54	0.00	0.000	564.	27	
318	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	16	
319	3.00	0.00	0.00	0.00	0.00	0.00	118.31	604.	24	
320	3.00	0.00	0.00	1.59	1.93	0.00	122.71	573.	17	
321	3.00	0.00	0.00	0.00	0.00	0.00	0.000	17.1	42	E
322	3.00	0.67	0.94	1.48	1.72	0.00	79.645	576.	9	
323	3.00	0.00	0.00	4.25	5.17	0.00	687.36	594.	19	
324	3.00	0.00	0.00	0.93	1.14	0.00	51.497	567.	26	
325	3.00	0.00	0.00	0.18	0.21	0.00	0.000	600.	27	
326	3.00	0.00	0.00	0.59	0.71	0.67	1631.3	590.	25	
327	3.00	4.06	7.45	3.59	3.87	0.00	69.269	544.	14	
328	3.00	0.00	0.00	0.00	0.00	2.00	0.000	554.	27	
329	3.00	0.00	0.00	0.25	0.31	0.00	28674.	582.	20	
330	3.00	3.06	6.13	0.00	0.00	0.00	0.000	596.	19	819C #30
FRONT PIN JAM FWD										

Rooms 820, 821, 822, & 823 Lakeside Hospital

Protocol #:25 Name:Decommissioning 04-May-2004 14:07
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
.me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 223212 Nuclide 2 = 130300
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.87		10.77		7.46	59.024	602.	7	B	std.
2	3.00	16620.0	0.00	115342.	136914.	509.14	161.35	998.	0	E	std.
3	3.00	105341.	169970.	8441.11	788.09	1.20	19.884	992.	0	E	std.
4	3.00	0.00	0.00	0.00	0.00	0.00	0.000	983.	16	E	std.
(1 missing vial)											
6	3.00	0.00	0.00	0.00	0.00	0.00	0.000	571.	16		820 #1
7	3.00	1.49	3.02	0.00	0.00	0.64	0.000	581.	9		
8	3.00	0.00	0.00	0.00	0.00	0.54	0.000	577.	13		
9	3.00	0.00	0.00	2.02	2.46	3.87	154.13	575.	7		
10	3.00	0.74	1.51	0.00	0.00	1.87	0.000	577.	4		
11	3.00	0.00	0.00	2.94	3.57	3.20	362.76	587.	23		
12	3.00	0.52	0.88	0.57	0.63	4.20	109.47	593.	16		
13	3.00	0.00	0.00	0.00	0.00	3.20	0.000	586.	20		
14	3.00	0.33	0.67	0.00	0.00	0.00	0.000	565.	10		
15	3.00	0.00	0.00	0.23	0.28	0.87	32.818	574.	19		
16	3.00	0.69	1.05	1.17	1.35	3.54	0.000	597.	10		
17	3.00	0.00	0.00	0.00	0.00	0.87	0.000	572.	23		
18	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	15		
19	3.00	0.00	0.00	0.00	0.00	2.54	0.000	573.	10		
20	3.00	0.00	0.00	2.29	2.79	0.87	109.48	584.	16		
21	3.00	0.00	0.00	0.00	0.00	5.54	0.000	587.	15		
22	3.00	1.03	1.62	1.75	2.00	0.00	37.710	565.	13		
23	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	12		
24	3.00	0.00	0.00	0.00	0.00	0.00	0.000	541.	10		
25	3.00	0.00	0.00	0.00	0.00	0.00	0.000	571.	20		
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	16		
27	3.00	0.00	0.00	0.00	0.00	0.20	0.000	574.	20		
28	3.00	0.00	0.00	1.82	2.21	0.87	155.85	574.	12		
29	3.00	0.00	0.00	0.00	0.00	0.00	261.39	571.	18		
30	3.00	0.00	0.00	0.54	0.66	1.87	0.000	545.	17		
31	3.00	1.05	2.15	0.00	0.00	0.00	0.000	568.	17		
32	3.00	0.64	1.31	0.00	0.00	3.87	17.451	578.	22		
33	3.00	0.41	0.83	0.00	0.00	1.87	0.000	583.	15		
34	3.00	0.00	0.00	0.76	0.92	1.54	0.000	578.	14		
35	3.00	0.82	1.64	0.00	0.00	2.87	0.000	588.	18		
36	3.00	2.04	4.21	0.00	0.00	0.00	0.000	563.	14		
37	3.00	1.01	2.10	0.00	0.00	2.54	0.000	547.	12		
38	3.00	0.00	0.00	0.00	0.00	1.54	0.000	558.	16		
39	3.00	5.47	11.00	0.31	0.00	2.54	6.060	581.	12		
40	3.00	0.00	0.00	1.41	1.74	1.54	0.000	424.	27		
41	3.00	0.00	0.00	0.00	0.00	1.87	0.000	551.	16		
42	3.00	0.00	0.00	0.00	0.00	0.00	0.000	355.	6		
43	3.00	0.00	0.00	0.00	0.00	0.87	0.000	582.	22		
44	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	12		
45	3.00	0.14	0.30	0.00	0.00	0.87	0.000	539.	18		
46	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	15		Rm 820 #41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
47	3.00	0.00	0.00	0.00	0.00	3.54	0.000	556.	20	Rm820 #42
48	3.00	0.00	0.00	1.28	1.57	0.20	217.50	533.	12	
49	3.00	0.95	2.19	0.00	0.00	1.87	0.000	457.	20	
50	3.00	0.00	0.00	0.46	0.56	0.20	0.000	547.	9	
51	3.00	0.00	0.00	0.00	0.00	1.87	0.000	568.	14	
52	3.00	0.00	0.00	0.00	0.00	4.54	0.000	553.	12	
53	3.00	0.65	1.35	0.00	0.00	0.87	99.823	562.	16	
54	3.00	0.55	1.11	0.00	0.00	0.87	16.597	580.	15	
55	3.00	0.00	0.00	0.00	0.00	0.54	0.000	564.	19	
56	3.00	0.00	0.00	0.00	0.00	0.54	0.000	494.	13	
57	3.00	2.96	6.22	0.00	0.00	1.54	0.000	541.	10	
58	3.00	0.00	0.00	0.00	0.00	1.87	0.000	570.	14	
59	3.00	0.60	1.25	0.00	0.00	1.20	0.000	554.	12	
60	3.00	1.80	3.36	1.00	1.00	0.87	63.161	585.	12	
61	3.00	0.00	0.00	0.00	0.00	0.13	0.000	499.	17	
62	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	21	
63	3.00	0.49	1.00	0.00	0.00	0.20	0.000	583.	11	
64	3.00	1.66	2.05	4.56	5.35	0.54	46.239	594.	7	
65	3.00	0.00	0.00	0.00	0.00	0.54	0.000	571.	16	
66	3.00	0.00	0.00	0.00	0.00	1.54	0.000	558.	15	
67	3.00	1.88	3.81	0.00	0.00	0.00	0.000	583.	14	
68	3.00	0.00	0.00	0.00	0.00	2.87	0.000	576.	9	
69	3.00	0.00	0.00	0.00	0.00	1.54	0.000	541.	27	
70	3.00	0.00	0.00	0.00	0.00	2.54	0.000	551.	12	
71	3.00	1.47	3.01	0.00	0.00	1.54	166.14	568.	18	
72	3.00	0.00	0.00	0.00	0.00	2.20	0.000	583.	29	
73	3.00	0.00	0.00	0.00	0.00	3.90	0.000	597.	21	
74	3.00	0.00	0.00	3.63	4.41	1.20	163.69	584.	14	
75	3.00	0.00	0.00	2.22	2.71	0.10	0.000	551.	16	
76	3.00	0.00	0.00	0.00	0.00	3.20	0.000	555.	23	
77	3.00	0.00	0.00	0.00	0.00	0.87	0.000	533.	15	
78	3.00	0.55	1.18	0.00	0.00	0.00	0.000	525.	9	
79	3.00	0.00	0.00	0.00	0.00	0.00	0.000	516.	20	
80	3.00	0.55	1.04	0.23	0.21	0.87	0.000	587.	14	
81	3.00	0.00	0.00	0.00	0.00	3.20	0.000	578.	20	
82	3.00	0.00	0.00	0.00	0.00	2.20	0.000	584.	16	820 #77
(1 missing vial)										
84	3.00	0.08	0.15	0.00	0.00	1.20	0.000	583.	17	820 white #.
85	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	15	
86	3.00	0.00	0.00	0.00	0.00	1.54	4322.8	585.	22	
87	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	14	
88	3.00	1.76	3.62	0.00	0.00	0.87	0.000	569.	13	
89	3.00	0.00	0.00	0.81	0.99	0.00	403.99	555.	18	
90	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	24	
91	3.00	0.00	0.00	0.00	0.00	0.00	0.000	11.7	11	E
92	3.00	0.00	0.00	1.14	1.38	2.96	0.000	589.	10	
93	3.00	0.00	0.00	0.00	0.00	1.54	0.000	600.	13	
94	3.00	1.33	2.44	0.78	0.79	1.87	4.243	598.	14	
95	3.00	0.00	0.00	0.00	0.00	1.87	0.000	599.	17	
96	3.00	0.00	0.00	0.00	0.00	0.87	0.000	601.	17	820 white #1
(12 missing vials)										
109	3.00	0.00	0.00	1.62	1.98	1.87	11.683	584.	16	821 #1
110	3.00	0.89	1.78	0.00	0.00	2.87	0.000	590.	14	
111	3.00	1.62	3.05	0.78	0.76	1.69	22.365	588.	8	
12	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	10	
113	3.00	0.07	0.01	0.46	0.55	1.54	0.000	576.	10	Rm821 #5

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
114	3.00	0.81	1.54	0.38	0.37	0.87	162.88	582.	10	Rm821 #6
115	3.00	0.00	0.00	1.99	2.42	1.10	283.26	595.	11	
116	3.00	0.00	0.00	1.06	1.29	1.20	474.45	569.	10	
17	3.00	2.68	5.50	0.00	0.00	0.00	168.74	567.	7	
118	3.00	0.33	0.68	0.00	0.00	0.00	1084.0	586.	6*	
119	3.00	0.00	0.00	0.00	0.00	1.20	0.000	574.	32	
120	3.00	0.00	0.00	0.00	0.00	3.20	0.000	564.	21	
121	3.00	1.79	3.24	1.38	1.46	0.00	0.892	582.	10	
122	3.00	1.71	3.47	0.00	0.00	3.20	0.000	578.	13	
123	3.00	0.00	0.00	0.00	0.00	1.20	0.000	584.	28	
124	3.00	1.07	2.18	0.00	0.00	1.20	0.000	576.	17	
125	3.00	0.10	0.21	0.00	0.00	2.87	514.87	585.	18	
126	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	21	
127	3.00	4.74	9.68	0.00	0.00	4.20	1.840	571.	6	
128	3.00	0.99	2.01	0.00	0.00	1.87	176.01	581.	9*	
129	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	21	
130	3.00	0.00	0.00	0.00	0.00	0.87	0.000	568.	15	
131	3.00	0.84	1.71	0.00	0.00	0.00	0.000	574.	11	
132	3.00	0.50	1.02	0.00	0.00	0.20	0.000	573.	12	
133	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	14	
134	3.00	0.00	0.00	2.06	2.51	1.87	0.000	574.	14	
135	3.00	0.00	0.00	0.00	0.00	0.87	0.000	574.	14	
136	3.00	0.00	0.00	0.00	0.00	3.20	0.000	568.	18	
137	3.00	0.91	1.86	0.00	0.00	1.20	0.000	573.	14	
138	3.00	0.00	0.00	1.56	1.90	0.20	72.301	575.	19*	
139	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	24	
140	3.00	2.82	5.74	0.02	0.00	0.20	0.000	575.	11	
141	3.00	2.85	5.86	0.00	0.00	1.54	0.000	566.	15	
42	3.00	2.02	4.10	0.00	0.00	1.87	45.971	579.	7	
43	3.00	0.46	0.93	0.00	0.00	1.54	0.000	584.	19	
144	3.00	0.00	0.00	0.00	0.00	1.87	0.000	591.	8	
145	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	18	
146	3.00	0.00	0.00	0.00	0.00	0.87	0.000	601.	23	
147	3.00	0.52	1.07	0.00	0.00	3.20	0.000	564.	18	
148	3.00	0.00	0.00	0.39	0.47	0.54	36.377	602.	19*	
149	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	15	
150	3.00	0.00	0.00	0.00	0.00	2.20	0.000	598.	25	
151	3.00	1.19	2.48	0.00	0.00	2.20	0.000	553.	6	
152	3.00	0.00	0.00	0.00	0.00	2.54	0.000	580.	14	
153	3.00	0.00	0.00	0.00	0.00	2.20	0.000	592.	11	
154	3.00	0.14	0.28	0.00	0.00	0.00	0.000	577.	14	
155	3.00	1.76	3.54	0.00	0.00	2.20	0.000	593.	21	
156	3.00	0.00	0.00	0.00	0.00	1.20	0.000	564.	14	
157	3.00	0.00	0.00	0.00	0.00	1.54	0.000	549.	17	
158	3.00	0.00	0.00	0.00	0.00	1.54	0.000	600.	19*	
159	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	14	
160	3.00	0.63	1.30	0.00	0.00	1.54	0.000	566.	11	
161	3.00	0.00	0.00	0.00	0.00	0.00	0.000	509.	21	
162	3.00	0.00	0.00	1.56	1.91	0.54	259.55	550.	24	
163	3.00	0.00	0.00	0.00	0.00	0.00	0.000	554.	22	
164	3.00	0.00	0.00	0.00	0.00	0.54	0.000	592.	21	
165	3.00	1.17	2.39	0.00	0.00	4.20	0.000	571.	12	
166	3.00	0.00	0.00	0.00	0.00	0.00	0.000	562.	20	
167	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	11	
68	3.00	0.00	0.00	0.00	0.00	0.20	0.000	592.	15*	
169	3.00	0.85	1.72	0.00	0.00	0.00	0.000	580.	14	Rm821 # 61

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
170	3.00	1.94	3.89	0.09	0.00	0.00	0.000	583.	17	Rm 821 # 67
171	3.00	0.00	0.00	0.59	0.71	0.20	0.000	566.	17	
172	3.00	2.26	4.71	0.30	0.08	0.00	95.687	531.	8	
173	3.00	0.00	0.00	1.41	1.74	0.00	0.000	462.	11	
174	3.00	0.00	0.00	0.00	0.00	1.54	0.000	550.	27	
175	3.00	0.30	0.55	0.23	0.24	0.00	322.07	566.	10	
176	3.00	0.30	0.60	0.00	0.00	0.87	0.000	594.	11	
177	3.00	0.00	0.00	0.00	0.00	2.20	0.000	588.	29	
178	3.00	1.24	2.43	0.46	0.41	1.20	0.000	558.	18	
179	3.00	1.79	3.61	0.00	0.00	0.54	0.000	588.	21	
180	3.00	1.46	2.67	0.96	0.99	0.00	13.893	589.	15	
181	3.00	1.22	2.24	0.90	0.94	3.54	0.000	567.	14	
182	3.00	3.08	5.89	1.36	1.28	1.87	44.291	576.	12	
183	3.00	0.00	0.00	0.00	0.00	0.00	246.01	553.	20	
184	3.00	0.00	0.00	0.00	0.00	1.87	0.000	593.	35	
185	3.00	3.58	7.30	0.00	0.00	2.54	0.000	575.	16	821 #77
(1 missing vial)										
187	3.00	0.00	0.00	0.00	0.00	2.20	0.000	591.	17	821 white #1
188	3.00	2.62	5.42	0.00	0.00	0.87	0.000	558.	21	
189	3.00	0.00	0.00	0.00	0.00	0.87	370.82	575.	18	
190	3.00	1.42	1.84	3.64	4.26	2.87	28.480	582.	14	
191	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	35	
192	3.00	0.00	0.00	0.00	0.00	1.20	0.000	569.	12	
(12 missing vials) - wrong spot										
205	3.00	0.00	0.00	0.00	0.00	0.87	0.000	562.	29	
206	3.00	1.24	2.34	0.57	0.54	0.00	110.29	580.	12	
207	3.00	2.07	4.25	0.00	0.00	0.87	0.000	564.	11	
208	3.00	0.00	0.00	0.00	0.00	0.87	0.000	571.	16	
209	3.00	1.53	3.10	0.00	0.00	2.87	0.000	582.	13	
210	3.00	0.30	0.61	0.00	0.00	1.54	0.000	573.	12	
211	3.00	1.36	2.76	0.00	0.00	1.20	0.000	584.	16	
212	3.00	4.79	9.93	0.00	0.00	2.31	0.000	556.	11	
213	3.00	3.31	6.74	0.00	0.00	0.00	0.000	575.	14	
214	3.00	0.00	0.00	0.34	0.42	1.20	0.000	585.	26	
215	3.00	0.00	0.00	1.97	2.40	1.20	167.09	583.	12	
216	3.00	0.00	0.00	0.00	0.00	0.20	0.000	596.	34	821 white #
217	3.00	0.00	0.00	0.00	0.00	2.54	0.000	580.	25	821A #1
218	3.00	1.33	2.70	0.00	0.00	2.20	0.000	575.	9	
219	3.00	0.00	0.00	0.00	0.00	2.87	0.000	576.	38	
220	3.00	1.28	2.23	1.41	1.56	1.20	32.208	565.	17	
221	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	18	
222	3.00	0.00	0.00	0.00	0.00	3.20	0.000	578.	20	
223	3.00	0.00	0.00	0.00	0.00	1.87	0.000	569.	23	
224	3.00	0.00	0.00	0.00	0.00	0.87	0.000	584.	16	
225	3.00	0.27	0.55	0.00	0.00	2.54	551.89	589.	10	
226	3.00	0.00	0.00	0.00	0.00	2.54	0.000	594.	30	
227	3.00	0.00	0.00	0.00	0.00	0.00	0.000	540.	26	
228	3.00	0.00	0.00	0.00	0.00	2.87	0.000	581.	28	821A #12
229	3.00	0.00	0.00	0.00	0.00	5.20	0.000	542.	29	#25
230	3.00	4.16	7.40	3.65	3.93	1.20	23.684	580.	10	#26
231	3.00	0.17	0.34	0.00	0.00	2.54	0.000	573.	11	#27
(9 missing vials) - wrong spot										
241	3.00	0.00	0.00	0.00	0.00	1.87	0.000	579.	32	821A #13
242	3.00	1.27	2.57	0.00	0.00	0.87	0.000	585.	25	
243	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	28	
244	3.00	0.00	0.00	0.00	0.00	1.87	10.158	586.	27	821A #16

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
245	3.00	0.00	0.00	0.00	0.00	0.00	0.000	11.6	28	E 821A #17
246	3.00	0.00	0.00	0.00	0.00	2.54	0.000	583.	41	
247	3.00	0.00	0.00	0.00	0.00	2.87	0.000	560.	28	
248	3.00	0.63	0.60	2.40	2.85	0.87	115.57	580.	17	
249	3.00	0.00	0.00	0.00	0.00	0.87	0.000	581.	29	
250	3.00	0.00	0.00	0.00	0.00	0.20	0.000	472.	21	
251	3.00	0.00	0.00	0.00	0.00	1.54	0.000	555.	43	
252	3.00	6.00	11.99	1.05	0.55	0.00	0.000	569.	13	821A #24
253	3.00	0.00	0.00	0.00	0.00	0.54	0.000	555.	17	822 #1
254	3.00	0.00	0.00	0.00	0.00	0.54	0.000	567.	27	
255	3.00	0.00	0.00	0.00	0.00	0.00	0.000	560.	21	
256	3.00	0.30	0.62	0.00	0.00	1.87	0.000	559.	14	
257	3.00	0.00	0.00	0.00	0.00	1.87	0.000	565.	26	
258	3.00	0.68	1.00	1.43	1.66	0.00	17.771	563.	14	
259	3.00	0.00	0.00	0.00	0.00	0.20	0.000	560.	20	
260	3.00	0.00	0.00	1.16	1.41	2.54	0.000	553.	22	
261	3.00	0.00	0.00	0.00	0.00	1.20	0.000	571.	16	
262	3.00	2.30	4.72	0.00	0.00	0.00	0.000	566.	17	
263	3.00	0.00	0.00	0.00	0.00	1.54	0.000	564.	33	
264	3.00	0.19	0.00	1.56	1.88	0.00	55.182	568.	15	
265	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	26	
266	3.00	2.39	4.95	0.00	0.00	3.54	0.000	556.	27	
267	3.00	0.04	0.08	0.00	0.00	1.54	0.000	593.	23	
268	3.00	0.00	0.00	0.34	0.42	0.00	0.000	576.	21	
269	3.00	0.00	0.00	0.00	0.00	1.54	0.000	572.	33	
270	3.00	1.11	2.28	0.00	0.00	0.00	0.000	564.	18	
271	3.00	0.00	0.00	0.23	0.28	2.54	1946.0	572.	31	
272	3.00	3.74	7.40	0.90	0.63	0.54	24.068	570.	18	
73	3.00	0.00	0.00	0.00	0.00	4.20	0.000	588.	28	
274	3.00	0.82	1.70	0.00	0.00	0.00	0.000	563.	15	
275	3.00	1.05	2.18	0.00	0.00	2.89	0.000	553.	24	
276	3.00	0.00	0.00	0.00	0.00	0.87	0.000	546.	23	
277	3.00	2.16	4.38	0.00	0.00	0.00	59.013	581.	16	
278	3.00	0.02	0.05	0.00	0.00	0.20	0.000	558.	24	
279	3.00	5.17	10.40	0.00	0.00	3.54	0.000	591.	14	
280	3.00	0.00	0.00	0.56	0.69	0.87	0.000	556.	21	
281	3.00	0.00	0.00	0.24	0.29	0.20	0.000	592.	29	
282	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	34	
283	3.00	0.00	0.00	0.00	0.00	0.20	0.000	597.	31	
284	3.00	0.00	0.00	0.00	0.00	0.87	0.000	556.	36	
285	3.00	0.00	0.00	3.25	3.96	0.00	7.286	590.	23	
286	3.00	0.00	0.00	3.33	4.05	0.00	49.415	579.	19	822 #34
(2 missing vials)										
289	3.00	4.65	9.57	0.00	0.00	1.20	0.000	563.	12	823 #1
290	3.00	0.15	0.31	0.00	0.00	1.87	0.000	584.	16	
291	3.00	1.30	2.63	0.00	0.00	1.54	0.000	585.	27	
292	3.00	0.00	0.00	0.18	0.22	2.54	0.000	562.	22	
293	3.00	0.01	0.02	0.00	0.00	0.00	0.000	588.	24	
294	3.00	0.33	0.58	0.36	0.40	1.54	96.519	573.	18	
295	3.00	1.38	2.83	0.00	0.00	0.87	0.000	571.	22	
296	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	27	
297	3.00	4.74	9.19	1.96	1.80	1.87	15.204	563.	15	
298	3.00	0.00	0.00	0.03	0.04	3.54	0.000	572.	24	
299	3.00	0.00	0.00	0.00	0.00	2.54	0.000	538.	24	
300	3.00	0.00	0.00	1.21	1.47	0.00	0.000	545.	14	
301	3.00	0.99	1.06	3.37	3.99	3.54	57.969	572.	16	Rm823 #13

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
302	3.00	0.00	0.00	0.00	0.00	2.87	0.000	579.	33	Rm823 #14
303	3.00	0.00	0.00	1.56	1.90	0.00	72.671	580.	30	
304	3.00	0.00	0.00	0.00	0.00	1.87	0.000	581.	21	
305	3.00	0.00	0.00	0.00	0.00	1.87	0.000	568.	14	
306	3.00	0.56	1.17	0.00	0.00	0.87	0.000	548.	17	
307	3.00	0.00	0.00	1.93	2.35	0.00	43.438	540.	10	
308	3.00	0.00	0.00	0.00	0.00	3.54	0.000	545.	28	•
309	3.00	0.62	0.56	2.52	3.00	0.20	117.41	544.	12	
310	3.00	2.22	4.45	0.00	0.00	0.00	0.000	592.	14	
311	3.00	1.29	2.64	0.00	0.00	5.20	0.000	574.	16	
312	3.00	0.00	0.00	1.29	1.56	0.00	0.000	585.	28	
313	3.00	2.52	5.16	0.00	0.00	0.00	0.000	570.	16	
314	3.00	1.66	3.36	0.00	0.00	0.00	0.000	583.	20	
315	3.00	7.42	14.93	0.00	0.00	2.54	16.690	590.	16	
316	3.00	0.00	0.00	0.39	0.48	0.20	0.000	568.	39	
317	3.00	1.06	1.67	1.72	1.97	2.54	53.950	569.	13	
318	3.00	0.00	0.00	0.00	0.00	1.87	0.000	590.	17	•
319	3.00	0.00	0.00	0.00	0.00	1.54	754.52	579.	21	
320	3.00	0.00	0.00	1.56	1.90	0.00	71.757	595.	26	
321	3.00	0.00	0.00	0.56	0.69	0.00	53.721	575.	31	
322	3.00	1.33	2.04	2.28	2.62	2.87	93.164	590.	20	
323	3.00	1.49	3.01	0.00	0.00	0.20	0.000	585.	14	
324	3.00	3.49	7.05	0.00	0.00	0.00	0.000	584.	15	
325	3.00	0.00	0.00	0.00	0.00	1.20	0.000	585.	27	
326	3.00	0.00	0.00	0.00	0.00	1.54	0.000	581.	25	
327	3.00	2.90	5.85	0.00	0.00	1.54	29.516	586.	8	42-45 do not exist.
328	3.00	0.00	0.00	0.00	0.00	2.74	0.000	587.	31	•
329	3.00	0.00	0.00	0.00	0.00	0.87	0.000	580.	21	→ #41-~~45~~
330	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	44	#46
331	3.00	0.00	0.00	2.03	2.47	0.87	116.06	584.	17	#47
332	3.00	1.80	3.62	0.00	0.00	1.20	0.000	592.	30	#48
333	3.00	2.93	5.90	0.00	0.00	0.87	0.000	588.	24	#49
334	3.00	2.88	5.78	0.00	0.00	2.87	0.000	593.	16	•
335	3.00	0.00	0.00	0.43	0.52	2.35	0.000	592.	27	
336	3.00	0.00	0.00	0.00	0.00	3.54	0.000	595.	36	
337	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	30	
338	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	41	•
339	3.00	0.02	0.04	0.00	0.00	1.54	0.000	571.	20	
340	3.00	0.00	0.00	0.00	0.00	0.20	0.000	589.	16	
341	3.00	0.00	0.00	0.00	0.00	2.20	141.91	591.	19	
342	3.00	2.78	5.58	0.00	0.00	2.20	0.000	592.	19	
343	3.00	0.14	0.00	2.20	2.66	0.20	39.524	570.	18	
344	3.00	0.00	0.00	0.00	0.00	2.05	0.000	572.	24	823 #60
(1 missing vial)										
346	3.00	0.00	0.00	0.00	0.00	0.87	0.000	573.	23	823 w #1
347	3.00	0.00	0.00	0.00	0.00	1.54	0.000	559.	13	
348	3.00	0.00	0.00	0.00	0.00	4.20	0.000	554.	32	
349	3.00	0.00	0.00	1.38	1.69	1.20	176.48	556.	11	
350	3.00	0.00	0.00	0.00	0.00	2.54	0.000	550.	35	
351	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	29	
352	3.00	0.19	0.40	0.00	0.00	2.20	0.000	524.	18	
353	3.00	0.00	0.00	0.00	0.00	0.87	0.128	567.	24	
354	3.00	0.00	0.00	1.80	2.20	2.32	217.33	556.	14	
355	3.00	0.05	0.10	0.00	0.00	1.20	0.000	567.	24	•
356	3.00	0.74	1.50	0.00	0.00	0.20	0.000	580.	20	
357	3.00	0.00	0.00	0.00	0.00	3.20	0.000	580.	14	Rm823 #12

OK

8/10/04

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
358	3.00	1.40	2.82	0.00	0.00	0.00	0.000	589.	18		
359	3.00	0.00	0.00	0.00	0.00	1.20	0.000	585.	28	823	white #1

Rooms 824 & 825 Lakeside Hospital

Protocol #:25 Name:Decommissioning 05-May-2004 16:43
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 223212 Nuclide 2 = 130300
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	6.22		9.33		9.16	56.363	595.	14	B	
2	3.00	16558.2	0.00	115152.	136701.	491.17	160.55	996.	0	E	Stds
3	3.00	105485.	170145.	8625.68	998.51	0.51	19.985	992.	0	E	Stds
4	3.00	0.66	1.09	0.00	0.00	1.51	2884.6	985.	9	E	Stds
(1 missing vial)											
6	3.00	0.00	0.00	0.53	0.65	0.00	31.185	564.	25		-824 #1
7	3.00	0.00	0.00	0.96	1.17	3.28	0.000	552.	35		
8	3.00	0.00	0.00	1.62	1.97	0.00	143.15	572.	31		
9	3.00	6.51	12.96	1.13	0.58	0.00	48.121	574.	21		
10	3.00	4.68	9.12	1.66	1.44	0.00	45.767	569.	21		
11	3.00	4.47	9.19	0.00	0.00	0.00	0.000	566.	16		
12	3.00	0.00	16.39	0.55	1.23	0.00	0.000	18.0	25	E	
13	3.00	2.24	4.02	2.35	2.59	0.00	53.131	541.	25		
14	3.00	0.00	0.00	1.37	1.67	0.00	0.000	565.	27		
15	3.00	0.00	0.00	1.34	1.64	0.84	88.249	555.	25		
16	3.00	0.00	0.00	3.34	4.08	1.84	160.97	524.	32		
17	3.00	7.11	14.52	0.34	0.00	0.00	14.666	565.	16		
18	3.00	0.41	0.84	0.00	0.00	0.00	0.000	557.	30		
19	3.00	0.00	0.00	0.00	0.00	0.84	3041.4	543.	35		
20	3.00	0.00	0.00	0.00	0.00	0.00	0.000	554.	41		
21	3.00	3.28	5.45	4.67	5.29	0.00	22.521	553.	22		
22	3.00	2.55	4.96	1.34	1.32	0.00	34.973	543.	27		
23	3.00	0.98	1.56	1.67	1.91	0.00	0.136	543.	25		
24	3.00	0.66	1.24	0.38	0.38	0.00	196.12	565.	25		
25	3.00	3.11	5.62	2.63	2.82	0.00	64.991	569.	17		
26	3.00	1.35	2.67	0.49	0.42	1.17	19.095	556.	31		
27	3.00	0.00	0.00	1.60	1.95	0.00	616.38	554.	22		
28	3.00	2.67	5.23	1.01	0.90	1.51	35.599	557.	23		
29	3.00	0.00	0.00	0.00	0.00	0.00	0.000	13.0	56	E	
30	3.00	0.00	0.00	3.97	4.84	0.84	64.361	548.	33		
31	3.00	0.00	0.00	1.46	1.77	0.00	817.28	576.	32		
32	3.00	3.00	6.14	0.00	0.00	0.00	0.000	570.	26		
33	3.00	0.63	0.00	4.82	5.80	0.00	91.812	556.	29		
34	3.00	1.37	1.58	4.27	5.03	0.00	51.164	580.	23		
35	3.00	3.21	6.54	0.00	0.00	0.00	48.273	575.	24		
36	3.00	1.55	2.90	1.01	1.04	0.84	26.775	568.	29		
37	3.00	3.02	5.93	0.79	0.59	0.51	66.284	576.	30		
38	3.00	2.89	5.94	0.00	0.00	0.00	0.000	563.	33		
39	3.00	0.00	0.00	2.01	2.45	1.51	111.07	564.	37		
40	3.00	1.61	3.31	0.00	0.00	0.00	0.000	566.	29		
41	3.00	1.94	4.01	0.00	0.00	0.00	0.000	561.	30		
42	3.00	1.92	2.96	3.62	4.17	2.51	29.304	546.	27		
43	3.00	6.00	11.17	4.04	4.18	2.17	67.419	565.	18		
44	3.00	0.00	0.00	0.51	0.62	1.84	0.000	568.	29		
45	3.00	2.45	5.08	0.00	0.00	0.00	0.000	556.	26		
46	3.00	0.00	0.00	3.34	4.07	0.00	51.629	569.	29		Rm 824 #4

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
47	3.00	1.78	3.66	0.00	0.00	0.00	72.245	564.	34	Rm824 #42
48	3.00	3.49	6.88	1.13	0.95	0.17	70.561	558.	24	
49	3.00	4.72	9.76	0.00	0.00	2.84	0.000	558.	21	
50	3.00	2.73	4.96	2.50	2.71	0.51	76.556	551.	26	
51	3.00	3.29	6.76	0.00	0.00	0.00	0.000	564.	24	
52	3.00	0.00	0.00	1.75	2.13	1.51	129.36	582.	30	
53	3.00	0.00	0.00	2.47	3.02	0.00	155.82	552.	26	
54	3.00	1.48	3.03	0.00	0.00	0.00	0.000	568.	30	
55	3.00	0.00	0.00	0.18	0.23	0.00	899.57	528.	37	
56	3.00	0.00	0.00	0.00	0.00	0.00	0.000	510.	30	
57	3.00	4.81	10.44	0.00	0.00	1.51	0.000	508.	23	
58	3.00	0.00	0.00	2.80	3.43	0.00	27.531	522.	39	
59	3.00	4.44	8.73	2.01	1.91	0.51	66.233	541.	17	
60	3.00	1.83	3.68	0.34	0.19	0.00	50.706	562.	31	
61	3.00	3.11	6.46	0.00	0.00	1.84	16.934	553.	33	
62	3.00	0.00	0.00	0.00	0.00	0.00	0.000	528.	36	
63	3.00	2.47	5.20	0.00	0.00	0.00	63.954	538.	18	
64	3.00	0.00	0.00	0.78	0.95	0.00	64.711	547.	29	
65	3.00	1.40	1.86	3.83	4.51	0.84	43.425	516.	26	
66	3.00	0.30	0.02	2.04	2.46	0.00	92.846	513.	24	
67	3.00	0.19	0.09	1.09	1.30	0.00	12.292	543.	31	
68	3.00	3.17	6.55	0.00	0.00	0.00	45.275	559.	26	
69	3.00	2.33	4.38	1.67	1.75	0.00	0.000	547.	23	
70	3.00	0.53	0.99	0.34	0.35	0.00	93.591	563.	32	
71	3.00	0.44	0.92	0.00	0.00	0.00	0.000	537.	21	
72	3.00	1.28	2.39	0.98	1.04	0.51	38.291	546.	28	
73	3.00	0.00	0.00	0.00	0.00	0.00	0.000	540.	34	
74	3.00	1.74	3.69	0.16	0.00	0.00	0.000	518.	29	
75	3.00	0.69	1.44	0.00	0.00	0.00	0.000	545.	29	
76	3.00	0.00	0.00	1.34	1.64	0.00	4114.9	534.	47	
77	3.00	0.00	0.00	2.67	3.27	0.00	120.73	537.	34	
78	3.00	0.00	0.00	0.01	0.01	0.00	0.000	510.	46	
79	3.00	2.57	5.00	1.44	1.44	1.17	88.879	534.	23	
80	3.00	0.42	0.09	2.67	3.21	0.84	52.988	538.	33	
81	3.00	0.00	0.00	1.17	1.42	0.00	225.11	568.	40	
82	3.00	0.00	0.00	1.19	1.47	0.14	44.059	466.	33	
83	3.00	0.00	0.00	0.00	0.00	0.00	0.000	525.	34	
84	3.00	0.00	0.00	0.00	0.00	0.51	0.000	561.	37	
85	3.00	0.00	0.00	0.00	0.00	0.00	0.000	518.	27	
86	3.00	0.00	0.00	0.00	0.00	2.51	0.000	520.	37	
87	3.00	4.01	8.30	0.00	0.00	0.00	55.504	556.	27	
88	3.00	2.21	4.28	1.66	1.76	0.00	2.406	508.	28	
89	3.00	0.00	0.00	0.00	0.00	0.00	0.000	493.	43	
90	3.00	3.58	7.78	1.01	0.79	0.00	44.494	470.	25	
91	3.00	0.00	0.00	0.00	0.00	0.00	0.000	554.	34	
92	3.00	0.00	0.00	0.69	0.83	0.00	195.43	592.	50	
93	3.00	0.00	0.00	2.86	3.50	0.00	39.623	527.	18	
94	3.00	2.58	5.24	0.00	0.00	0.00	21.953	581.	25	
95	3.00	1.81	3.67	0.00	0.00	0.00	0.000	581.	29	
96	3.00	0.00	0.00	3.75	4.56	0.00	162.80	582.	19	
97	3.00	0.25	0.03	1.67	2.01	0.00	70.206	555.	28	
98	3.00	0.00	0.00	0.00	0.00	1.17	540.20	592.	28	
99	3.00	0.86	1.64	0.34	0.31	0.00	72.735	585.	16	
00	3.00	0.00	0.00	0.67	0.82	0.00	171.73	535.	32	
101	3.00	0.76	1.53	0.00	0.00	2.17	84.931	590.	35	
102	3.00	5.86	11.78	0.20	0.00	1.51	20.997	586.	30	Rm824 #97

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
103	3.00	0.00	0.00	0.00	0.00	0.00	0.000	560.	43	Rm824#98
104	3.00	0.00	0.00	0.00	0.00	0.18	0.000	578.	31	
105	3.00	2.63	4.91	1.29	1.25	0.00	46.513	596.	26	
106	3.00	1.89	3.80	0.00	0.00	0.00	22.968	590.	29	
107	3.00	5.21	9.92	2.46	2.36	0.00	36.329	575.	20	
108	3.00	2.87	5.65	1.36	1.30	0.00	11.943	539.	27	
109	3.00	0.00	0.00	2.64	3.24	0.00	28.013	466.	31	
110	3.00	2.75	5.55	1.15	1.06	1.17	46.819	520.	27	
111	3.00	1.49	2.99	0.07	0.00	1.17	0.000	583.	30	
112	3.00	0.00	0.00	1.54	1.87	0.00	367.83	566.	37	
113	3.00	2.54	5.11	0.02	0.00	0.00	0.000	592.	29	
114	3.00	0.00	0.00	0.00	0.00	1.51	0.000	564.	47	
115	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	37	
116	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	46	
117	3.00	0.92	1.88	0.00	0.00	0.00	81.108	568.	31	
118	3.00	3.38	6.96	0.18	0.00	1.17	56.358	554.	28	
119	3.00	2.55	5.11	0.00	0.00	0.00	0.000	598.	32	
120	3.00	3.14	5.32	3.67	4.09	0.00	52.558	583.	27	
121	3.00	0.00	0.00	0.18	0.22	0.00	0.000	567.	34	
122	3.00	1.46	2.83	0.32	0.22	0.00	18.369	596.	33	
123	3.00	2.78	4.93	2.95	3.25	1.51	65.165	551.	19	
124	3.00	3.86	7.84	0.00	0.00	0.00	30.806	580.	29	
125	3.00	3.83	7.18	2.34	2.38	0.00	26.738	569.	14	
126	3.00	0.00	0.00	1.34	1.63	0.00	1210.3	577.	39	
127	3.00	0.72	1.45	0.00	0.00	1.17	195.66	595.	25	
128	3.00	0.00	0.00	0.00	0.00	1.51	0.000	581.	38	
129	3.00	3.10	6.21	0.00	0.00	0.17	81.994	596.	21	
130	3.00	0.00	0.00	2.01	2.45	0.00	261.66	572.	37	
31	3.00	5.43	10.34	2.44	2.30	0.00	17.195	579.	12	
132	3.00	0.00	0.00	0.00	0.00	2.17	0.000	600.	36	
133	3.00	1.14	1.91	1.37	1.52	0.00	76.376	590.	17	
134	3.00	0.00	0.00	0.00	0.00	0.00	0.000	498.	47	
135	3.00	5.62	11.27	0.00	0.00	0.00	0.000	595.	10	
136	3.00	1.81	3.70	0.00	0.00	1.51	2.824	571.	29	
137	3.00	0.19	0.27	0.45	0.53	0.17	92.477	576.	28	
138	3.00	0.00	0.00	0.06	0.08	0.84	0.000	585.	50	
139	3.00	4.09	8.63	0.06	0.00	0.17	43.248	534.	17	
140	3.00	2.10	4.30	0.00	0.00	0.00	0.000	570.	30	
141	3.00	0.62	1.27	0.00	0.00	0.00	0.000	575.	34	
142	3.00	3.76	7.53	0.00	0.00	0.00	33.318	594.	20	
143	3.00	0.00	0.00	2.67	3.25	1.84	104.73	598.	23	
144	3.00	4.66	9.91	0.00	0.00	0.84	33.009	528.	20	
145	3.00	0.00	0.00	2.16	2.63	0.81	0.000	574.	29	
146	3.00	0.00	0.00	2.50	3.05	0.00	72.445	568.	28	
147	3.00	2.45	4.74	0.72	0.58	0.00	0.000	586.	16	
148	3.00	0.00	0.00	1.39	1.70	0.00	78.693	574.	31	
149	3.00	0.00	0.00	1.78	2.17	0.51	97.488	577.	25	
150	3.00	3.99	6.77	4.77	5.31	0.00	69.240	577.	16	
151	3.00	0.00	0.00	1.08	1.31	0.17	183.92	562.	25	
152	3.00	0.00	0.00	4.79	5.83	0.00	98.144	585.	24	
153	3.00	0.00	0.00	1.67	2.04	0.84	133.72	571.	26	
154	3.00	4.86	9.44	1.84	1.65	0.00	19.613	567.	20	
155	3.00	0.10	0.22	0.00	0.00	1.17	0.000	513.	24	
56	3.00	1.00	2.18	0.00	0.00	0.00	0.000	501.	28	
157	3.00	2.38	4.12	2.58	2.85	1.72	85.766	575.	15	
158	3.00	3.90	7.98	0.00	0.00	0.00	0.000	569.	22	Rm824#153

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
159	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	45	Rm824#154
160	3.00	0.00	0.00	1.24	1.50	0.00	186.08	576.	24	
61	3.00	0.00	0.00	1.01	1.23	0.84	68.078	593.	27	
162	3.00	1.25	1.85	2.39	2.76	0.51	99.947	586.	24	
163	3.00	0.00	0.00	1.19	1.45	1.17	117.05	565.	28	
164	3.00	0.00	0.00	0.00	0.00	1.17	0.000	578.	30	
165	3.00	1.26	2.44	0.35	0.28	0.00	281.82	593.	28	
166	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	37	
167	3.00	0.00	0.00	1.98	2.40	0.17	95.321	596.	26	
168	3.00	0.00	0.00	2.66	3.24	0.00	112.86	569.	24	
169	3.00	1.52	2.46	2.21	2.51	0.00	73.554	578.	21	
170	3.00	4.00	7.90	0.95	0.67	0.00	63.551	572.	10	
171	3.00	0.00	0.00	3.34	4.07	0.84	405.42	574.	25	
172	3.00	0.06	0.00	1.39	1.68	0.17	127.55	586.	20	
173	3.00	0.73	1.50	0.00	0.00	0.00	0.000	574.	18	
174	3.00	1.75	3.15	1.34	1.42	1.84	28.283	588.	20	
175	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	22	
176	3.00	0.77	1.05	1.88	2.20	0.00	49.794	552.	25	
177	3.00	0.00	0.00	3.01	3.67	0.00	182.93	561.	28	
178	3.00	0.54	1.11	0.00	0.00	0.51	0.000	570.	25	
179	3.00	1.87	3.82	0.00	0.00	0.00	3.775	571.	18	
180	3.00	0.00	0.00	2.60	3.16	0.00	109.82	563.	22	
181	3.00	2.02	3.50	2.07	2.27	0.00	84.977	584.	19	
182	3.00	0.29	0.19	1.46	1.75	0.00	72.455	553.	21	
183	3.00	0.47	0.95	0.00	0.00	2.84	62.730	594.	21	
184	3.00	1.22	2.29	0.67	0.67	0.00	85.224	576.	14	
185	3.00	0.00	0.00	0.00	0.00	3.51	0.000	571.	23	
186	3.00	1.76	3.38	0.85	0.82	0.84	5.378	566.	11	
87	3.00	3.61	7.31	0.34	0.00	0.00	37.533	567.	10	
188	3.00	0.47	0.54	1.50	1.77	0.00	80.230	568.	26	
189	3.00	1.71	3.41	0.00	0.00	0.00	0.000	599.	12	
190	3.00	2.52	5.02	1.41	1.40	0.00	42.657	511.	12	187 ~~186~~
191	3.00	2.25	3.57	3.67	4.20	3.84	73.767	564.	11	
192	3.00	2.41	4.58	1.10	1.04	0.00	0.000	580.	16	824 #~~176~~
(1 missing vial)										
194	3.00	2.88	5.81	0.00	0.00	0.00	24.794	589.	13	824 white 1
195	3.00	1.50	3.10	0.00	0.00	0.17	0.000	557.	20	
196	3.00	2.83	5.44	1.34	1.29	2.51	3.065	564.	16	
197	3.00	0.00	0.00	0.00	0.00	2.17	0.000	584.	22	
198	3.00	0.00	0.00	4.10	5.00	0.00	136.53	579.	13	
199	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	21	
200	3.00	1.44	2.81	0.54	0.48	0.00	123.40	563.	9	
201	3.00	3.04	6.17	0.00	0.00	0.00	0.000	578.	18	
202	3.00	0.00	0.00	0.04	0.05	0.00	69.721	589.	24	
203	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	16	
204	3.00	2.85	5.57	0.77	0.59	0.00	33.235	579.	10	
205	3.00	2.00	3.55	1.67	1.79	0.00	3.278	589.	7	
206	3.00	1.31	2.68	0.00	0.00	0.00	0.000	571.	24	
207	3.00	0.44	0.69	0.70	0.80	0.51	131.59	589.	19	
208	3.00	4.05	8.25	0.00	0.00	0.00	9.417	576.	4	
209	3.00	2.56	4.70	1.84	1.92	0.00	22.612	575.	11	
210	3.00	0.00	0.00	0.00	0.00	0.00	0.000	558.	21	
211	3.00	3.61	6.69	2.26	2.31	0.45	72.267	578.	16	
12	3.00	3.00	5.55	1.67	1.67	0.84	114.64	594.	7	
213	3.00	2.10	4.29	0.00	0.00	0.00	0.000	570.	13	
214	3.00	0.00	0.00	0.00	0.00	0.51	0.000	486.	7	Rm824 white 21

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
215	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	20	Rm824 #22
216	3.00	0.00	0.00	1.29	1.57	0.00	1098.8	550.	19	
217	3.00	2.79	4.61	3.80	4.29	0.00	46.901	574.	10	
218	3.00	2.03	4.15	0.00	0.00	0.00	0.000	569.	6	
219	3.00	0.42	0.87	0.00	0.00	0.17	0.000	565.	13	
220	3.00	1.35	2.75	0.00	0.00	0.00	0.000	578.	16	
221	3.00	0.00	0.00	0.00	0.00	0.00	0.000	559.	21	
222	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	11	
223	3.00	0.00	0.00	0.00	0.00	0.45	0.000	599.	33	
224	3.00	0.00	0.00	0.08	0.09	0.51	0.000	588.	20	
225	3.00	5.89	11.16	2.73	2.60	0.00	44.358	582.	8	
226	3.00	0.00	0.00	0.01	0.01	0.84	0.000	473.	13	
227	3.00	3.80	7.18	2.12	2.11	0.00	40.894	571.	11	
228	3.00	1.18	2.36	0.07	0.00	0.00	17.927	591.	13	
229	3.00	0.02	0.05	0.00	0.00	0.51	0.000	489.	8	
230	3.00	0.00	0.00	2.01	2.44	0.00	404.71	589.	21	
231	3.00	1.65	2.71	2.25	2.53	0.84	81.405	581.	13	
232	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	18	
233	3.00	1.22	2.20	1.01	1.08	2.17	131.93	577.	14	
234	3.00	0.00	0.00	0.00	0.00	1.17	0.000	574.	24	
235	3.00	0.00	0.00	0.01	0.01	0.00	0.000	583.	17	
236	3.00	1.69	3.48	0.00	0.00	0.00	58.145	563.	15	
237	3.00	1.79	3.65	0.00	0.00	0.00	0.000	573.	16	
238	3.00	1.55	1.91	4.64	5.47	0.00	108.12	537.	12	white
239	3.00	4.54	8.86	1.50	1.26	0.00	39.379	570.	5	824 #46
(3 missing vials)										
243	3.00	0.42	0.85	0.00	0.00	0.00	0.000	568.	15	825 #1
244	3.00	1.58	2.95	1.01	1.04	0.00	66.430	567.	12	
45	3.00	2.59	4.20	3.77	4.28	0.00	71.697	578.	5	
246	3.00	2.56	4.72	1.80	1.88	0.00	98.568	574.	5	
247	3.00	1.03	1.58	1.84	2.12	0.51	134.71	568.	15	
248	3.00	0.00	0.00	0.00	0.00	0.17	0.000	578.	8	
249	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	9	
250	3.00	2.36	4.86	0.01	0.00	0.00	99.127	562.	6	
251	3.00	0.00	0.00	2.69	3.28	0.00	266.21	568.	8	
252	3.00	2.74	5.33	0.90	0.76	0.00	0.000	576.	9	
253	3.00	3.55	6.39	3.01	3.23	0.00	87.131	575.	12	
254	3.00	0.00	0.00	0.00	0.00	0.00	0.000	557.	23	
255	3.00	2.17	3.88	1.70	1.80	1.51	54.143	593.	14	
256	3.00	2.63	5.37	0.00	0.00	0.00	63.084	573.	6	
257	3.00	0.00	0.00	0.93	1.13	0.84	22168.	554.	25	
258	3.00	3.54	7.02	0.80	0.54	2.17	26.317	570.	7	
259	3.00	1.10	2.06	0.71	0.73	0.00	0.000	560.	9	
260	3.00	1.59	3.15	0.39	0.28	0.00	57.908	564.	9	
261	3.00	0.97	2.01	0.00	0.00	1.51	0.000	554.	11	
262	3.00	0.00	0.00	0.00	0.00	0.17	0.000	580.	15	
263	3.00	1.05	2.10	0.12	0.02	0.51	0.000	576.	18	
264	3.00	0.51	0.94	0.38	0.41	0.00	0.000	564.	15	
265	3.00	2.37	4.46	1.64	1.71	1.84	10.904	547.	7	
266	3.00	0.38	0.44	1.21	1.42	0.00	0.000	563.	13	
267	3.00	0.00	0.00	1.34	1.64	1.17	632.38	551.	4	
268	3.00	0.00	0.00	3.26	3.98	0.00	170.72	554.	6	
269	3.00	3.08	6.24	0.34	0.04	0.00	62.334	564.	2	
70	3.00	1.12	2.38	0.00	0.00	4.17	33.490	532.	6	
271	3.00	0.78	1.60	0.00	0.00	0.17	0.000	575.	8	
272	3.00	2.39	4.76	0.50	0.32	0.00	0.892	569.	14	Rm825 #30

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
273	3.00	1.83	3.75	0.00	0.00	0.00	642.54	567.	8	Rm825#31
274	3.00	2.19	4.53	0.00	0.00	0.00	0.000	559.	2	
275	3.00	6.15	12.39	0.18	0.00	0.00	65.635	585.	6	
276	3.00	0.00	0.00	1.20	1.47	1.51	43.845	563.	10	
277	3.00	0.00	0.00	0.00	0.00	0.00	0.000	482.	19	
278	3.00	0.00	0.00	0.25	0.31	0.00	0.000	549.	14	
279	3.00	0.09	0.18	0.00	0.00	0.00	0.000	578.	13	
280	3.00	0.72	0.59	3.11	3.70	0.00	64.220	563.	4	
281	3.00	3.02	6.53	0.00	0.00	0.00	0.000	511.	2	
282	3.00	3.33	5.28	5.34	6.10	0.00	69.239	574.	6	
283	3.00	0.00	0.00	1.34	1.63	0.00	182.11	566.	11	
284	3.00	0.03	0.05	0.01	0.01	0.00	125.65	481.	7	Rm825#42
(1 missing vial)										
286	3.00	2.55	4.78	1.46	1.46	0.00	69.932	575.	7	Rm825#44
287	3.00	4.77	9.20	1.79	1.60	1.51	24.391	575.	12	
288	3.00	1.67	2.95	1.62	1.76	0.00	15.381	572.	10	
289	3.00	3.51	6.09	3.83	4.23	2.84	72.514	569.	6	
290	3.00	2.72	4.52	3.67	4.14	1.17	87.450	569.	3	
291	3.00	2.25	4.57	0.00	0.00	0.00	62.904	578.	13	
292	3.00	1.19	2.44	0.00	0.00	0.00	0.000	568.	6	Rm825#50
293	3.00	1.48	3.04	0.00	0.00	0.17	98.117	570.	10	
294	3.00	2.87	5.45	1.50	1.47	0.00	0.000	569.	5	
295	3.00	2.93	5.64	1.35	1.28	1.17	25.072	567.	10	Rm825#53
(5 missing vials)										
301	3.00	0.42	0.52	1.20	1.40	3.84	217.97	564.	11	Rm825#58
302	3.00	2.34	1.80	10.58	12.60	0.00	82.154	558.	8	
303	3.00	2.25	4.59	0.00	0.00	0.00	121.91	578.	6	
304	3.00	0.00	0.00	2.02	2.47	0.00	28.258	539.	24	
305	3.00	4.18	8.42	0.16	0.00	1.51	3.996	582.	7	
306	3.00	3.61	7.29	0.00	0.00	0.00	0.000	585.	8	
307	3.00	3.44	6.47	2.23	2.29	0.00	66.714	559.	6	
308	3.00	0.00	0.00	0.00	0.00	2.17	0.000	567.	10	
309	3.00	2.38	4.82	0.27	0.03	0.00	82.211	563.	9	
310	3.00	2.04	3.33	3.04	3.46	0.00	54.722	565.	2	
311	3.00	0.00	0.00	0.00	0.00	0.00	0.000	557.	13	Rm825#69

Room825
Whites 1-10

Hallway
817/818
area

[redacted] Lakeside Hosp 2SB02, 2SB03, 2SB05, 2SB05A & 2SB07, [redacted]

Protocol #:26 Name:Decommissioning2 14-Jun-2004 08:01
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
egion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
ime = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	8.29		10.72		7.60	58.262	583.	6	B	
2	3.00	16492.5	488.64	114659.	133457.	651.56	164.05	1008	0	E	
3	3.00	105307.	171225.	8748.62	0.00	0.73	20.239	1007	0	E	
4	3.00	0.00	0.00	0.00	0.00	0.73	0.000	999.	26	E	
(2 missing vials)											
7	3.00	0.00	0.00	0.00	0.00	4.40	0.000	572.	15		-2SB02 #1
8	3.00	0.00	0.00	0.00	0.00	3.73	0.000	568.	25		
9	3.00	1.69	3.76	0.00	0.00	0.00	0.000	566.	2		
10	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	23		
11	3.00	0.00	0.00	0.84	1.02	0.00	228.44	572.	13		
12	3.00	0.00	0.00	0.00	0.00	0.40	0.000	579.	21		
13	3.00	0.52	1.12	0.00	0.00	1.07	247.12	598.	12		
14	3.00	2.16	4.74	0.00	0.00	0.00	0.000	581.	14		
15	3.00	0.00	0.00	1.61	1.95	2.07	0.000	580.	28		
16	3.00	0.94	2.03	0.00	0.00	0.00	0.000	596.	8		
17	3.00	0.00	0.00	0.00	0.00	1.39	0.000	586.	6		
18	3.00	0.15	0.00	2.42	2.92	0.00	86.097	571.	5		
19	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	9		
20	3.00	0.00	0.00	0.00	0.00	0.07	75.527	584.	18		
21	3.00	0.00	0.00	0.00	0.00	3.07	0.000	595.	6		
22	3.00	0.52	1.13	0.00	0.00	0.00	0.000	589.	11		
23	3.00	0.28	0.54	0.24	0.25	0.00	452.09	600.	8		
24	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	14		
25	3.00	0.00	0.00	1.71	2.06	0.73	202.35	579.	13		
26	3.00	0.00	0.00	0.00	0.00	2.07	0.000	588.	20		
27	3.00	1.53	3.33	0.00	0.00	0.00	25.185	590.	9		
28	3.00	0.00	0.00	0.00	0.00	1.07	0.000	575.	15		
29	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	14		
30	3.00	0.00	0.00	0.00	0.00	1.40	0.000	588.	12		
31	3.00	0.00	0.00	0.00	0.00	4.40	0.000	589.	7		
32	3.00	0.00	0.00	0.00	0.00	0.07	0.000	589.	24		
33	3.00	0.00	0.00	0.00	0.00	1.07	0.000	601.	8		
34	3.00	0.00	0.00	0.28	0.34	3.73	0.000	570.	38		-2SB02 #28
35	3.00	0.00	0.00	0.28	0.34	1.73	0.000	594.	23		-2SB02 SmkPit
(1 missing vial)											
37	3.00	0.00	0.00	0.61	0.74	2.73	0.000	584.	14		2SB03 #1
38	3.00	1.17	2.58	0.00	0.00	0.73	131.36	579.	7		
39	3.00	0.00	0.00	0.00	0.00	0.40	0.000	555.	10		
40	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	11		
41	3.00	0.29	0.65	0.00	0.00	0.40	0.000	576.	17		
42	3.00	0.00	0.00	0.00	0.00	2.07	0.000	587.	13		
43	3.00	0.42	0.91	0.00	0.00	4.40	0.000	586.	15		
44	3.00	0.00	0.00	0.52	0.62	0.00	0.000	557.	23		
45	3.00	0.36	0.78	0.00	0.00	0.07	0.000	581.	18		
46	3.00	1.35	3.03	0.00	0.00	1.40	0.000	559.	8		
47	3.00	0.00	0.00	0.61	0.74	0.00	79.364	539.	12		Rm2SB03 #11

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	0.23	0.28	1.40	0.000	549.	13	Rm3SB03#12
49	3.00	0.00	0.00	0.00	0.00	0.40	0.000	587.	14	
50	3.00	0.16	0.26	0.28	0.32	1.07	287.54	594.	13	
51	3.00	3.88	8.41	0.00	0.00	1.07	0.000	596.	9	
52	3.00	0.00	0.00	0.00	0.00	0.73	0.000	590.	21	
53	3.00	0.00	0.00	1.29	1.55	0.00	0.000	593.	24	
54	3.00	0.00	0.00	0.86	1.04	0.00	0.000	600.	17	
55	3.00	0.00	0.00	1.90	2.30	0.00	0.000	600.	18	
56	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	20.	
57	3.00	0.00	0.00	0.00	0.00	0.73	0.000	577.	26	
58	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	25	
59	3.00	1.24	2.01	2.28	2.61	0.07	86.418	590.	7	
60	3.00	0.00	0.00	0.00	0.00	1.07	0.000	586.	12	
61	3.00	0.00	0.00	0.00	0.00	0.40	0.000	599.	13	
62	3.00	0.00	0.00	1.15	1.39	0.00	2870.2	583.	13	
63	3.00	0.57	1.27	0.00	0.00	0.07	0.000	570.	11	
64	3.00	0.00	0.00	2.61	3.16	0.00	293.39	571.	19	
65	3.00	0.00	0.00	0.00	0.00	0.07	0.000	599.	19	
66	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	20.	
67	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	16	
68	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	17	
69	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	23	
70	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	12	
71	3.00	0.00	0.00	2.95	3.56	0.73	75.486	591.	15	
72	3.00	0.00	0.00	0.00	0.00	1.73	0.000	583.	23	
73	3.00	0.00	0.00	0.95	1.14	1.73	171.15	602.	15	
74	3.00	0.00	0.00	1.81	2.19	0.00	119.90	578.	13	
75	3.00	0.40	0.47	1.34	1.57	0.00	31.756	584.	14	
76	3.00	1.17	2.56	0.00	0.00	0.00	0.000	584.	5.	
77	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	23	
78	3.00	0.00	0.00	1.97	2.38	0.07	0.000	590.	9	
79	3.00	0.00	0.00	1.12	1.35	0.40	0.000	587.	15	
80	3.00	0.00	0.00	3.34	4.03	0.94	154.91	599.	16	
81	3.00	0.00	0.00	0.28	0.34	0.00	0.000	581.	23	
82	3.00	0.00	0.00	0.28	0.34	0.00	0.000	578.	14	
83	3.00	0.00	0.00	0.00	0.00	0.07	0.000	580.	17	
84	3.00	1.24	2.68	0.00	0.00	0.40	129.41	598.	8	
85	3.00	0.00	0.00	0.00	0.00	2.07	0.000	586.	8	
86	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	8.	
87	3.00	0.00	0.00	0.00	0.00	1.73	0.000	586.	17	
88	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	12	
89	3.00	2.12	4.57	0.00	0.00	0.07	0.000	600.	18	
90	3.00	2.40	5.25	0.12	0.00	0.00	0.000	580.	8	2SB03#54
(2 missing vials)										
93	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	17	2SB 05 #1
94	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	8	
95	3.00	0.00	0.00	0.00	0.00	0.00	226.76	592.	16	
96	3.00	0.00	0.00	0.26	0.32	0.00	0.000	596.	13	
97	3.00	0.00	0.00	1.17	1.42	0.00	705.93	602.	9	
98	3.00	0.00	0.00	0.87	1.05	1.07	129.11	605.	19	
99	3.00	0.56	1.20	0.00	0.00	0.00	0.000	607.	15	
100	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	15	
101	3.00	0.04	0.09	0.00	0.00	1.73	0.000	580.	16	
02	3.00	0.00	0.00	1.88	2.27	0.07	335.06	604.	10.	
103	3.00	0.19	0.40	0.00	0.00	0.00	0.000	596.	13	
104	3.00	0.00	0.00	0.00	0.00	1.40	0.000	599.	20	Rm2SB05 #12

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
105	3.00	0.00	0.00	0.58	0.71	1.73	251.30	598.	20	Rm25B05 #13
106	3.00	0.00	0.00	0.00	0.00	1.07	0.000	604.	23	
107	3.00	3.53	7.65	0.00	0.00	3.40	37.729	595.	10	
108	3.00	0.00	0.00	0.51	0.62	1.07	77.907	608.	15	
109	3.00	0.29	0.62	0.00	0.00	0.40	0.000	597.	10	
110	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	20	
111	3.00	1.55	3.36	0.00	0.00	0.40	0.000	592.	11	
112	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	13	
113	3.00	0.00	0.00	0.00	0.00	1.07	0.000	586.	16	
114	3.00	0.62	1.33	0.00	0.00	0.00	0.000	613.	22	
115	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	24	
116	3.00	0.00	0.00	0.95	1.14	4.07	191.65	600.	13	
117	3.00	1.77	3.92	0.00	0.00	0.61	930.39	571.	17	
118	3.00	0.00	0.00	1.61	1.95	0.00	0.000	589.	26	
119	3.00	0.00	0.00	0.00	0.00	0.00	0.000	618.	12	
120	3.00	0.00	0.00	1.06	1.28	0.00	0.000	585.	24	
121	3.00	0.00	0.00	0.86	1.04	0.00	20.271	600.	18	
122	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	13	
123	3.00	0.00	0.00	0.61	0.74	0.00	0.000	579.	9	
124	3.00	0.00	0.00	0.00	0.00	0.73	0.000	603.	21	
125	3.00	1.38	3.00	0.00	0.00	2.07	0.000	594.	19	
126	3.00	0.00	0.00	1.26	1.52	0.00	745.86	595.	19	
127	3.00	0.81	1.76	0.00	0.00	1.73	24.155	592.	13	
128	3.00	0.00	0.00	0.00	0.00	0.07	0.000	615.	26	
129	3.00	0.00	0.00	0.00	0.00	1.56	0.000	584.	24	25B05 #37
(1 missing vial)										
131	3.00	0.00	0.00	0.00	0.00	0.73	0.000	592.	17	25B05A #1
132	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	16	
133	3.00	2.84	6.18	0.00	0.00	0.00	0.000	593.	12	
134	3.00	0.00	0.00	0.00	0.00	0.40	0.000	597.	24	
135	3.00	0.00	0.00	0.00	0.00	1.40	0.000	588.	14	
136	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	16	
137	3.00	0.00	0.00	0.00	0.00	1.40	0.000	596.	22	
138	3.00	0.00	0.00	0.00	0.00	1.73	0.000	586.	32	
139	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	19	
140	3.00	0.69	1.10	1.33	1.53	1.73	67.791	590.	16	
141	3.00	0.41	0.91	0.00	0.00	0.00	144.71	577.	12	
142	3.00	0.00	0.00	0.00	0.00	1.40	0.000	559.	15	
143	3.00	0.00	0.00	1.95	2.35	0.00	0.000	591.	22	
144	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	14	
145	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	20	
146	3.00	0.00	0.00	0.00	0.00	1.07	0.000	594.	14	
147	3.00	0.00	0.00	0.00	0.00	1.07	0.000	596.	32	
148	3.00	0.00	0.00	0.00	0.00	0.73	0.000	574.	21	
149	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	27	
150	3.00	0.08	0.17	0.00	0.00	0.00	0.000	577.	18	
151	3.00	0.00	0.00	0.00	0.00	2.73	31.238	592.	19	
152	3.00	0.51	0.92	0.60	0.66	0.00	76.983	595.	13	
153	3.00	0.18	0.00	2.61	3.14	0.73	117.12	593.	10	
154	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	18	
155	3.00	0.00	0.00	0.27	0.33	0.40	0.000	594.	15	
156	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	17	
157	3.00	0.00	0.00	2.28	2.76	0.00	78.065	586.	5	
58	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	17	
159	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	22	
160	3.00	0.80	1.74	0.00	0.00	0.00	0.000	594.	16	Rm25B05A#30

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
161	3.00	2.93	6.35	0.00	0.00	2.07	57.984	596.	8	Rm2SBOSA #31
162	3.00	0.00	0.00	3.28	3.97	0.00	83.814	583.	14	
163	3.00	0.00	0.00	1.95	2.35	1.40	60.250	586.	15	
164	3.00	3.57	7.86	0.00	0.00	2.07	0.000	581.	8	
165	3.00	0.00	0.00	0.00	0.00	0.73	0.000	598.	25	
166	3.00	0.00	0.00	1.45	1.75	0.07	190.88	587.	8	
167	3.00	0.00	0.00	0.00	0.00	1.40	0.000	594.	27	
168	3.00	0.00	0.00	0.00	0.00	0.07	0.000	589.	10	
169	3.00	0.00	0.00	0.00	0.00	1.07	0.000	574.	8	
170	3.00	0.00	0.00	0.76	0.92	0.00	0.000	582.	18	
171	3.00	0.00	0.00	0.00	0.00	1.07	0.000	593.	16	
172	3.00	0.60	0.01	4.28	5.10	1.73	92.620	575.	6	
173	3.00	0.00	0.00	1.40	1.69	0.00	0.000	584.	13	
174	3.00	0.27	0.58	0.00	0.00	1.73	0.000	602.	11	
175	3.00	0.27	0.59	0.00	0.00	0.40	0.000	582.	8	
176	3.00	1.19	2.62	0.00	0.00	0.00	0.000	576.	11	
177	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	26	
178	3.00	0.00	0.00	1.61	1.95	2.73	0.748	589.	11	
179	3.00	0.00	0.00	0.00	0.00	2.07	0.000	569.	17	
180	3.00	0.58	1.26	0.00	0.00	0.07	0.000	600.	10	
181	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	5	
182	3.00	0.00	0.00	0.00	0.00	4.73	0.000	593.	26	
183	3.00	0.00	0.00	0.30	0.36	1.40	0.000	591.	20	
184	3.00	0.24	0.52	0.00	0.00	0.40	0.000	600.	10	
185	3.00	0.24	0.03	1.61	1.92	3.07	204.74	586.	8	
186	3.00	0.00	0.00	0.28	0.34	1.40	0.000	596.	6	
187	3.00	0.00	0.00	2.28	2.75	2.40	128.97	594.	18	
188	3.00	2.55	5.54	0.00	0.00	0.40	0.000	592.	8	
189	3.00	1.23	2.68	0.00	0.00	2.73	0.000	592.	8	
190	3.00	0.00	0.00	0.40	0.48	0.00	0.000	602.	23	
191	3.00	0.00	0.00	0.00	0.00	1.07	0.000	603.	14	
192	3.00	0.00	0.00	1.06	1.29	0.00	5685.9	588.	14	
193	3.00	0.00	0.00	0.00	0.00	0.73	0.000	590.	18	
194	3.00	0.00	0.00	0.00	0.00	0.40	0.000	608.	22	
195	3.00	2.32	4.34	2.26	2.46	3.40	5.208	596.	4	
196	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	20	
197	3.00	1.57	3.32	0.23	0.10	0.00	103.00	598.	11	
198	3.00	0.00	0.00	0.00	0.00	0.40	0.000	588.	21	
199	3.00	3.88	7.85	1.95	1.90	0.73	49.316	591.	8	
200	3.00	0.00	0.00	1.87	2.26	1.07	182.90	605.	10	
201	3.00	0.00	0.00	0.00	0.00	0.07	0.000	585.	24	
202	3.00	0.78	1.46	0.74	0.80	0.07	32.088	602.	8	
203	3.00	0.00	0.00	0.00	0.00	1.56	0.000	603.	10	
204	3.00	5.04	10.80	0.00	0.00	0.00	0.000	607.	10	
205	3.00	4.00	7.63	3.22	3.43	0.00	33.903	603.	5	
206	3.00	0.00	0.00	1.56	1.89	1.73	42.080	597.	17	
207	3.00	0.00	0.00	0.97	1.18	0.07	225.50	592.	5	
208	3.00	0.00	0.00	0.00	0.00	2.07	0.000	591.	13	
209	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	15	
210	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	20	
211	3.00	0.16	0.34	0.00	0.00	0.73	0.000	594.	14	
212	3.00	0.00	0.00	3.28	3.96	0.00	143.71	603.	13	
213	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	10	
214	3.00	0.64	1.37	0.00	0.00	1.07	0.000	604.	14	
215	3.00	0.00	0.00	0.00	0.00	1.07	0.000	599.	14	
216	3.00	0.00	0.00	2.95	3.56	1.40	80.663	579.	11	Rm 2SBOSA #86

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
217	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	6	Rm25B05A#87
218	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	4	
219	3.00	0.00	0.00	1.04	1.25	0.00	0.000	589.	19	
220	3.00	0.68	1.48	0.00	0.00	4.73	133.86	587.	16	
221	3.00	0.49	1.06	0.00	0.00	0.00	260.63	591.	12	
222	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	14	
223	3.00	1.40	3.06	0.00	0.00	0.00	0.000	587.	14	
224	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	19	
225	3.00	3.34	7.11	0.21	0.00	0.00	0.000	603.	6	
226	3.00	0.00	0.00	0.00	0.00	1.73	0.000	584.	17	
227	3.00	1.34	2.92	0.00	0.00	0.00	0.000	593.	2	
228	3.00	0.00	0.00	0.00	0.00	0.07	0.000	594.	17	
229	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	13	
230	3.00	1.35	2.54	1.20	1.29	0.00	92.187	605.	6	
231	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	17	
232	3.00	0.00	0.00	0.00	0.00	0.40	0.000	588.	19	
233	3.00	0.00	0.00	0.00	0.00	2.07	0.000	596.	23	
234	3.00	3.75	8.08	0.00	0.00	1.73	0.188	601.	3	
235	3.00	3.27	7.11	0.00	0.00	0.00	0.000	591.	7	
236	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	19	
237	3.00	0.00	0.00	0.00	0.00	1.07	0.000	603.	20	
238	3.00	0.00	0.00	0.26	0.31	2.07	0.000	597.	18	
239	3.00	0.00	0.00	0.00	0.00	3.07	12696.	595.	12	
240	3.00	0.44	0.94	0.00	0.00	1.40	0.000	600.	17	
241	3.00	0.00	0.00	0.00	0.00	0.00	0.000	615.	23	
242	3.00	0.00	0.00	0.00	0.00	0.00	19.181	624.	16	
243	3.00	0.00	0.00	0.85	1.03	1.73	0.000	601.	13	
244	3.00	2.04	4.40	0.00	0.00	0.07	0.000	602.	7	
245	3.00	0.00	0.00	0.00	0.00	0.73	0.000	597.	8	
246	3.00	0.00	0.00	0.00	0.00	0.07	0.000	598.	25	
247	3.00	0.00	0.00	1.46	1.76	0.00	0.000	605.	18	
248	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	21	
249	3.00	1.97	4.24	0.00	0.00	2.07	0.000	602.	11	
250	3.00	0.00	0.00	1.21	1.46	0.40	767.08	604.	23	
251	3.00	0.35	0.75	0.00	0.00	0.00	0.000	605.	13	
252	3.00	1.60	3.45	0.00	0.00	0.07	0.000	601.	7	
253	3.00	0.00	0.00	0.00	0.00	3.07	0.000	602.	17	
254	3.00	1.23	2.70	0.01	0.00	0.07	40.241	584.	5	
255	3.00	1.28	2.76	0.00	0.00	0.73	256.53	599.	9	
256	3.00	0.00	0.00	1.01	1.22	0.00	109.78	576.	9	
257	3.00	0.83	1.22	1.91	2.21	0.00	87.422	600.	13	
258	3.00	2.28	4.91	0.00	0.00	0.00	0.000	600.	13	
259	3.00	0.37	0.73	0.29	0.30	0.00	259.33	593.	18	
260	3.00	1.57	3.37	0.00	0.00	0.07	0.000	605.	14	
261	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	27	
262	3.00	2.13	4.58	0.00	0.00	0.00	0.000	604.	16	
263	3.00	0.74	1.61	0.00	0.00	1.40	0.000	596.	18	
264	3.00	0.00	0.00	0.20	0.24	0.00	0.000	605.	12	
265	3.00	0.00	0.00	0.00	0.00	1.73	0.000	603.	17	
266	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	12	
267	3.00	0.00	0.00	0.00	0.00	0.40	0.000	597.	22	
268	3.00	0.00	0.00	0.61	0.74	1.40	0.000	598.	20	
269	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	16	
270	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	18	
271	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	18	
272	3.00	0.00	0.00	0.30	0.36	0.00	0.000	591.	10	Rm25B05A#142

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
273	3.00	2.16	4.69	0.00	0.00	1.73	27.085	592.	11	Rm2SB05A#14
274	3.00	0.00	0.00	1.28	1.54	2.95	0.000	603.	18	
275	3.00	0.42	0.92	0.00	0.00	0.00	0.000	588.	14	
276	3.00	0.16	0.08	0.91	1.08	0.07	0.000	570.	14	
277	3.00	1.13	2.36	0.31	0.24	1.40	0.000	592.	12	
278	3.00	0.00	0.00	0.00	0.00	1.73	0.000	591.	18	
279	3.00	0.00	0.00	0.29	0.35	2.07	0.000	592.	18	
280	3.00	0.00	0.00	0.00	0.00	1.73	0.000	609.	17	
281	3.00	0.00	0.00	1.95	2.35	2.37	0.000	597.	11	
282	3.00	0.00	0.00	1.01	1.21	0.00	0.000	613.	12	
283	3.00	0.00	0.00	5.10	6.16	1.73	124.87	606.	21	
284	3.00	0.00	0.00	0.28	0.34	1.40	0.000	608.	16	
285	3.00	1.08	2.29	0.00	0.00	0.00	1794.1	617.	9	
286	3.00	0.00	0.00	0.00	0.00	2.07	0.000	600.	11	
287	3.00	0.74	1.31	0.95	1.06	0.00	164.83	603.	16	
288	3.00	0.00	0.00	1.95	2.35	2.07	0.000	577.	19	
289	3.00	0.00	0.00	0.17	0.21	0.00	0.000	609.	12	2SB05A#1(
(1 missing vial)										
291	3.00	2.20	3.97	2.91	3.26	0.00	34.834	571.	11	2SB07A#1)
292	3.00	0.74	1.63	0.00	0.00	0.00	0.000	585.	18	
293	3.00	0.62	1.37	0.00	0.00	2.07	0.000	570.	16	
294	3.00	0.00	0.00	0.65	0.79	0.00	0.000	564.	17	
295	3.00	0.00	0.00	0.00	0.00	0.73	0.000	584.	23	
296	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	18	
297	3.00	0.00	0.00	0.00	0.00	0.07	0.000	589.	22	
298	3.00	1.51	3.10	0.68	0.64	2.07	206.73	584.	8	
299	3.00	0.00	0.00	0.00	0.00	1.40	0.000	578.	29	
300	3.00	0.00	0.00	0.35	0.43	0.40	20.947	582.	20	
301	3.00	0.01	0.01	0.00	0.00	1.73	0.000	608.	10	
302	3.00	0.00	0.00	0.00	0.00	0.73	0.000	573.	18	
303	3.00	0.00	0.00	1.61	1.95	0.00	90.903	585.	19	
304	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	44	
305	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	26	
306	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	43	
307	3.00	2.39	4.84	1.35	1.35	0.00	40.880	583.	13	
308	3.00	0.00	0.00	3.95	4.77	0.00	59.736	579.	25	
309	3.00	0.74	1.34	0.92	1.03	0.00	88.561	577.	17	
310	3.00	0.00	0.00	0.00	0.00	1.40	0.000	583.	14	
311	3.00	0.00	0.00	0.00	0.00	1.07	0.000	576.	22	
312	3.00	0.00	0.00	1.68	2.04	0.07	153.21	588.	19	
313	3.00	1.66	3.13	1.69	1.85	0.73	0.000	581.	15	
314	3.00	0.69	1.21	1.05	1.19	0.40	21.502	578.	14	
315	3.00	0.00	0.00	2.28	2.76	0.00	0.000	587.	9	
316	3.00	2.68	5.43	1.40	1.38	1.73	27.370	584.	12	
317	3.00	2.79	6.11	0.00	0.00	0.00	3.417	584.	11	
318	3.00	0.00	0.00	1.07	1.29	0.00	0.000	576.	18	
319	3.00	0.00	0.00	0.61	0.74	1.73	550.83	594.	20	
320	3.00	2.88	6.32	0.00	0.00	1.40	0.000	583.	9	
321	3.00	0.00	0.00	0.80	0.97	1.73	0.000	579.	12	
322	3.00	0.88	1.83	0.33	0.30	0.00	28.280	585.	7	
323	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	14	
324	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	14	
325	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	19	
26	3.00	2.17	4.75	0.00	0.00	1.40	0.000	586.	3	
327	3.00	4.21	9.24	0.00	0.00	0.07	0.000	582.	14	
328	3.00	0.00	0.00	0.54	0.65	0.00	0.000	574.	16	Rm2SB07A#38

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
329	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	16	Rm2SB07 #39
330	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	16	
331	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	22	
332	3.00	0.00	0.00	0.28	0.33	1.73	0.000	594.	16	
333	3.00	0.00	0.00	0.00	0.00	0.40	0.000	550.	21	
334	3.00	0.00	0.00	0.28	0.34	1.73	0.000	590.	9	
335	3.00	0.06	0.14	0.00	0.00	2.40	0.000	579.	14	
336	3.00	0.00	0.00	0.00	0.00	0.00	0.000	19.3	41	E
337	3.00	0.00	0.00	1.28	1.55	0.07	0.000	579.	25	
338	3.00	0.00	0.00	0.00	0.00	1.07	0.000	578.	21	
339	3.00	0.00	0.00	0.00	0.00	0.40	0.000	588.	25	
340	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	25	
341	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	20	
342	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	16	
343	3.00	0.00	0.00	0.00	0.00	0.40	0.000	592.	31	
344	3.00	1.21	2.04	1.89	2.15	0.00	40.135	602.	12	
345	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	19	
346	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	11	
347	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	32	
348	3.00	2.16	3.56	3.61	4.11	0.00	135.45	599.	10	
349	3.00	1.49	3.22	0.00	0.00	1.07	0.000	598.	14	
350	3.00	0.00	0.00	0.00	0.00	0.07	167.44	606.	35	
351	3.00	0.00	0.00	0.95	1.14	0.00	0.000	620.	21	
352	3.00	1.59	3.37	0.35	0.23	0.07	0.000	583.	3	
353	3.00	0.14	0.31	0.00	0.00	0.40	0.000	595.	17	
354	3.00	0.00	0.00	1.29	1.56	0.00	1182.4	593.	20	
355	3.00	0.00	0.00	0.00	0.00	1.07	0.000	593.	25	
356	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	20	
357	3.00	0.00	0.00	0.00	0.00	1.70	0.000	605.	17	
358	3.00	1.74	3.18	1.95	2.15	1.73	142.17	596.	15	
359	3.00	0.00	0.00	2.48	3.00	1.40	0.000	603.	20	
360	3.00	0.00	0.00	0.00	0.00	1.80	0.000	611.	36	
361	3.00	0.00	0.00	1.77	2.14	0.00	759.28	617.	9	
362	3.00	0.00	0.00	0.00	0.00	0.07	0.000	585.	22	
363	3.00	0.00	0.00	0.00	0.00	0.73	0.000	612.	23	
364	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	30	
365	3.00	2.27	4.87	0.00	0.00	0.00	151.04	605.	11	
366	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	29	
367	3.00	0.00	0.00	0.00	0.00	1.73	0.000	601.	18	
368	3.00	0.00	0.00	0.00	0.00	1.67	0.000	599.	23	
369	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	21	
370	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	24	
371	3.00	0.00	0.00	0.00	0.00	2.40	0.000	583.	28	
372	3.00	0.00	0.00	5.88	7.11	1.07	131.33	603.	10	
373	3.00	0.00	0.00	0.00	0.00	0.40	0.000	580.	12	
374	3.00	0.27	0.30	0.95	1.11	0.00	127.72	579.	7	
375	3.00	0.00	0.00	0.00	0.00	2.73	0.000	601.	19	
376	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	23	
377	3.00	3.27	7.13	0.00	0.00	0.00	0.000	588.	7	
378	3.00	0.00	0.00	0.00	0.00	0.73	0.000	591.	27	
379	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	16	
380	3.00	0.00	0.00	0.00	0.00	1.40	0.000	600.	20	
381	3.00	0.00	0.00	0.00	0.00	2.07	0.000	588.	22	
382	3.00	0.00	0.00	0.00	0.00	0.73	0.000	604.	14	
383	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	20	
384	3.00	0.64	1.01	1.16	1.33	0.40	96.740	610.	11	Rm 2SB07 #94

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
385	3.00	0.16	0.34	0.00	0.00	0.73	0.000	596.	16	2SBOTH#95
386	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	18	
387	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	14	
388	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	19	
389	3.00	0.00	0.00	0.00	0.00	2.07	0.000	600.	17	
390	3.00	0.00	0.00	0.00	0.00	1.40	0.000	596.	29	•
391	3.00	0.00	0.00	0.00	0.00	1.07	0.000	599.	19	
392	3.00	0.00	0.00	0.00	0.00	3.07	126.69	597.	15	
393	3.00	1.46	3.20	0.00	0.00	0.00	0.000	587.	15	
394	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	15	
395	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	19	
396	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	15	
397	3.00	1.41	3.02	0.00	0.00	0.00	274.81	608.	10	
398	3.00	0.00	0.00	0.00	0.00	1.73	0.000	610.	16	
399	3.00	0.00	0.00	1.46	1.76	0.00	529.01	615.	16	
400	3.00	0.00	0.00	0.00	0.00	1.07	0.000	603.	22	•
401	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	11	
402	3.00	4.12	8.85	0.00	0.00	0.00	0.000	605.	9	
403	3.00	0.00	0.00	0.00	0.00	3.07	0.000	590.	21	
404	3.00	0.00	0.00	2.59	3.13	0.00	49.670	604.	15	
405	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	15	
406	3.00	0.00	0.00	1.28	1.54	0.00	77.450	606.	14	
407	3.00	1.19	2.56	0.00	0.00	0.00	0.000	600.	13	
408	3.00	0.00	0.00	0.00	0.00	0.07	0.000	601.	20	
409	3.00	0.00	0.00	2.28	2.75	0.00	208.60	598.	5	
410	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	16	•
411	3.00	0.98	2.10	0.00	0.00	0.00	0.000	604.	9	
412	3.00	0.00	0.00	2.41	2.91	0.07	312.52	608.	25	2SBOTH#122

Lakeside Hosp 2SB08, 2SB08A, 2SB08B, 2SB09, 2SB12A ; Leak Tests (Not Related to Decomm)

Protocol #:26 Name:Decommissioning2 16-Jun-2004 16:16
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
egion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
ime = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.52		9.45		8.90	56.239	581.	9	B	
2	3.00	16601.5	594.73	114976.	133788.	599.80	164.18	1012	0	E	
3	3.00	105165.	171018.	8579.94	0.00	4.77	20.200	1008	0	E	
4	3.00	0.65	1.08	0.00	0.00	2.10	0.000	995.	13	E	
(2 missing vials)											
7	3.00	0.00	0.00	0.88	1.07	0.00	236.72	591.	16		Rm2SB08#1
8	3.00	0.00	0.00	0.00	0.00	0.77	0.000	585.	10		
9	3.00	1.69	3.19	1.57	1.70	0.00	0.000	591.	7		
10	3.00	0.00	0.00	0.00	0.00	0.00	0.000	544.	10		
11	3.00	0.00	0.00	0.56	0.68	0.00	0.000	574.	7		
12	3.00	1.93	4.25	0.00	0.00	0.00	94.788	576.	8		
13	3.00	0.00	0.00	0.00	0.00	0.00	247.26	587.	15		
14	3.00	0.00	0.00	1.33	1.61	1.43	0.000	576.	5		
15	3.00	0.00	0.00	1.36	1.64	2.10	0.000	572.	12		
16	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	20	•	
17	3.00	1.34	2.13	2.55	2.93	0.00	92.997	597.	8		
18	3.00	0.96	1.48	2.39	2.78	0.20	73.396	520.	14		
19	3.00	1.90	3.74	1.35	1.41	0.00	41.577	590.	7		
20	3.00	0.00	0.00	2.96	3.58	0.00	171.10	582.	7		
21	3.00	0.00	0.00	3.55	4.30	0.00	40.450	576.	12		
22	3.00	1.45	3.20	0.00	0.00	0.00	0.000	573.	8		
23	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	16		
24	3.00	4.60	9.86	0.66	0.25	0.00	36.302	585.	6		
25	3.00	0.00	0.00	0.00	0.00	1.10	0.000	542.	16		
26	3.00	0.00	0.00	2.17	2.63	0.00	61.678	548.	13	•	
27	3.00	0.00	0.00	1.88	2.28	0.00	42.984	595.	16		
28	3.00	3.67	7.80	0.92	0.67	0.00	79.701	579.	6		
29	3.00	0.00	0.00	0.00	0.00	1.10	0.000	591.	18		
30	3.00	1.12	2.44	0.00	0.00	0.00	0.000	594.	2		
31	3.00	0.68	1.31	0.55	0.59	0.00	23.205	587.	9		
32	3.00	1.04	1.39	2.88	3.36	0.00	112.79	587.	6		
33	3.00	0.00	0.00	1.88	2.28	0.00	97.510	602.	10		
34	3.00	4.59	10.05	0.00	0.00	0.00	0.000	585.	9		
35	3.00	0.00	0.00	0.00	0.00	1.71	0.000	612.	19		
36	3.00	1.34	2.90	0.00	0.00	0.00	80.831	599.	9	•	
37	3.00	0.00	0.00	3.43	4.15	0.77	85.667	600.	10		
38	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	21		
39	3.00	0.65	1.41	0.00	0.00	0.00	0.000	594.	11		
40	3.00	0.10	0.00	0.79	0.95	1.10	56.640	601.	9		
41	3.00	0.00	0.00	0.88	1.06	0.43	0.000	595.	9		
42	3.00	0.00	0.00	3.86	4.67	5.43	48.896	597.	12		
43	3.00	1.40	2.46	1.88	2.11	0.77	63.416	597.	5		
44	3.00	0.00	0.00	0.55	0.67	0.00	0.000	594.	20		
45	3.00	0.03	0.00	1.50	1.81	0.00	190.53	601.	11		
46	3.00	0.00	0.00	0.58	0.70	0.00	0.000	593.	17	•	
47	3.00	0.65	1.39	0.00	0.00	0.00	101.80	608.	11		2SB08#41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.62	1.34	0.00	0.00	0.00	0.000	598.	17	2SB08#42
49	3.00	1.44	2.25	2.87	3.30	0.00	140.00	595.	3	
50	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	10	
51	3.00	0.00	0.00	0.18	0.22	0.00	0.000	599.	15	
52	3.00	0.00	0.00	0.00	0.00	0.43	0.000	602.	18	
53	3.00	2.98	6.09	1.17	1.06	0.00	24.542	596.	12	
54	3.00	0.65	1.15	0.88	0.99	1.43	58.723	588.	11	
55	3.00	0.00	0.00	1.20	1.45	0.00	198.48	595.	15	
56	3.00	0.39	0.86	0.00	0.00	0.00	7.773	578.	14	
57	3.00	0.00	0.00	0.95	1.15	0.00	0.000	588.	16	
58	3.00	1.72	3.73	0.00	0.00	0.00	0.000	591.	6	
59	3.00	0.90	1.18	2.55	2.98	0.00	61.743	593.	14	
60	3.00	2.01	3.19	3.91	4.49	0.00	82.906	589.	6	
61	3.00	0.00	0.00	1.25	1.51	0.00	84.699	588.	11	
62	3.00	4.95	10.84	0.00	0.00	1.10	45.709	585.	5	
63	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	15	
64	3.00	0.00	0.00	0.55	0.67	0.00	0.000	584.	20	
65	3.00	0.00	0.00	1.91	2.31	0.00	201.96	591.	14	
66	3.00	1.14	1.69	2.61	3.03	2.77	77.377	590.	15	
67	3.00	2.39	5.15	0.00	0.00	0.00	0.000	601.	9	
68	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	16	
69	3.00	0.03	0.00	2.62	3.16	0.00	130.17	584.	4	
70	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	15	2SB08#64
(1 missing vial)										
72	3.00	3.68	8.08	0.55	0.22	0.00	49.700	559.	8	2SB08A #1
73	3.00	0.00	0.00	1.49	1.80	0.00	0.000	551.	18	
74	3.00	0.11	0.25	0.00	0.00	0.00	0.000	544.	5	
75	3.00	0.00	0.00	2.11	2.55	0.00	49.246	559.	7	
76	3.00	0.05	0.00	1.21	1.46	0.77	71.521	568.	7	
77	3.00	0.00	0.00	0.00	0.00	0.10	0.000	540.	8	
78	3.00	0.00	0.00	0.48	0.58	0.43	0.000	553.	25	
79	3.00	1.92	4.15	1.01	0.98	0.00	24.787	523.	7	
80	3.00	2.68	5.84	0.88	0.73	1.44	50.342	542.	8	
81	3.00	0.92	0.00	6.64	7.92	0.00	71.752	580.	7	
82	3.00	0.18	0.39	0.00	0.00	0.43	0.000	583.	13	
83	3.00	0.89	1.67	0.89	0.97	0.10	46.378	593.	15	
84	3.00	0.00	0.00	3.61	4.37	0.00	234.10	556.	8	
85	3.00	1.38	3.09	0.00	0.00	0.00	0.000	560.	14	
86	3.00	0.00	0.00	2.22	2.69	0.00	85.559	535.	22	
87	3.00	0.00	0.00	1.32	1.60	0.00	1941.5	519.	22	
88	3.00	0.00	0.00	0.00	0.00	0.43	0.000	557.	16	
89	3.00	0.00	0.00	1.72	2.08	0.00	0.000	529.	15	
90	3.00	1.11	2.51	0.00	0.00	0.43	218.12	553.	7	
91	3.00	0.00	0.00	4.52	5.47	1.43	124.07	578.	18	
92	3.00	0.00	0.00	1.03	1.25	0.00	0.000	549.	12	
93	3.00	0.00	0.00	2.65	3.20	0.00	3.184	578.	12	
94	3.00	0.00	0.00	3.95	4.79	0.00	95.186	532.	13	
95	3.00	2.32	5.08	0.00	0.00	0.00	33.490	584.	11	
96	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	24	
97	3.00	0.74	1.67	0.00	0.00	0.00	0.000	551.	11	
98	3.00	0.00	0.00	1.11	1.34	0.00	0.000	559.	13	
99	3.00	0.41	0.36	1.82	2.16	0.00	33.967	528.	9	
100	3.00	0.00	0.00	1.55	1.88	0.43	33.490	552.	11	
01	3.00	0.00	0.00	0.06	0.07	0.00	0.000	514.	16	
102	3.00	0.00	0.00	0.70	0.85	0.10	95.548	562.	19	
103	3.00	0.00	0.00	0.00	0.00	2.77	0.000	576.	28	2SB08A #32

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
104	3.00	2.26	4.92	0.00	0.00	0.43	0.000	589.	13	
105	3.00	0.00	0.00	0.50	0.60	0.00	0.000	572.	16	- 25B08A #34
1 missing vial)										
107	3.00	0.00	0.00	2.58	3.12	0.00	69.354	537.	13	25B8B #1
108	3.00	0.00	0.00	2.22	2.69	1.43	201.95	548.	11	
109	3.00	0.00	0.00	2.58	3.13	0.00	973.54	537.	11	
110	3.00	0.00	0.00	0.34	0.41	0.00	0.000	558.	9	
111	3.00	0.00	0.00	2.97	3.59	0.00	185.26	580.	2	
112	3.00	0.00	0.00	0.00	0.00	2.10	0.000	569.	16	
113	3.00	0.98	2.18	0.00	0.00	0.00	0.000	571.	12	
114	3.00	0.43	0.92	0.00	0.00	0.00	0.000	600.	11	
115	3.00	1.26	1.85	3.00	3.48	0.00	70.353	576.	6	
116	3.00	2.15	4.70	0.00	0.00	0.00	50.138	585.	16	
117	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	14	
118	3.00	0.19	0.00	1.40	1.67	0.00	8.793	580.	7	
119	3.00	0.76	1.68	0.00	0.00	1.43	715.01	579.	13	
120	3.00	0.72	1.45	0.56	0.59	0.00	0.000	559.	6	
121	3.00	0.12	0.26	0.02	0.01	0.00	0.000	583.	14	
122	3.00	0.00	0.00	0.62	0.75	0.00	448.79	583.	22	
123	3.00	0.00	0.00	1.75	2.12	0.80	242.72	608.	11	
124	3.00	0.16	0.00	3.79	4.56	1.10	86.373	599.	5	
125	3.00	0.19	0.00	1.79	2.14	0.00	102.96	556.	4	
126	3.00	0.00	0.00	1.88	2.28	0.00	0.000	545.	9	
127	3.00	0.53	0.33	2.80	3.33	0.00	49.918	554.	2	
128	3.00	1.37	2.89	0.88	0.90	0.00	13.572	531.	7	
129	3.00	1.68	3.56	0.94	0.93	0.00	48.843	537.	5	
130	3.00	0.00	0.00	2.19	2.65	0.00	0.000	544.	16	
131	3.00	3.50	7.15	2.51	2.60	1.43	18.697	549.	2	
32	3.00	0.00	0.00	0.00	0.00	0.00	0.000	545.	7	
133	3.00	3.07	6.69	0.22	0.00	0.77	86.485	578.	5	
134	3.00	0.00	0.00	1.85	2.24	0.00	236.15	599.	15	25B8B# 28
(1 missing vial)										
136	3.00	0.83	1.21	1.98	2.29	0.00	54.333	589.	13	25B09 #1
137	3.00	0.00	0.00	0.00	0.00	2.77	0.000	581.	13	
138	3.00	0.76	1.61	0.22	0.17	0.00	11.260	579.	4	
139	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	12	
140	3.00	1.23	2.31	1.33	1.46	0.00	65.231	576.	8	
141	3.00	0.00	0.00	2.55	3.08	1.10	141.90	585.	15	
142	3.00	1.37	2.24	2.55	2.92	0.00	142.38	577.	6	
143	3.00	0.00	0.00	2.55	3.08	1.77	378.81	588.	15	
144	3.00	0.00	0.00	1.25	1.51	0.00	0.000	589.	4	
145	3.00	0.75	1.63	0.00	0.00	0.00	0.000	591.	2	
146	3.00	0.43	0.36	1.88	2.23	0.00	73.528	582.	4	
147	3.00	2.29	4.71	0.96	0.90	2.10	43.947	588.	7	
148	3.00	1.03	2.24	0.00	0.00	0.00	106.58	588.	6	
149	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	9	
150	3.00	0.85	1.86	0.00	0.00	1.43	0.000	586.	13	
151	3.00	0.37	0.52	0.91	1.06	0.00	0.000	589.	6	
152	3.00	1.09	2.38	0.00	0.00	0.00	75.713	592.	4	
153	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	12	
154	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	11	
155	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	12	
156	3.00	0.00	0.00	2.55	3.09	1.77	167.59	578.	12	
57	3.00	0.00	0.00	0.93	1.13	0.00	0.000	586.	13	
158	3.00	1.48	2.51	2.41	2.74	0.00	81.030	584.	8	
159	3.00	3.50	7.26	1.40	1.28	0.00	8.662	580.	8	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
160	3.00	0.09	0.00	1.25	1.50	0.00	0.000	589.	2	
161	3.00	0.00	0.00	0.00	0.00	4.10	0.000	570.	9	
162	3.00	2.82	6.02	0.00	0.00	0.43	43.216	611.	0	
163	3.00	1.75	3.12	2.14	2.39	0.00	48.043	605.	8	
164	3.00	0.00	0.00	0.00	0.00	3.43	0.000	586.	9	
165	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	11	
166	3.00	1.96	4.25	0.00	0.00	0.00	166.28	595.	13	
167	3.00	0.00	0.00	3.88	4.69	2.77	207.59	598.	13	
168	3.00	3.39	7.37	0.00	0.00	4.10	77.219	592.	5	
169	3.00	0.00	0.00	0.52	0.63	0.00	0.000	595.	19	
170	3.00	0.00	0.00	0.00	0.00	0.10	0.000	584.	22	
171	3.00	0.00	0.00	0.61	0.74	0.00	148.19	587.	11	
172	3.00	0.00	0.00	0.00	0.00	1.10	0.000	597.	15	
173	3.00	0.00	0.00	3.57	4.32	0.00	93.588	592.	7	
174	3.00	0.00	0.00	5.55	6.71	0.43	19.118	609.	9	
175	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	7	
176	3.00	2.78	5.97	0.00	0.00	0.00	57.759	604.	7	
177	3.00	0.00	0.00	2.22	2.68	0.00	107.63	613.	11	
178	3.00	0.88	1.66	0.77	0.83	0.00	0.000	600.	4	
179	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	18	
180	3.00	0.00	0.00	2.22	2.68	0.10	526.95	605.	12	
181	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	12	
182	3.00	0.00	0.00	1.83	2.21	0.00	0.000	598.	13	
183	3.00	0.10	0.00	3.75	4.52	0.00	164.43	603.	7	
184	3.00	2.45	4.95	1.22	1.19	1.43	50.853	595.	2	
185	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	7	
186	3.00	0.97	1.84	0.81	0.87	0.77	40.713	604.	15	
187	3.00	0.00	0.00	0.00	0.00	0.77	0.000	599.	7	
188	3.00	0.00	0.00	0.00	0.00	1.10	0.000	611.	21	
189	3.00	0.00	0.00	0.00	0.00	1.43	0.000	597.	12	
190	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	9	
191	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	14	
192	3.00	0.00	0.00	0.54	0.65	1.77	143.43	596.	8	
193	3.00	0.00	0.00	2.17	2.62	0.00	3.258	601.	19	
194	3.00	0.00	0.00	1.59	1.92	0.00	204.66	608.	16	
195	3.00	0.26	0.56	0.00	0.00	0.00	2230.4	604.	15	
196	3.00	0.00	0.00	2.88	3.48	0.00	137.97	613.	16	
197	3.00	5.91	12.68	0.00	0.00	1.77	0.000	606.	5	
198	3.00	3.11	6.66	0.00	0.00	0.00	27.448	607.	9	
199	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	24	
200	3.00	2.29	4.96	0.00	0.00	0.00	0.000	596.	13	
201	3.00	1.32	2.82	0.00	0.00	2.77	221.12	608.	11	
202	3.00	1.59	3.45	0.00	0.00	0.00	0.000	596.	14	
203	3.00	0.00	0.00	2.88	3.49	0.00	97.862	597.	14	
204	3.00	0.90	1.88	0.22	0.16	0.00	84.095	596.	15	
205	3.00	1.16	1.97	1.71	1.93	0.00	71.546	606.	10	
206	3.00	0.00	0.00	2.88	3.48	0.00	182.07	604.	11	
207	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	13	
208	3.00	0.00	0.00	5.35	6.46	0.00	121.01	601.	10	
209	3.00	2.92	6.27	0.00	0.00	1.77	78.316	605.	17	
210	3.00	4.08	8.84	0.00	0.00	0.00	12.307	596.	5	
211	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	25	
212	3.00	0.26	0.50	0.22	0.23	0.00	0.000	602.	14	-25B09 #77
missing vial)										
214	3.00	1.41	2.20	2.79	3.20	2.10	118.57	601.	9	-25B09 #79
215	3.00	0.72	1.00	1.79	2.08	0.00	106.81	607.	12	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
216	3.00	1.92	3.83	0.88	0.84	0.00	47.883	615.	11	
217	3.00	0.45	0.93	0.09	0.05	0.10	0.000	612.	11	
218	3.00	0.00	0.00	0.64	0.78	0.77	0.000	611.	17	
219	3.00	2.17	4.60	0.06	0.00	1.43	33.588	616.	9	
220	3.00	0.00	0.00	0.78	0.94	0.00	0.000	609.	10	
221	3.00	0.00	0.00	0.86	1.04	0.00	0.000	597.	11	
222	3.00	4.17	8.30	2.11	2.07	1.43	40.605	609.	4	
223	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	20	X
224	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	12	
225	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	18	
226	3.00	0.30	0.35	0.96	1.12	0.00	0.000	612.	7	
227	3.00	0.00	0.00	0.00	0.00	0.43	0.000	615.	24	
228	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	15	
229	3.00	0.00	0.00	0.85	1.03	1.77	0.000	599.	16	
230	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	12	
231	3.00	0.00	0.00	0.55	0.67	0.00	0.000	602.	13	
232	3.00	0.00	0.00	0.00	0.00	0.43	0.000	599.	17	
233	3.00	0.00	0.00	1.20	1.45	0.00	1154.5	595.	11	X
234	3.00	0.00	0.00	1.55	1.87	0.00	0.000	594.	15	
235	3.00	1.76	3.76	0.19	0.02	0.77	1.005	596.	5	
236	3.00	0.38	0.57	0.80	0.92	0.77	50.720	606.	12	
237	3.00	0.12	0.22	0.11	0.12	1.43	246.03	609.	10	
238	3.00	1.34	2.81	0.22	0.11	0.43	75.234	610.	9	
239	3.00	0.00	0.00	0.12	0.15	0.00	0.000	607.	18	
240	3.00	0.00	0.00	0.00	0.00	0.00	0.000	17.8	40	E
241	3.00	0.91	1.40	1.90	2.19	0.00	49.911	591.	13	
242	3.00	0.04	0.00	0.55	0.66	0.00	405.17	579.	8	
243	3.00	0.44	0.89	0.15	0.13	0.00	0.000	603.	8	
244	3.00	0.00	0.00	0.00	0.00	1.43	0.000	602.	9	
245	3.00	0.59	0.88	1.31	1.51	0.10	0.000	587.	9	
246	3.00	0.00	0.00	2.49	3.00	2.10	303.71	603.	18	
247	3.00	0.00	0.00	1.22	1.47	1.43	0.000	576.	19	
248	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	14	
249	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	10	
250	3.00	1.95	4.23	0.00	0.00	0.77	0.000	595.	14	
251	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	12	
252	3.00	0.00	0.00	0.19	0.23	2.10	0.000	598.	12	
253	3.00	1.68	3.64	0.00	0.00	0.00	0.000	593.	10	X
254	3.00	2.07	4.51	0.00	0.00	0.10	0.000	587.	6	
255	3.00	1.32	2.85	0.00	0.00	0.00	0.000	597.	12	
256	3.00	0.33	0.71	0.00	0.00	0.77	0.000	591.	10	
257	3.00	0.49	0.41	2.12	2.51	0.00	113.08	623.	5	
258	3.00	0.94	2.03	0.00	0.00	1.77	0.000	595.	14	
259	3.00	0.00	0.00	0.88	1.07	0.00	172.21	579.	22	
260	3.00	0.28	0.52	0.28	0.31	0.43	41.072	584.	9	
261	3.00	1.02	2.15	0.18	0.10	0.00	115.63	599.	11	
262	3.00	0.00	0.00	1.55	1.87	0.00	597.91	592.	19	
263	3.00	2.63	5.13	1.88	1.96	1.77	19.443	594.	11	
264	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	13	
265	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	13	2SB09 #132
(1 missing vial)										
267	3.00	0.29	0.23	1.33	1.57	0.00	121.62	576.	6	1SB12A#1
268	3.00	0.44	0.51	1.54	1.81	2.10	16.435	543.	4	
269	3.00	0.00	0.00	1.57	1.91	0.77	155.52	538.	4	
270	3.00	1.93	4.26	0.00	0.00	0.00	0.000	577.	7	
271	3.00	0.00	0.00	0.38	0.46	0.43	0.000	568.	4	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
272	3.00	0.00	0.00	0.00	0.00	0.00	0.000	530.	16	
273	3.00	3.72	8.24	0.95	0.69	0.00	0.000	538.	2	
274	3.00	0.00	0.00	0.00	0.00	0.00	0.000	534.	5	
275	3.00	0.00	0.00	1.97	2.39	0.00	17.892	551.	10	
276	3.00	1.73	3.83	0.00	0.00	0.00	0.000	574.	6	
277	3.00	1.45	3.19	0.00	0.00	0.00	0.000	582.	2	
278	3.00	0.00	0.00	0.00	0.00	0.00	0.000	556.	7	
279	3.00	0.00	0.00	1.22	1.47	0.00	241.31	549.	4	
280	3.00	0.00	0.00	0.00	0.00	0.00	0.000	548.	11	
281	3.00	0.00	0.00	0.22	0.26	1.77	0.000	560.	2	
282	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	13	
283	3.00	0.21	0.46	0.00	0.00	0.00	0.000	555.	2	
284	3.00	0.00	0.00	1.88	2.28	0.00	94.686	541.	11	
285	3.00	0.47	0.00	4.10	4.92	0.00	36.277	545.	5	
286	3.00	1.79	2.89	3.80	4.38	0.00	5.379	545.	6	
287	3.00	1.40	3.11	0.00	0.00	0.00	0.000	570.	7	
288	3.00	0.19	0.43	0.00	0.00	0.43	0.000	561.	6	
289	3.00	0.61	1.40	0.00	0.00	0.00	0.000	537.	8	
290	3.00	0.00	0.00	0.00	0.00	0.00	0.000	555.	12	
291	3.00	0.00	0.00	2.16	2.62	0.00	138.87	550.	7	
292	3.00	0.95	2.22	0.00	0.00	2.77	0.000	526.	10	
293	3.00	1.60	3.28	1.21	1.27	0.00	26.461	542.	13	
294	3.00	0.60	1.39	0.00	0.00	0.00	0.000	530.	10	
295	3.00	0.00	0.00	1.06	1.29	0.00	0.000	514.	18	
296	3.00	0.93	1.79	1.29	1.45	0.00	29.590	510.	9	
297	3.00	0.00	0.00	0.00	0.00	0.00	0.000	520.	22	
298	3.00	0.10	0.01	0.73	0.88	0.00	0.000	475.	12	
299	3.00	0.00	0.00	1.08	1.31	1.10	0.000	497.	7	
300	3.00	2.43	5.66	0.00	0.00	0.00	1.544	525.	16	
301	3.00	0.00	0.00	0.00	0.00	1.43	0.000	534.	10	
302	3.00	5.33	11.61	0.59	0.08	0.00	6.077	574.	6	
303	3.00	1.09	1.46	3.36	3.95	0.00	63.751	519.	13	
304	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	16	
305	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	23	
306	3.00	0.00	0.00	3.99	4.83	0.00	39.457	577.	5	
307	3.00	1.62	3.56	0.00	0.00	0.00	0.000	580.	8	
308	3.00	0.00	0.00	0.00	0.00	0.54	0.000	572.	9	
309	3.00	1.50	2.40	3.00	3.46	0.00	58.482	570.	11	
310	3.00	2.01	4.43	0.00	0.00	1.43	6.852	578.	9	
311	3.00	0.00	0.00	2.23	2.70	0.00	9022.2	591.	19	
312	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	11	
313	3.00	0.00	0.00	0.22	0.26	0.77	0.000	564.	15	
314	3.00	0.00	0.00	0.55	0.67	0.77	0.232	542.	20	
315	3.00	2.49	5.72	0.00	0.00	0.00	16.013	538.	18	
316	3.00	0.00	0.00	2.56	3.11	0.00	48.795	540.	12	
317	3.00	0.00	0.00	3.88	4.70	0.10	90.845	552.	14	
318	3.00	0.00	0.00	0.00	0.00	0.00	0.000	560.	25	
319	3.00	0.59	0.55	2.55	3.02	0.00	46.318	541.	13	
320	3.00	0.00	0.00	0.00	0.00	1.77	0.000	580.	27	
321	3.00	0.00	0.00	0.55	0.67	0.00	156.02	541.	25	
322	3.00	0.00	0.00	0.13	0.15	0.77	0.000	556.	15	
323	3.00	0.00	0.00	0.00	0.00	0.00	0.000	546.	18	
324	3.00	2.52	5.59	0.00	0.00	0.00	0.000	570.	19	
325	3.00	0.39	0.58	0.93	1.07	0.10	107.68	564.	22	
326	3.00	0.00	0.00	4.48	5.42	0.00	168.47	580.	14	
327	3.00	1.17	1.75	2.59	3.00	0.00	94.179	587.	15	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
328	3.00	0.00	0.00	2.13	2.58	0.00	196.21	600.	21	
329	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	27	
330	3.00	0.00	0.00	0.70	0.85	0.00	0.000	570.	16	
331	3.00	0.00	0.00	0.09	0.11	0.00	0.000	577.	23	
332	3.00	0.21	0.46	0.00	0.00	0.77	0.000	559.	11	
333	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	15	
334	3.00	0.00	0.00	2.42	2.93	0.00	207.06	562.	25	
335	3.00	1.32	2.80	0.55	0.51	0.00	54.515	555.	10	
336	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	28	•
337	3.00	0.86	1.32	1.98	2.29	0.00	47.265	554.	11	
338	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	17	
339	3.00	0.90	2.00	0.00	0.00	0.00	104.28	570.	16	
340	3.00	0.00	0.00	0.00	0.00	0.00	0.000	557.	26	
341	3.00	1.42	3.14	0.00	0.00	0.10	0.000	575.	18	
342	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	15	
343	3.00	0.00	0.00	3.75	4.53	0.00	85.307	563.	19	
344	3.00	0.64	0.64	2.53	2.98	0.00	78.092	582.	11	
345	3.00	0.00	0.00	0.62	0.76	0.00	541.59	582.	13	
346	3.00	0.79	1.76	0.00	0.00	0.10	0.000	568.	13	•
347	3.00	0.00	0.00	1.82	2.19	0.00	183.05	604.	16	
348	3.00	0.90	0.79	3.88	4.59	0.00	35.210	577.	13	
349	3.00	0.00	0.00	3.07	3.71	1.10	86.094	565.	18	
350	3.00	0.94	2.14	0.00	0.00	0.00	0.000	549.	16	
351	3.00	0.00	0.00	2.76	3.35	5.43	0.000	551.	28	
352	3.00	2.25	4.96	0.00	0.00	0.00	0.000	580.	9	
353	3.00	2.13	4.65	0.00	0.00	0.00	0.000	589.	16	
354	3.00	1.29	2.78	0.00	0.00	0.00	0.000	598.	13	
355	3.00	0.18	0.32	0.22	0.24	0.00	22.553	593.	19	
356	3.00	0.00	0.00	0.00	0.00	0.00	347.26	586.	22	•
357	3.00	0.00	0.00	1.57	1.90	0.00	54.852	585.	26	
358	3.00	3.05	6.59	0.00	0.00	0.00	4.232	600.	8	
359	3.00	0.00	0.00	0.00	0.00	1.10	0.000	592.	14	
360	3.00	0.00	0.00	1.22	1.47	0.00	0.000	595.	10	
361	3.00	0.40	0.60	0.88	1.02	0.00	233.90	594.	6	
362	3.00	0.00	0.00	1.65	2.00	0.00	0.000	586.	12	
363	3.00	3.64	7.86	0.31	0.00	0.00	3.279	586.	5	
364	3.00	0.00	0.00	3.29	3.98	0.00	154.77	588.	9	
365	3.00	3.31	7.22	0.00	0.00	0.00	44.471	589.	8	
366	3.00	0.00	0.00	0.55	0.66	0.00	0.000	594.	18	•
367	3.00	0.00	0.00	2.97	3.59	0.00	165.18	603.	6	
368	3.00	0.00	0.00	2.56	3.10	0.00	126.93	592.	15	
369	3.00	0.00	0.00	1.88	2.28	0.00	163.08	593.	13	
370	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	10	
371	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	20	
372	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	17	
373	3.00	0.00	0.00	2.63	3.17	0.00	334.23	588.	7	
374	3.00	0.00	0.00	1.88	2.28	0.00	253.38	589.	11	
375	3.00	2.62	5.24	1.88	1.97	0.00	58.843	571.	11	
376	3.00	2.35	4.68	1.64	1.71	0.00	20.271	578.	18	•
377	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	17	
378	3.00	0.00	0.00	0.00	0.00	0.00	0.000	572.	28	-1SB12AH#112
(6 missing vials)										
385	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	22	
386	3.00	0.00	0.00	2.22	2.68	0.00	209.77	591.	7	
387	3.00	0.00	0.00	2.99	3.61	0.00	133.39	588.	15	
388	3.00	0.00	0.00	1.03	1.25	0.00	0.000	582.	18	

Leak Test Resu
Not Relate
To Recov

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
389	3.00	0.00	0.00	0.79	0.96	0.00	0.000	613.	4	
390	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	20	
391	3.00	0.00	0.00	0.22	0.26	0.00	0.000	631.	8	
392	3.00	0.00	0.00	0.19	0.23	0.43	0.000	598.	7	
393	3.00	2.13	4.25	1.15	1.15	0.00	15.099	599.	5	

FRONT PIN JAM FWD

Lakeside Hosp. 1SB 1S, 2SB Incinerator, 716D

Protocol #:26 Name:Decommissioning2 18-Jun-2004 11:56
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
egion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
ime = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.12		9.83		8.70	54.906	580.	10	B	
2	3.00	16534.3	411.54	115290.	134170.	572.03	164.08	1011	0	E	
3	3.00	105253.	171432.	8736.01	0.00	1.63	20.180	1004	0	E	
4	3.00	0.00	0.00	0.00	0.00	0.00	0.000	997.	25	E	
(2 missing vials)											
7	3.00	3.19	6.81	0.00	0.00	0.00	0.000	611.	12		1SB13 #1
8	3.00	0.00	0.00	0.00	0.00	1.55	0.000	567.	11		
9	3.00	1.87	3.81	1.23	1.26	0.97	17.572	563.	15		
10	3.00	1.50	3.31	0.00	0.00	0.00	11.084	579.	13		
11	3.00	0.58	1.28	0.00	0.00	1.63	41.171	582.	14		
12	3.00	0.00	0.00	0.93	1.13	0.00	0.000	578.	33		
13	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	30		
14	3.00	0.00	0.00	2.31	2.80	1.30	55.373	571.	21		
15	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	29		
16	3.00	0.97	0.94	3.83	4.52	0.00	82.821	584.	13	*	
17	3.00	0.00	0.00	2.83	3.43	0.00	124.63	579.	19		
18	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	24		
19	3.00	3.96	8.09	1.90	1.83	0.00	38.611	584.	10		
20	3.00	0.00	0.00	0.93	1.13	1.63	0.000	579.	21		
21	3.00	0.37	0.21	1.94	2.30	0.00	94.025	578.	22		
22	3.00	0.36	0.78	0.00	0.00	0.00	0.000	582.	30		
23	3.00	0.00	0.00	0.86	1.04	0.00	297.91	589.	18		
24	3.00	0.00	0.00	0.84	1.02	2.97	0.000	592.	27		
25	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	50		
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	21	*	
27	3.00	1.35	2.95	0.00	0.00	1.30	0.000	590.	13		
28	3.00	0.00	0.00	0.58	0.70	0.00	0.000	582.	18		
29	3.00	1.35	2.95	0.00	0.00	0.30	0.000	584.	9		
30	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	14		
31	3.00	0.00	0.00	1.19	1.44	2.63	1010.3	590.	12		
32	3.00	0.00	0.00	2.15	2.60	0.63	295.95	577.	6		
33	3.00	0.00	0.00	0.84	1.02	0.00	685.30	593.	29		
34	3.00	3.93	8.00	1.95	1.90	0.00	30.110	584.	9		
35	3.00	6.41	13.86	0.83	0.25	0.00	25.496	579.	7		
36	3.00	0.00	0.00	2.31	2.79	1.30	169.77	607.	11	*	
37	3.00	0.00	0.00	0.00	0.00	0.00	141.82	600.	17		
38	3.00	2.29	5.04	0.00	0.00	0.00	37.089	580.	11		
39	3.00	0.00	0.00	0.17	0.20	1.30	0.000	605.	6		
40	3.00	0.38	0.48	1.17	1.37	0.00	140.05	594.	11		
41	3.00	1.47	3.15	0.00	0.00	2.30	27.112	603.	6		
42	3.00	0.99	1.69	1.50	1.70	0.00	105.64	602.	13		
43	3.00	2.47	4.47	2.83	3.14	0.00	57.186	598.	5		
44	3.00	0.71	1.52	0.00	0.00	1.97	72.205	608.	10		
45	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	17		
46	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	15	*	
47	3.00	0.00	0.00	0.00	0.00	1.85	0.000	595.	19		1SB13 # 41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	1.50	1.81	0.00	162.97	600.	14	ISB13#42
49	3.00	4.52	9.22	1.72	1.56	0.00	76.823	602.	7	
50	3.00	0.00	0.00	0.00	0.00	2.68	0.000	601.	17	
51	3.00	0.70	0.00	6.24	7.46	0.00	94.193	603.	6	
52	3.00	0.87	1.86	0.00	0.00	0.30	86.899	607.	8	
53	3.00	1.05	2.27	0.00	0.00	0.30	0.000	599.	13	
54	3.00	1.43	2.51	1.87	2.09	0.00	48.156	608.	5	
55	3.00	3.10	6.68	0.00	0.00	0.00	10.378	604.	7	
56	3.00	1.47	3.16	0.00	0.00	1.30	15.247	602.	13	
57	3.00	1.96	4.25	0.00	0.00	2.63	12.208	592.	16	
58	3.00	0.00	0.00	2.92	3.53	1.30	93.412	605.	7	
59	3.00	0.76	1.63	0.00	0.00	0.00	0.000	604.	14	
60	3.00	0.00	0.00	0.84	1.01	0.30	0.000	593.	14	
61	3.00	0.74	1.57	0.17	0.12	0.00	218.21	587.	9	
62	3.00	0.00	0.00	1.92	2.32	1.30	67.800	581.	14	
63	3.00	0.00	0.00	0.00	0.00	0.30	0.000	596.	15	
64	3.00	0.69	1.50	0.00	0.00	0.00	3.551	588.	13	
65	3.00	2.27	4.44	1.50	1.55	0.00	54.483	602.	15	
66	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	36	
67	3.00	0.00	0.00	0.43	0.51	0.00	0.000	605.	10	
68	3.00	5.46	11.34	1.87	1.62	0.00	29.808	589.	3	
69	3.00	0.00	0.00	0.00	0.00	0.00	437.12	596.	16	
70	3.00	0.00	0.00	0.17	0.20	0.00	0.000	596.	20	
71	3.00	2.84	6.01	0.46	0.22	0.32	87.483	597.	5	
72	3.00	0.53	0.48	2.27	2.68	0.97	95.697	578.	14	
73	3.00	1.42	3.06	0.00	0.00	0.30	155.17	600.	11	
74	3.00	0.36	0.11	2.19	2.61	0.00	67.403	590.	10	
75	3.00	3.96	8.60	0.00	0.00	0.00	0.000	593.	15	
76	3.00	4.47	9.41	0.50	0.09	0.00	97.546	608.	5	
77	3.00	0.88	1.92	0.00	0.00	0.30	0.000	592.	22	
78	3.00	0.66	0.77	2.17	2.54	0.00	140.70	595.	13	
79	3.00	2.66	5.74	0.00	0.00	0.00	33.764	600.	14	
80	3.00	0.00	0.00	2.48	3.00	0.00	259.50	597.	18	
81	3.00	2.80	4.91	3.75	4.21	0.00	117.08	600.	8	
82	3.00	0.80	1.75	0.00	0.00	2.63	0.000	594.	7	ISB13#76
(2 missing vials)										
85	3.00	3.53	6.14	4.74	5.32	0.00	46.972	607.	5	2SB Inc#1
86	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	2	
87	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	13	
88	3.00	0.00	0.00	2.36	2.86	0.00	260.03	586.	7	
89	3.00	0.00	0.00	0.53	0.64	2.97	0.000	590.	16	
90	3.00	0.61	1.34	0.02	0.00	0.63	216.34	579.	6	
91	3.00	0.80	1.74	0.00	0.00	0.00	1.944	590.	6	
92	3.00	2.46	5.21	0.53	0.35	0.00	33.090	589.	4	
93	3.00	1.71	3.74	0.00	0.00	0.00	19.265	584.	7	
94	3.00	1.11	2.06	1.19	1.30	0.00	51.645	591.	5	
95	3.00	1.08	2.36	0.00	0.00	0.63	196.93	585.	6	
96	3.00	2.41	5.23	0.00	0.00	0.00	194.51	594.	9	
97	3.00	0.00	0.00	3.56	4.31	0.00	490.90	584.	12	
98	3.00	0.14	0.30	0.00	0.00	0.29	0.000	582.	0	
99	3.00	0.00	0.00	2.52	3.04	0.00	231.17	592.	7	
100	3.00	0.00	0.00	0.00	0.00	1.63	0.000	593.	12	
101	3.00	0.00	0.00	1.01	1.22	0.00	0.000	580.	9	
02	3.00	0.00	0.00	0.55	0.66	0.00	190.60	590.	6	
103	3.00	0.00	0.00	0.89	1.08	0.00	232.87	589.	6	
104	3.00	0.00	0.00	1.51	1.82	1.30	1382.4	593.	14	2SBInc#20

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
105	3.00	0.81	0.59	3.85	4.56	0.00	135.17	591.	3	3-2SBInc in #2
106	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	10	
107	3.00	0.13	0.29	0.00	0.00	0.00	0.000	590.	5	
108	3.00	0.00	0.00	1.59	1.93	0.00	29.578	587.	11	
109	3.00	4.63	10.12	0.00	0.00	1.30	0.000	587.	10	
110	3.00	2.59	5.73	0.00	0.00	0.00	6.959	574.	11	
111	3.00	0.04	0.09	0.00	0.00	0.00	44.626	574.	10	
112	3.00	0.00	0.00	3.17	3.83	0.00	155.57	587.	13	
113	3.00	2.08	4.51	0.00	0.00	0.00	127.71	593.	9	
114	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	11	•
115	3.00	0.00	0.00	1.68	2.03	0.63	372.00	580.	6	
116	3.00	0.00	0.00	0.56	0.68	0.00	0.000	589.	27	
117	3.00	1.21	2.69	0.00	0.00	1.30	146.40	569.	12	
118	3.00	2.39	5.04	0.61	0.46	0.00	79.918	586.	7	
119	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	13	
120	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	16	
121	3.00	0.10	0.00	1.45	1.74	0.00	158.31	550.	11	
122	3.00	0.50	0.90	0.72	0.81	0.00	109.04	560.	11	
123	3.00	0.00	0.00	0.00	0.00	0.00	0.000	559.	27	
124	3.00	0.00	0.00	2.35	2.84	0.63	0.000	580.	19	•
125	3.00	0.00	0.00	0.00	0.00	0.30	0.000	524.	12	
126	3.00	4.80	10.14	3.17	3.24	0.63	23.799	526.	4	
127	3.00	0.41	0.67	0.83	0.96	0.00	0.000	550.	9	
128	3.00	0.08	0.00	0.83	1.00	0.00	49.184	574.	9	
129	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	12	
130	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	7	
131	3.00	0.83	1.54	0.89	0.97	0.00	74.124	590.	0	
132	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	10	
133	3.00	0.17	0.38	0.00	0.00	1.63	0.000	565.	14	
134	3.00	0.00	0.00	0.00	0.00	0.00	0.000	524.	7	•
135	3.00	0.00	0.00	3.17	3.85	0.00	299.12	514.	2	
136	3.00	2.83	6.28	0.17	0.00	0.00	52.844	561.	4	
137	3.00	0.00	0.00	0.26	0.31	0.00	4756.8	580.	10	
138	3.00	1.04	2.26	0.26	0.18	0.00	60.357	561.	6	
139	3.00	0.00	0.00	2.22	2.69	0.00	235.41	582.	7	
140	3.00	0.25	0.06	1.63	1.94	0.00	153.98	584.	10	
141	3.00	1.10	2.04	1.20	1.32	0.63	26.459	589.	5	
142	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	14	
143	3.00	0.00	0.00	4.72	5.72	0.00	229.16	559.	6	
144	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	14	•
145	3.00	0.00	0.00	0.00	0.00	2.63	0.000	586.	9	
146	3.00	0.00	0.00	3.56	4.30	0.00	0.000	585.	10	
147	3.00	0.00	0.00	0.27	0.32	0.00	480.89	578.	6	
148	3.00	2.71	5.84	0.17	0.00	0.00	9.582	593.	10	
149	3.00	0.00	0.00	0.92	1.11	2.55	174.30	587.	13	
150	3.00	2.67	5.39	1.60	1.62	0.00	49.519	578.	6	-2SBInc #66
(6 missing vials)										
157	3.00	0.00	0.00	2.57	3.11	1.97	379.21	582.	12	7160 #1
158	3.00	0.08	0.17	0.00	0.00	0.00	0.000	592.	10	
159	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	16	
160	3.00	3.62	6.67	3.76	4.13	0.00	42.245	599.	0	
161	3.00	0.00	0.00	0.00	0.00	0.63	0.000	594.	17	
162	3.00	1.13	2.19	0.83	0.88	0.00	132.55	603.	5	
163	3.00	0.45	0.43	1.82	2.14	0.30	81.264	595.	7	
164	3.00	0.00	0.00	0.00	0.00	1.30	0.000	587.	17	
165	3.00	0.00	0.00	1.50	1.81	2.63	80.156	599.	11	7160 #9

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
166	3.00	0.41	0.23	2.17	2.57	0.30	183.67	589.	8.	716D#10
167	3.00	0.00	0.00	0.00	0.00	0.00	20.751	580.	17	
168	3.00	0.00	0.00	0.00	0.00	0.97	0.000	595.	13	
169	3.00	2.71	5.23	2.17	2.31	0.00	104.88	593.	9	
170	3.00	1.48	3.21	0.00	0.00	0.00	158.04	597.	6	
171	3.00	0.00	0.00	1.98	2.38	0.00	164.15	620.	11	
172	3.00	0.10	0.21	0.00	0.00	0.00	0.000	597.	10	
173	3.00	0.00	0.00	1.17	1.41	0.00	62.397	606.	11	
174	3.00	1.56	3.35	0.00	0.00	0.97	0.000	607.	12	
175	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	12	
176	3.00	0.07	0.00	4.79	5.77	1.97	89.371	601.	10.	
177	3.00	1.48	3.19	0.00	0.00	0.00	0.000	597.	8	
178	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	15	
179	3.00	2.78	5.96	0.00	0.00	0.00	18.776	606.	13	
180	3.00	0.05	0.00	1.83	2.21	0.30	342.95	598.	10	
181	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	7	
182	3.00	1.38	2.96	0.00	0.00	0.97	185.88	609.	12	
183	3.00	4.22	8.96	0.00	0.00	0.00	27.944	617.	10	
184	3.00	2.13	4.59	0.00	0.00	0.00	0.000	602.	9	
185	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	16	
186	3.00	3.92	7.73	2.43	2.49	0.00	34.712	599.	2.	
187	3.00	1.41	2.70	1.23	1.32	0.00	16.282	585.	5	
188	3.00	0.02	0.05	0.00	0.00	0.00	0.000	602.	14	
189	3.00	0.00	0.00	0.15	0.18	0.00	0.000	597.	4	
190	3.00	0.56	0.98	0.74	0.83	1.30	250.10	607.	6	
191	3.00	1.56	3.34	0.00	0.00	0.00	0.000	606.	12	
192	3.00	2.86	5.54	2.11	2.21	0.00	52.185	599.	5	
193	3.00	1.08	2.33	0.00	0.00	0.00	0.000	597.	10	
194	3.00	0.00	0.00	0.39	0.47	0.00	0.000	600.	14	
195	3.00	0.00	0.00	0.00	0.00	0.00	226.77	590.	17	
196	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	9.	
197	3.00	2.04	4.45	0.00	0.00	0.00	192.60	588.	9	
198	3.00	0.44	0.94	0.00	0.00	0.00	0.000	601.	8	
199	3.00	0.00	0.00	2.05	2.48	0.00	399.02	602.	13	
200	3.00	0.53	1.14	0.00	0.00	0.00	0.000	599.	5	
201	3.00	1.80	3.83	0.00	0.00	1.97	0.000	614.	6	
202	3.00	0.00	0.00	0.17	0.20	0.00	0.000	604.	9	
203	3.00	0.00	0.00	1.11	1.34	2.30	325.42	602.	10	
204	3.00	0.00	0.00	0.49	0.59	1.63	663.96	595.	12	
205	3.00	0.44	0.94	0.00	0.00	0.00	0.000	602.	8	
206	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	16.	
207	3.00	0.00	0.00	1.03	1.25	2.11	0.000	540.	6	
208	3.00	1.15	1.27	4.18	4.92	0.00	85.010	567.	3	
209	3.00	0.00	0.00	0.00	0.00	1.91	0.000	582.	10	
210	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	14	
211	3.00	1.39	3.03	0.00	0.00	0.00	0.000	586.	8	
212	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	6	
213	3.00	4.37	9.62	0.00	0.00	0.00	12.779	579.	5	
214	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	9	
215	3.00	0.10	0.23	0.00	0.00	0.00	698.16	591.	8	
216	3.00	0.00	0.00	0.02	0.03	0.97	0.000	579.	11.	
217	3.00	2.79	6.04	0.00	0.00	0.00	48.464	597.	7	
218	3.00	0.00	0.00	3.50	4.23	0.00	126.46	590.	9	
219	3.00	0.87	1.34	1.86	2.15	0.00	156.47	579.	4	
220	3.00	0.00	0.00	1.73	2.10	0.00	153.35	601.	11	
221	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	9	716D#65

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
222	3.00	1.41	2.71	1.11	1.18	0.00	39.818	598.	12	7160#66
223	3.00	0.00	0.00	5.24	6.34	0.00	154.63	582.	7	
224	3.00	0.00	0.00	0.50	0.61	0.00	942.81	602.	6	
225	3.00	0.00	0.00	0.17	0.20	0.00	0.000	591.	10	
226	3.00	0.44	0.95	0.00	0.00	0.00	0.000	594.	8	
227	3.00	0.00	0.00	1.83	2.22	0.00	453.67	597.	15	
228	3.00	0.00	0.00	2.17	2.62	0.97	99.667	603.	7	
229	3.00	3.44	6.84	2.17	2.22	0.00	29.936	589.	6	
230	3.00	2.18	4.27	1.45	1.50	0.00	28.250	597.	5	
231	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	12	
232	3.00	0.00	0.00	1.04	1.25	0.00	24.171	603.	16	
233	3.00	0.00	0.00	2.83	3.43	0.00	229.22	598.	10	
234	3.00	1.92	3.68	1.35	1.41	0.00	64.850	616.	7	
235	3.00	1.62	3.18	0.93	0.94	0.00	28.305	610.	10	
236	3.00	1.81	2.85	3.49	4.01	0.00	86.649	595.	5	
237	3.00	0.91	1.93	0.00	0.00	0.30	0.000	613.	8	
238	3.00	0.00	0.00	0.00	0.00	1.97	0.000	589.	17	
239	3.00	0.22	0.47	0.00	0.00	0.00	0.000	578.	11	
240	3.00	0.96	2.06	0.00	0.00	1.63	0.000	604.	11	
241	3.00	1.38	3.01	0.00	0.00	2.63	29.287	589.	11	
242	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	13	
243	3.00	0.47	1.01	0.00	0.00	0.00	183.21	598.	6	
244	3.00	2.89	5.37	2.71	2.95	0.00	65.950	611.	6	
245	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	9	
246	3.00	0.72	1.53	0.00	0.00	0.00	277.39	610.	11	
247	3.00	0.49	1.05	0.00	0.00	1.63	33.580	614.	12	
248	3.00	0.00	0.00	1.48	1.79	0.00	40.950	596.	16	
249	3.00	0.00	0.00	2.71	3.28	0.00	370.73	603.	4	
250	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	22	
251	3.00	2.63	5.57	0.17	0.00	0.00	96.805	611.	14	
252	3.00	1.86	3.90	0.35	0.21	0.00	106.73	604.	25	
253	3.00	0.00	0.00	0.00	0.00	3.30	0.000	604.	16	
254	3.00	1.80	3.09	2.50	2.81	1.97	97.983	613.	5	
255	3.00	0.08	0.17	0.00	0.00	0.00	0.000	606.	10	
256	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	11	100
257	3.00	5.15	11.18	0.00	0.00	0.00	29.097	593.	3	
258	3.00	0.00	0.00	0.00	0.00	2.30	0.000	603.	7	
259	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	10	
260	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	13	
261	3.00	1.05	2.30	0.00	0.00	0.00	0.000	585.	12	
262	3.00	0.00	0.00	0.00	0.00	1.30	0.000	598.	9	
263	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	17	
264	3.00	1.51	3.21	0.00	0.00	0.00	99.235	615.	12	
265	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	22	
266	3.00	0.00	0.00	0.00	0.00	0.97	0.000	607.	16	
267	3.00	2.11	4.53	0.00	0.00	0.00	196.20	607.	12	
268	3.00	2.46	4.87	1.45	1.46	0.00	59.324	602.	8	
269	3.00	0.00	0.00	1.17	1.41	0.97	104.84	592.	16	
270	3.00	1.25	2.70	0.00	0.00	0.00	206.22	594.	18	
271	3.00	0.20	0.00	2.52	3.02	0.00	81.227	591.	18	
272	3.00	0.00	0.00	0.64	0.77	1.97	23.981	573.	18	
273	3.00	1.06	1.94	1.35	1.51	0.00	43.902	565.	17	
274	3.00	2.10	4.15	1.17	1.17	0.00	97.163	609.	7	
75	3.00	0.37	0.80	0.00	0.00	0.97	0.000	603.	19	
276	3.00	0.65	1.45	0.00	0.00	0.30	0.000	573.	16	
277	3.00	2.37	4.14	3.01	3.37	0.30	70.827	615.	16	7160#121

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
278	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	17	7160# 122
279	3.00	0.00	0.00	1.47	1.77	0.00	94.806	596.	13	
280	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	16	
281	3.00	4.25	8.92	0.63	0.27	0.00	12.125	608.	9	
282	3.00	0.88	1.43	1.56	1.79	0.00	110.63	591.	16	
283	3.00	0.00	0.00	0.83	1.01	0.00	0.000	609.	17	
284	3.00	0.00	0.00	0.00	0.00	1.30	0.000	598.	11	
285	3.00	0.00	0.00	0.00	0.00	2.30	51.957	614.	23	
286	3.00	0.00	0.00	1.46	1.77	0.00	38.159	597.	22	
287	3.00	1.09	2.33	0.00	0.00	0.00	19.955	611.	16	
288	3.00	1.73	3.36	1.12	1.16	0.00	74.380	611.	11	
289	3.00	1.14	0.92	5.08	6.00	0.00	77.233	607.	9	7160 131
(2 missing vials)										
292	3.00	2.82	6.08	0.00	0.00	0.30	0.000	601.	7	7160 134
293	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	26	
294	3.00	0.61	0.18	3.72	4.43	0.00	85.239	602.	3	
295	3.00	0.00	0.00	2.17	2.62	0.00	151.01	595.	19	
296	3.00	0.00	0.00	0.00	0.00	2.30	0.000	620.	32	
297	3.00	2.06	4.39	0.00	0.00	0.00	22.191	615.	18	
298	3.00	0.00	0.00	0.74	0.90	0.30	823.91	606.	19	
299	3.00	2.41	5.13	0.00	0.00	0.30	0.000	616.	10	
300	3.00	0.63	1.35	0.00	0.00	0.00	63.020	614.	16	
301	3.00	0.00	0.00	0.00	0.00	0.00	0.000	619.	21	
302	3.00	0.00	0.00	0.00	0.00	0.63	81.222	599.	22	
303	3.00	0.00	0.00	2.20	2.66	0.00	208.31	614.	17	
304	3.00	0.00	0.00	2.83	3.43	0.00	245.49	571.	11	
305	3.00	0.57	1.22	0.00	0.00	0.00	0.000	612.	8	
306	3.00	0.00	0.00	0.00	0.00	0.00	0.000	633.	8	
307	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	21	
308	3.00	2.74	5.85	0.00	0.00	0.30	25.109	614.	8	
309	3.00	0.00	0.00	0.00	0.00	0.00	0.000	616.	20	
310	3.00	0.00	0.00	0.19	0.23	0.30	321.97	590.	17	
311	3.00	1.42	2.24	2.69	3.08	3.30	102.31	604.	15	
312	3.00	0.00	0.00	0.00	0.00	0.00	0.000	616.	20	
313	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	21	
314	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	21	
315	3.00	1.02	2.18	0.00	0.00	0.00	940.65	612.	13	
316	3.00	0.68	0.53	3.09	3.65	0.00	74.014	622.	15	
317	3.00	0.00	0.00	0.00	0.00	0.63	0.000	595.	25	
318	3.00	2.44	5.02	0.83	0.72	0.00	43.537	596.	7	
319	3.00	1.42	1.72	4.38	5.13	0.00	79.264	611.	13	
320	3.00	1.71	3.67	0.00	0.00	0.00	34.859	604.	16	
321	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	26	
322	3.00	0.00	0.00	0.17	0.20	0.00	0.000	605.	24	
323	3.00	0.77	1.64	0.00	0.00	0.00	0.000	605.	19	
324	3.00	0.00	0.00	0.00	0.00	0.00	0.000	14.2	66	E
325	3.00	0.00	0.00	2.29	2.76	0.00	109.20	623.	9	
326	3.00	0.88	1.82	0.22	0.17	0.63	123.46	613.	17	
327	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	22	
328	3.00	0.00	0.00	1.88	2.28	0.00	53.535	586.	13	
329	3.00	1.49	3.25	0.00	0.00	0.00	0.000	587.	21	
330	3.00	2.38	5.10	0.14	0.00	0.00	52.555	598.	12	
331	3.00	0.00	0.00	1.83	2.22	0.30	0.000	572.	19	
32	3.00	0.54	0.19	3.26	3.88	0.00	151.37	579.	14	
333	3.00	0.00	0.00	0.64	0.78	0.00	263.53	620.	27	
334	3.00	0.00	0.00	1.06	1.28	1.63	43.541	609.	14	7160# 176
FRONT PIN JAM FWD										

LH 718, 734, 734A,

Protocol #:26 Name:Decommissioning2 21-Jun-2004 10:36
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
1	10.00	7.86		12.09		9.50	61.715	582.	14	B
2	3.00	16515.9	437.35	115047.	133891.	624.28	164.33	1011	0	E
3	3.00	105038.	170469.	8663.90	0.00	3.50	20.296	1011	0	E
4	3.00	0.00	0.00	0.00	0.00	0.00	0.000	1001	21	E
(2 missing vials)										
7	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	14	718 #1
8	3.00	0.00	0.00	0.24	0.30	0.00	0.000	590.	20	
9	3.00	0.00	0.00	0.00	0.00	0.83	0.000	599.	17	
10	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	21	
11	3.00	0.81	1.74	0.00	0.00	0.00	0.000	608.	12	
12	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	13	
13	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	25	
14	3.00	0.39	0.83	0.00	0.00	0.00	0.000	611.	6	
15	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	20	
16	3.00	3.42	6.72	2.33	2.41	0.75	95.374	591.	3	
17	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	25	
18	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	12	
19	3.00	1.21	2.56	0.00	0.00	0.00	0.000	618.	8	
20	3.00	0.00	0.00	1.00	1.21	0.00	1444.4	611.	13	
21	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	9	
22	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	25	
23	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	13	
24	3.00	0.00	0.00	1.24	1.50	0.00	162.67	608.	9	
25	3.00	0.51	1.09	0.00	0.00	0.00	0.000	606.	12	
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	17	
27	3.00	0.00	0.00	0.00	0.00	1.17	0.000	598.	30	
28	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	18	
29	3.00	0.00	0.00	1.08	1.31	0.00	0.000	605.	17	
30	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	17	
31	3.00	0.00	0.00	0.00	0.00	1.83	0.000	612.	13	
32	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	6	
33	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	12	
34	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	11	
35	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	7	
36	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	9	
37	3.00	0.00	0.00	0.74	0.90	0.00	0.000	606.	4	
38	3.00	0.00	0.00	0.00	0.00	0.00	0.000	614.	20	
39	3.00	0.37	0.78	0.00	0.00	0.00	0.000	610.	15	
40	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	14	
41	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	19	
42	3.00	0.00	0.00	0.00	0.00	0.83	0.000	597.	23	
43	3.00	1.06	2.29	0.00	0.00	0.00	0.000	602.	16	
44	3.00	0.75	1.62	0.00	0.00	0.00	0.000	598.	5	
45	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	19	
46	3.00	0.00	0.00	1.91	2.31	0.00	224.15	589.	12	
47	3.00	2.45	5.23	0.00	0.00	0.00	0.000	612.	14	718 #41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	7	718#42
49	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	16	
50	3.00	0.00	0.00	0.22	0.27	0.00	0.000	618.	7	
51	3.00	0.94	1.83	0.58	0.59	0.00	0.000	617.	11	
52	3.00	0.34	0.72	0.00	0.00	0.00	0.000	610.	14	
53	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	24	
54	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	16	
55	3.00	0.05	0.11	0.00	0.00	0.00	0.000	616.	14	
56	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	7	
57	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	10	
58	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	17	
59	3.00	0.78	1.30	1.18	1.34	0.50	308.65	627.	5	
60	3.00	0.99	2.11	0.00	0.00	0.00	0.000	608.	15	
61	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	14	
62	3.00	0.50	1.07	0.00	0.00	0.00	0.000	604.	18	
63	3.00	1.97	4.20	0.00	0.00	0.00	0.000	612.	20	
64	3.00	1.57	3.38	0.00	0.00	0.00	0.000	600.	16	
65	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	17	
66	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	18	
67	3.00	0.00	0.00	0.00	0.00	0.00	0.000	617.	21	
68	3.00	0.71	1.54	0.00	0.00	0.00	0.000	605.	11	
69	3.00	2.29	4.93	0.00	0.00	0.00	0.000	605.	5	
70	3.00	0.00	0.00	0.00	0.00	0.00	0.000	617.	11	
71	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	22	
72	3.00	0.60	1.28	0.00	0.00	0.00	349.38	610.	7	
73	3.00	0.00	0.00	1.91	2.31	0.00	186.24	609.	14	
74	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	14	
75	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	17	
76	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	16	
77	3.00	2.71	5.77	0.00	0.00	0.83	76.338	615.	13	
78	3.00	1.16	2.45	0.14	0.03	0.00	200.04	609.	5	
79	3.00	0.00	0.00	0.06	0.07	0.00	0.000	619.	13	
80	3.00	0.00	0.00	2.15	2.60	0.00	157.58	607.	12	
81	3.00	0.00	0.00	0.20	0.24	0.00	0.000	600.	5	
82	3.00	0.05	0.12	0.00	0.00	0.50	0.000	601.	6	
83	3.00	0.32	0.68	0.00	0.00	1.83	0.000	611.	19	
84	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	16	
85	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	11	
86	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	7	
87	3.00	0.00	0.00	0.00	0.00	1.06	0.000	613.	14	
88	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	7	
89	3.00	3.24	6.89	0.00	0.00	0.17	79.566	616.	12	
90	3.00	0.00	0.00	0.00	0.00	0.00	0.000	617.	7	
91	3.00	0.00	0.00	0.00	0.00	2.50	0.000	606.	15	
92	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	15	
93	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	19	
94	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	11	
95	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	15	
96	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	19	
97	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	11	
98	3.00	1.45	3.11	0.00	0.00	0.00	144.98	608.	5	
99	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	8	
100	3.00	0.00	0.00	0.91	1.10	0.17	0.000	616.	16	
01	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	9	
02	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	20	
103	3.00	0.81	1.73	0.00	0.00	0.00	0.000	606.	19	718#97

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
104	3.00	0.47	1.02	0.00	0.00	0.00	58.647	602.	21	718#98
105	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	26	
06	3.00	0.01	0.02	0.00	0.00	0.00	0.000	599.	10	
07	3.00	0.00	0.00	0.00	0.00	0.00	0.000	616.	20	
108	3.00	1.67	3.59	0.00	0.00	0.00	0.000	602.	8	
109	3.00	1.69	3.64	0.00	0.00	2.50	0.000	602.	11	
110	3.00	1.84	3.91	0.00	0.00	0.00	38.223	613.	14	
111	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	19	
112	3.00	0.00	0.00	0.00	0.00	0.00	0.000	613.	12	
113	3.00	0.05	0.00	1.11	1.34	0.00	48.041	612.	12	
114	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	25	
115	3.00	0.53	1.14	0.00	0.00	0.00	0.000	602.	21	
116	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	27	
117	3.00	3.04	6.46	0.00	0.00	0.00	0.000	618.	7	
118	3.00	0.00	0.00	0.00	0.00	1.17	0.000	597.	10	
119	3.00	0.00	0.00	0.00	0.00	0.00	0.000	634.	16	
120	3.00	0.00	0.00	0.00	0.00	0.00	0.000	615.	21	
121	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	5	
122	3.00	3.45	7.33	0.00	0.00	0.00	0.000	617.	12	
123	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	21	
124	3.00	0.00	0.00	0.00	0.00	0.50	0.000	605.	30	
125	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	24	
126	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	10	
127	3.00	0.00	0.00	0.00	0.00	0.00	0.000	612.	22	
128	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	14	
129	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	17	
130	3.00	1.93	4.12	0.00	0.00	1.50	0.000	615.	20	
131	3.00	0.00	0.00	0.00	0.00	1.17	0.000	608.	13	
32	3.00	0.00	0.00	0.00	0.00	0.00	0.000	616.	17	
133	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	23	
134	3.00	0.97	2.10	0.00	0.00	0.17	0.000	600.	10	
135	3.00	0.17	0.36	0.00	0.00	0.00	0.000	610.	21	
136	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	16	
137	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	16	
138	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	22	
139	3.00	2.42	5.32	0.00	0.00	0.00	0.000	582.	17	718#133
(3 missing vials)										
143	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	14	734#1
144	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	11	
145	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	18	
146	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	19	
147	3.00	3.30	7.15	0.00	0.00	0.00	0.000	597.	10	
148	3.00	2.58	5.63	0.00	0.00	0.51	0.000	590.	10	
149	3.00	5.00	10.64	0.55	0.08	1.83	47.235	598.	8	
150	3.00	2.34	5.06	0.00	0.00	0.00	0.000	595.	9	
151	3.00	1.72	3.72	0.00	0.00	0.83	0.000	601.	13	
152	3.00	1.13	2.44	0.00	0.00	0.00	0.000	604.	12	
153	3.00	1.47	3.15	0.00	0.00	1.50	0.000	605.	21	
154	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	16	
155	3.00	2.25	4.87	0.00	0.00	0.00	0.000	596.	14	
156	3.00	0.00	0.00	1.84	2.22	0.00	0.000	604.	21	
157	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	32	
158	3.00	3.78	8.22	0.00	0.00	0.00	0.000	592.	19	
59	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	24	
160	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	16	
161	3.00	0.00	0.00	0.00	0.00	0.83	0.000	600.	21	734# 19

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
162	3.00	0.16	0.00	2.34	2.81	0.00	68.153	580.	11	734#20
163	3.00	1.67	3.04	1.91	2.12	0.00	76.591	593.	7	
164	3.00	1.68	3.63	0.00	0.00	0.00	0.000	597.	11	
165	3.00	0.00	0.00	0.00	0.00	0.50	0.000	596.	29	
166	3.00	0.00	0.00	0.00	0.00	0.17	0.000	599.	31	
167	3.00	3.54	7.70	0.00	0.00	0.00	0.000	592.	14	
168	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	21	
169	3.00	0.00	0.00	0.00	0.00	0.00	67.766	597.	19	
170	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	19	
171	3.00	0.00	0.00	0.00	0.00	0.50	0.000	606.	11	
172	3.00	2.42	5.23	0.00	0.00	0.00	0.000	598.	5*	
173	3.00	1.28	2.76	0.00	0.00	0.00	0.000	599.	13	
174	3.00	0.69	1.51	0.00	0.00	0.00	0.000	592.	8	
175	3.00	0.00	0.00	0.24	0.30	0.00	1052.3	602.	19	
176	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	28	
177	3.00	0.19	0.42	0.00	0.00	0.00	469.16	596.	17	
178	3.00	0.00	0.00	0.60	0.72	0.00	34.101	593.	28	
179	3.00	1.39	3.03	0.00	0.00	0.00	0.000	590.	21	
180	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	28	
181	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	15	
182	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	28*	
183	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	21	
184	3.00	1.13	2.45	0.00	0.00	0.00	22.829	597.	19	
185	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	24	
186	3.00	2.58	5.49	0.00	0.00	0.00	0.000	617.	21	
187	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	12	
188	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	18	
189	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	13	
90	3.00	1.25	2.68	0.00	0.00	1.50	0.000	610.	7	
191	3.00	1.53	3.27	0.00	0.00	0.00	0.000	610.	4	
192	3.00	2.78	5.94	0.00	0.00	0.00	0.000	609.	8*	
193	3.00	0.64	0.96	1.43	1.66	0.00	0.000	601.	15	
194	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	8	
195	3.00	1.02	2.20	0.00	0.00	0.00	0.000	597.	12	
196	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	9	
197	3.00	2.24	4.84	0.00	0.00	0.00	0.000	597.	14	
198	3.00	0.00	0.00	0.00	0.00	0.00	176.33	603.	13	
199	3.00	0.36	0.77	0.00	0.00	1.17	0.000	604.	8	
200	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	9	
201	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	8	
202	3.00	0.00	0.00	0.00	0.00	0.50	0.000	606.	20*	
203	3.00	3.05	6.08	1.58	1.55	0.00	93.666	606.	4	
204	3.00	2.73	5.86	0.00	0.00	0.83	0.000	604.	13	
205	3.00	1.93	4.16	0.00	0.00	0.00	0.000	604.	17	
206	3.00	0.39	0.84	0.00	0.00	0.00	0.000	606.	16	
207	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	13	
208	3.00	0.00	0.00	1.49	1.80	0.00	165.48	606.	16	
209	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	8	
210	3.00	2.12	4.53	0.00	0.00	0.00	0.000	610.	9	
211	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	11	
212	3.00	1.13	2.43	0.00	0.00	0.00	0.000	605.	5*	
213	3.00	1.11	2.39	0.00	0.00	0.00	0.000	605.	2	
214	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	12	
15	3.00	2.28	4.91	0.00	0.00	0.00	0.000	601.	11	
16	3.00	0.00	0.00	0.70	0.85	0.00	0.000	609.	23	
217	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	17	734#75

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
218	3.00	0.67	1.43	0.00	0.00	0.00	0.000	603.	9	734#76
219	3.00	0.00	0.00	3.85	4.65	0.00	17.156	603.	11	
20	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	10	
21	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	13	
222	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	10	•
223	3.00	1.31	2.86	0.00	0.00	0.00	0.000	592.	9	
224	3.00	0.25	0.52	0.00	0.00	0.00	0.000	609.	21	
225	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	25	
226	3.00	2.53	5.45	0.00	0.00	0.17	0.000	601.	18	
227	3.00	1.36	2.94	0.00	0.00	0.50	0.000	599.	8	
228	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	13	
229	3.00	0.00	0.00	0.00	0.00	0.50	0.000	606.	12	
230	3.00	1.69	3.48	0.58	0.50	0.00	188.21	600.	6	
231	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	7	
232	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	21	•
233	3.00	0.00	0.00	0.28	0.33	0.00	0.000	589.	8	
234	3.00	0.53	1.25	0.00	0.00	1.17	0.000	516.	7	
235	3.00	0.55	1.19	0.00	0.00	0.00	0.000	597.	15	
236	3.00	0.24	0.19	1.06	1.25	0.00	300.99	603.	5	
237	3.00	0.00	0.00	1.28	1.54	0.00	176.63	589.	13	
238	3.00	1.63	3.52	0.00	0.00	0.00	0.000	596.	12	
239	3.00	0.53	1.15	0.00	0.00	0.00	0.000	589.	10	
240	3.00	0.41	0.11	2.51	2.98	0.00	1.967	604.	7	
241	3.00	0.00	0.00	0.00	0.00	0.50	0.000	600.	13	
242	3.00	1.66	3.22	1.22	1.29	0.00	82.755	597.	9	•
243	3.00	1.73	3.74	0.00	0.00	0.00	0.000	594.	5	
244	3.00	0.83	1.78	0.00	0.00	0.00	0.000	605.	9	
245	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	20	
46	3.00	0.00	0.00	1.13	1.36	0.00	0.000	610.	30	
247	3.00	2.30	4.99	0.00	0.00	0.00	0.000	596.	11	
248	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	13	
249	3.00	0.00	0.00	0.00	0.00	0.17	0.000	595.	21	
250	3.00	2.56	5.47	0.00	0.00	0.00	0.000	609.	2	
251	3.00	0.00	0.00	0.54	0.65	0.00	0.000	600.	6	
252	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	14	•
253	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	10	
254	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	14	
255	3.00	0.00	0.00	0.58	0.70	0.17	0.000	604.	17	
256	3.00	1.02	2.19	0.00	0.00	0.00	0.000	605.	12	
257	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	19	
258	3.00	0.69	1.52	0.00	0.00	2.17	0.000	586.	16	
259	3.00	0.71	1.55	0.00	0.00	0.00	0.000	592.	5	
260	3.00	0.00	0.00	0.54	0.66	0.00	0.000	599.	9	
261	3.00	0.00	0.00	2.24	2.72	0.00	1198.0	577.	8	
262	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	12	•
263	3.00	0.00	0.00	1.24	1.50	0.00	388.13	597.	10	
264	3.00	0.00	0.00	0.55	0.66	0.00	0.000	598.	18	
265	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	32	
266	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	23	
267	3.00	0.00	0.00	0.00	0.00	0.17	0.000	606.	14	
268	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	11	
269	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	8	
270	3.00	0.00	0.00	0.00	0.00	0.50	0.000	582.	5	
71	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	2	-734#129
1 missing vial)										
273	3.00	1.08	2.41	0.00	0.00	0.00	0.000	568.	3	-734-1/A#1

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
274	3.00	0.00	0.00	1.24	1.51	0.00	0.000	496.	22	734-1-A #2
275	3.00	0.00	0.00	2.13	2.57	0.00	3.892	551.	16	
276	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	37	
277	3.00	0.81	1.77	0.00	0.00	0.00	0.000	590.	19	
278	3.00	1.86	4.15	0.00	0.00	0.00	0.000	563.	13	
279	3.00	2.23	4.84	0.46	0.28	0.00	4.023	565.	17	
280	3.00	0.00	0.00	0.00	0.00	0.00	0.000	565.	23	
281	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	12	
282	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	29	
283	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	12	
284	3.00	0.00	0.00	0.00	0.00	0.00	0.000	553.	41	
285	3.00	0.00	0.00	0.00	0.00	0.00	0.000	545.	30	
286	3.00	1.58	3.47	0.00	0.00	0.83	0.000	585.	22	
287	3.00	0.00	0.00	0.00	0.00	0.00	0.000	548.	25	
288	3.00	1.56	3.46	0.00	0.00	0.83	0.000	574.	14	
289	3.00	0.30	0.67	0.00	0.00	0.00	0.000	574.	11	
290	3.00	0.00	0.00	0.00	0.00	0.00	0.000	571.	13	
291	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	10	
292	3.00	0.00	0.00	0.00	0.00	0.00	0.000	555.	12	
293	3.00	0.82	1.80	0.00	0.00	0.00	0.000	583.	15	
294	3.00	0.00	0.00	0.00	0.00	0.00	0.000	547.	20	
295	3.00	0.00	0.00	0.00	0.00	0.00	0.000	549.	30	
296	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	32	
297	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	27	
298	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	20	
299	3.00	0.00	0.00	1.91	2.31	0.00	0.000	574.	8	
300	3.00	0.00	0.00	0.00	0.00	0.00	0.000	563.	18	
301	3.00	0.42	0.82	0.41	0.44	0.00	0.000	555.	12	
302	3.00	0.00	0.00	0.62	0.75	0.00	0.000	582.	19	
303	3.00	0.00	0.00	0.00	0.00	0.50	0.000	603.	36	
304	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	30	
305	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	35	
306	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	15	
307	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	31	
308	3.00	0.00	0.00	0.00	0.00	0.50	0.000	598.	22	
309	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	27	
310	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	29	
311	3.00	0.37	0.58	0.73	0.84	0.00	236.98	603.	15	
312	3.00	0.35	0.72	0.17	0.16	0.00	0.000	580.	11	
313	3.00	0.44	0.96	0.00	0.00	0.50	0.000	591.	18	
314	3.00	0.00	0.00	0.65	0.78	0.00	0.000	589.	27	
315	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	14	
316	3.00	1.01	2.13	0.23	0.16	0.83	16.889	596.	23	
317	3.00	3.85	8.36	0.00	0.00	0.00	0.000	593.	15	
318	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	24	
319	3.00	0.00	0.00	0.00	0.00	2.50	0.000	575.	13	
320	3.00	0.00	0.00	0.00	0.00	0.83	0.000	577.	21	
321	3.00	0.00	0.00	0.56	0.67	0.00	0.000	597.	19	
322	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	12	
323	3.00	1.66	3.61	0.00	0.00	0.00	0.000	591.	7	
324	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	24	
325	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	15	
326	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	35	
27	3.00	24.78	53.09	1.55	0.00	0.00	10.121	598.	10	
328	3.00	2.58	5.60	0.00	0.00	0.00	0.000	593.	14	
329	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	15	734-1-A #57

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
330	3.00	2.10	4.52	0.00	0.00	0.17	0.000	604.	14	734-1-A#58
331	3.00	3.06	6.84	0.00	0.00	0.00	0.000	565.	11	
332	3.00	0.00	0.00	0.00	0.00	0.17	0.000	601.	24	•
333	3.00	1.60	3.47	0.00	0.00	0.00	0.000	593.	11	
334	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	24	
335	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	26	
336	3.00	0.89	1.98	0.00	0.00	0.00	0.000	567.	14	
337	3.00	1.81	3.90	0.00	0.00	0.00	0.000	598.	5	
338	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	27	
339	3.00	0.00	0.00	0.91	1.10	0.00	0.000	579.	15	
340	3.00	0.97	2.11	0.00	0.00	0.50	0.000	594.	10	
341	3.00	0.25	0.55	0.00	0.00	0.00	0.000	577.	7	
342	3.00	3.94	8.52	0.00	0.00	2.83	0.000	599.	12	•
343	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	24	
344	3.00	1.97	4.26	0.00	0.00	0.00	0.000	598.	11	
345	3.00	1.51	3.32	0.00	0.00	0.28	0.000	583.	14	
346	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	24	
347	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	26	
348	3.00	0.00	0.00	0.00	0.00	0.17	0.000	558.	46	
349	3.00	0.51	1.15	0.00	0.00	0.00	0.000	551.	24	
350	3.00	0.89	2.04	0.00	0.00	1.83	0.000	539.	14	
351	3.00	0.00	0.00	0.00	0.00	0.00	0.000	559.	32	
352	3.00	0.47	1.02	0.00	0.00	0.83	0.000	591.	16	•
353	3.00	0.00	0.00	0.00	0.00	0.00	0.000	536.	15	
354	3.00	1.18	2.66	0.00	0.00	0.00	0.000	558.	10	
355	3.00	0.00	0.00	0.00	0.00	2.83	0.000	580.	14	734-1-A #83

356	3.00	1.80	4.00	0.00	0.00	1.17	0.000	566.	10
357	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	22
358	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	13
359	3.00	0.00	0.00	0.00	0.00	0.83	0.000	477.	10
360	3.00	0.00	0.00	0.72	0.88	1.50	0.000	571.	12
361	3.00	0.00	0.00	0.70	0.85	0.00	0.000	575.	26
362	3.00	0.00	0.00	0.00	0.00	0.00	0.000	546.	21
363	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	23
364	3.00	0.00	0.00	0.00	0.00	1.83	0.000	578.	11
365	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	30
366	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	22
367	3.00	0.85	1.95	0.00	0.00	0.00	0.000	535.	11
368	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	19

734-1-A #84

734-1-A #91

LH 735, 830, 803

Protocol #:26 Name:Decommissioning2 22-Jun-2004 10:57
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
ime = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.81		9.97		8.50	55.346	579.	14	B	
2	3.00	16483.1	366.84	115125.	133945.	614.80	164.83	1016	0	E	
3	3.00	105113.	170299.	8604.58	0.00	0.17	20.335	1014	0	E	
4	3.00	0.00	0.00	0.00	0.00	0.00	0.000	1005	25	E	
(4 missing vials)											
9	3.00	0.00	0.00	0.06	0.07	0.00	0.000	588.	12		735 #1
10	3.00	0.00	0.00	0.00	0.00	0.00	0.000	564.	9		
11	3.00	1.67	2.72	3.38	3.89	0.00	66.402	554.	9		
12	3.00	0.00	0.00	0.36	0.44	0.00	0.000	531.	12		
13	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	30		
14	3.00	3.22	7.20	0.00	0.00	0.00	0.000	564.	3		
15	3.00	0.00	0.00	1.33	1.61	0.50	0.000	546.	15		
16	3.00	0.08	0.00	1.69	2.04	0.00	0.000	542.	7		
17	3.00	0.00	0.00	1.42	1.73	0.00	157.23	480.	11		
18	3.00	0.00	0.00	2.15	2.61	0.00	240.74	558.	13		
19	3.00	0.00	0.00	2.47	2.99	0.00	96.731	576.	16		
20	3.00	1.50	3.32	0.00	0.00	0.00	0.000	572.	21		
21	3.00	0.61	0.53	2.69	3.19	2.50	56.518	542.	13		
22	3.00	0.12	0.00	4.87	5.88	0.00	79.342	567.	11		
23	3.00	3.14	6.82	0.00	0.00	0.00	43.706	595.	20		
24	3.00	3.64	7.91	0.00	0.00	0.00	0.000	592.	10		
25	3.00	1.98	4.33	0.00	0.00	1.83	0.000	587.	10		
26	3.00	0.00	0.00	0.73	0.88	0.00	847.52	588.	30		
27	3.00	0.00	0.00	1.41	1.70	0.00	867.99	586.	31		
28	3.00	0.00	0.00	0.03	0.03	0.00	991.41	597.	18		
29	3.00	0.36	0.78	0.00	0.00	0.00	0.000	606.	16		
30	3.00	0.00	0.00	2.09	2.53	0.00	49.490	583.	20		
31	3.00	0.88	1.94	0.00	0.00	0.50	0.000	580.	15		
32	3.00	1.55	1.61	5.73	6.74	0.00	55.733	592.	24		
33	3.00	0.00	0.00	2.49	3.01	2.50	44.370	573.	31		
34	3.00	0.00	0.00	4.66	5.64	0.17	152.20	596.	25		
35	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	42		
36	3.00	0.00	0.00	0.00	0.00	0.00	0.000	557.	34		
37	3.00	2.79	6.19	0.00	0.00	0.83	0.000	569.	14		
38	3.00	0.00	0.00	0.66	0.80	1.26	0.000	585.	22		
39	3.00	0.00	0.00	0.69	0.84	0.17	13.355	600.	27		
40	3.00	0.00	0.00	0.00	0.00	0.83	0.000	589.	26		
41	3.00	0.59	0.87	1.27	1.47	0.00	68.995	606.	19		
42	3.00	0.00	0.00	0.03	0.03	0.00	0.000	606.	24		
43	3.00	0.67	1.03	1.41	1.63	0.00	54.889	586.	24		
44	3.00	0.00	0.00	0.84	1.02	0.50	0.000	619.	28		
45	3.00	0.25	0.54	0.00	0.00	0.50	235.36	575.	17		
46	3.00	0.00	0.00	0.00	0.00	0.50	0.000	614.	30		
47	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	28		
48	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	18		
49	3.00	4.26	9.13	0.00	0.00	0.00	19.048	608.	29		-735#41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
50	3.00	0.00	0.00	0.69	0.84	0.83	0.000	597.	38	735#42
51	3.00	2.75	6.03	0.00	0.00	0.00	46.627	581.	23	
52	3.00	0.00	0.00	0.76	0.91	0.17	52899.	584.	31	
53	3.00	0.00	0.00	0.00	0.00	0.83	0.000	566.	48	
54	3.00	0.26	0.58	0.01	0.00	0.17	0.000	569.	31	
55	3.00	0.75	1.02	1.94	2.26	0.00	39.083	606.	25	
56	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	28	
57	3.00	0.64	1.45	0.00	0.00	0.83	0.000	546.	29	
58	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	37	
59	3.00	0.00	0.00	0.94	1.14	0.00	0.000	605.	25	
60	3.00	0.00	0.00	0.00	0.00	0.00	0.000	551.	44	
61	3.00	1.77	3.39	1.64	1.78	0.00	0.000	579.	23	
62	3.00	1.85	3.88	0.95	0.92	0.00	28.360	554.	21	
63	3.00	0.48	1.06	0.00	0.00	4.50	0.000	578.	34	
64	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	33	735#56
(2 missing vials)										
67	3.00	4.00	8.59	0.00	0.00	0.00	24.800	604.	11	-850 #1
68	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	13	
69	3.00	1.01	2.16	0.00	0.00	0.00	0.000	612.	8	
70	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	11	
71	3.00	0.00	0.00	0.00	0.00	0.83	0.000	605.	16	
72	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	25	
73	3.00	3.94	8.40	0.00	0.00	0.00	48.174	613.	11	
74	3.00	0.00	0.00	0.00	0.00	0.00	0.000	614.	22	
75	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	29	
76	3.00	0.00	0.00	0.36	0.43	0.00	0.000	612.	25	
77	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	39	
78	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	35	
79	3.00	0.21	0.10	1.20	1.42	0.00	98.628	616.	24	
80	3.00	0.00	0.00	1.69	2.05	0.00	160.50	605.	26	
81	3.00	2.88	6.19	0.00	0.00	0.00	45.131	605.	21	
82	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	29	
83	3.00	0.00	0.00	0.18	0.22	0.00	1812.6	607.	30	
84	3.00	0.00	0.00	0.00	0.00	0.00	0.000	611.	33	
85	3.00	0.00	0.00	0.52	0.63	0.00	0.000	606.	42	
86	3.00	0.00	0.00	0.36	0.44	0.00	0.000	609.	36	
87	3.00	0.00	0.00	3.69	4.46	0.17	95.555	616.	38	
88	3.00	0.00	0.00	0.00	0.00	1.17	0.000	616.	40	
89	3.00	0.00	0.00	0.00	0.00	0.50	0.000	625.	50	
90	3.00	0.00	0.00	0.02	0.02	0.00	0.000	617.	33	
91	3.00	0.00	0.00	3.76	4.55	0.00	231.86	612.	25	
92	3.00	0.00	0.00	0.56	0.68	0.00	0.000	603.	22	
93	3.00	0.00	0.00	0.26	0.31	0.00	0.000	608.	35	
94	3.00	0.00	0.00	0.69	0.84	0.00	0.000	597.	46	-850#28
95	3.00	0.00	0.00	0.00	0.00	0.00	0.000	565.	23	-850 Sink Pig
(1 missing vial)										
97	3.00	0.00	0.00	0.00	0.00	0.00	84.458	596.	17	803#1
98	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	17	
99	3.00	0.00	0.00	2.29	2.77	0.00	700.54	604.	9	
100	3.00	0.00	0.00	0.00	0.00	1.50	0.000	604.	30	
101	3.00	0.00	0.00	0.54	0.65	0.17	0.000	605.	18	
102	3.00	1.11	2.40	0.00	0.00	0.00	0.000	593.	6	
103	3.00	2.32	5.02	0.00	0.00	0.00	0.000	596.	15	
104	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	28	
105	3.00	0.00	0.00	4.60	5.55	0.00	89.887	601.	21	
106	3.00	0.00	0.00	1.67	2.02	2.83	36.123	595.	19	803#10

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
107	3.00	0.59	1.27	0.00	0.00	0.00	0.000	599.	19	803#11
108	3.00	1.16	2.51	0.00	0.00	0.83	0.000	593.	22	
109	3.00	0.00	0.00	0.00	0.00	0.17	0.000	606.	28	
110	3.00	0.00	0.00	1.03	1.24	0.00	357.58	594.	27	
111	3.00	128.32	170.94	346.67	404.06	1.17	63.890	605.	1	← #15 See Next Page (#177)
112	3.00	0.00	0.00	0.00	0.00	0.00	0.000	619.	24	
113	3.00	3.33	7.05	0.36	0.05	0.00	44.684	604.	11	
114	3.00	2.93	4.59	5.62	6.46	0.00	65.004	604.	14	
115	3.00	1.72	3.68	0.00	0.00	0.00	532.33	607.	9	
116	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	20	
117	3.00	0.00	0.00	1.30	1.57	0.83	161.06	603.	21	
118	3.00	0.00	0.00	0.36	0.43	0.00	100.09	605.	22	
119	3.00	0.00	0.00	0.58	0.70	0.00	0.000	610.	31	
120	3.00	0.00	0.00	1.36	1.64	1.17	133.90	607.	35	
121	3.00	0.00	0.00	0.68	0.82	0.00	0.000	618.	46	
122	3.00	0.05	0.00	0.69	0.83	0.00	145.44	601.	25	
123	3.00	0.92	2.00	0.00	0.00	0.00	0.000	600.	20	
124	3.00	0.00	0.00	1.03	1.24	0.00	292.80	609.	22	
125	3.00	0.00	0.00	2.93	3.54	0.50	193.34	601.	24	
126	3.00	0.00	0.00	2.24	2.70	0.00	181.08	603.	31	
127	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	26	
128	3.00	0.46	0.61	1.23	1.44	0.00	160.65	603.	26	
129	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	43	
130	3.00	1.76	3.29	1.63	1.77	0.17	39.251	603.	34	
131	3.00	0.00	0.00	0.00	0.00	0.50	0.000	593.	26	
132	3.00	0.00	0.00	1.00	1.20	1.17	0.000	619.	42	
133	3.00	0.05	0.11	0.00	0.00	0.00	0.000	605.	29	
134	3.00	3.51	6.93	1.90	1.89	0.00	96.684	612.	21	
135	3.00	2.61	5.56	0.00	0.00	3.17	49.590	614.	15	
136	3.00	0.00	0.00	2.84	3.44	2.17	203.15	607.	13	
137	3.00	1.27	2.24	1.69	1.90	1.17	102.97	599.	14	
138	3.00	0.00	0.00	0.00	0.00	3.17	0.000	611.	60	
139	3.00	0.39	0.22	2.03	2.40	0.00	69.117	604.	34	
140	3.00	0.00	0.00	0.33	0.40	0.00	0.000	607.	37	
141	3.00	0.00	0.00	0.17	0.21	0.00	0.000	603.	32	
142	3.00	0.00	0.00	2.36	2.85	0.00	225.04	603.	31	
143	3.00	0.00	0.00	0.00	0.00	1.50	0.000	594.	32	
144	3.00	0.00	0.00	0.00	0.00	0.17	0.000	602.	27	
145	3.00	1.64	3.34	0.60	0.54	0.50	1.636	606.	17	
146	3.00	1.14	2.46	0.00	0.00	2.50	0.000	598.	24	
147	3.00	0.97	1.68	1.36	1.53	0.00	9.718	601.	27	
148	3.00	0.00	0.00	0.24	0.28	0.00	0.000	603.	41	
149	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	43	
150	3.00	2.39	5.19	0.00	0.00	2.50	0.000	595.	27	
151	3.00	0.00	0.00	0.23	0.28	0.00	145.92	612.	26	
152	3.00	0.00	0.00	0.00	0.00	2.17	0.000	611.	49	
153	3.00	0.00	0.00	2.28	2.76	0.00	175.77	597.	31	
154	3.00	0.27	0.58	0.00	0.00	0.17	0.000	609.	27	
155	3.00	0.00	0.00	0.00	0.00	1.17	0.000	624.	27	
156	3.00	0.00	0.00	2.29	2.77	0.50	0.000	604.	37	
157	3.00	0.00	0.00	0.00	0.00	2.83	0.000	603.	65	
158	3.00	3.08	6.64	0.00	0.00	1.17	0.000	602.	35	
159	3.00	0.00	0.00	0.36	0.43	2.50	228.71	622.	30	
60	3.00	0.00	0.00	0.00	0.00	0.00	0.000	615.	25	
161	3.00	1.47	3.12	0.00	0.00	0.00	60.210	617.	21	
162	3.00	0.00	0.00	0.64	0.77	0.00	0.000	602.	13	803#66

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
163	3.00	0.00	0.00	0.00	0.00	1.17	0.000	605.	23	803#67
164	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	22	
165	3.00	0.00	0.00	2.36	2.85	0.17	292.71	606.	18	
166	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	31	
167	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	34	
168	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	43	
169	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	35	
170	3.00	0.00	0.00	0.00	0.00	2.17	0.000	619.	53	
171	3.00	0.00	0.00	0.00	0.00	0.17	0.000	618.	53	
172	3.00	0.00	0.00	0.00	0.00	0.17	0.000	610.	33	
173	3.00	0.00	0.00	3.35	4.05	0.00	111.26	595.	36	
174	3.00	0.00	0.00	2.69	3.25	0.17	67.650	596.	33	
175	3.00	0.00	0.00	0.69	0.84	0.00	0.000	584.	37	
176	3.00	0.00	0.00	0.00	0.00	2.83	0.000	588.	22	803#80
177	3.00	0.00	0.00	2.77	3.35	0.00	165.24	611.	37	-803#15 after Decon
(3 missing vials)										
181	3.00	0.00	0.00	0.00	0.00	4.83	0.000	488.	13	
182	3.00	1.41	3.16	0.00	0.00	0.00	0.000	563.	8	
183	3.00	3.39	7.75	0.00	0.00	1.50	0.000	543.	10	
184	3.00	0.59	1.37	0.00	0.00	0.00	0.000	531.	13	
185	3.00	0.61	1.35	0.00	0.00	0.50	0.000	569.	15	
186	3.00	0.00	0.00	0.00	0.00	0.00	0.000	572.	9	
187	3.00	0.00	0.00	0.75	0.91	0.17	0.000	485.	16	

#181 W1 -300 MSB

182 W2

183 W3 - 302, 303 MSB

184 W4 - 304, 305 MSB

185 E1

186 312 MSB Exhaust

187 MSB Vacuum Pump Exhaust

Lakeside Hosp.
257, 258, 260

Protocol #:26 Name:Decommissioning2 23-Jun-2004 08:38
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.22		10.40		7.70	65.050	577.	17	B	
2	3.00	16775.1	931.05	114757.	133608.	549.14	161.11	1000	0	E	
3	3.00	105594.	172733.	8283.84	0.00	1.30	19.881	998.	0	E	
4	3.00	0.87	1.45	0.00	0.00	0.63	0.000	989.	12	E	
(2 missing vials)											
7	3.00	0.00	0.00	0.00	0.00	1.33	0.000	573.	11		257 #1
8	3.00	0.00	0.00	0.00	0.00	0.97	0.000	581.	10		
9	3.00	0.00	0.00	0.04	0.05	0.00	0.000	508.	4		
10	3.00	0.00	0.00	0.00	0.00	0.00	0.000	554.	12		
11	3.00	1.73	3.45	1.52	1.62	0.30	65.434	549.	8		
12	3.00	2.24	4.97	0.00	0.00	1.30	0.000	570.	4		
13	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	13		
14	3.00	0.00	0.00	0.71	0.86	0.00	0.000	577.	6		
15	3.00	0.51	1.11	0.00	0.00	0.00	183.53	586.	14		
16	3.00	0.00	0.00	0.00	0.00	0.63	0.000	586.	19		
17	3.00	0.95	2.10	0.00	0.00	0.97	63.447	572.	11		
18	3.00	0.50	0.26	2.77	3.29	0.00	208.98	581.	6		
19	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	24		
20	3.00	0.00	0.00	0.00	0.00	0.00	0.000	549.	23		
21	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	18		
22	3.00	2.86	6.20	0.41	0.15	0.00	0.000	575.	6		
23	3.00	0.23	0.00	5.01	6.03	1.30	158.02	588.	7		
24	3.00	0.61	1.34	0.00	0.00	0.00	0.000	589.	11		
25	3.00	1.14	1.91	1.94	2.21	0.00	0.000	581.	16		
26	3.00	2.36	5.24	0.00	0.00	0.00	0.000	571.	5		
27	3.00	0.00	0.00	0.70	0.85	0.00	0.000	578.	27		
28	3.00	0.00	0.00	0.00	0.00	0.30	0.000	582.	16		
29	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	12		
30	3.00	1.58	3.32	0.60	0.54	2.63	0.000	573.	11		
31	3.00	0.00	0.00	0.70	0.85	2.97	359.30	578.	11		
32	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	17		
33	3.00	0.00	0.00	0.00	0.00	0.00	0.000	562.	14		
34	3.00	0.00	0.00	0.00	0.00	0.00	0.000	560.	5		
35	3.00	0.00	0.00	3.01	3.64	0.00	168.86	582.	13		
36	3.00	0.00	0.00	0.00	0.00	0.00	0.000	12.5	46		E 257 30
(1 missing vial)											
38	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	21		~~30A~~ 30A
39	3.00	0.00	0.00	1.82	2.20	2.30	152.07	560.	12		30B
40	3.00	1.72	3.74	0.19	0.03	0.00	9.352	574.	8		30C
41	3.00	0.00	0.00	0.00	0.00	0.97	0.000	566.	15		30D
42	3.00	0.00	0.00	0.00	0.00	0.00	0.000	554.	13		30E
(1 missing vial)											
44	3.00	0.00	0.00	1.94	2.34	2.97	0.000	566.	8		31
45	3.00	0.00	0.00	2.46	2.97	0.63	0.000	579.	10		
46	3.00	0.72	1.32	1.14	1.30	0.00	0.000	510.	12		33
(2 missing vials)											
49	3.00	0.00	0.00	0.00	0.00	0.97	0.000	553.	12		33A

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
50	3.00	0.00	0.00	0.00	0.00	0.00	0.000	467.	20	257#33B
(2 missing vials)										
53	3.00	2.28	5.01	0.00	0.00	0.30	0.000	583.	13	-257 # 34
54	3.00	1.53	3.24	0.27	0.15	0.00	0.000	592.	14	
55	3.00	0.00	0.00	0.29	0.36	1.63	0.000	590.	19	
56	3.00	2.53	5.46	0.00	0.00	0.00	0.000	598.	16	
57	3.00	0.00	0.00	0.39	0.48	0.30	0.000	575.	8	
58	3.00	0.00	0.00	0.94	1.13	1.63	0.000	598.	11	
59	3.00	0.00	0.00	0.00	0.00	2.30	0.000	587.	9	
60	3.00	0.00	0.00	1.60	1.94	0.00	0.000	564.	11	
61	3.00	2.86	6.29	0.00	0.00	0.00	0.000	581.	5	
62	3.00	0.00	0.00	0.00	0.00	1.97	0.000	585.	12	
63	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	7	
64	3.00	1.02	2.21	0.00	0.00	0.00	0.000	592.	6	
65	3.00	1.36	2.99	0.00	0.00	1.30	0.000	583.	6	
66	3.00	0.00	0.00	1.41	1.71	0.00	0.000	589.	18	
67	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	7	
68	3.00	0.28	0.22	1.27	1.50	0.00	0.000	597.	10	
69	3.00	1.38	3.00	0.00	0.00	0.00	0.000	591.	2	
70	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	18	
71	3.00	0.00	0.00	0.27	0.33	0.97	187.28	587.	12	
72	3.00	0.00	0.00	0.31	0.37	0.00	0.000	588.	10	
73	3.00	0.00	0.00	0.60	0.73	0.00	0.000	577.	6	
74	3.00	0.00	0.00	0.00	0.00	0.97	0.000	586.	14	
75	3.00	3.98	8.65	0.00	0.00	0.63	0.000	592.	7	
76	3.00	0.00	0.00	0.00	0.00	0.63	0.000	582.	19	
77	3.00	0.00	0.00	0.00	0.00	0.97	0.000	581.	16	
78	3.00	0.00	0.00	0.00	0.00	0.30	0.000	605.	21	
79	3.00	3.98	7.95	2.29	2.31	3.30	61.878	592.	6	
80	3.00	0.00	0.00	0.00	0.00	1.97	0.000	586.	23	
81	3.00	1.33	2.89	0.00	0.00	0.30	373.44	595.	7	
82	3.00	2.18	4.75	0.04	0.00	0.00	15.985	586.	10	
83	3.00	3.06	6.76	0.00	0.00	2.63	0.000	578.	16	
84	3.00	0.00	0.00	1.66	2.00	1.30	0.000	585.	27	
85	3.00	0.17	0.37	0.00	0.00	0.97	0.000	576.	12	
86	3.00	0.24	0.51	0.00	0.00	0.00	0.000	587.	12	
87	3.00	0.61	0.83	1.72	2.00	0.00	50.562	559.	4	
88	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	15	
89	3.00	2.64	5.68	0.27	0.02	0.00	13.096	589.	8	
90	3.00	4.25	9.36	0.00	0.00	0.63	0.000	578.	11	
91	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	15	
92	3.00	2.33	5.26	0.00	0.00	0.97	0.000	554.	12	
93	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	31	
94	3.00	5.41	11.77	0.09	0.00	0.00	16.703	588.	11	
95	3.00	0.00	0.00	0.00	0.00	1.30	0.000	589.	26	
96	3.00	1.28	2.81	0.00	0.00	0.00	0.000	580.	10	
97	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	19	
98	3.00	2.82	6.06	0.00	0.00	0.00	0.000	603.	5	
99	3.00	3.86	7.49	2.91	3.06	0.00	4.309	595.	13	
100	3.00	0.00	0.00	0.63	0.76	0.30	0.000	589.	25	
101	3.00	0.00	0.00	0.94	1.13	1.63	0.000	592.	15	
102	3.00	1.29	2.81	0.00	0.00	0.00	0.000	591.	9	
103	3.00	0.00	0.00	0.97	1.17	0.30	0.000	588.	28	
104	3.00	1.53	3.16	0.60	0.55	0.00	0.000	586.	14	
105	3.00	0.00	0.00	0.00	0.00	3.30	0.000	564.	39	
106	3.00	1.20	2.64	0.00	0.00	0.00	0.000	577.	9	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
107	3.00	0.00	0.00	0.88	1.06	0.00	62.463	551.	9	
108	3.00	0.94	1.87	0.88	0.95	0.00	0.000	545.	12	
09	3.00	0.00	0.00	0.00	0.00	0.63	0.000	556.	21	
10	3.00	0.00	0.00	0.00	0.00	2.97	0.000	577.	33	
111	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	25	
112	3.00	0.00	0.00	1.55	1.88	0.97	240.03	572.	11	
113	3.00	5.87	12.94	0.00	0.00	2.30	0.000	577.	8	
114	3.00	0.69	1.24	0.89	1.00	0.00	0.000	579.	9	
115	3.00	0.84	1.86	0.00	0.00	3.30	0.000	566.	18	
116	3.00	0.00	0.00	0.30	0.36	0.00	0.000	590.	16	
117	3.00	0.00	0.00	3.49	4.23	0.30	0.000	582.	21	
118	3.00	1.58	3.53	0.00	0.00	0.42	0.000	568.	12	
119	3.00	0.00	0.00	0.24	0.29	0.30	0.000	598.	11	
120	3.00	0.00	0.00	0.49	0.60	1.97	0.000	559.	23	
121	3.00	0.00	0.00	0.05	0.07	2.97	0.000	575.	20	
122	3.00	0.76	1.68	0.00	0.00	0.00	0.000	570.	4	
123	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	18	
124	3.00	1.28	2.89	0.00	0.00	0.00	0.000	550.	17	
125	3.00	1.72	3.71	0.00	0.00	0.63	0.000	602.	26	
126	3.00	0.00	0.00	0.00	0.00	1.30	0.000	591.	12	257 #107
(2 missing vials)										
129	3.00	0.00	0.00	0.67	0.80	1.30	0.000	584.	13	257A#1
130	3.00	4.25	9.40	0.00	0.00	1.30	0.000	574.	12	
131	3.00	0.00	0.00	0.60	0.73	0.00	0.000	593.	11	
132	3.00	1.84	4.02	0.00	0.00	0.00	0.000	585.	17	
133	3.00	0.00	0.00	0.60	0.73	0.00	0.000	592.	11	
134	3.00	0.76	1.65	0.00	0.00	0.00	0.000	592.	0	
135	3.00	3.39	7.26	0.24	0.00	0.00	0.000	598.	5	
36	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	9	
137	3.00	0.00	0.00	1.24	1.50	0.00	0.000	598.	16	
138	3.00	2.49	5.32	0.40	0.19	0.00	0.000	584.	10	
139	3.00	0.00	0.00	2.00	2.42	1.97	80.318	584.	17	
140	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	30	
141	3.00	0.00	0.00	0.00	0.00	0.97	0.000	600.	11	257A#15
142	3.00	1.47	3.22	0.00	0.00	0.63	0.000	589.	19	
143	3.00	0.00	0.00	1.47	1.78	0.63	0.000	573.	16	~~257#107~~
(1 missing vial)										
145	3.00	2.75	6.34	0.00	0.00	1.97	0.000	534.	2	~~257A#4~~
146	3.00	1.46	3.25	0.00	0.00	3.63	57.930	568.	10	258#1
147	3.00	0.00	0.00	0.00	0.00	0.30	0.000	566.	20	
148	3.00	0.00	0.00	2.87	3.48	2.63	0.000	545.	12	
149	3.00	0.00	0.00	0.00	0.00	1.97	0.000	562.	10	
150	3.00	0.00	0.00	1.05	1.28	1.97	0.000	575.	15	
151	3.00	2.31	5.00	0.27	0.05	2.30	0.000	579.	8	
152	3.00	1.20	2.67	0.00	0.00	0.00	18.069	565.	16	
153	3.00	0.00	0.00	1.37	1.65	0.00	0.000	579.	12	
154	3.00	0.00	0.00	0.10	0.13	3.30	0.000	568.	14	
155	3.00	0.47	1.04	0.00	0.00	0.00	0.000	570.	12	
156	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	11	
157	3.00	1.37	3.08	0.00	0.00	1.30	0.000	561.	12	
158	3.00	0.00	0.00	0.00	0.00	0.00	0.000	614.	20	
159	3.00	0.00	0.00	0.00	0.00	0.00	0.000	615.	12	
160	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	9	
61	3.00	2.78	6.15	0.11	0.00	0.00	0.000	567.	10	
162	3.00	0.50	1.13	0.00	0.00	0.00	0.000	564.	7	
163	3.00	0.95	2.11	0.00	0.00	0.00	0.000	574.	2	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
164	3.00	0.00	0.00	1.27	1.54	0.63	0.000	534.	9		
165	3.00	0.00	0.00	1.94	2.34	1.97	198.48	581.	12		
166	3.00	0.00	0.00	0.00	0.00	0.97	0.000	585.	17		
67	3.00	1.54	3.42	0.00	0.00	0.00	0.000	575.	7		
168	3.00	2.19	4.80	0.00	0.00	0.30	0.000	582.	7		
169	3.00	0.00	0.00	0.00	0.00	0.00	0.000	545.	7		
170	3.00	0.58	1.09	0.60	0.66	1.30	0.000	586.	12		
171	3.00	0.03	0.06	0.00	0.00	0.00	0.000	567.	8		
172	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	13		
173	3.00	0.00	0.00	0.00	0.00	0.30	0.000	587.	12		
174	3.00	2.63	5.75	0.00	0.00	1.97	0.000	586.	4		
175	3.00	1.77	3.05	2.80	3.18	1.63	32.384	578.	8		
176	3.00	0.00	0.00	0.60	0.73	0.00	0.000	584.	8		
177	3.00	2.61	5.69	0.00	0.00	0.00	0.000	591.	10		
178	3.00	2.03	4.49	0.00	0.00	0.63	0.000	575.	5		
179	3.00	0.15	0.02	1.01	1.21	0.00	0.000	582.	13		
180	3.00	0.25	0.56	0.00	0.00	0.00	0.000	575.	13		
181	3.00	4.06	8.92	0.00	0.00	0.00	0.000	581.	16		
182	3.00	0.00	0.00	0.27	0.33	0.00	0.000	551.	19		
183	3.00	0.00	0.00	0.36	0.44	0.87	0.000	595.	18		
184	3.00	2.36	5.25	0.00	0.00	0.97	0.000	569.	6		
185	3.00	0.00	0.00	0.00	0.00	1.30	0.000	570.	12		
186	3.00	0.00	0.00	0.00	0.00	0.97	0.000	565.	33		
187	3.00	2.66	5.75	0.00	0.00	0.00	0.000	600.	11		
188	3.00	0.00	0.00	0.65	0.79	0.00	0.000	564.	10		
189	3.00	0.00	0.00	1.27	1.54	0.00	0.000	590.	13		
190	3.00	0.00	0.00	0.00	0.00	0.97	0.000	580.	13		
191	3.00	0.00	0.00	0.00	0.00	1.97	0.000	594.	14		
92	3.00	0.00	0.00	0.00	0.00	1.30	0.000	587.	21		
193	3.00	2.58	5.22	1.23	1.19	0.00	81.589	593.	11		
194	3.00	0.00	0.00	0.00	0.00	0.00	0.000	543.	25		
195	3.00	0.00	310.52	7.91	50.41	0.00	0.000	9.57	7	E	
196	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	14		
197	3.00	0.17	0.36	0.00	0.00	2.02	0.000	589.	17		
198	3.00	0.00	0.00	0.00	0.00	0.63	0.000	571.	14		
199	3.00	0.00	0.00	0.94	1.13	3.97	0.000	589.	17		
200	3.00	0.73	1.35	0.82	0.91	1.97	0.000	577.	10		
201	3.00	2.32	4.31	2.51	2.76	0.00	26.029	584.	11		
202	3.00	0.00	0.00	0.00	0.00	0.00	0.000	552.	22		
203	3.00	1.72	3.02	2.77	3.14	0.00	55.227	555.	12		
204	3.00	0.67	1.48	0.00	0.00	1.30	0.000	579.	15		
205	3.00	0.00	0.00	2.90	3.52	3.63	197.68	547.	20		
206	3.00	1.25	2.78	0.00	0.00	1.63	0.000	569.	12		
207	3.00	0.95	1.31	2.63	3.06	0.30	57.910	566.	8		
208	3.00	0.00	0.00	0.00	0.00	3.97	0.000	587.	11		-258#64 ✓
(8 missing vials)											
217	3.00	0.00	0.00	0.00	0.00	2.30	0.000	574.	17		-260#1
218	3.00	0.08	0.00	3.15	3.81	0.20	49.572	575.	14		
219	3.00	1.20	2.12	1.74	1.96	0.00	12.359	573.	7		
220	3.00	1.45	2.88	1.27	1.36	0.00	0.000	548.	0		
221	3.00	0.00	0.00	0.00	0.00	0.30	0.000	560.	19		
222	3.00	0.00	0.00	1.86	2.24	0.00	154.68	574.	17		260#6
(1 missing vial)											
24	3.00	0.00	0.00	0.79	0.96	0.00	0.000	564.	8		260#10
25	3.00	0.00	0.00	0.00	0.00	0.30	0.000	588.	13		
226	3.00	0.00	0.00	0.35	0.42	1.63	0.000	571.	15		260#12

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
227	3.00	0.00	0.00	0.27	0.33	2.97	0.000	544.	10	260#13
228	3.00	0.00	0.00	0.10	0.12	2.30	0.000	555.	11	
229	3.00	1.31	2.84	0.27	0.17	0.30	0.000	563.	9	
230	3.00	0.15	0.21	0.40	0.47	0.00	0.000	558.	11	
231	3.00	0.00	0.00	0.24	0.29	0.00	0.000	570.	22	
232	3.00	0.00	0.00	0.47	0.57	0.00	0.000	562.	6	
233	3.00	0.00	0.00	0.00	0.00	0.00	0.000	563.	16	
234	3.00	2.72	6.02	0.00	0.00	2.97	10.746	573.	18	
235	3.00	4.96	10.83	0.00	0.00	1.30	0.000	587.	7	
236	3.00	0.58	0.71	1.94	2.27	0.00	9.975	561.	11	
237	3.00	0.78	1.74	0.00	0.00	2.30	0.000	563.	10	
238	3.00	0.69	0.96	1.86	2.17	0.00	0.000	574.	10	
239	3.00	1.40	3.07	0.00	0.00	0.00	0.000	581.	14	
240	3.00	0.49	1.11	0.00	0.00	2.97	0.000	548.	21	
241	3.00	2.18	3.95	3.26	3.68	0.00	24.698	544.	14	
242	3.00	0.12	0.27	0.00	0.00	1.30	0.000	589.	15	
243	3.00	2.08	4.02	1.78	1.91	1.97	31.383	580.	11	
244	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	17	
245	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	6	
246	3.00	3.39	7.32	0.27	0.00	1.63	35.539	588.	3	
247	3.00	0.00	0.00	0.00	0.00	5.63	0.000	591.	9	
248	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	10	
249	3.00	2.82	6.24	0.00	0.00	0.00	0.000	574.	10	
250	3.00	0.00	0.00	0.94	1.13	2.97	37.482	579.	15	
251	3.00	0.00	0.00	1.68	2.03	0.00	0.000	575.	11	
252	3.00	3.61	7.55	1.27	1.11	0.97	0.000	581.	9	
253	3.00	0.00	0.00	0.00	0.00	0.00	0.000	561.	15	
254	3.00	1.00	1.90	0.94	1.02	0.97	0.000	589.	7	
255	3.00	0.00	0.00	0.00	0.00	0.00	0.000	562.	13	
256	3.00	2.04	4.43	0.00	0.00	0.63	0.000	591.	4	
257	3.00	0.00	0.00	0.27	0.33	0.00	0.000	554.	11	
258	3.00	1.50	3.28	0.00	0.00	0.00	0.000	585.	13	
259	3.00	1.20	2.12	1.71	1.93	0.30	60.310	577.	8	
260	3.00	2.95	6.34	0.94	0.78	0.00	0.000	557.	9	
261	3.00	0.00	0.00	0.00	0.00	1.30	0.000	576.	14	
262	3.00	1.77	3.93	0.00	0.00	0.97	0.000	571.	12	
263	3.00	1.26	2.82	0.00	0.00	3.63	0.000	567.	11	
264	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	10	
265	3.00	3.75	7.37	2.60	2.71	0.00	44.120	590.	1	
266	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	10	
267	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	16	
268	3.00	0.00	0.00	0.00	0.00	0.30	0.000	578.	15	
269	3.00	0.00	0.00	0.27	0.33	0.00	0.000	586.	17	
270	3.00	0.00	0.00	0.06	0.08	0.00	0.000	574.	6	
271	3.00	0.00	0.00	0.00	0.00	1.63	0.000	585.	10	
272	3.00	1.46	2.87	1.14	1.21	0.97	23.159	578.	7	
273	3.00	0.00	0.00	2.27	2.75	1.30	0.000	581.	14	
274	3.00	0.41	0.00	3.14	3.75	0.63	57.551	583.	9	
275	3.00	0.00	0.00	0.61	0.74	0.00	0.000	593.	6	
276	3.00	1.15	2.51	0.00	0.00	0.00	52.067	586.	15	
277	3.00	0.00	0.00	0.94	1.13	0.63	0.000	586.	14	
278	3.00	2.42	5.28	0.13	0.00	0.00	0.000	578.	10	
279	3.00	0.00	0.00	1.40	1.70	0.00	0.000	573.	18	
280	3.00	0.00	0.00	0.00	0.00	0.00	0.000	565.	20	
281	3.00	0.00	0.00	3.60	4.36	1.30	17.071	588.	8	
282	3.00	0.00	0.00	2.06	2.50	0.97	6584.0	574.	25	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
283	3.00	3.60	7.77	0.39	0.05	0.00	0.000	584.	3	
284	3.00	1.01	2.18	0.00	0.00	2.30	0.000	600.	15	
285	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	17	-260#71

.ONT PIN JAM FWD

Lakeside Hosp. 813, 254, 254A, 255

Protocol #:26 Name:Decommissioning2 25-Jun-2004 09:00
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.75		10.78		8.30	56.443	573.	16	B	
2	3.00	16638.1	657.13	114959.	133906.	575.51	160.88	995.	0	E	
3	3.00	105220.	172678.	8274.36	0.00	0.00	19.804	992.	0	E	
4	3.00	0.00	0.00	0.00	0.00	1.70	0.000	985.	16	E	
(2 missing vials)											
7	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	4		~813 #1
8	3.00	0.05	0.11	0.00	0.00	0.03	0.000	585.	2		
9	3.00	3.44	7.45	0.00	0.00	0.37	0.000	598.	11		
10	3.00	1.83	3.98	0.00	0.00	0.00	0.000	593.	5		
11	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	9		
12	3.00	2.66	5.59	0.79	0.64	0.00	62.841	582.	2		
13	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	10		
14	3.00	1.33	2.90	0.00	0.00	2.70	0.000	594.	16		
15	3.00	0.00	0.00	0.00	0.00	0.37	0.000	598.	8		
16	3.00	5.52	12.00	0.00	0.00	0.00	22.626	592.	3		
17	3.00	1.04	2.09	0.60	0.60	1.03	111.37	587.	10		
18	3.00	0.00	0.00	0.00	0.00	2.03	0.000	577.	16		
19	3.00	0.00	0.00	0.64	0.77	0.70	1930.6	587.	13		
20	3.00	0.52	0.64	1.57	1.84	0.00	160.86	593.	3		
21	3.00	0.00	0.00	0.00	0.00	3.03	0.000	578.	9		
22	3.00	0.00	0.00	0.00	0.00	2.37	0.000	591.	16		
23	3.00	0.00	0.00	0.00	0.00	0.03	0.000	586.	20		
24	3.00	0.00	0.00	0.00	0.00	1.03	0.000	586.	6		
25	3.00	0.00	0.00	0.00	0.00	0.70	0.000	595.	17		
26	3.00	0.00	0.00	0.23	0.28	1.37	20.875	592.	11		
27	3.00	0.00	0.00	0.47	0.57	1.37	280.67	600.	7		
28	3.00	1.98	4.31	0.00	0.00	0.03	0.000	590.	16		
29	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	16		
30	3.00	0.00	0.00	0.00	0.00	0.59	0.000	587.	19		
31	3.00	0.47	0.55	1.56	1.82	0.00	180.54	598.	7		
32	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	15		
33	3.00	0.00	0.00	0.00	0.00	1.03	0.000	590.	8		
34	3.00	1.87	4.07	0.00	0.00	0.03	0.000	590.	2		
35	3.00	0.00	0.00	0.43	0.52	1.03	0.000	603.	15		
36	3.00	0.00	0.00	2.18	2.64	0.00	73.290	600.	13		
37	3.00	0.01	0.03	0.00	0.00	0.00	0.000	584.	8		
38	3.00	0.00	0.00	0.00	0.00	2.03	0.000	589.	16		
39	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	18		
40	3.00	0.00	0.00	0.00	0.00	0.70	0.000	585.	14		
41	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	4		
42	3.00	0.39	0.67	0.59	0.66	0.70	0.000	589.	10		
43	3.00	0.00	0.00	0.00	0.00	0.37	0.000	586.	6		
44	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	11		
45	3.00	0.50	1.08	0.00	0.00	0.00	0.000	600.	6		
46	3.00	0.24	0.52	0.00	0.00	0.00	0.000	601.	4		
47	3.00	0.17	0.37	0.00	0.00	0.00	0.000	602.	9		Rm813 #41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	15	813#42
49	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	7	
50	3.00	0.11	0.24	0.00	0.00	0.00	0.000	589.	6	
51	3.00	0.00	0.00	1.58	1.91	0.00	0.000	592.	15	
52	3.00	0.00	0.00	0.00	0.00	0.03	1077.9	591.	14	
53	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	2	
54	3.00	0.00	0.00	0.22	0.27	0.00	0.000	590.	4	
55	3.00	0.00	0.00	0.00	0.00	2.37	0.000	604.	6	
56	3.00	0.00	0.00	1.48	1.79	0.00	313.90	599.	4	
57	3.00	0.00	0.00	1.86	2.25	0.00	0.000	598.	10	
58	3.00	1.86	4.01	0.00	0.00	2.37	0.000	603.	4	
59	3.00	0.86	1.84	0.00	0.00	0.00	0.000	611.	4	
60	3.00	0.00	0.00	0.25	0.30	0.00	0.000	593.	6	
61	3.00	0.55	0.80	1.29	1.50	0.00	3.017	591.	16	
62	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	14	
63	3.00	0.84	0.64	3.83	4.54	0.00	44.048	598.	7	
64	3.00	0.00	0.00	0.56	0.68	0.00	0.000	593.	10	
65	3.00	0.19	0.42	0.00	0.00	0.70	0.000	598.	6	
66	3.00	0.52	1.12	0.00	0.00	0.37	275.58	595.	5	
67	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	9	
68	3.00	0.20	0.43	0.00	0.00	0.00	0.000	595.	5	
69	3.00	0.84	1.79	0.00	0.00	1.70	0.000	606.	6	
70	3.00	2.87	6.20	0.00	0.00	0.00	0.000	600.	5	
71	3.00	0.76	1.45	0.58	0.61	2.70	83.589	605.	8	
72	3.00	0.00	0.00	0.00	0.00	1.16	0.000	600.	14	
73	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	13	
74	3.00	0.00	0.00	0.00	0.00	0.03	0.000	595.	17	
75	3.00	0.23	0.50	0.00	0.00	0.00	0.000	603.	6	
76	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	22	
77	3.00	1.49	3.23	0.00	0.00	1.37	0.000	596.	8	
78	3.00	0.80	1.73	0.00	0.00	0.00	0.000	600.	12	
79	3.00	0.00	0.00	1.49	1.80	0.00	0.000	599.	5	
80	3.00	0.00	0.00	0.00	0.00	2.37	0.000	599.	13	
81	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	12	
82	3.00	0.00	0.00	0.00	0.00	0.03	0.000	601.	11	
83	3.00	1.59	3.44	0.00	0.00	1.03	0.000	599.	2	
84	3.00	0.00	0.00	0.00	0.00	2.70	0.000	597.	15	
85	3.00	2.26	4.53	1.08	1.04	0.00	80.891	604.	8	
86	3.00	0.20	0.43	0.00	0.00	0.00	0.000	594.	4	
87	3.00	0.18	0.39	0.00	0.00	1.37	0.000	603.	9	
88	3.00	2.57	5.53	0.00	0.00	0.37	0.000	604.	5	
89	3.00	0.00	0.00	0.56	0.67	1.03	0.000	601.	11	
90	3.00	0.00	0.00	0.00	0.00	2.37	0.000	603.	15	
91	3.00	0.00	0.00	0.00	0.00	0.37	0.000	609.	17	
92	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	13	
93	3.00	0.45	0.89	0.22	0.22	0.00	23.734	604.	9	
94	3.00	0.00	0.00	0.52	0.62	1.03	0.000	600.	19	
95	3.00	1.89	4.14	0.00	0.00	1.70	101.22	585.	2	
96	3.00	1.92	3.78	1.16	1.19	0.70	110.53	602.	3	
97	3.00	2.14	4.27	1.23	1.23	0.00	45.983	594.	6	
98	3.00	0.00	0.00	2.56	3.09	0.00	216.51	596.	5	
99	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	7	
100	3.00	0.00	0.00	1.52	1.83	1.70	274.22	597.	15	
101	3.00	2.11	4.64	0.00	0.00	0.00	0.000	580.	4	
102	3.00	0.00	0.00	1.90	2.30	0.00	0.000	592.	12	
103	3.00	0.00	0.00	0.31	0.38	0.00	0.000	590.	10	Rm 813#97

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
104	3.00	0.00	0.00	0.00	0.00	0.90	0.000	591.	6	Rm813 #98
105	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	13	
06	3.00	0.00	0.00	0.00	0.00	0.37	0.000	601.	9	
107	3.00	0.00	0.00	0.48	0.58	0.00	0.000	574.	18	
108	3.00	0.78	1.63	0.20	0.15	0.00	64.492	596.	10	
109	3.00	1.00	2.16	0.00	0.00	0.00	17.031	605.	16	
110	3.00	0.00	0.00	0.50	0.61	0.00	0.000	598.	16	
111	3.00	0.00	0.00	1.16	1.40	0.70	237.50	603.	12	
112	3.00	2.87	6.20	0.00	0.00	0.00	0.000	598.	7	
113	3.00	0.00	0.00	0.54	0.66	1.03	0.000	596.	12	
114	3.00	0.00	0.00	0.00	0.00	2.37	0.000	585.	31	
115	3.00	1.09	2.19	0.58	0.57	4.03	62.575	590.	8	
116	3.00	2.45	5.35	0.00	0.00	0.00	0.000	590.	5	
117	3.00	0.43	0.94	0.00	0.00	1.37	0.000	591.	9	
118	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	20	
119	3.00	0.00	0.00	0.20	0.24	1.67	0.000	602.	7	
120	3.00	1.65	3.24	1.38	1.47	0.00	65.711	569.	6	
121	3.00	0.76	1.66	0.00	0.00	0.00	0.000	588.	6	
122	3.00	0.00	0.00	0.00	0.00	0.03	0.000	581.	13	
123	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	16	
124	3.00	0.06	0.12	0.00	0.00	0.00	0.000	589.	11	
125	3.00	0.00	0.00	0.00	0.00	0.70	0.000	587.	13	
126	3.00	0.00	0.00	0.46	0.56	0.00	0.000	575.	18	
127	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	12	
128	3.00	3.14	6.89	0.00	0.00	0.37	0.000	582.	7	
129	3.00	2.93	6.30	0.00	0.00	1.70	29.062	603.	6	
130	3.00	0.00	0.00	1.46	1.77	0.00	0.000	607.	11	
131	3.00	0.00	0.00	1.56	1.89	0.00	12.350	537.	7	
32	3.00	0.32	0.71	0.00	0.00	0.00	0.000	588.	13	
133	3.00	5.51	12.15	0.00	0.00	1.03	0.000	578.	16	
134	3.00	2.57	5.56	0.00	0.00	0.00	0.000	595.	2	
135	3.00	0.00	0.00	0.00	0.00	3.03	0.000	574.	10	
136	3.00	0.00	0.00	0.00	0.00	0.00	0.000	545.	14	
137	3.00	0.00	0.00	0.55	0.67	0.00	124.23	594.	19	
138	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	13	
139	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	23	
140	3.00	0.00	0.00	0.00	0.00	0.00	0.000	578.	21	
141	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	14	
142	3.00	0.34	0.73	0.00	0.00	0.00	0.000	594.	17	
143	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	24	
144	3.00	0.45	0.91	0.19	0.18	0.00	391.68	595.	10	
145	3.00	1.00	2.18	0.00	0.00	0.00	35.058	589.	13	
146	3.00	0.00	0.00	1.31	1.58	0.66	0.000	590.	16	
147	3.00	0.00	0.00	0.00	0.00	0.37	0.000	591.	21	
148	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	12	
149	3.00	1.11	2.43	0.00	0.00	0.00	0.000	590.	9	
150	3.00	0.00	0.00	2.89	3.49	0.00	159.74	580.	17	
151	3.00	0.00	0.00	0.00	0.00	0.70	0.000	567.	13	
152	3.00	0.00	0.01	0.00	0.00	0.00	0.000	581.	11	
153	3.00	1.11	2.36	0.23	0.15	0.00	174.00	590.	7	
154	3.00	0.00	0.00	0.00	0.00	1.37	0.000	598.	11	
155	3.00	0.00	0.00	0.00	0.00	0.70	0.000	602.	13	
156	3.00	0.00	0.00	0.00	0.00	0.37	0.000	583.	11	
57	3.00	0.00	0.00	0.00	0.00	4.03	0.000	599.	13	
158	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	16	
159	3.00	0.00	0.00	1.50	1.81	0.00	0.000	602.	12	Rm813 #153

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
160	3.00	0.00	0.00	2.42	2.93	0.70	60.189	563.	11	Rm813#154
161	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	10	
162	3.00	0.00	0.00	0.00	0.00	0.70	0.000	589.	4	
163	3.00	2.65	5.84	0.00	0.00	0.00	0.000	580.	5	
164	3.00	0.00	0.00	0.66	0.79	0.37	0.000	554.	9	
165	3.00	2.70	5.81	0.30	0.05	0.00	73.917	588.	8	
166	3.00	0.00	0.00	0.00	0.00	2.03	0.000	568.	19	
167	3.00	0.06	0.13	0.00	0.00	0.70	0.000	590.	12	
168	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	10	
169	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	9	
170	3.00	0.00	0.00	0.00	0.00	0.37	0.000	574.	14	
171	3.00	3.11	6.81	0.00	0.00	0.00	0.000	584.	5	
172	3.00	10.09	22.09	2.44	1.72	0.00	16.038	550.	10	813#167
173	3.00	105.33	231.79	4.26	0.00	0.00	11.477	574.	2	
174	3.00	1.81	3.88	0.00	0.00	0.37	65.874	605.	12	813#125 Af
175	3.00	491.95	843.11	1020.18	1178.83	0.00	49.383	498.	0	813#148
176	3.00	0.00	0.00	1.21	1.46	0.00	0.000	596.	9	813#148 After Decon
(4 missing vials)										
181	3.00	0.00	0.00	1.26	1.53	0.00	0.000	590.	19	
182	3.00	2.28	4.92	0.34	0.14	1.70	4.413	576.	11	25
183	3.00	1.84	4.04	0.00	0.00	2.37	0.000	581.	16	
184	3.00	2.66	5.75	0.00	0.00	2.37	0.000	596.	18	
185	3.00	0.00	0.00	3.23	3.90	0.70	63.771	593.	22	
186	3.00	0.31	0.67	0.00	0.00	0.00	127.50	594.	17	
187	3.00	4.43	9.60	0.00	0.00	1.37	0.000	595.	10	
188	3.00	0.00	0.00	0.00	0.00	1.03	0.000	594.	32	
189	3.00	0.91	1.98	0.00	0.00	0.00	0.000	592.	20	
190	3.00	0.00	0.00	0.00	0.00	1.70	0.000	575.	34	
91	3.00	0.03	0.07	0.00	0.00	0.37	0.000	595.	14	
192	3.00	0.10	0.00	1.90	2.29	2.70	100.42	593.	23	#20 Missing
193	3.00	0.00	0.00	0.25	0.30	0.00	0.000	589.	22	
194	3.00	1.61	3.51	0.00	0.00	0.03	0.000	591.	17	
195	3.00	0.84	1.81	0.00	0.00	0.00	0.000	599.	24	
196	3.00	4.40	9.45	0.18	0.00	0.00	62.420	600.	11	
197	3.00	0.00	0.00	0.00	0.00	0.37	0.000	575.	23	
198	3.00	0.00	0.00	1.56	1.88	0.70	0.000	594.	20	
199	3.00	0.00	0.00	1.61	1.94	0.03	344.10	591.	13	
200	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	13	
201	3.00	1.72	3.75	0.00	0.00	0.03	0.000	589.	9	
202	3.00	0.01	0.03	0.00	0.00	2.37	0.000	582.	13	
203	3.00	0.00	0.00	0.00	0.00	0.37	178.05	588.	16	
204	3.00	0.35	0.76	0.00	0.00	0.00	0.000	582.	11	
205	3.00	1.72	3.74	0.00	0.00	0.00	155.98	596.	12	
206	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	32	
207	3.00	0.00	0.00	1.89	2.28	0.00	0.000	594.	6	
208	3.00	0.00	0.00	0.00	0.00	0.37	0.000	586.	19	
209	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	10	
210	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	29	
211	3.00	0.00	0.00	0.00	0.00	0.70	0.000	619.	26	
212	3.00	0.00	0.00	0.00	0.00	2.03	0.000	600.	26	
213	3.00	2.10	3.89	2.23	2.45	1.37	63.717	592.	7	
214	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	14	
215	3.00	1.86	4.01	0.00	0.00	0.00	0.000	599.	10	
16	3.00	0.00	0.00	2.54	3.07	2.70	267.78	595.	17	
17	3.00	2.12	3.23	4.64	5.36	0.00	81.213	581.	17	
218	3.00	0.00	0.00	0.51	0.62	0.00	0.000	601.	35	Rm 254 #39

lac lines

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
219	3.00	0.00	0.00	0.00	0.00	4.37	0.000	597.	22	• Rm 254 # 40
220	3.00	0.00	0.00	0.00	0.00	2.70	0.000	595.	10	
221	3.00	0.00	0.00	0.00	0.00	1.03	0.000	599.	17	
222	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	4	
223	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	5	
224	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	12	
225	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	18	
226	3.00	2.39	5.14	0.00	0.00	0.37	0.000	604.	12	
227	3.00	0.06	0.13	0.00	0.00	1.37	0.000	601.	12	
228	3.00	0.00	0.00	0.00	0.00	0.37	0.000	572.	16	
229	3.00	0.00	0.00	0.22	0.27	0.00	0.000	594.	23	•
230	3.00	0.00	0.00	0.00	0.00	2.03	0.000	583.	15	
231	3.00	2.81	5.60	1.50	1.49	1.03	0.000	602.	9	
232	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	14	
233	3.00	0.32	0.69	0.00	0.00	0.83	0.000	600.	20	
234	3.00	1.12	2.43	0.00	0.00	0.00	0.000	597.	14	
235	3.00	0.53	1.15	0.00	0.00	0.03	0.000	600.	22	
236	3.00	0.27	0.45	0.48	0.55	0.00	60.088	600.	21	
237	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	24	
238	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	21	
239	3.00	0.00	0.00	0.00	0.00	0.03	0.000	579.	19	•
240	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	14	
241	3.00	0.00	0.00	0.81	0.97	0.03	0.000	596.	12	
242	3.00	0.00	0.00	0.00	0.00	0.37	0.000	596.	18	
243	3.00	1.64	3.55	0.00	0.00	0.00	0.000	593.	19	
244	3.00	0.00	0.00	0.89	1.08	0.00	205.96	593.	21	
245	3.00	0.81	1.74	0.00	0.00	0.00	0.000	600.	9	
246	3.00	3.17	6.84	0.00	0.00	0.37	122.54	600.	5	
247	3.00	1.61	3.48	0.00	0.00	0.00	0.000	600.	20	
248	3.00	0.00	0.00	0.73	0.88	1.37	0.000	585.	36	
249	3.00	2.72	5.91	0.00	0.00	2.03	0.000	593.	12	•
250	3.00	0.00	0.00	0.00	0.00	2.03	0.000	587.	28	
251	3.00	0.00	0.00	1.89	2.28	1.03	218.31	602.	14	
252	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	16	
253	3.00	0.00	0.00	0.00	0.00	1.18	0.000	603.	14	
254	3.00	0.03	0.00	0.84	1.01	0.00	65.004	602.	16	
255	3.00	0.72	1.49	0.23	0.19	1.37	49.052	593.	12	
256	3.00	0.61	1.04	0.97	1.10	0.03	89.880	587.	13	
257	3.00	1.52	3.28	0.00	0.00	0.37	0.000	601.	7	
258	3.00	0.98	1.75	1.22	1.36	0.00	82.905	593.	15	
259	3.00	0.00	0.00	0.56	0.67	0.00	0.000	601.	8	•
260	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	22	
261	3.00	0.62	0.95	1.38	1.60	0.00	0.000	569.	8	
262	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	26	
263	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	13	
264	3.00	0.00	0.00	1.20	1.45	0.70	0.000	595.	10	
265	3.00	0.00	0.00	0.01	0.01	0.03	85.016	575.	14	
266	3.00	0.00	0.00	0.13	0.15	0.00	27.463	601.	15	
267	3.00	0.00	0.00	0.00	0.00	1.37	0.000	561.	17	
268	3.00	0.00	0.00	2.15	2.59	0.00	0.000	600.	18	
269	3.00	0.00	0.00	0.00	0.00	0.03	0.000	601.	25	•
270	3.00	3.59	7.72	0.00	0.00	0.00	0.000	602.	4	
271	3.00	0.69	1.48	0.00	0.00	0.00	0.000	596.	16	
272	3.00	0.00	0.00	0.00	0.00	0.70	0.000	599.	24	
273	3.00	0.88	1.90	0.00	0.00	0.03	27.374	601.	5	
274	3.00	1.86	3.66	1.26	1.30	0.03	0.000	588.	2	Rm 254 #95

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
275	3.00	0.00	0.00	0.86	1.04	3.03	341.73	595.	19	254#96
276	3.00	0.00	0.00	0.09	0.11	0.00	0.000	603.	23	
77	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	50	
278	3.00	1.17	2.52	0.00	0.00	0.00	0.000	598.	24	
279	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	16	
280	3.00	0.00	0.00	0.00	0.00	1.03	0.000	609.	21	
281	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	22	
282	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	24	
283	3.00	2.39	5.24	0.00	0.00	0.00	0.000	583.	4	
284	3.00	1.42	3.08	0.00	0.00	0.00	0.000	593.	11	-254# 105
(2 missing vials)										
287	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	32	-254A # 1
288	3.00	0.00	0.00	0.25	0.31	0.70	0.000	589.	14	
289	3.00	0.00	0.00	0.00	0.00	0.70	0.000	575.	20	
290	3.00	0.00	0.00	1.86	2.25	0.00	74.546	598.	5	
291	3.00	0.00	0.00	0.00	0.00	0.03	0.000	583.	4	
292	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	8	
293	3.00	0.00	0.00	1.22	1.48	0.00	0.000	588.	9	
294	3.00	0.00	0.00	2.54	3.07	0.00	175.41	596.	14	
295	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	10	
296	3.00	0.00	0.00	2.88	3.48	0.70	64.047	595.	22	
297	3.00	1.34	2.91	0.00	0.00	0.37	0.000	590.	15	
298	3.00	0.00	0.00	0.00	0.00	1.37	0.000	605.	32	
299	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	20	
300	3.00	0.03	0.07	0.00	0.00	0.00	0.000	603.	14	
301	3.00	1.10	2.38	0.00	0.00	0.00	0.000	600.	14	
302	3.00	0.00	0.00	0.55	0.66	0.03	14.088	595.	18	
303	3.00	0.00	0.00	2.15	2.60	1.37	1079.3	604.	32	
04	3.00	1.98	4.27	0.00	0.00	1.37	0.000	603.	18	
305	3.00	0.00	0.00	0.00	0.00	0.03	0.000	595.	18	
306	3.00	3.00	6.48	0.00	0.00	0.00	0.000	600.	14	
307	3.00	0.03	0.07	0.00	0.00	0.03	0.000	598.	14	
308	3.00	0.00	0.00	0.00	0.00	0.03	0.000	596.	17	
309	3.00	0.77	1.68	0.00	0.00	0.00	0.000	588.	7	
310	3.00	4.07	8.46	1.63	1.49	0.00	9.980	578.	6	
311	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	14	
312	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	15	
313	3.00	0.00	0.00	0.57	0.69	2.03	0.000	591.	7	
314	3.00	0.34	0.14	1.94	2.31	0.70	173.90	590.	11	
315	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	20	
316	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	19	
317	3.00	0.00	0.00	0.00	0.00	0.18	0.000	592.	16	
318	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	8	
319	3.00	0.40	0.85	0.00	0.00	2.37	0.000	602.	9	
320	3.00	0.83	1.78	0.00	0.00	0.70	0.000	605.	11	
321	3.00	2.27	4.89	0.00	0.00	0.70	0.000	601.	6	
322	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	9	
323	3.00	1.34	2.41	1.56	1.72	0.00	24.249	601.	13	
324	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	22	
325	3.00	2.71	5.62	0.85	0.71	0.00	8.250	596.	13	
326	3.00	0.00	0.00	1.20	1.46	0.00	133.67	595.	17	
327	3.00	3.72	8.05	0.00	0.00	0.00	0.000	598.	12	
328	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	22	
29	3.00	3.04	6.33	0.97	0.81	0.00	56.505	588.	7	
330	3.00	0.00	0.00	0.00	0.00	0.03	0.000	592.	21	
331	3.00	3.42	7.39	0.00	0.00	0.70	0.000	599.	11	Rm 254A # 45

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
332	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	31	-254A # 46
(4 missing vials)										
37	3.00	0.00	0.00	0.00	0.00	0.37	0.000	586.	20	-255 # 1
38	3.00	0.00	0.00	0.00	0.00	0.37	0.000	566.	11	
339	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	19	
340	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	15	
341	3.00	3.41	7.47	0.00	0.00	0.00	168.05	584.	7	
342	3.00	2.12	4.73	0.00	0.00	4.03	9.965	563.	13	
343	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	23	
344	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	17	
345	3.00	0.00	0.00	0.54	0.65	0.00	121.30	596.	19	
346	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	33•	
347	3.00	0.00	0.00	1.19	1.43	0.00	11.063	597.	15	
348	3.00	0.00	0.00	0.00	0.00	0.03	0.000	594.	22	
349	3.00	0.30	0.66	0.00	0.00	0.37	0.000	593.	18	
350	3.00	2.42	5.25	0.00	0.00	0.00	0.000	593.	10	
351	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	12	
352	3.00	0.00	0.00	0.00	0.00	1.03	0.000	572.	34	
353	3.00	1.03	1.88	1.22	1.36	0.00	121.77	588.	12	
354	3.00	0.06	0.13	0.00	0.00	1.37	0.000	597.	16	
355	3.00	2.11	4.57	0.00	0.00	0.00	0.000	598.	11	
356	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	15•	
357	3.00	0.00	0.00	0.72	0.88	0.37	0.000	585.	23	
358	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	17	
359	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	4	
360	3.00	0.00	0.00	0.00	0.00	2.46	0.000	593.	17	
361	3.00	1.72	3.71	0.00	0.00	2.70	0.000	600.	16	
362	3.00	0.00	0.00	0.00	0.00	0.00	871.91	589.	17	
63	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	24	
364	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	18	
365	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	11	
366	3.00	4.98	10.77	0.00	0.00	0.00	0.000	597.	14•	
367	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	25	
368	3.00	0.47	1.02	0.00	0.00	0.00	0.000	598.	11	
369	3.00	0.27	0.25	1.15	1.36	0.00	79.603	574.	20	
370	3.00	2.91	6.14	0.48	0.24	0.37	46.602	600.	5	
371	3.00	0.00	0.00	0.00	0.00	3.70	0.000	587.	17	
372	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	16	
373	3.00	1.32	2.90	0.00	0.00	0.00	0.000	586.	10	
374	3.00	2.00	4.36	0.00	0.00	0.00	26.970	592.	28	
375	3.00	0.37	0.79	0.00	0.00	0.22	0.000	603.	30	
376	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	32•	
377	3.00	0.00	0.00	0.00	0.00	0.03	0.000	579.	14	
378	3.00	0.00	0.00	0.00	0.00	0.70	0.000	588.	24	
379	3.00	0.00	0.00	1.51	1.83	0.03	74.228	600.	7	
380	3.00	0.45	0.60	1.20	1.39	0.03	194.73	598.	10	
381	3.00	0.33	0.72	0.00	0.00	0.00	0.000	588.	15	
382	3.00	0.00	0.00	0.00	0.00	0.00	337.81	601.	19	
383	3.00	0.00	0.00	0.00	0.00	0.03	0.000	608.	16	
384	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	13	
385	3.00	0.00	0.00	1.28	1.55	0.37	0.000	584.	20	
386	3.00	0.00	0.00	0.00	0.00	1.03	0.000	608.	12	255 # 50
FRONT PIN JAM FWD										

Lakeside Hosp - 848, 845, Misc 809 Regular closeout prior to Decomm. Survey.

Protocol #:26 Name:Decommissioning2 29-Jun-2004 14:45
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	6.89		11.10		9.90	62.646	569.	7	B	
2	3.00	16708.7	840.08	114677.	133534.	527.40	161.04	999.	0	E	
3	3.00	105592.	172472.	8292.51	0.00	0.10	19.891	1001	0	E	
4	3.00	0.00	0.00	0.00	0.00	5.43	0.000	985.	40	E	
(3 missing vials)											
8	3.00	3.11	7.80	0.85	0.64	0.00	0.000	442.	3	-809 FreezerIc	
9	3.00	4.19	9.00	0.00	0.00	0.00	0.000	606.	0	809 LeftCabin	
10	3.00	6.64	14.23	0.00	0.00	0.00	0.000	607.	8	809 RightCabi	
(2 missing vials)											
13	3.00	0.00	0.00	1.57	1.89	0.00	191.74	584.	12	-848 #1	
14	3.00	0.71	1.54	0.00	0.00	0.00	0.000	592.	4		
15	3.00	2.02	4.41	0.00	0.00	0.00	0.000	589.	4		
16	3.00	3.23	7.09	0.00	0.00	0.00	0.000	583.	10		
17	3.00	0.00	0.00	0.00	0.00	1.43	0.000	580.	13		
18	3.00	0.09	0.18	0.00	0.00	0.00	0.000	603.	7		
19	3.00	1.33	2.30	1.96	2.21	0.00	50.282	584.	3		
20	3.00	0.06	0.12	0.00	0.00	0.00	0.000	599.	7		
21	3.00	2.79	6.10	0.00	0.00	0.00	112.08	588.	15		
22	3.00	0.58	1.27	0.00	0.00	0.00	245.99	588.	6		
23	3.00	1.75	3.88	0.00	0.00	0.00	0.000	572.	6		
24	3.00	1.19	2.11	1.68	1.89	0.00	0.000	576.	8		
25	3.00	0.00	0.00	0.00	0.00	0.00	54.481	590.	14		
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	10		
27	3.00	0.00	0.00	0.69	0.83	0.00	0.000	575.	12		
28	3.00	1.61	3.46	0.00	0.00	0.00	0.000	604.	11		
29	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	3		
30	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	17		
31	3.00	1.68	3.72	0.00	0.00	0.00	0.000	576.	12		
32	3.00	0.00	0.00	1.23	1.49	0.00	136.11	589.	9		
33	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	6		
34	3.00	0.36	0.78	0.00	0.00	0.00	58.934	584.	6		
35	3.00	0.00	0.00	0.35	0.43	0.00	0.000	584.	6		
36	3.00	0.53	1.18	0.00	0.00	0.00	0.000	564.	4		
37	3.00	0.00	0.00	0.00	0.00	0.00	0.000	610.	12		
38	3.00	1.36	2.91	0.00	0.00	0.00	0.000	608.	6		
39	3.00	0.66	1.26	0.57	0.61	0.00	0.000	602.	7		
40	3.00	1.84	3.94	0.00	0.00	0.00	0.000	606.	7		
41	3.00	1.72	3.65	0.18	0.02	0.00	58.504	602.	7		
42	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	15		
43	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	10		
44	3.00	0.02	0.05	0.00	0.00	4.43	0.000	580.	7		
45	3.00	0.00	0.00	0.00	0.00	0.43	0.000	528.	2		
46	3.00	0.39	0.84	0.00	0.00	0.00	0.000	589.	4		
47	3.00	0.00	0.00	0.14	0.17	0.00	0.000	593.	16		
48	3.00	2.08	4.52	0.00	0.00	0.00	0.000	592.	2		
49	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	12	Rm848 #37	

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
50	3.00	2.77	5.97	0.00	0.00	0.00	0.000	604.	0	RM848#38
51	3.00	0.96	2.10	0.00	0.00	0.00	0.000	589.	8	
52	3.00	0.00	0.00	0.23	0.28	0.43	0.000	600.	0	
53	3.00	0.05	0.10	0.00	0.00	0.00	0.000	597.	7	
54	3.00	0.02	0.00	1.16	1.39	1.77	57.104	605.	10	
55	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	2	
56	3.00	3.26	7.12	0.00	0.00	0.00	106.40	587.	8	
57	3.00	1.36	2.95	0.00	0.00	0.00	0.000	594.	6	
58	3.00	2.49	5.32	0.00	0.00	0.00	0.000	612.	6	
59	3.00	0.07	0.00	1.08	1.30	0.77	112.64	615.	12	
60	3.00	1.77	3.85	0.00	0.00	0.00	0.000	594.	0	
61	3.00	0.61	0.64	2.23	2.63	0.00	75.898	591.	9	
62	3.00	1.75	3.52	0.90	0.88	0.00	82.976	594.	2	
63	3.00	1.26	2.77	0.00	0.00	1.43	0.000	582.	2	
64	3.00	0.00	0.00	0.37	0.45	0.00	0.000	572.	10	
65	3.00	0.00	0.00	3.55	4.30	0.00	154.73	596.	7	
66	3.00	0.00	0.00	2.68	3.25	0.00	138.54	575.	11	
67	3.00	0.66	1.44	0.00	0.00	0.00	0.000	597.	8	
68	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	7	
69	3.00	2.69	5.83	0.00	0.00	0.00	0.000	596.	5	
70	3.00	2.53	5.43	0.37	0.15	0.00	2.846	583.	6	
71	3.00	0.02	0.06	0.00	0.00	0.00	0.000	564.	7	
72	3.00	1.66	3.29	1.58	1.70	0.00	0.000	540.	6	
73	3.00	0.05	0.11	0.00	0.00	0.00	0.000	592.	5	
74	3.00	0.00	0.00	0.67	0.81	0.00	0.000	586.	11	
75	3.00	3.69	7.93	0.00	0.00	0.00	0.000	604.	5	
76	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	9	-848#64
(2 missing vials)										
79	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	12	-845#1
80	3.00	0.35	0.77	0.00	0.00	0.00	0.000	592.	5	
81	3.00	1.69	3.27	1.43	1.53	4.57	90.387	584.	5	
82	3.00	1.13	2.46	0.00	0.00	0.00	0.000	592.	18	
83	3.00	2.72	6.08	0.00	0.00	0.00	37.327	562.	3	
84	3.00	0.00	0.00	0.00	0.00	0.00	0.000	548.	2	
85	3.00	3.36	7.23	0.23	0.00	0.00	1.057	595.	5	
86	3.00	2.63	4.58	4.27	4.85	0.00	59.040	557.	6	
87	3.00	0.00	0.00	0.00	0.00	0.00	0.000	542.	10	
88	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	8	
89	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	6	
90	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	10	
91	3.00	0.72	1.56	0.00	0.00	0.00	0.000	593.	4	
92	3.00	1.76	3.82	0.11	0.00	0.00	32.051	583.	8	
93	3.00	0.00	0.00	0.00	0.00	0.77	0.000	586.	12	
94	3.00	0.00	0.00	0.32	0.38	0.00	0.000	572.	7	
95	3.00	0.00	0.00	0.00	0.00	0.00	0.000	565.	19	
96	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	18	
97	3.00	1.02	2.22	0.00	0.00	0.00	148.50	595.	6	
98	3.00	3.52	7.75	0.00	0.00	0.00	0.000	578.	4	
99	3.00	0.69	1.51	0.00	0.00	0.10	0.000	590.	6	
100	3.00	0.00	0.00	0.00	0.00	1.43	0.000	584.	2	
101	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	13	
102	3.00	1.15	2.54	0.17	0.06	0.00	0.000	552.	2	
103	3.00	1.69	3.75	0.00	0.00	0.00	0.000	570.	9	
104	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	9	
105	3.00	0.00	0.00	0.00	0.00	0.10	0.000	586.	10	
106	3.00	0.60	1.29	0.00	0.00	0.00	0.000	592.	15	845#28

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
107	3.00	1.28	2.22	1.90	2.15	0.00	30.269	582.	9	Rm845#29
108	3.00	0.00	0.00	0.00	0.00	0.00	0.000	568.	8*	
109	3.00	2.94	6.49	0.00	0.00	0.00	28.449	577.	10	
10	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	7	
111	3.00	2.30	4.98	0.00	0.00	0.00	0.000	597.	10	
112	3.00	0.69	1.43	0.23	0.20	0.00	81.650	594.	5	
113	3.00	0.49	1.05	0.00	0.00	0.00	0.000	601.	0	
114	3.00	0.55	1.20	0.00	0.00	0.00	4.465	598.	14	
115	3.00	1.28	2.74	0.00	0.00	1.43	0.000	604.	11	
116	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	9	
117	3.00	0.00	0.00	0.00	0.00	0.00	0.000	560.	17	
118	3.00	1.16	2.55	0.00	0.00	0.00	0.000	580.	13*	
119	3.00	1.58	3.46	0.00	0.00	0.00	0.000	585.	2	
120	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	2	
121	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	12	
122	3.00	0.36	0.81	0.00	0.00	0.00	0.000	570.	8	
123	3.00	1.04	2.25	0.00	0.00	0.00	0.000	594.	5	
124	3.00	1.41	2.98	0.21	0.09	0.00	138.33	597.	4	
125	3.00	0.00	0.00	0.00	0.00	0.00	0.000	563.	15	
126	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	4	
127	3.00	2.64	5.47	0.92	0.81	0.00	29.195	590.	6	
128	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	13*	
129	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	10	
130	3.00	2.02	4.21	0.49	0.36	0.00	0.000	598.	10	
131	3.00	3.31	7.34	0.00	0.00	0.00	0.000	573.	4	
132	3.00	2.66	5.92	0.00	0.00	0.00	0.000	570.	8	
133	3.00	0.73	1.57	0.00	0.00	0.00	0.000	604.	8	
134	3.00	2.39	5.12	0.00	0.00	0.77	0.000	605.	4	
35	3.00	0.64	1.41	0.00	0.00	0.00	0.000	582.	4	
136	3.00	0.00	0.00	0.53	0.64	0.00	0.000	599.	8	
137	3.00	1.75	3.78	0.00	0.00	1.77	96.920	598.	4	
138	3.00	2.87	6.27	0.00	0.00	0.00	0.000	585.	5*	
139	3.00	0.02	0.05	0.00	0.00	0.00	0.000	597.	7	
140	3.00	0.36	0.79	0.00	0.00	0.00	0.000	577.	6	
141	3.00	0.72	1.56	0.00	0.00	0.00	0.000	594.	4	
142	3.00	1.39	3.00	0.00	0.00	0.00	0.000	598.	6	
143	3.00	0.00	0.00	0.17	0.21	0.00	0.000	573.	14	
144	3.00	2.97	6.57	0.00	0.00	0.00	0.000	573.	5	
145	3.00	0.00	0.00	1.11	1.35	2.77	64.951	561.	9	
146	3.00	0.00	0.00	0.00	0.00	0.00	0.000	534.	11	
147	3.00	0.33	0.75	0.00	0.00	0.00	0.000	543.	8	
148	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	7*	
149	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	18	
150	3.00	4.56	10.06	0.00	0.00	0.00	0.000	578.	6	
151	3.00	0.57	1.24	0.00	0.00	0.00	31.012	597.	14	
152	3.00	0.00	0.00	0.00	0.00	0.43	0.000	528.	5	
153	3.00	0.00	0.00	0.00	0.00	0.00	0.000	530.	15	
154	3.00	4.84	10.18	1.44	1.18	0.00	100.29	583.	3	
155	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	8	
156	3.00	1.31	2.72	0.92	0.95	0.00	0.000	539.	7	
157	3.00	3.62	7.93	0.00	0.00	0.00	0.000	584.	2	
158	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	16*	
159	3.00	0.00	0.00	0.61	0.74	0.00	553.11	587.	7	
60	3.00	0.64	1.43	0.00	0.00	1.10	216.77	559.	9	
161	3.00	3.00	6.60	0.00	0.00	0.00	0.000	578.	7	
162	3.00	1.51	3.02	1.03	1.06	0.00	36.648	574.	8	845#84

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
163	3.00	1.00	2.29	0.00	0.00	0.00	0.000	540.	7	Rm845#85
164	3.00	2.00	3.88	1.57	1.66	0.00	29.122	589.	6	
65	3.00	0.44	0.97	0.00	0.00	0.43	0.000	584.	0	
66	3.00	1.97	4.26	0.00	0.00	0.00	673.64	598.	9	
167	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	14	
168	3.00	0.00	0.00	0.00	0.00	0.00	0.000	534.	13	
169	3.00	2.57	5.89	0.00	0.00	0.00	4.198	541.	12	
170	3.00	0.41	0.54	1.18	1.38	0.00	20.500	579.	5	
171	3.00	1.22	2.70	0.00	0.00	0.00	0.000	577.	8	-845#93

Lakeside - 809 Utter Recon of Cabinet (tile cabinet)
842

Protocol #:26 Name:Decommissioning2 01-Jul-2004 15:03
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	6.12		10.20		8.35	62.265	568.	16	B	
2	3.00	16751.3	881.95	114800.	133693.	527.75	160.67	996.	0	E	
3	3.00	105286.	172315.	8131.87	0.00	0.00	19.814	997.	0	E	
4	3.00	0.00	0.00	0.00	0.00	1.98	0.000	979.	55	E	
(1 missing vial)											
6	3.00	1.45	2.69	1.37	1.49	0.32	56.456	607.	12		809 L Top 3dr
7	3.00	4.47	9.06	1.80	1.66	0.32	43.546	603.	5		809 L Bot 3dr
8	3.00	2.71	5.79	0.00	0.00	2.65	0.000	609.	4		809 R Top 3dr
9	3.00	3.18	6.86	0.00	0.00	0.00	0.000	601.	6		809 R Bot 3dr.
10	3.00	2.22	4.79	0.00	0.00	0.00	0.000	603.	4		809 Cab Side
(2 missing vials)											
13	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	18		842 #1
14	3.00	2.08	4.51	0.00	0.00	4.32	0.000	594.	11		
15	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	7		
16	3.00	0.83	1.37	1.41	1.60	0.00	232.86	599.	7		
17	3.00	4.34	9.08	1.56	1.38	0.32	0.000	579.	6		
18	3.00	2.83	5.09	3.44	3.82	0.00	35.280	596.	5		
19	3.00	3.29	7.19	0.00	0.00	1.65	0.000	587.	7		
20	3.00	3.08	6.60	0.52	0.26	0.00	0.000	582.	5		
21	3.00	2.47	5.33	0.47	0.27	0.00	17.057	571.	5		
22	3.00	0.08	0.17	0.00	0.00	0.98	0.000	587.	11		
23	3.00	4.15	9.01	0.00	0.00	0.32	0.000	593.	4		
24	3.00	2.20	4.76	0.00	0.00	0.00	0.000	595.	2		
25	3.00	0.10	0.06	0.50	0.60	0.32	90.344	588.	6		
26	3.00	3.56	7.65	0.10	0.00	2.65	0.000	599.	2		
27	3.00	0.00	0.00	0.01	0.02	0.98	0.000	603.	7		
28	3.00	0.74	1.67	0.00	0.00	0.00	0.000	560.	11		
29	3.00	1.08	2.00	1.13	1.24	0.00	136.13	594.	9		
30	3.00	5.42	11.80	0.00	0.00	0.00	0.000	591.	7		
31	3.00	2.13	4.61	0.00	0.00	0.00	134.62	597.	6		
32	3.00	0.00	0.00	2.06	2.49	1.32	122.17	604.	6		
33	3.00	2.44	4.57	2.55	2.80	0.00	104.17	580.	2		
34	3.00	2.49	4.14	4.13	4.71	0.00	65.648	597.	3		
35	3.00	0.09	0.19	0.00	0.00	0.00	0.000	594.	13		
36	3.00	5.13	11.27	0.00	0.00	0.00	0.000	582.	5		
37	3.00	5.13	11.23	0.13	0.00	0.00	26.008	581.	5		
38	3.00	4.80	10.01	1.47	1.21	0.00	30.306	590.	5		
39	3.00	3.82	8.30	0.00	0.00	0.00	0.000	593.	4		
40	3.00	2.73	5.96	0.00	0.00	0.00	0.000	587.	9		
41	3.00	3.09	6.37	1.24	1.13	0.00	21.984	586.	2		
42	3.00	2.39	5.24	0.00	0.00	0.00	0.000	581.	7		
43	3.00	4.43	9.67	0.00	0.00	0.00	19.640	589.	5		
44	3.00	0.38	0.00	3.13	3.75	0.00	127.40	582.	10		
45	3.00	0.00	0.00	0.04	0.04	0.98	0.000	608.	15		
46	3.00	3.83	8.21	0.00	0.00	0.00	0.000	605.	9		
47	3.00	1.89	3.85	0.69	0.61	0.00	57.457	602.	7		842 #35

After Decay

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	3	842#36
49	3.00	0.00	0.00	1.34	1.62	0.00	66.771	603.	4	
50	3.00	4.84	9.67	2.84	2.87	1.32	64.532	590.	0	
51	3.00	0.00	0.00	5.47	6.60	1.65	78.887	608.	6	
52	3.00	4.52	9.69	0.00	0.00	0.00	0.000	608.	2	
53	3.00	0.59	0.91	1.29	1.49	0.98	25.721	570.	9	
54	3.00	3.49	7.51	0.00	0.00	3.65	0.000	604.	4	
55	3.00	0.00	0.00	0.80	0.97	2.98	0.000	602.	7	
56	3.00	2.14	4.63	0.00	0.00	0.00	52.496	600.	8	
57	3.00	1.55	2.60	2.36	2.67	0.00	66.326	609.	7	
58	3.00	0.00	0.00	0.00	0.00	0.32	0.000	602.	9	
59	3.00	0.27	0.59	0.00	0.00	0.00	0.000	610.	4	
60	3.00	0.16	0.35	0.00	0.00	0.32	0.000	603.	4	
61	3.00	0.60	1.30	0.00	0.00	0.00	0.000	602.	4	
62	3.00	5.19	11.15	0.00	0.00	0.32	0.000	605.	2	
63	3.00	1.80	3.83	0.13	0.00	0.65	0.000	604.	6	
64	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	18	
65	3.00	0.00	0.00	0.64	0.77	0.00	0.000	606.	9	
66	3.00	0.41	0.54	1.13	1.32	0.32	135.23	605.	9	
67	3.00	4.08	8.89	0.00	0.00	0.00	0.000	590.	7	
68	3.00	0.00	0.00	3.08	3.72	0.32	126.79	602.	10	
69	3.00	0.49	1.07	0.00	0.00	0.00	0.000	594.	4	
70	3.00	1.52	3.30	0.00	0.00	1.65	112.91	594.	2	
71	3.00	0.00	0.00	0.37	0.45	0.32	0.000	601.	8	
72	3.00	2.77	6.00	0.00	0.00	0.65	0.000	596.	8	
73	3.00	0.00	0.00	2.47	2.98	0.98	130.38	604.	6	
74	3.00	1.15	2.46	0.00	0.00	0.00	50.113	608.	12	
75	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	8	
76	3.00	0.00	0.00	0.00	0.00	0.00	0.000	602.	15	
77	3.00	0.59	1.27	0.00	0.00	0.00	0.000	604.	2	
78	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	9	
79	3.00	1.84	3.64	1.15	1.18	0.00	23.091	591.	2	
80	3.00	2.47	5.29	0.00	0.00	0.00	132.91	606.	6	
81	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	10	
82	3.00	1.13	1.91	1.80	2.04	0.65	26.796	595.	5	
83	3.00	0.76	1.65	0.00	0.00	0.00	0.000	597.	10	
84	3.00	2.95	6.55	0.00	0.00	0.00	0.000	570.	9	
85	3.00	2.23	4.78	0.00	0.00	1.98	0.000	608.	6	
86	3.00	0.81	1.75	0.00	0.00	0.00	0.000	599.	11	
87	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	11	
88	3.00	2.47	5.27	0.13	0.00	0.00	57.160	602.	5	
89	3.00	1.83	3.97	0.00	0.00	2.32	69.177	593.	4	
90	3.00	0.76	1.65	0.00	0.00	0.00	0.000	597.	15	
91	3.00	1.16	2.51	0.00	0.00	0.98	20.853	598.	6	
92	3.00	2.49	5.24	0.47	0.28	0.00	14.490	600.	4	
93	3.00	0.00	0.00	0.13	0.16	0.00	62.204	594.	15	
94	3.00	4.18	9.05	0.00	0.00	0.00	0.000	597.	4	
95	3.00	1.72	3.29	1.47	1.57	0.00	69.492	591.	10	
96	3.00	0.86	1.84	0.00	0.00	0.98	261.23	604.	2	
97	3.00	0.41	0.89	0.00	0.00	0.00	74.066	602.	10	
98	3.00	0.61	0.98	1.05	1.19	0.00	59.162	622.	2	
99	3.00	2.08	4.49	0.00	0.00	0.32	119.55	599.	9	
100	3.00	0.74	1.61	0.00	0.00	0.65	52.522	595.	10	
101	3.00	1.03	1.23	3.29	3.85	0.00	18.520	603.	2	
102	3.00	0.89	1.82	0.32	0.28	0.00	11.550	604.	9	
103	3.00	0.00	0.00	0.00	0.00	0.00	114.64	581.	10	842#91

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
104	3.00	4.05	8.53	1.21	0.99	0.65	0.000	582.	5	824#92
105	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	8	
106	3.00	0.00	0.00	1.80	2.18	0.00	65.868	605.	6	
107	3.00	2.80	6.07	0.00	0.00	0.32	0.000	595.	6	
108	3.00	2.90	5.70	1.70	1.72	0.00	21.375	608.	5	
109	3.00	3.02	6.52	0.19	0.00	2.98	35.511	589.	8	
110	3.00	1.80	3.90	0.00	0.00	0.00	0.000	595.	7	842#98
(2 missing vials)										
113	3.00	3.33	7.33	0.00	0.00	0.00	0.000	579.	10	732 #1
114	3.00	0.00	0.00	1.13	1.37	0.00	153.36	584.	6	
115	3.00	1.68	3.67	0.00	0.00	0.00	0.000	589.	10	
116	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595	6	
117	3.00	0.00	0.00	0.16	0.20	2.65	94.029	589.	12	
118	3.00	3.75	8.00	0.60	0.29	0.00	46.392	587.	0	
119	3.00	1.13	2.47	0.00	0.00	0.00	0.000	584.	2	
120	3.00	2.07	4.57	0.00	0.00	0.00	0.000	575.	2	
121	3.00	0.00	0.00	3.52	4.25	0.00	58.451	590.	4	
122	3.00	5.48	11.02	2.79	2.73	0.65	18.553	596.	4	
123	3.00	1.06	2.31	0.00	0.00	0.32	0.000	591.	10	
124	3.00	1.05	2.27	0.00	0.00	0.00	0.000	598.	15	
125	3.00	0.38	0.18	2.13	2.54	0.32	248.09	587.	10	
126	3.00	2.46	5.09	0.78	0.66	3.98	12.756	597.	7	
127	3.00	3.52	7.61	0.00	0.00	0.00	0.000	598.	8	
128	3.00	2.11	4.58	0.00	0.00	0.00	0.000	592.	6	
129	3.00	2.33	4.81	0.96	0.89	0.32	54.320	585.	4	
130	3.00	1.99	3.79	1.89	2.05	2.32	16.250	580.	8	
131	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	9	
132	3.00	0.00	0.00	0.47	0.57	0.00	0.000	593.	7	
33	3.00	5.05	10.93	0.00	0.00	0.00	10.132	597.	9	
134	3.00	0.38	0.83	0.00	0.00	0.00	0.000	590.	13	
135	3.00	1.41	3.05	0.13	0.00	0.00	123.95	583.	9	
136	3.00	0.76	1.60	0.18	0.12	0.00	0.000	587.	6	
137	3.00	0.00	0.00	1.05	1.26	0.98	0.000	597.	8	
138	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	9	
139	3.00	0.00	0.00	1.88	2.27	0.00	261.06	588.	12	
140	3.00	2.08	4.20	1.13	1.13	3.65	143.05	584.	8	
141	3.00	2.68	5.87	0.00	0.00	0.65	0.000	584.	6	
142	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	16	
143	3.00	0.00	0.00	0.00	0.00	1.32	0.000	585.	11	
144	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	11	
145	3.00	0.61	1.34	0.00	0.00	0.00	0.000	582.	14	
146	3.00	0.37	0.56	0.81	0.94	0.00	97.542	592.	11	
147	3.00	1.36	1.90	3.47	4.03	0.00	68.904	585.	11	
148	3.00	0.14	0.00	2.49	2.99	0.00	92.341	593.	4	
149	3.00	2.45	5.32	0.00	0.00	1.32	0.000	595.	8	
150	3.00	0.11	0.00	0.90	1.07	0.55	345.48	595.	8	
151	3.00	0.00	0.00	2.33	2.81	0.00	695.45	604.	21	
152	3.00	1.53	3.27	0.07	0.00	0.00	29.452	603.	6	
153	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	13	
154	3.00	2.60	5.07	1.72	1.78	0.65	56.221	605.	2	
155	3.00	3.23	6.95	0.00	0.00	0.00	0.000	604.	4	
156	3.00	1.48	3.17	0.00	0.00	0.00	0.000	603.	12	
157	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	17	
58	3.00	4.49	9.64	0.14	0.00	0.00	26.116	602.	3	
159	3.00	0.83	1.77	0.00	0.00	0.00	0.000	609.	5	
160	3.00	0.54	1.03	0.40	0.42	0.32	117.39	604.	6	

Re-Counted With Remaind of Room Samples

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
161	3.00	0.16	0.33	0.00	0.00	0.00	0.000	605.	10	
162	3.00	3.94	8.42	0.03	0.00	0.00	20.054	609.	3	
163	3.00	2.60	4.80	2.62	2.86	0.00	32.089	603.	8	
164	3.00	5.26	11.31	0.00	0.00	0.00	14.406	604.	2	
165	3.00	6.65	14.52	0.00	0.00	0.00	0.000	587.	6	
166	3.00	3.76	7.83	1.14	0.94	0.00	0.000	593.	6	
167	3.00	1.16	2.51	0.00	0.00	0.00	0.000	599.	5	
168	3.00	3.96	8.32	0.69	0.38	0.65	17.157	602.	2	
169	3.00	2.83	6.06	0.13	0.00	0.00	27.431	599.	4	
170	3.00	3.20	5.79	3.70	4.10	1.32	63.340	601.	6	
171	3.00	4.33	8.92	1.35	1.13	0.00	65.892	603.	0	
172	3.00	3.47	7.46	0.00	0.00	0.00	89.350	603.	6	
173	3.00	3.02	6.49	0.00	0.00	0.00	3.474	606.	2	
174	3.00	5.08	10.49	1.47	1.19	0.00	31.885	603.	7	
175	3.00	0.89	1.89	0.00	0.00	0.00	71.553	613.	10	
176	3.00	2.19	4.20	2.02	2.19	0.00	12.076	576.	8	
177	3.00	0.00	0.00	0.13	0.16	0.00	0.000	603.	12	
178	3.00	0.90	1.01	3.06	3.59	0.98	90.669	604.	3	
179	3.00	0.00	0.00	0.03	0.03	0.00	0.000	609.	17	
180	3.00	0.85	1.63	0.66	0.70	0.00	3.971	604.	11	
181	3.00	0.00	0.00	0.00	0.00	0.00	0.000	601.	15	
182	3.00	0.00	0.00	0.00	0.00	0.32	0.000	588.	20	
183	3.00	1.72	3.70	0.00	0.00	0.00	0.000	600.	12	
184	3.00	0.00	0.00	0.00	0.00	0.65	0.000	608.	13	
185	3.00	0.49	1.06	0.00	0.00	0.00	0.000	600.	11	
186	3.00	0.00	0.00	2.89	3.50	0.00	105.96	587.	18	
187	3.00	2.14	4.62	0.00	0.00	0.00	0.000	599.	8	
188	3.00	1.49	3.21	0.00	0.00	0.00	0.000	605.	4	
189	3.00	0.36	0.76	0.00	0.00	0.00	0.000	604.	14	
190	3.00	0.00	0.00	0.00	0.00	0.32	0.000	604.	2	
191	3.00	0.00	0.00	1.39	1.68	0.32	0.000	605.	4	
192	3.00	1.74	3.73	0.00	0.00	0.00	0.000	605.	15	732#80

Lakeside 732, 829B, 829C, 218/MSB

Protocol #:26 Name:Decommissioning2 13-Jul-2004 10:32
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
1	10.00	6.80		10.58		7.90	69.696	578.	8	B
2	3.00	16619.9	655.84	114839.	133697.	543.05	161.92	1003	0	E
3	3.00	104743.	170749.	8221.20	0.00	3.43	19.999	1004	0	E
4	3.00	0.00	0.00	0.00	0.00	0.77	0.000	992.	17	E
(2 missing vials)										
7	3.00	0.68	1.33	0.52	0.55	0.00	0.000	577.	6	732 #1
8	3.00	0.00	0.00	0.00	0.00	1.10	0.000	586.	7	
9	3.00	1.42	3.08	0.00	0.00	2.43	0.000	593.	8	
10	3.00	0.37	0.57	0.80	0.92	1.77	0.000	586.	7	
11	3.00	2.71	5.81	0.52	0.30	1.43	27.627	578.	3	
12	3.00	2.22	4.49	1.26	1.26	0.43	63.406	580.	8	
13	3.00	2.34	5.17	0.00	0.00	0.17	0.000	577.	5	
14	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	2	
15	3.00	3.67	8.04	0.00	0.00	0.10	0.000	585.	2	
16	3.00	3.77	8.20	0.00	0.00	0.43	0.000	592.	5	
17	3.00	2.45	5.35	0.00	0.00	5.10	0.000	584.	2	
18	3.00	0.06	0.13	0.00	0.00	0.00	168.98	592.	8	
19	3.00	0.37	0.81	0.00	0.00	2.43	0.000	594.	11	
20	3.00	0.00	0.00	1.08	1.30	0.43	0.000	595.	16	
21	3.00	0.36	0.25	1.75	2.08	1.10	92.869	593.	10	
22	3.00	0.08	0.00	0.79	0.94	0.43	0.000	592.	6	
23	3.00	4.03	8.73	0.15	0.00	1.77	0.000	589.	6	
24	3.00	0.12	0.00	1.08	1.30	1.43	0.000	576.	6	
25	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	9	
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	10	
27	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	11	
28	3.00	1.42	3.12	0.00	0.00	0.10	0.000	583.	8	
29	3.00	2.16	4.79	0.00	0.00	2.10	0.000	573.	7	
30	3.00	0.00	0.00	0.47	0.57	1.77	0.000	590.	12	
31	3.00	0.63	0.86	1.66	1.93	0.21	3.086	592.	13	
32	3.00	1.12	2.47	0.00	0.00	2.08	0.000	574.	6	
33	3.00	0.00	0.00	0.08	0.10	0.00	0.000	577.	6	
34	3.00	0.00	0.00	0.00	0.00	0.77	0.000	571.	9	
35	3.00	0.66	1.44	0.00	0.00	4.10	0.000	577.	0	
36	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	18	
37	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	0	
38	3.00	1.78	3.85	0.00	0.00	0.97	0.000	595.	8	
39	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	11	
40	3.00	0.00	0.00	0.85	1.03	1.77	0.000	586.	8	
41	3.00	0.59	1.23	0.24	0.23	0.10	0.000	581.	7	
42	3.00	0.00	0.00	1.15	1.39	0.00	218.60	588.	7	
43	3.00	1.58	3.44	0.00	0.00	0.00	0.000	587.	12	
44	3.00	2.17	4.71	0.00	0.00	0.77	0.000	594.	2	
45	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	17	
46	3.00	0.00	0.00	0.00	0.00	0.00	0.000	592.	12	
47	3.00	0.12	0.25	0.00	0.00	0.00	0.000	602.	7	732 #41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	3.12	6.69	0.00	0.00	0.00	0.000	605.	5	732#42
49	3.00	0.00	0.00	0.00	0.00	0.77	0.000	597.	12	
50	3.00	0.14	0.30	0.00	0.00	0.00	0.000	601.	10	
51	3.00	0.00	0.00	0.00	0.00	3.10	0.000	601.	14	
52	3.00	0.73	1.56	0.00	0.00	0.00	0.000	607.	10	
53	3.00	1.23	2.65	0.00	0.00	1.10	0.000	602.	2	
54	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	11	
55	3.00	1.88	4.04	0.00	0.00	0.77	0.000	601.	11	
56	3.00	2.09	4.49	0.08	0.00	0.00	103.33	599.	7	
57	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	14	
58	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	10	
59	3.00	0.00	0.00	0.00	0.00	0.77	0.000	589.	10	
60	3.00	0.00	0.00	0.00	0.00	2.43	0.000	593.	18	
61	3.00	0.43	0.93	0.00	0.00	0.10	0.000	597.	10	
62	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	9	
63	3.00	2.81	5.95	0.42	0.18	0.43	0.000	599.	3	
64	3.00	0.00	0.00	0.00	0.00	0.00	0.000	596.	12	
65	3.00	0.76	1.60	0.08	0.01	0.77	214.22	605.	7	
66	3.00	0.00	0.00	0.00	0.00	1.77	0.000	596.	17	
67	3.00	0.64	1.39	0.00	0.00	0.00	0.000	600.	16	
68	3.00	1.46	2.94	0.68	0.66	0.00	29.182	604.	8	
69	3.00	0.00	0.00	0.97	1.17	0.00	0.000	609.	9	
70	3.00	0.20	0.45	0.00	0.00	1.77	0.000	546.	2	
71	3.00	3.42	7.39	0.00	0.00	0.00	0.000	600.	8	
72	3.00	1.12	2.40	0.00	0.00	0.10	0.000	604.	6	
73	3.00	2.48	5.35	0.00	0.00	0.00	0.000	600.	4	
74	3.00	1.51	3.24	0.00	0.00	2.10	0.000	607.	8	
75	3.00	0.00	0.00	0.00	0.00	2.10	0.000	589.	11	
76	3.00	2.06	4.53	0.00	0.00	0.00	0.000	581.	4	
77	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	16	
78	3.00	2.74	5.03	2.79	3.06	0.00	37.654	608.	5	
79	3.00	0.01	0.01	0.00	0.00	0.00	0.000	593.	17	
80	3.00	0.00	0.00	1.24	1.50	2.10	0.000	581.	14	
81	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	18	
82	3.00	0.00	0.00	0.00	0.00	0.00	0.000	599.	19	
83	3.00	2.07	4.36	0.41	0.26	0.10	9.567	595.	8	
84	3.00	0.66	1.42	0.00	0.00	0.00	0.000	600.	17	
85	3.00	1.70	3.15	1.75	1.92	0.00	9.694	597.	9	
86	3.00	3.48	7.49	0.00	0.00	0.00	0.000	602.	7	
87	3.00	0.00	0.00	1.81	2.19	0.10	100.26	589.	11	
88	3.00	0.81	1.42	1.08	1.22	1.10	0.000	601.	4	
89	3.00	1.12	1.90	1.64	1.85	0.10	66.838	610.	11	
90	3.00	3.63	7.31	1.54	1.44	5.10	0.000	609.	6	
91	3.00	0.00	0.00	0.00	0.00	0.43	0.000	602.	13	
92	3.00	0.00	0.00	0.00	0.00	2.10	0.000	592.	21	
93	3.00	4.19	8.50	1.68	1.54	0.00	0.000	604.	4	
94	3.00	0.00	0.00	0.00	0.00	6.43	0.000	607.	10	
95	3.00	2.28	3.89	3.42	3.86	2.10	52.860	599.	12	
96	3.00	0.00	0.00	0.00	0.00	2.10	0.000	583.	17	
97	3.00	1.67	3.63	0.00	0.00	1.10	0.000	592.	14	
98	3.00	1.58	3.51	0.00	0.00	0.77	0.000	570.	13	
99	3.00	3.78	8.19	0.42	0.06	0.77	0.000	581.	5	
100	3.00	0.00	0.00	0.00	0.00	0.00	0.000	607.	20	
101	3.00	0.93	1.99	0.00	0.00	0.77	0.000	616.	17	
102	3.00	5.42	11.78	0.11	0.00	3.43	0.000	589.	5	
103	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	36	732#97

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
104	3.00	0.78	0.97	2.36	2.76	0.00	33.400	602.	8	732 #98
105	3.00	0.00	0.00	0.08	0.10	4.10	0.000	580.	14	
06	3.00	2.42	5.26	0.00	0.00	2.10	0.000	593.	7	
07	3.00	1.45	3.17	0.00	0.00	1.10	0.000	585.	2	
108	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	4	
109	3.00	0.00	0.00	0.00	0.00	2.10	0.000	597.	21	
110	3.00	3.12	6.76	0.00	0.00	0.77	62.589	595.	5	
111	3.00	0.00	0.00	0.00	0.00	1.77	0.000	595.	10	
112	3.00	0.00	0.00	0.40	0.48	0.00	0.000	597.	21	
113	3.00	4.07	8.68	0.00	0.00	0.00	0.000	612.	4	
114	3.00	0.00	0.00	0.00	0.00	1.43	0.000	595.	23	732108
115	3.00	0.00	0.00	0.00	0.00	1.10	0.000	573.	24	732 109 Vac
116	3.00	0.00	0.00	1.24	1.50	0.00	17.971	570.	15	732 110 Vac
117	3.00	0.00	0.00	0.00	0.00	0.00	0.000	558.	12	732 Equip 1
118	3.00	0.00	0.00	0.75	0.91	1.77	0.000	583.	14	732 Equip 2
119	3.00	1.00	2.20	0.00	0.00	0.43	0.000	580.	7	732 Equip 3
(1 missing vial)										
121	3.00	0.04	0.00	1.80	2.17	2.10	6.988	587.	7	829B #1
122	3.00	1.30	1.28	5.15	6.07	0.00	49.272	584.	8	
123	3.00	1.60	3.45	0.00	0.00	2.10	0.000	605.	6	
124	3.00	0.00	0.00	0.00	0.00	0.43	0.000	590.	14	
125	3.00	0.03	0.06	0.00	0.00	0.00	0.000	593.	11	
126	3.00	1.12	1.89	1.75	1.99	2.43	0.000	595.	5	
127	3.00	0.00	0.00	0.76	0.92	2.10	124.86	592.	11	
128	3.00	0.00	0.00	0.51	0.61	0.00	0.000	579.	8	
129	3.00	0.31	0.65	0.08	0.06	0.10	0.000	599.	14	
130	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	17	
31	3.00	1.78	3.63	0.76	0.71	0.10	0.000	592.	5	
32	3.00	0.00	0.00	0.39	0.47	4.10	178.39	598.	11	
133	3.00	1.30	2.80	0.12	0.00	1.10	0.000	592.	12	
134	3.00	0.81	1.79	0.00	0.00	0.00	0.000	577.	5	
135	3.00	1.88	4.25	0.00	0.00	0.00	0.000	551.	8	
136	3.00	0.00	0.00	2.08	2.52	0.00	42.129	573.	10	
137	3.00	2.45	5.47	0.00	0.00	1.77	0.000	565.	6	
138	3.00	0.00	0.00	0.00	0.00	2.23	0.000	588.	10	
139	3.00	0.00	0.00	0.08	0.10	0.43	0.000	594.	16	
140	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	2	829B #20
(2 missing vials)										
143	3.00	0.00	0.00	0.00	0.00	0.43	0.000	582.	11	829C #1
144	3.00	0.78	1.71	0.00	0.00	1.10	0.000	588.	7	
145	3.00	5.07	10.99	0.00	0.00	0.00	0.000	595.	8	
146	3.00	0.00	0.00	0.00	0.00	0.77	0.000	578.	9	
147	3.00	0.73	1.60	0.00	0.00	0.00	0.000	581.	9	
148	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	7	
149	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	11	
150	3.00	2.55	5.62	0.00	0.00	0.00	0.000	578.	7	
151	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	14	
152	3.00	0.00	0.00	3.42	4.14	1.10	0.689	565.	11	
153	3.00	2.81	6.09	0.00	0.00	0.43	0.000	596.	4	
154	3.00	0.00	0.00	0.00	0.00	2.77	0.000	602.	2	
155	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	8	
156	3.00	0.00	0.00	0.00	0.00	2.10	0.000	573.	11	
157	3.00	0.26	0.59	0.00	0.00	0.00	0.000	564.	7	
58	3.00	2.78	5.66	2.03	2.12	0.77	41.855	550.	8	
159	3.00	0.00	0.00	1.42	1.71	1.43	0.000	574.	2	
160	3.00	3.36	7.09	1.17	1.02	3.77	5.108	572.	5	829C #18

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
161	3.00	0.00	0.00	0.59	0.71	0.00	0.000	567.	6	829C#19
162	3.00	0.00	0.00	0.00	0.00	0.00	0.000	587.	15	
163	3.00	2.98	6.60	0.00	0.00	3.77	0.000	572.	5	
164	3.00	0.39	0.84	0.08	0.05	0.10	146.12	577.	9	
165	3.00	0.48	0.31	2.42	2.87	0.00	3.286	583.	3	
166	3.00	1.25	2.75	0.00	0.00	0.00	0.000	580.	7	
167	3.00	0.00	0.00	0.00	0.00	0.10	0.000	583.	5	
168	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	14	829C#26
(2 missing vials)										
171	3.00	3.10	6.57	0.85	0.66	0.00	0.000	578.	0	218#1
172	3.00	0.00	0.00	0.00	0.00	0.00	0.000	593.	7	
173	3.00	0.26	0.28	0.92	1.08	0.00	0.000	581.	7	
174	3.00	1.50	3.25	0.00	0.00	0.00	0.000	598.	4	
175	3.00	0.54	1.18	0.00	0.00	0.00	0.000	585.	12	
176	3.00	0.00	0.00	0.00	0.00	0.00	0.000	582.	11	
177	3.00	0.00	0.00	0.00	0.00	1.77	0.000	600.	5	
178	3.00	2.12	4.60	0.00	0.00	0.00	0.000	594.	6	
179	3.00	1.43	3.12	0.00	0.00	3.77	0.000	590.	4	
180	3.00	0.00	0.00	3.80	4.59	0.10	61.261	586.	8	
181	3.00	4.51	9.10	2.08	1.99	0.77	22.978	598.	1	
182	3.00	0.00	0.00	0.42	0.50	1.77	69.748	576.	6	
183	3.00	0.42	0.91	0.00	0.00	0.10	0.000	604.	8	
184	3.00	0.73	1.59	0.00	0.00	1.10	0.000	584.	10	
185	3.00	1.67	3.01	1.89	2.09	0.77	8.740	607.	3	
186	3.00	1.18	2.60	0.00	0.00	0.00	0.000	575.	7	
187	3.00	0.70	1.53	0.00	0.00	0.00	0.000	592.	10	
188	3.00	2.04	4.44	0.00	0.00	0.00	0.000	592.	9	
189	3.00	2.43	5.29	0.00	0.00	0.10	0.000	591.	6	
190	3.00	1.64	3.57	0.00	0.00	0.43	0.000	594.	14	
191	3.00	0.78	1.72	0.00	0.00	0.10	0.000	581.	7	
192	3.00	0.00	0.00	0.00	0.00	0.77	0.000	586.	10	
193	3.00	0.41	0.89	0.00	0.00	1.10	0.000	597.	12	
194	3.00	2.76	6.03	0.00	0.00	0.00	0.000	586.	7	
195	3.00	0.00	0.00	2.10	2.53	1.10	51.518	592.	9	
196	3.00	0.00	0.00	0.00	0.00	1.10	0.000	588.	0	
197	3.00	0.00	0.00	1.09	1.32	0.43	20.240	605.	11	
198	3.00	0.81	1.62	0.42	0.41	0.00	0.000	600.	4	
199	3.00	3.13	6.76	0.07	0.00	0.00	0.000	595.	5	
200	3.00	0.12	0.00	3.42	4.12	0.77	74.295	595.	5	
201	3.00	0.00	0.00	0.00	0.00	0.00	0.000	605.	8	
202	3.00	0.00	0.00	1.09	1.31	0.00	99.144	593.	15	
203	3.00	0.00	0.00	0.00	0.00	3.10	0.000	601.	9	
204	3.00	0.45	0.98	0.00	0.00	0.77	0.000	594.	6	
205	3.00	0.00	0.00	0.75	0.91	0.43	0.000	601.	12	
206	3.00	0.12	0.04	0.75	0.89	0.10	0.000	594.	6	
207	3.00	0.08	0.14	0.10	0.11	0.00	0.000	592.	8	
208	3.00	1.27	2.78	0.00	0.00	0.00	0.000	582.	8	
209	3.00	2.82	6.11	0.00	0.00	0.10	0.000	597.	5	218#39

Lakeside Hosp.

811

Protocol #:26 Name:Decommissioning2 20-Jul-2004 11:40
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	7.49		10.49		9.95	62.398	569.	8	B	
2	3.00	16662.3	824.64	114415.	133256.	594.46	161.35	995.	0	E	
3	3.00	104587.	170689.	8262.19	0.00	1.72	19.940	1002	0	E	
4	3.00	0.00	0.00	0.00	0.00	0.00	0.000	988.	14	E	
(2 missing vials)											
7	3.00	3.25	7.28	0.00	0.00	0.00	0.000	562.	4		811 #1
8	3.00	0.00	0.00	0.00	0.00	0.39	0.000	582.	15		
9	3.00	0.00	0.00	0.94	1.14	0.00	85.751	579.	15		
10	3.00	1.42	3.26	0.00	0.00	0.00	0.000	541.	6		
11	3.00	0.53	0.83	1.11	1.28	0.05	0.000	573.	4		
12	3.00	2.48	5.41	1.18	1.12	0.00	0.000	525.	2		
13	3.00	0.00	0.00	0.59	0.72	0.39	0.000	562.	14		
14	3.00	0.00	0.00	3.81	4.61	0.00	86.532	548.	19		
15	3.00	0.00	0.00	0.00	0.00	0.00	0.000	563.	11		
16	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	17		
17	3.00	0.00	0.00	3.18	3.85	0.00	0.000	555.	10		
18	3.00	0.07	0.00	1.18	1.42	0.00	160.56	563.	7		
19	3.00	0.14	0.09	0.72	0.85	0.39	12.874	548.	10		
20	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	19		
21	3.00	0.00	0.00	1.26	1.52	0.00	0.000	582.	14		
22	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	8		
23	3.00	0.00	0.00	0.00	0.00	0.00	0.000	564.	6		
24	3.00	2.68	5.73	1.18	1.10	0.00	34.708	545.	9		
25	3.00	0.00	0.00	0.85	1.02	0.00	0.000	579.	10		
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	13		
27	3.00	0.00	0.00	0.00	0.00	0.00	0.000	547.	7		
28	3.00	0.00	0.00	0.00	0.00	0.00	0.000	548.	15		
29	3.00	0.00	0.00	0.00	0.00	0.00	0.000	563.	11		
30	3.00	2.43	4.07	4.34	4.96	0.00	0.000	569.	12		
31	3.00	1.29	2.89	0.00	0.00	0.00	0.000	559.	22		
32	3.00	0.81	1.27	1.69	1.95	0.00	79.672	563.	11		
33	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	18		
34	3.00	2.91	5.92	1.95	2.01	0.00	60.557	560.	9		
35	3.00	0.00	0.00	2.52	3.05	0.00	0.000	573.	8		
36	3.00	5.04	11.24	0.00	0.00	0.00	0.000	565.	6		
37	3.00	0.06	0.14	0.00	0.00	0.00	0.000	554.	13		
38	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	30		
39	3.00	0.28	0.61	0.00	0.00	0.00	0.000	584.	7		
40	3.00	0.00	0.00	0.51	0.62	0.00	1529.7	577.	7		
41	3.00	0.13	0.08	0.65	0.77	0.39	0.000	583.	15		
42	3.00	0.05	0.11	0.00	0.00	1.62	0.000	547.	14		
43	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	11		
44	3.00	0.00	0.00	0.00	0.00	0.00	0.000	565.	25		
45	3.00	1.65	3.70	0.00	0.00	0.00	0.000	560.	12		
46	3.00	0.73	1.56	0.18	0.13	0.00	0.000	578.	7		
47	3.00	0.00	0.00	0.00	0.00	0.00	0.000	584.	10		811 #41

1 of 3

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	0.00	0.00	0.05	0.000	561.	4	811 #48
49	3.00	3.71	7.82	0.85	0.59	0.00	0.000	590.	7	
50	3.00	2.35	5.18	0.00	0.00	0.00	0.000	576.	10	
51	3.00	0.62	1.37	0.00	0.00	0.00	0.000	576.	7	
52	3.00	2.01	4.07	1.51	1.59	0.00	0.000	554.	9	
53	3.00	1.82	3.91	0.00	0.00	0.00	0.000	605.	17	
54	3.00	1.01	2.08	0.51	0.50	0.39	64.021	575.	10	
55	3.00	0.00	0.00	0.00	0.00	0.05	0.000	599.	25	
56	3.00	0.00	0.00	0.99	1.19	0.00	0.000	572.	8	
57	3.00	0.04	0.09	0.00	0.00	0.00	0.000	567.	10	
58	3.00	0.73	1.39	0.85	0.94	0.00	35.018	552.	7	
59	3.00	0.00	0.00	0.00	0.00	0.00	0.000	553.	13	
60	3.00	1.43	3.28	0.00	0.00	0.00	0.000	539.	5	
61	3.00	0.00	0.00	0.05	0.06	0.00	0.000	562.	9	
62	3.00	0.00	0.00	0.00	0.00	0.00	0.000	512.	11	
63	3.00	1.54	3.09	0.93	0.94	0.00	0.000	588.	12	
64	3.00	1.35	2.89	0.18	0.06	0.00	0.000	585.	10	
65	3.00	0.23	0.50	0.00	0.00	0.00	0.000	571.	10	
66	3.00	0.46	0.96	0.18	0.16	0.00	0.000	568.	4	
67	3.00	0.00	0.00	2.18	2.64	0.05	245.34	577.	2	
68	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	17	
69	3.00	1.64	2.81	2.64	3.00	2.39	98.051	574.	5	
70	3.00	3.16	6.95	0.09	0.00	0.00	0.000	575.	6	
71	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	7	
72	3.00	0.00	0.00	0.17	0.21	0.00	0.000	595.	6	
73	3.00	0.00	0.00	2.19	2.65	0.00	91.687	576.	7	
74	3.00	0.00	0.00	0.96	1.16	0.00	0.000	577.	4	
75	3.00	0.79	1.18	1.85	2.14	0.00	114.23	569.	3	
76	3.00	1.73	3.91	0.00	0.00	0.72	0.000	554.	7	
77	3.00	0.07	0.15	0.00	0.00	0.00	0.000	575.	8	
78	3.00	0.00	0.00	0.00	0.00	0.00	0.000	564.	0	
79	3.00	0.00	0.00	3.18	3.84	0.00	99.951	591.	4	
80	3.00	0.00	0.00	1.18	1.43	0.00	142.23	567.	14	
81	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	9	
82	3.00	0.00	0.00	0.85	1.02	0.00	0.000	568.	2	
83	3.00	2.18	4.79	0.00	0.00	0.00	0.000	579.	4	
84	3.00	0.49	0.46	2.09	2.47	0.00	24.625	564.	7	
85	3.00	0.00	0.00	0.00	0.00	0.00	0.000	589.	10	
86	3.00	0.00	0.00	0.00	0.00	0.00	0.000	571.	11	
87	3.00	0.00	0.00	0.00	0.00	0.39	0.000	580.	12	
88	3.00	0.03	0.00	1.52	1.84	0.00	52.336	593.	8	
89	3.00	0.00	0.00	1.59	1.92	0.00	0.000	588.	2	
90	3.00	0.00	0.00	0.00	0.00	0.05	0.000	573.	9	
91	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	6	
92	3.00	0.71	1.55	0.00	0.00	0.00	0.000	595.	10	
93	3.00	0.15	0.27	0.16	0.17	0.00	0.000	595.	4	
94	3.00	0.00	0.00	0.00	0.00	0.00	0.000	575.	10	
95	3.00	1.02	2.24	0.00	0.00	0.00	0.000	588.	6	
96	3.00	0.00	0.00	0.00	0.00	1.39	0.000	574.	8	
97	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	15	
98	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	9	
99	3.00	0.76	1.61	0.18	0.13	0.00	0.000	583.	5	
100	3.00	0.12	0.27	0.00	0.00	0.00	0.000	584.	4	
101	3.00	3.96	8.77	0.00	0.00	0.00	0.000	572.	5	
102	3.00	0.00	0.00	0.00	0.00	0.00	237.94	571.	15	
103	3.00	2.99	5.89	2.28	2.41	0.00	61.137	578.	4	811 # 97

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
104	3.00	0.00	0.00	0.68	0.82	2.72	0.000	568.	6	811-98
105	3.00	0.04	0.00	2.85	3.44	1.39	0.000	568.	8	
06	3.00	0.00	0.00	0.00	0.00	0.00	0.000	512.	14	
107	3.00	0.00	0.00	2.26	2.73	0.00	218.63	581.	9	
108	3.00	0.00	0.00	0.51	0.62	0.00	0.000	499.	10	
109	3.00	0.00	0.00	5.90	7.15	0.00	39.865	563.	14	
110	3.00	1.37	3.00	0.00	0.00	0.00	0.000	586.	9	
111	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	16	
112	3.00	0.09	0.20	0.00	0.00	0.00	0.000	593.	6	
113	3.00	0.38	0.05	2.51	2.99	0.00	0.000	594.	8	
114	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	33	
115	3.00	0.68	1.51	0.00	0.00	0.00	0.000	571.	12	
116	3.00	0.00	0.00	0.86	1.03	0.00	0.000	593.	7	
117	3.00	0.04	0.09	0.00	0.00	0.00	0.000	580.	10	
118	3.00	0.76	1.64	0.00	0.00	0.00	0.000	601.	6	
119	3.00	0.00	0.00	3.13	3.79	0.00	147.31	550.	0	
120	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	24	
121	3.00	2.18	4.69	0.24	0.03	0.00	0.000	585.	15	
122	3.00	0.78	1.71	0.00	0.00	0.00	0.000	580.	10	
123	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	22	
124	3.00	3.12	6.82	0.00	0.00	0.72	0.000	588.	21	
125	3.00	0.00	0.00	2.94	3.56	2.05	40.718	579.	22	
126	3.00	1.35	3.05	0.00	0.00	0.00	0.000	548.	10	
127	3.00	0.00	0.00	0.18	0.22	0.00	0.000	571.	7	
128	3.00	0.20	0.44	0.00	0.00	0.00	0.000	566.	11	
129	3.00	3.40	7.71	0.00	0.00	0.00	0.000	549.	6	
130	3.00	0.46	0.56	1.51	1.78	0.00	0.000	555.	20	
131	3.00	0.00	0.00	1.49	1.81	0.00	58.049	543.	21	
32	3.00	3.73	7.16	4.85	5.42	0.00	33.305	522.	18	
133	3.00	5.21	10.75	3.18	3.21	0.00	29.412	554.	13	
134	3.00	1.92	4.43	0.00	0.00	0.05	0.000	535.	10	
135	3.00	0.00	0.00	1.51	1.87	0.00	0.000	403.	33	-811#129
136	3.00	0.00	112.60	2.86	18.23	0.00	0.000	9.62	9	→ E

Wrong

Wrong

↓

811 16.
Decon
No fluid
Recount
on
next
round of
Counting

Lakeside Hospital
WasteRoom ~~Stak~~ Drain Traps – Samples with Cotton Tipped Applicators

Protocol #:26 Name:Decommissioning2 20-Jul-2004 10:46
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	8.20		10.45		9.20	60.024	573.	9	B	-BG
2	3.00	16604.5	654.57	114733.	133612.	553.30	161.57	998.	0	E	Stds
3	3.00	104596.	170829.	8284.25	0.00	1.47	19.949	1001	0	E	
4	3.00	1.58	2.63	0.00	0.00	0.00	0.000	988.	31	E	
(2 missing vials)											
7	3.00	0.00	0.00	2.00	2.43	0.00	0.000	522.	13		25BOZ Trap
8	3.00	0.00	0.00	0.00	0.00	0.00	0.000	517.	13		
9	3.00	0.00	0.00	0.17	0.20	0.00	0.000	519.	8		850trap
10	3.00	0.00	0.00	3.37	4.09	0.00	284.46	517.	12		

Lakeside, 256, 311 MSB, 809, 839, 841

Protocol #:26 Name:Decommissioning2 05-Aug-2004 10:06
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	5.43		9.23		7.70	65.190	571.	11	B	
2	3.00	16594.4	668.56	114606.	133372.	538.42	162.35	1010	0	E	
3	3.00	104102.	169263.	8156.95	0.00	4.97	20.055	1009	0	E	
4	3.00	0.00	0.00	0.00	0.00	2.63	579.02	994.	42	E	
(2 missing vials)											
7	3.00	2.76	5.49	1.77	1.82	0.00	0.000	589.	9		-256 #1
8	3.00	2.04	4.38	0.00	0.00	1.63	0.000	606.	2		
9	3.00	1.99	4.27	0.00	0.00	0.97	0.000	604.	17		
10	3.00	0.13	0.18	0.30	0.35	1.43	0.000	592.	9		
11	3.00	2.76	5.55	1.33	1.28	0.63	71.368	602.	15		
12	3.00	2.10	4.68	0.00	0.00	0.30	80.550	567.	10		
13	3.00	4.80	10.33	0.00	0.00	0.00	0.000	603.	10		
14	3.00	0.00	0.00	0.00	0.00	0.00	0.000	618.	25		
15	3.00	0.00	0.00	1.18	1.42	0.00	0.000	583.	12		
16	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	16.		
17	3.00	0.00	0.00	0.00	0.00	0.00	0.000	566.	10		
18	3.00	1.35	2.78	0.47	0.41	0.63	87.327	591.	13		
19	3.00	2.31	4.95	0.00	0.00	0.00	0.000	608.	2		
20	3.00	2.49	4.74	2.44	2.65	2.63	55.203	576.	5		
21	3.00	0.00	0.00	3.77	4.55	0.00	135.91	613.	6		
22	3.00	0.17	0.00	1.98	2.37	2.63	50.333	611.	13		
23	3.00	1.16	1.77	2.38	2.74	0.00	10.250	603.	9		
24	3.00	1.16	1.73	2.65	3.07	1.30	88.063	582.	12		
25	3.00	1.07	2.09	0.77	0.81	0.63	0.000	591.	12		
26	3.00	5.72	11.67	2.85	2.77	0.97	29.695	582.	6.		
27	3.00	4.38	9.49	0.00	0.00	0.63	35.534	594.	12		
28	3.00	0.70	1.16	1.39	1.60	1.63	7.694	544.	16		
29	3.00	0.00	0.00	1.13	1.37	0.00	82.999	589.	24		
30	3.00	0.00	0.00	2.40	2.91	0.63	24.227	596.	14		
31	3.00	1.91	3.71	1.51	1.60	0.00	34.981	590.	15		
32	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	17		
33	3.00	3.62	6.96	3.27	3.53	0.00	34.762	581.	6		
34	3.00	0.93	0.98	3.44	4.05	0.00	107.84	595.	17		
35	3.00	2.09	3.38	3.75	4.29	0.00	65.927	597.	10		
36	3.00	0.00	0.00	0.00	0.00	0.00	0.000	10.8	78.	E	
37	3.00	0.79	1.71	0.00	0.00	0.00	0.000	603.	32		
38	3.00	2.63	5.09	2.26	2.42	1.97	36.374	581.	7		
39	3.00	0.76	1.06	2.10	2.46	2.63	80.771	562.	9		
40	3.00	1.02	2.13	0.46	0.44	2.97	20.963	566.	14		
41	3.00	2.64	5.44	1.21	1.15	0.00	0.000	578.	11		
42	3.00	2.43	4.91	1.10	1.05	0.00	48.470	601.	9		
43	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	14		
44	3.00	1.07	2.43	0.00	0.00	0.00	0.000	548.	13		
45	3.00	2.44	5.24	0.00	0.00	0.97	0.000	603.	14		
46	3.00	0.00	0.00	0.84	1.01	1.63	0.000	583.	15.		
47	3.00	0.00	0.00	0.00	0.00	0.97	0.000	582.	31		256 #4

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	7	256#42
49	3.00	1.29	2.79	0.00	0.00	1.97	35.727	602.	19	
50	3.00	0.00	0.00	1.49	1.81	0.00	141.71	563.	19	
51	3.00	2.04	3.94	1.97	2.14	2.63	0.000	563.	0	
52	3.00	1.45	3.02	1.09	1.14	0.00	35.214	525.	10	
53	3.00	0.07	0.16	0.00	0.00	0.00	0.000	536.	14	
54	3.00	3.28	7.31	0.00	0.00	1.97	0.000	565.	9	256#48
(6 missing vials)										
61	3.00	0.81	1.76	0.00	0.00	0.00	0.000	592.	7	311#1
62	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	17	MSB
63	3.00	2.61	5.31	1.59	1.61	0.00	0.000	570.	9	
64	3.00	1.51	1.56	5.77	6.80	0.30	75.515	578.	3	
65	3.00	5.26	11.53	0.00	0.00	2.30	0.000	582.	10	
66	3.00	2.49	5.58	0.00	0.00	0.00	102.75	559.	6	
67	3.00	1.01	2.22	0.00	0.00	2.97	0.000	575.	9	
68	3.00	1.69	3.93	0.00	0.00	0.00	0.000	525.	9	
69	3.00	0.00	0.00	0.76	0.92	0.31	97.465	562.	11	
70	3.00	0.00	0.00	0.59	0.71	0.97	0.000	571.	9	
71	3.00	2.69	4.77	3.90	4.39	0.00	34.002	570.	5	
72	3.00	3.46	7.61	0.00	0.00	0.00	29.682	581.	2	
73	3.00	1.65	2.62	3.25	3.73	1.97	84.145	586.	7	
74	3.00	2.79	6.06	0.00	0.00	0.96	0.000	594.	8	
75	3.00	1.69	2.80	2.79	3.18	0.00	76.607	602.	12	
76	3.00	2.42	5.26	0.00	0.00	0.00	0.000	592.	8	
77	3.00	4.20	9.09	0.03	0.00	0.00	0.000	597.	7	
78	3.00	3.55	6.66	3.60	3.93	2.97	68.461	585.	10	
79	3.00	4.04	8.77	0.00	0.00	1.97	74.713	595.	12	
80	3.00	4.16	8.79	1.38	1.17	1.63	58.225	572.	8	
81	3.00	0.76	1.02	2.10	2.45	2.97	63.109	595.	9	
82	3.00	0.00	0.00	2.87	3.48	1.63	175.02	578.	15	
83	3.00	1.67	3.53	0.56	0.47	0.97	0.000	575.	8	
84	3.00	5.24	10.29	3.40	3.50	0.00	28.629	599.	2	
85	3.00	0.68	1.44	0.16	0.11	1.30	0.000	585.	12	
86	3.00	1.88	3.74	1.10	1.12	0.00	90.337	594.	2	
87	3.00	7.14	15.03	1.42	0.89	0.00	22.221	596.	6	
88	3.00	2.56	5.21	1.39	1.38	0.00	27.338	579.	4	
89	3.00	0.67	1.13	1.08	1.23	4.30	47.093	597.	17	
90	3.00	2.76	6.10	0.00	0.00	0.00	0.000	577.	10	
91	3.00	0.00	0.00	0.00	0.00	0.00	0.000	600.	8	
92	3.00	1.93	3.12	3.30	3.77	0.97	66.246	613.	7	
93	3.00	0.95	2.10	0.00	0.00	0.00	0.000	575.	12	
94	3.00	1.71	2.67	3.46	3.99	3.63	103.76	592.	10	
95	3.00	3.95	8.49	0.00	0.00	0.00	7.825	605.	2	
96	3.00	4.21	8.87	0.66	0.31	0.30	14.758	602.	8	
97	3.00	0.00	0.00	0.00	0.00	1.63	0.000	600.	19	
98	3.00	3.40	6.86	1.89	1.89	0.00	51.883	584.	4	
99	3.00	0.00	0.00	0.00	0.00	1.97	0.000	575.	13	
100	3.00	4.13	8.38	1.77	1.66	0.97	12.949	598.	7	
101	3.00	1.24	2.66	0.16	0.05	0.63	13.305	585.	18	
102	3.00	0.25	0.47	0.26	0.29	0.30	0.000	569.	13	
103	3.00	4.39	8.77	2.14	2.08	1.97	60.412	608.	8	
104	3.00	2.70	5.87	0.00	0.00	0.00	0.000	592.	13	
105	3.00	0.00	0.00	0.00	0.00	0.97	0.000	571.	21	
106	3.00	1.39	2.48	1.78	1.99	0.63	71.229	592.	11	
107	3.00	0.00	0.00	0.10	0.13	1.30	0.000	529.	19	
108	3.00	0.45	0.00	4.67	5.61	0.00	31.992	549.	13	311#48 MSB

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
(2 missing vials)										
111	3.00	5.84	12.19	1.37	0.97	0.97	31.603	599.	8	
12	3.00	4.40	9.32	0.33	0.00	0.30	23.896	609.	16	
13	3.00	1.35	2.50	1.43	1.58	1.97	14.867	594.	14	
114	3.00	0.36	0.76	0.00	0.00	0.00	62.966	626.	19	
115	3.00	6.27	13.36	0.00	0.00	2.30	0.263	613.	7	
116	3.00	3.31	6.96	0.53	0.26	0.00	0.000	605.	11	
117	3.00	1.04	1.97	0.78	0.82	0.00	190.25	616.	13	
118	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	27	
119	3.00	1.67	3.64	0.00	0.00	1.30	2.155	593.	15	
120	3.00	0.90	1.65	0.89	0.97	0.63	36.084	619.	15	
121	3.00	6.72	14.45	0.42	0.00	0.00	0.000	594.	10	
122	3.00	9.74	20.77	1.10	0.20	0.00	25.428	595.	8	
123	3.00	0.00	0.00	0.00	0.00	0.00	0.000	615.	25	
124	3.00	1.62	3.42	0.00	0.00	0.63	0.000	623.	12	
125	3.00	1.74	3.74	0.00	0.00	0.00	0.000	607.	17	
126	3.00	1.51	2.99	0.75	0.73	0.30	18.379	618.	6	
127	3.00	4.63	9.70	1.07	0.76	1.30	29.099	596.	16	
128	3.00	2.31	3.75	4.09	4.68	0.00	17.613	596.	15	
129	3.00	5.91	12.69	0.43	0.00	0.00	3.950	595.	17	
130	3.00	5.13	11.13	0.10	0.00	4.97	4.862	591.	23	
131	3.00	0.00	0.00	1.12	1.36	2.30	83.484	609.	34	
132	3.00	0.88	1.66	0.77	0.83	0.00	25.605	598.	36	
133	3.00	0.00	0.00	1.04	1.26	0.00	205.00	580.	28	
134	3.00	1.93	3.59	1.88	2.05	0.63	30.585	605.	27	
135	3.00	4.65	9.31	2.30	2.24	0.30	47.735	604.	19	
136	3.00	0.00	0.00	2.87	3.47	0.00	109.92	579.	16	
137	3.00	0.74	0.56	3.44	4.07	0.30	30.600	593.	26	
38	3.00	1.60	3.45	0.00	0.00	2.63	0.000	599.	34	
139	3.00	1.49	3.22	0.00	0.00	0.00	45.074	598.	28	
140	3.00	2.65	5.75	0.00	0.00	0.00	0.000	596.	33	
141	3.00	3.04	6.56	0.00	0.00	1.63	0.000	601.	29	
142	3.00	2.96	6.32	0.10	0.00	0.00	34.171	606.	17	
143	3.00	4.14	8.30	2.59	2.64	1.63	34.177	582.	14	
144	3.00	0.39	0.00	2.98	3.56	0.00	73.433	611.	18	
145	3.00	0.00	0.00	0.00	0.00	0.63	0.000	608.	21	
146	3.00	2.70	5.23	2.17	2.31	0.63	43.848	589.	24	
147	3.00	4.36	8.61	2.32	2.30	2.30	17.373	610.	17	
148	3.00	1.01	2.19	0.00	0.00	0.00	325.87	592.	16	
149	3.00	2.85	6.19	0.00	0.00	2.30	0.000	593.	23	
150	3.00	1.87	4.02	0.12	0.00	0.00	0.000	593.	22	
151	3.00	0.00	0.00	3.61	4.36	0.00	118.79	605.	25	
152	3.00	3.96	8.76	0.00	0.00	1.30	0.000	573.	16	
153	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	36	
154	3.00	5.14	11.14	0.00	0.00	0.00	0.000	596.	23	
155	3.00	0.00	0.00	0.00	0.00	1.63	0.000	583.	45	
156	3.00	0.00	0.00	1.15	1.38	0.00	30.344	590.	36	
157	3.00	0.00	0.00	0.00	0.00	0.00	0.000	606.	43	
158	3.00	0.00	0.00	0.22	0.27	0.00	21.481	604.	42	
159	3.00	3.04	6.53	0.00	0.00	1.97	0.000	606.	32	
160	3.00	4.37	9.46	0.00	0.00	2.30	0.000	598.	31	
161	3.00	0.00	0.00	0.99	1.19	0.00	681.05	610.	48	
162	3.00	0.00	0.00	0.00	0.00	0.00	0.000	609.	28	
63	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	39	
164	3.00	0.09	0.00	3.28	3.95	1.97	48.920	615.	32	
165	3.00	0.79	1.31	1.22	1.38	0.00	38.223	624.	34	

809 #1
809
809 #5

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
166	3.00	0.00	0.00	0.10	0.13	0.97	0.000	607.	32	809#56
167	3.00	2.94	6.12	0.70	0.51	0.00	0.000	604.	33	
68	3.00	3.38	7.21	0.00	0.00	1.35	0.000	611.	28	
69	3.00	1.88	3.97	0.55	0.44	0.97	18.782	576.	31	
170	3.00	0.00	0.00	0.69	0.83	0.63	111.05	555.	41	
171	3.00	3.20	6.83	0.00	0.00	0.00	0.000	612.	28	
172	3.00	5.27	11.00	1.43	1.11	2.63	39.023	595.	16	
173	3.00	0.00	0.00	2.10	2.54	0.00	117.20	588.	32	
174	3.00	0.00	0.00	2.17	2.62	0.00	112.01	584.	32	
175	3.00	2.29	4.87	0.00	0.00	0.00	0.000	619.	19	
176	3.00	1.61	3.07	1.42	1.53	0.30	79.916	595.	18	
177	3.00	0.00	0.00	0.10	0.13	0.00	0.000	610.	51	
178	3.00	0.00	0.00	1.45	1.75	0.00	39.495	592.	35	
179	3.00	1.47	3.18	0.00	0.00	0.30	0.000	600.	11	
180	3.00	2.15	3.89	2.44	2.70	2.63	40.260	607.	22	
181	3.00	0.00	0.00	1.22	1.48	0.97	595.35	609.	18	
182	3.00	5.32	11.04	1.10	0.72	0.30	33.837	610.	13	
183	3.00	3.47	6.71	2.32	2.41	0.00	27.018	610.	26	
184	3.00	0.57	1.07	0.44	0.46	0.97	56.819	629.	22	
185	3.00	0.00	0.00	0.00	0.00	0.30	0.000	616.	38	
186	3.00	0.00	0.00	1.77	2.14	2.30	0.000	611.	40	
187	3.00	1.56	3.44	0.06	0.00	0.97	0.000	571.	24	
188	3.00	2.46	5.25	0.00	0.00	0.00	0.000	612.	43	
189	3.00	2.82	5.91	1.03	0.91	2.97	17.538	574.	26	809#79
(3 missing vials)										
193	3.00	0.00	0.00	0.45	0.54	0.97	0.000	592.	36	839#1
194	3.00	0.00	0.00	0.00	0.00	1.97	0.000	584.	29	
195	3.00	0.45	0.00	3.29	3.92	0.00	70.195	584.	30	
96	3.00	2.73	5.12	3.17	3.51	0.30	34.274	563.	22	
197	3.00	4.46	9.02	2.10	2.02	0.00	39.035	596.	32	
198	3.00	1.85	4.08	0.00	0.00	1.63	0.000	577.	37	
199	3.00	0.63	1.34	0.10	0.05	1.30	0.000	587.	45	
200	3.00	0.00	0.00	1.61	2.12	0.00	0.000	217.	32	
201	3.00	0.46	1.01	0.00	0.00	1.30	0.000	583.	41	
202	3.00	3.05	5.67	3.84	4.28	0.47	14.575	556.	27	
203	3.00	4.05	10.94	0.12	0.00	1.97	0.000	419.	26	
204	3.00	0.72	0.90	2.43	2.86	0.63	0.000	516.	28	
205	3.00	0.96	1.63	1.77	2.03	2.97	37.422	544.	42	
206	3.00	0.00	0.00	3.66	4.44	0.00	74.165	550.	45	
207	3.00	5.52	10.52	4.44	4.73	0.97	34.737	604.	28	
208	3.00	0.00	0.00	2.82	3.41	1.63	103.13	564.	35	
209	3.00	0.80	1.74	0.00	0.00	1.63	0.000	585.	47	
210	3.00	0.50	1.10	0.00	0.00	0.63	0.000	573.	47	
211	3.00	1.57	3.36	0.00	0.00	0.00	0.000	613.	53	
212	3.00	5.26	11.67	0.00	0.00	0.00	9.665	571.	35	
213	3.00	4.71	10.23	0.00	0.00	0.00	0.000	594.	38	
214	3.00	2.07	4.62	0.00	0.00	0.00	0.000	568.	44	
215	3.00	0.00	0.00	3.11	3.76	0.00	35.613	592.	42	
216	3.00	3.90	8.73	0.00	0.00	0.97	0.000	563.	39	
217	3.00	0.32	0.71	0.00	0.00	0.30	0.000	585.	47	
218	3.00	2.37	5.27	0.42	0.21	0.30	53.011	545.	29	
219	3.00	1.60	3.70	0.00	0.00	0.63	0.000	535.	45	
220	3.00	1.05	2.15	0.60	0.60	0.00	29.566	569.	36	
21	3.00	0.72	1.61	0.00	0.00	0.00	0.000	564.	37	
222	3.00	0.00	0.00	1.87	2.27	0.00	0.000	578.	44	
223	3.00	0.00	0.00	0.16	0.20	1.97	0.000	585.	53	839#31

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
224	3.00	0.00	0.00	1.46	1.76	1.97	0.000	591.	45	839#32
225	3.00	0.08	0.00	0.82	0.99	0.97	0.000	564.	48	
226	3.00	0.00	0.00	0.00	0.00	1.97	0.000	582.	59	
227	3.00	0.00	0.00	3.37	4.09	0.30	19.636	521.	38	
228	3.00	0.00	0.00	3.77	4.57	0.30	40.191	558.	40	
229	3.00	0.68	1.51	0.00	0.00	2.30	13.514	578.	44	
230	3.00	3.04	6.28	1.77	1.78	1.30	0.446	560.	26	
231	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	45	
232	3.00	0.00	0.00	0.00	0.00	0.00	0.000	564.	42	
233	3.00	2.77	6.03	0.00	0.00	0.00	0.000	590.	26	
234	3.00	0.85	1.80	0.77	0.83	0.00	0.000	492.	37	
235	3.00	3.71	8.62	3.44	3.74	1.63	25.384	428.	24	
236	3.00	1.25	3.35	0.12	0.00	0.00	31.574	419.	34	
237	3.00	0.16	0.37	0.00	0.00	0.00	0.000	540.	52	
238	3.00	1.79	2.64	4.77	5.57	1.30	31.250	523.	21	
239	3.00	0.85	1.47	1.44	1.64	0.00	118.82	547.	4	
240	3.00	2.65	5.77	1.19	1.11	0.00	4.092	528.	11	839#48 (48)
(2 missing vials)										
243	3.00	2.64	5.51	2.01	2.11	0.30	0.000	523.	20	841#1
244	3.00	0.00	0.00	2.17	2.63	0.63	0.000	531.	29	
245	3.00	2.90	6.59	0.00	0.00	1.97	0.000	548.	23	
246	3.00	0.22	0.00	1.59	1.90	2.30	0.000	570.	13	
247	3.00	0.56	1.10	0.78	0.88	0.00	0.000	488.	21	
248	3.00	1.55	2.89	1.98	2.21	0.00	27.515	551.	25	
249	3.00	0.13	0.00	3.19	3.87	4.63	91.744	477.	21	
250	3.00	3.06	6.54	1.89	1.92	0.00	37.053	522.	21	
251	3.00	0.00	0.00	2.02	2.45	1.30	20.982	504.	34	
252	3.00	6.02	12.51	3.74	3.79	0.00	40.754	547.	12	
53	3.00	0.00	0.00	2.55	3.09	4.91	13.650	534.	16	
254	3.00	3.43	7.71	0.00	0.00	0.00	0.000	559.	17	
255	3.00	1.75	3.68	0.64	0.57	0.00	0.000	573.	18	
256	3.00	0.00	0.00	5.08	6.15	0.00	86.411	569.	10	
257	3.00	1.63	3.15	1.44	1.55	0.63	21.728	576.	17	
258	3.00	0.00	0.00	0.44	0.53	0.00	0.000	586.	23	
259	3.00	3.63	7.47	0.99	0.77	0.30	36.489	610.	4	
260	3.00	1.22	2.06	2.15	2.45	0.00	116.28	564.	18	
261	3.00	1.52	3.19	0.44	0.35	0.00	0.000	583.	23	
262	3.00	0.00	0.00	0.00	0.00	0.97	0.000	570.	27	
263	3.00	4.09	8.84	0.53	0.16	1.30	19.177	579.	4	
264	3.00	0.00	0.00	3.77	4.57	3.97	42.154	544.	18	
265	3.00	1.00	1.32	2.98	3.48	0.30	28.739	562.	20	
266	3.00	0.00	0.00	0.00	0.00	1.97	0.000	585.	24	
267	3.00	0.15	0.08	0.83	0.98	2.30	0.000	585.	23	
268	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	23	
269	3.00	0.62	1.40	0.00	0.00	2.97	0.000	559.	20	
270	3.00	2.50	5.09	1.17	1.12	1.30	96.033	590.	19	
271	3.00	0.00	0.00	1.31	1.59	3.30	0.000	561.	16	
272	3.00	1.60	3.02	1.44	1.55	1.63	0.000	598.	18	
273	3.00	5.54	12.11	0.00	0.00	0.63	0.000	587.	21	
274	3.00	2.85	6.22	0.00	0.00	0.00	0.000	587.	23	
275	3.00	0.60	1.27	0.10	0.06	1.63	0.000	588.	21	
276	3.00	5.00	10.81	0.09	0.00	0.00	8.057	596.	28	
277	3.00	4.53	8.90	3.14	3.27	0.00	27.062	591.	16	
78	3.00	1.43	3.16	0.10	0.00	0.00	0.000	567.	28	
279	3.00	0.00	0.00	0.00	0.00	0.00	0.000	568.	30	
280	3.00	0.00	0.00	0.00	0.00	0.63	0.000	563.	42	841 #38

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
281	3.00	3.90	8.51	0.00	0.00	0.97	0.000	589.	31	841#51
282	3.00	2.66	6.02	0.00	0.00	0.63	0.000	551.	20	
283	3.00	3.35	7.23	0.00	0.00	0.00	69.594	599.	14	
284	3.00	2.86	6.01	1.35	1.28	0.30	60.163	556.	9	
285	3.00	2.54	4.85	3.17	3.52	3.97	47.118	532.	16	
286	3.00	0.68	0.86	2.10	2.46	0.00	29.921	578.	29	
287	3.00	4.11	8.53	1.79	1.67	2.63	5.504	576.	22	
288	3.00	1.30	2.87	0.00	0.00	0.00	73.055	572.	28	
289	3.00	3.32	7.54	0.00	0.00	0.00	0.000	548.	16	
290	3.00	2.78	6.55	0.00	0.00	0.97	0.000	517.	28	
291	3.00	0.32	0.00	2.61	3.12	0.97	1.082	567.	24	
292	3.00	0.65	1.45	0.00	0.00	0.63	0.000	561.	13	
293	3.00	2.14	4.84	0.06	0.00	0.00	6.360	549.	10	
294	3.00	0.17	0.00	2.82	3.39	0.63	30.636	564.	21	
295	3.00	0.78	1.34	1.28	1.46	1.30	58.009	566.	18	
296	3.00	4.38	9.75	0.00	0.00	0.00	9.371	567.	12	841#54
(3 missing vials)										
300	3.00	0.01	0.00	0.11	0.13	1.77	0.000	572.	7	

FRONT PIN JAM FWD

7 – Vacuum Pump, MSB Basement, Water Outlet Vacuum side.

Vacuum outlet decontamination

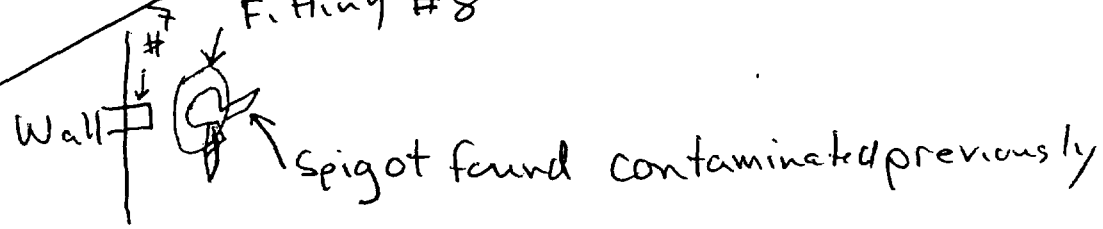
Protocol #:26 Name:Decommissioning2 12-Aug-2004 09:48
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
1	10.00	10.03		9.01		9.18	43.166	570.	16	B
2	3.00	16637.7	684.85	114840.	133694.	532.41	162.17	1003	0	E
3	3.00	104066.	169332.	8284.90	0.00	2.15	20.069	1007	0	E
4	3.00	0.00	0.00	0.99	1.17	0.00	0.000	994.	46	E
(2 missing vials)										
7	3.00	1.17	0.00	18.99	23.01	0.00	64.343	476.	4	MSB
8	3.00	12.56	0.16	87.66	108.45	0.00	51.721	316.	1	MSB
9	3.00	0.00	0.00	5.63	7.18	0.00	91.593	272.	14	
10	3.00	281.18	779.00	33.31	4.50	0.00	12.130	399.	1	
11	3.00	253.35	677.64	34.92	10.21	0.00	12.723	416.	2	

MSB

7 Vacuum 302 Inside Pipe going into Wall
Point 79

8 Vacuum 302 Outside Fitting removed and
Point 79
disposed of as radioactive waste



9 1SB10 Floor Drain

10 Water from Left freezer compartment, 1SB10A

11 Water from Right freezer compartment, 1SB10A
(Animal storage freezer)

Lakeside ISB 10A, 811 Decon, MSB 237D No Fluid Re-count

Protocol #:26 Name:Decommissioning2 12-Aug-2004 10:31
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
gion C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
me = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	6.11		10.85		8.30	53.046	577.	33	B	
2	3.00	16628.0	670.93	114830.	133713.	581.05	162.14	1000	0	E	
3	3.00	104063.	169588.	8493.09	0.00	1.03	20.113	1004	0	E	
4	3.00	0.00	0.00	0.00	0.00	0.37	0.000	990.	44	E	
(2 missing vials)											
7	3.00	0.14	0.00	2.71	3.26	0.00	211.30	550.	11		ISB 10A #1
8	3.00	3.78	8.36	0.00	0.00	1.03	0.000	575.	7		
9	3.00	4.41	9.81	0.00	0.00	0.00	127.74	569.	9		
10	3.00	2.96	6.58	0.00	0.00	0.00	0.000	570.	8		
11	3.00	2.12	4.13	2.15	2.34	0.00	180.40	549.	6		
12	3.00	0.42	0.96	0.00	0.00	0.00	0.000	549.	11		
13	3.00	0.00	0.00	1.76	2.13	0.00	0.000	541.	12		
14	3.00	0.49	1.13	0.00	0.00	0.70	0.000	540.	5		
15	3.00	0.00	0.00	0.00	0.00	0.00	0.000	519.	11		
16	3.00	3.15	6.74	1.47	1.39	0.37	0.000	542.	5	•	
17	3.00	1.14	2.68	0.00	0.00	0.00	0.000	520.	8		
18	3.00	1.78	4.09	0.00	0.00	0.00	0.000	538.	9		
19	3.00	2.67	6.13	0.00	0.00	3.70	0.000	537.	11		
20	3.00	3.44	7.80	0.00	0.00	0.03	0.000	548.	10		
21	3.00	1.78	3.99	0.00	0.00	1.03	0.000	562.	8		
22	3.00	0.00	0.00	2.03	2.46	0.00	347.87	551.	20		
23	3.00	6.00	13.80	1.48	1.04	1.03	7.235	507.	11		
24	3.00	3.13	6.69	1.49	1.42	0.00	40.462	541.	5		
25	3.00	0.00	0.00	0.00	0.00	0.00	0.000	542.	12		
26	3.00	2.73	6.15	0.00	0.00	0.00	0.000	554.	12	•	
27	3.00	5.02	10.57	2.00	1.81	0.70	109.02	565.	1		
28	3.00	1.92	3.78	1.67	1.79	0.00	0.000	563.	7		
29	3.00	0.38	0.69	0.55	0.61	0.37	0.000	563.	7		
30	3.00	2.49	5.66	0.00	0.00	0.17	0.000	548.	8		
31	3.00	0.75	1.24	1.48	1.70	0.00	970.06	551.	9		
32	3.00	0.00	0.00	0.00	0.00	2.37	0.000	548.	24		
33	3.00	0.78	1.75	0.00	0.00	0.00	0.000	563.	8		
34	3.00	0.85	1.98	0.00	0.00	2.37	0.000	527.	13		
35	3.00	2.78	6.32	0.48	0.23	0.00	94.121	526.	7		
36	3.00	2.50	5.72	0.00	0.00	0.70	0.000	543.	4	•	
37	3.00	1.04	2.12	0.86	0.91	1.03	103.28	534.	9		
38	3.00	0.00	0.00	0.00	0.00	0.00	0.000	562.	19		
39	3.00	1.35	2.97	0.00	0.00	0.03	0.000	578.	8		
40	3.00	0.00	0.00	0.97	1.18	1.70	0.000	569.	6		
41	3.00	2.89	6.44	0.00	0.00	0.00	0.000	567.	11		
42	3.00	2.16	4.90	0.00	0.00	0.00	0.000	550.	13		
43	3.00	0.83	1.95	0.00	0.00	0.37	0.000	519.	17		
44	3.00	3.39	7.69	0.00	0.00	0.00	6724.4	550.	10		
45	3.00	1.08	2.48	0.07	0.00	5.37	0.000	528.	14		
46	3.00	1.45	3.22	0.00	0.00	1.67	0.000	569.	8	•	
47	3.00	2.56	5.67	0.00	0.00	0.00	0.000	570.	13		ISB 10A #41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.00	0.00	0.00	0.00	0.00	0.000	565.	19	ISB10A#47
49	3.00	2.20	4.71	0.67	0.55	3.37	41.821	564.	10	
50	3.00	5.14	10.52	3.15	3.19	0.00	89.333	563.	4	
51	3.00	1.67	3.73	0.00	0.00	0.03	0.000	564.	15	
52	3.00	2.22	4.94	0.00	0.00	0.00	0.000	566.	12	
53	3.00	1.93	3.22	3.25	3.71	0.00	50.218	585.	10	
54	3.00	0.00	0.00	0.00	0.00	0.70	0.000	587.	15	
55	3.00	3.48	7.77	0.00	0.00	0.00	0.000	563.	5	
56	3.00	1.53	2.99	1.35	1.45	1.37	273.10	562.	10	
57	3.00	0.97	1.55	1.88	2.16	0.00	434.39	584.	11	
58	3.00	0.37	0.80	0.00	0.00	0.00	0.000	579.	17	
59	3.00	3.57	7.85	0.00	0.00	4.03	219.14	582.	10	
60	3.00	0.00	0.00	2.52	3.04	0.00	0.000	588.	18	
61	3.00	0.48	1.08	0.00	0.00	2.37	0.000	555.	12	
62	3.00	2.03	3.80	2.15	2.36	0.00	178.61	582.	11	
63	3.00	0.00	0.00	0.00	0.00	0.00	0.000	571.	17	
64	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	17	
65	3.00	4.28	9.16	0.93	0.62	0.37	0.000	575.	9	
66	3.00	0.00	0.00	0.15	0.18	0.70	0.000	587.	13	
67	3.00	3.68	8.18	0.00	0.00	0.00	0.000	569.	4	
68	3.00	1.43	3.16	0.00	0.00	0.00	0.000	575.	8	
69	3.00	0.00	0.00	0.00	0.00	2.37	0.000	575.	12	
70	3.00	3.75	7.51	2.48	2.55	0.00	142.65	578.	7	
71	3.00	0.53	1.19	0.00	0.00	0.03	0.000	563.	13	
72	3.00	4.21	9.44	0.00	0.00	1.37	156.52	561.	8	
73	3.00	0.00	0.00	0.00	0.00	0.70	0.000	586.	15	
74	3.00	1.25	1.75	3.28	3.81	0.00	286.57	583.	16	
75	3.00	4.30	9.46	0.00	0.00	0.00	0.000	579.	11	
76	3.00	3.07	6.52	0.50	0.25	0.03	353.02	591.	8	
77	3.00	2.04	4.51	0.00	0.00	0.70	0.000	574.	10	
78	3.00	1.68	3.63	0.00	0.00	3.03	0.000	599.	17	
79	3.00	0.37	0.80	0.00	0.00	0.00	0.000	584.	13	
80	3.00	0.33	0.71	0.00	0.00	0.37	0.000	593.	15	
81	3.00	0.00	0.00	0.00	0.00	1.03	0.000	585.	7	
82	3.00	0.00	0.00	2.81	3.40	0.00	0.000	604.	17	
83	3.00	0.54	1.19	0.00	0.00	0.03	0.000	587.	20	
84	3.00	2.50	5.34	0.81	0.68	0.70	68.107	564.	3	
85	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	14	
86	3.00	1.47	3.22	0.00	0.00	1.03	0.000	584.	2	
87	3.00	0.22	0.49	0.00	0.00	0.00	0.000	589.	20	
88	3.00	0.00	0.00	0.00	0.00	0.70	0.000	594.	18	
89	3.00	0.62	1.35	0.00	0.00	3.37	0.000	583.	21	
90	3.00	0.00	0.00	0.00	0.00	0.00	0.000	588.	19	
91	3.00	0.00	0.00	0.48	0.58	0.70	0.000	567.	11	
92	3.00	0.00	0.00	0.00	0.00	0.00	0.000	590.	23	
93	3.00	3.14	6.80	0.00	0.00	1.03	0.000	598.	7	
94	3.00	5.33	11.30	2.02	1.80	0.03	30.332	562.	1	
95	3.00	1.98	3.95	1.15	1.15	0.00	167.20	591.	14	
96	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	14	
97	3.00	2.63	5.77	0.00	0.00	0.00	0.000	582.	8	
98	3.00	1.06	2.29	0.00	0.00	0.03	0.000	601.	12	
99	3.00	0.00	0.00	0.00	0.00	0.00	0.000	595.	37	
100	3.00	1.98	4.32	0.00	0.00	0.00	0.000	586.	16	
101	3.00	1.28	2.82	0.00	0.00	0.00	0.000	576.	17	
102	3.00	0.00	0.00	2.59	3.13	0.37	262.17	585.	21	
103	3.00	0.32	0.71	0.00	0.00	0.00	0.000	559.	10	ISB10A987

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
104	3.00	0.00	0.00	0.00	0.00	2.70	0.000	569.	19	ISB10A#98
105	3.00	1.29	2.26	1.89	2.14	0.70	111.75	572.	11	K
06	3.00	0.00	0.00	0.00	0.00	4.37	0.000	579.	18	•
07	3.00	1.21	2.66	0.00	0.00	0.03	0.000	577.	10	
108	3.00	0.23	0.49	0.00	0.00	0.00	0.000	591.	21	
109	3.00	0.00	0.00	0.00	0.00	0.00	0.000	586.	22	
110	3.00	0.06	0.00	0.48	0.57	0.00	0.000	588.	11	
111	3.00	0.00	0.00	0.00	0.00	1.37	0.000	592.	24	
112	3.00	0.00	0.00	1.51	1.83	0.37	0.000	589.	13	
113	3.00	2.17	4.70	0.00	0.00	0.00	0.000	596.	4	
114	3.00	1.61	3.62	0.00	0.00	2.03	0.000	554.	13	
115	3.00	0.34	0.75	0.00	0.00	3.03	0.000	581.	11	K
116	3.00	0.17	0.38	0.00	0.00	0.03	0.000	581.	4	•
117	3.00	0.00	0.00	0.00	0.00	0.00	0.000	598.	19	
118	3.00	1.73	3.16	2.15	2.39	0.00	57.272	572.	9	
119	3.00	1.49	2.98	0.83	0.83	0.00	0.000	591.	4	
120	3.00	0.00	0.00	0.00	0.00	0.00	0.000	580.	5	ISB10A #114 #115
(2 missing vials)										Resurvey
123	3.00	1.34	2.43	2.53	2.92	3.03	104.54	481.	9	ISB10A 19 ↓
124	3.00	0.00	0.00	0.00	0.00	2.37	0.000	530.	14	20
125	3.00	3.51	8.36	0.00	0.00	2.70	0.000	507.	16	21
126	3.00	0.78	1.66	0.48	0.48	3.70	0.000	530.	7	34
127	3.00	1.53	2.82	2.48	2.82	0.00	22.629	510.	2	-35
128	3.00	1.48	3.56	0.00	0.00	0.00	0.000	498.	6	-36
129	3.00	2.10	5.00	0.00	0.00	0.37	0.000	508.	9	-37
130	3.00	0.00	0.00	0.00	0.00	2.37	0.000	564.	11	-38
131	3.00	2.81	6.36	0.00	0.00	0.70	0.000	552.	6	-39
(3 missing vials)										
35	3.00	0.00	0.00	0.00	0.00	0.70	0.000	596.	20	-811 #16 Dec
136	3.00	1.09	2.35	0.20	0.11	0.00	601.89	574.	23	-2370 #47 (No Fluid 1st count)

Re-survey of area after defrosting animal freezer and transferring water from ICE, which was contaminated with H-3.

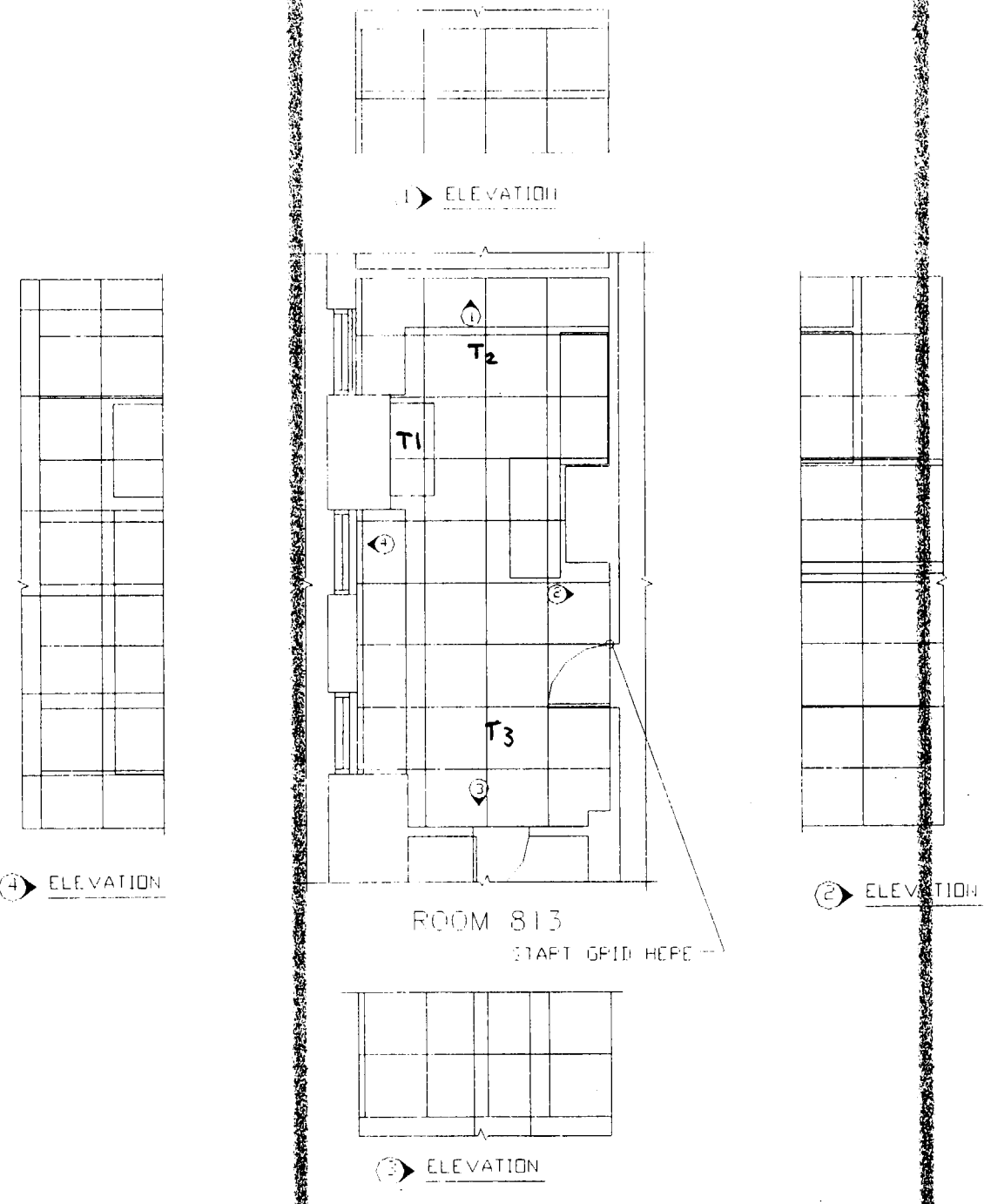
Lakeside - 1SB10B, 1SB10A (Recount after Decon), 1SB16

Protocol #:26 Name:Decommissioning2 19-Aug-2004 09:42
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG	
1	10.00	8.67		9.80		9.40	54.372	576.	9	B	
2	3.00	16507.9	421.67	115051.	133957.	555.25	162.63	1003	0	E	
3	3.00	103875.	169332.	8374.45	0.00	0.93	20.092	1004	0	E	
4	3.00	0.00	0.00	0.00	0.00	1.27	0.000	991.	16	E	
(2 missing vials)											
7	3.00	0.00	0.00	0.20	0.24	0.00	0.000	596.	8		1SB10B 1
8	3.00	0.00	0.00	0.00	0.00	2.93	0.000	588.	11		
9	3.00	0.00	0.00	1.53	1.85	0.00	173.04	582.	7		
10	3.00	0.00	0.00	0.87	1.05	0.00	355.88	587.	4		
11	3.00	0.00	0.00	0.53	0.64	0.00	286.56	580.	6		
12	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	7		
13	3.00	0.00	0.00	2.13	2.57	0.00	183.07	608.	4		
14	3.00	0.53	1.17	0.00	0.00	0.00	0.000	582.	4		
15	3.00	0.25	0.59	0.00	0.00	0.27	0.000	522.	6		
16	3.00	0.19	0.42	0.00	0.00	0.00	0.000	587.	4		
17	3.00	3.03	6.64	0.00	0.00	0.00	41.713	583.	2		
18	3.00	0.00	0.00	0.87	1.05	0.00	0.000	550.	6		
19	3.00	0.00	0.00	3.13	3.79	0.27	138.11	573.	7		
20	3.00	0.00	0.00	0.00	0.00	0.27	0.000	558.	5		
21	3.00	0.00	0.00	0.00	0.00	0.00	0.000	583.	12		
22	3.00	0.00	0.00	1.77	2.14	0.00	94.762	549.	4		
23	3.00	0.31	0.24	1.39	1.65	3.07	56.928	584.	2		
24	3.00	1.18	2.30	0.96	1.03	0.00	161.41	578.	3		
25	3.00	0.00	0.00	0.25	0.30	0.00	0.000	591.	9		
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	585.	8		
27	3.00	0.00	0.00	0.00	0.00	2.93	0.000	562.	10		
28	3.00	0.00	0.00	1.53	1.86	0.00	0.000	562.	13		
29	3.00	0.00	0.00	1.70	2.06	0.00	661.21	548.	4		
30	3.00	0.00	0.00	0.00	0.00	0.00	0.000	558.	10		
31	3.00	0.00	0.00	0.00	0.00	0.00	0.000	574.	10		
32	3.00	0.00	0.00	3.21	3.89	0.00	127.95	576.	7		
33	3.00	0.58	1.28	0.00	0.00	0.00	251.52	582.	5		
34	3.00	1.15	2.34	0.60	0.60	0.00	52.375	583.	7		
35	3.00	0.00	0.00	2.21	2.67	0.93	0.000	592.	8		
36	3.00	0.00	0.00	2.86	3.46	0.27	102.99	594.	13		
37	3.00	0.00	0.00	0.33	0.40	0.00	0.000	573.	9		
38	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	10		
39	3.00	1.92	4.16	0.00	0.00	0.00	0.000	592.	4		
40	3.00	0.00	0.00	0.00	0.00	0.00	0.000	604.	9		
41	3.00	1.40	2.43	2.03	2.29	0.00	7.954	585.	6		
42	3.00	0.00	0.00	0.00	0.00	0.00	0.000	569.	12		
43	3.00	0.00	0.00	4.83	5.83	0.60	315.19	600.	4		
44	3.00	0.00	0.00	0.00	0.00	1.93	0.000	539.	8		
45	3.00	0.00	0.00	0.11	0.13	0.00	0.000	557.	10		
46	3.00	0.00	0.00	1.13	1.37	0.60	388.29	597.	7		
47	3.00	0.00	0.00	0.00	0.00	0.00	0.000	594.	9		1SB10B41

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
48	3.00	0.24	0.00	3.55	4.27	0.00	89.013	540.	5	ISB10B42
49	3.00	0.75	1.74	0.00	0.00	0.00	0.000	522.	6	
50	3.00	0.00	0.00	0.86	1.04	0.00	0.000	543.	11	
51	3.00	0.00	0.00	1.63	1.97	0.00	0.000	578.	8	ISB10B45
(1 missing vial)										
53	3.00	0.00	0.00	2.17	2.62	0.00	98.978	596.	5	ISB10A #35/3
54	3.00	0.00	0.00	0.00	0.00	0.00	0.000	581.	9	ISB10A #3[illegible] Inside Compactor
(6 missing vials)										
61	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	6	ISB16 #1
62	3.00	0.00	0.00	0.00	0.00	0.93	0.000	563.	8	
63	3.00	0.00	0.00	0.00	0.00	0.00	0.000	538.	10	
64	3.00	0.00	0.00	0.94	1.15	0.00	0.000	510.	2	
65	3.00	0.00	0.00	0.00	0.00	0.00	0.000	487.	7	
66	3.00	0.00	0.00	1.41	1.71	0.00	0.000	516.	17	
67	3.00	2.08	4.69	0.09	0.00	0.00	0.000	550.	2	
68	3.00	1.67	3.65	0.50	0.40	0.00	0.000	544.	2	
69	3.00	1.89	4.09	0.53	0.41	0.27	39.002	556.	6	
70	3.00	0.00	0.00	0.87	1.05	0.60	0.000	528.	6	
71	3.00	0.00	0.00	0.00	0.00	0.00	0.000	559.	2	
72	3.00	0.00	0.00	0.00	0.00	0.93	0.000	515.	7	
73	3.00	0.00	0.00	2.82	3.43	0.00	20.236	497.	5	
74	3.00	0.00	0.00	2.53	3.07	0.00	0.000	535.	12	
75	3.00	0.00	0.00	1.53	1.86	0.00	0.000	504.	7	
76	3.00	0.92	2.11	0.00	0.00	0.00	0.000	537.	2	
77	3.00	0.56	1.30	0.00	0.00	0.00	0.000	523.	9	
78	3.00	0.00	0.00	0.00	0.00	1.93	0.000	533.	7	
79	3.00	0.00	0.00	0.00	0.00	0.00	0.000	515.	10	X
80	3.00	0.00	0.00	2.20	2.68	0.00	222.08	494.	4	
81	3.00	0.00	0.00	0.00	0.00	0.00	0.000	544.	7	
82	3.00	0.00	0.00	1.55	1.88	0.00	0.000	506.	6	
83	3.00	0.00	0.00	0.00	0.00	1.27	0.000	539.	7	
84	3.00	0.41	0.92	0.00	0.00	4.27	0.000	547.	0	
85	3.00	0.00	0.00	0.00	0.00	0.00	0.000	503.	8	
86	3.00	0.00	0.00	0.20	0.24	0.00	0.000	523.	9	
87	3.00	0.00	0.00	0.53	0.64	0.00	0.000	581.	15	
88	3.00	0.00	0.00	3.03	3.67	0.00	594.37	568.	4	
89	3.00	0.00	0.00	0.00	0.00	0.00	0.000	597.	6	X
90	3.00	0.00	0.00	0.00	0.00	0.00	0.000	591.	15	
91	3.00	0.00	0.00	1.14	1.38	0.00	312.88	598.	5	
92	3.00	0.00	0.00	4.20	5.08	0.27	227.84	594.	7	
93	3.00	0.00	0.00	0.20	0.24	0.00	0.000	601.	21	
94	3.00	0.00	0.00	0.53	0.64	0.00	419.97	606.	2	
95	3.00	0.00	0.00	0.00	0.00	0.00	0.000	603.	7	
96	3.00	0.00	0.00	0.00	0.00	0.00	0.000	608.	7	
97	3.00	0.00	0.00	0.00	0.00	0.00	1204.7	575.	11	
98	3.00	0.89	1.95	0.00	0.00	0.00	0.000	588.	2	
99	3.00	0.00	0.00	0.87	1.05	0.60	0.000	565.	2	X
100	3.00	0.00	0.00	2.19	2.64	0.00	106.13	577.	2	
101	3.00	0.00	0.00	0.00	0.00	0.00	128.38	579.	11	
102	3.00	1.10	2.41	0.00	0.00	0.27	0.000	580.	4	
103	3.00	0.00	0.00	0.85	1.02	0.00	0.000	595.	13	
104	3.00	0.00	0.00	0.00	0.00	0.00	0.000	579.	2	
105	3.00	0.00	0.00	1.53	1.85	0.60	82.025	569.	5	
106	3.00	0.00	0.00	0.53	0.65	0.00	0.000	556.	8	
107	3.00	0.00	0.00	2.10	2.54	1.93	0.000	558.	7	
108	3.00	0.00	0.00	0.98	1.19	0.00	0.000	576.	7	ISB16 #48

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
109	3.00	0.00	0.00	0.00	0.00	0.00	0.000	577.	11	SBIG #3
110	3.00	0.00	0.00	0.00	0.00	0.00	0.000	560.	14	
111	3.00	1.15	1.82	2.27	2.61	0.00	92.945	582.	6	
112	3.00	0.00	0.00	0.00	0.00	0.00	0.000	570.	7	
113	3.00	0.00	0.00	0.00	0.00	0.00	0.000	573.	10	
114	3.00	0.00	0.00	3.06	3.70	0.60	0.000	564.	6	
115	3.00	0.00	0.00	1.81	2.19	0.00	0.000	570.	15	
116	3.00	0.00	0.00	1.87	2.26	0.60	281.11	555.	4	
117	3.00	0.00	0.00	0.69	0.83	0.00	0.000	569.	6	
118	3.00	0.00	0.00	0.53	0.65	0.00	0.000	557.	7	
119	3.00	0.22	0.00	2.20	2.64	0.00	65.366	568.	6	X
120	3.00	0.00	0.00	0.87	1.05	0.00	0.000	585.	6	
121	3.00	0.00	0.00	0.00	0.00	0.00	0.000	571.	9	
122	3.00	0.00	0.00	0.00	0.00	1.93	0.000	596.	10	
123	3.00	0.00	0.00	0.00	0.00	0.00	0.000	576.	10	
124	3.00	0.00	0.00	0.00	0.00	0.00	0.000	567.	7	
125	3.00	0.00	0.00	2.87	3.47	0.00	0.000	591.	7	
126	3.00	0.00	0.00	1.53	1.85	0.93	0.000	592.	11	
127	3.00	0.00	0.00	1.87	2.26	0.00	0.000	540.	11	
128	3.00	0.00	0.00	0.87	1.05	0.00	0.000	527.	10	
129	3.00	0.00	0.00	0.15	0.19	0.00	0.000	497.	17	XX
130	3.00	0.41	0.95	0.00	0.00	0.00	0.000	527.	11	
131	3.00	0.00	0.00	1.69	2.06	0.00	0.000	516.	4	
132	3.00	0.00	0.00	0.00	0.00	0.00	0.000	564.	14	
133	3.00	0.00	0.00	0.15	0.18	0.00	0.000	497.	13	
134	3.00	1.27	2.90	0.00	0.00	0.62	79.621	545.	6	
135	3.00	0.00	0.00	0.00	0.00	0.00	0.000	449.	10	
136	3.00	0.00	0.00	1.06	1.29	0.00	80.005	549.	15	
137	3.00	0.00	0.00	1.18	1.43	0.00	286.49	545.	7	
138	3.00	0.34	0.21	1.80	2.14	0.00	26.044	552.	3	
139	3.00	0.00	0.00	0.42	0.51	0.00	0.000	507.	18	
140	3.00	0.00	0.00	5.48	6.68	0.00	80.466	468.	5	
141	3.00	0.00	0.00	0.00	0.00	0.00	0.000	572.	11	SBIG #8



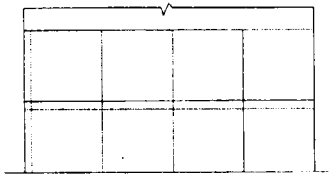
Tritrum Readings

T_1: Sink (Stainless) -323

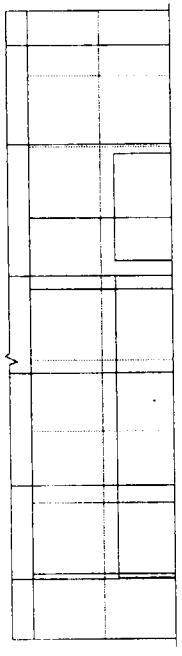
T_2: Floor (Vinyl Tile) - 380

T_3: Bench Top (Stone) -246

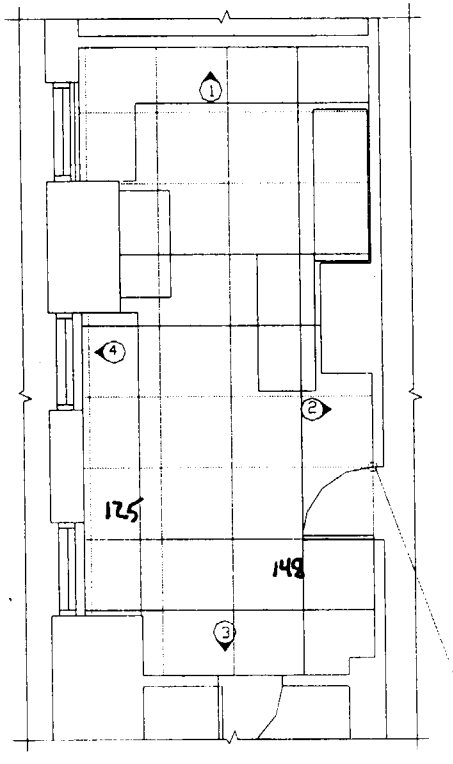
7.30.04 AC



① ELEVATION

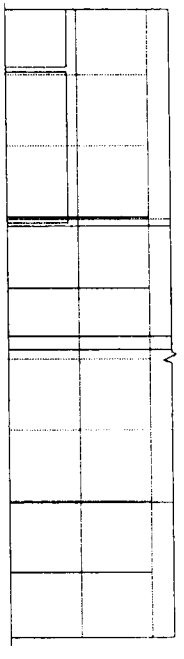


④ ELEVATION

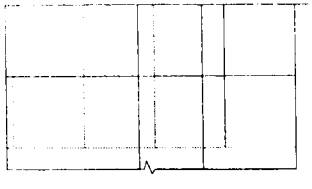


ROOM 813

START GRID HERE



② ELEVATION



③ ELEVATION

Post-Decontamination Tritium Readings

125 = 329

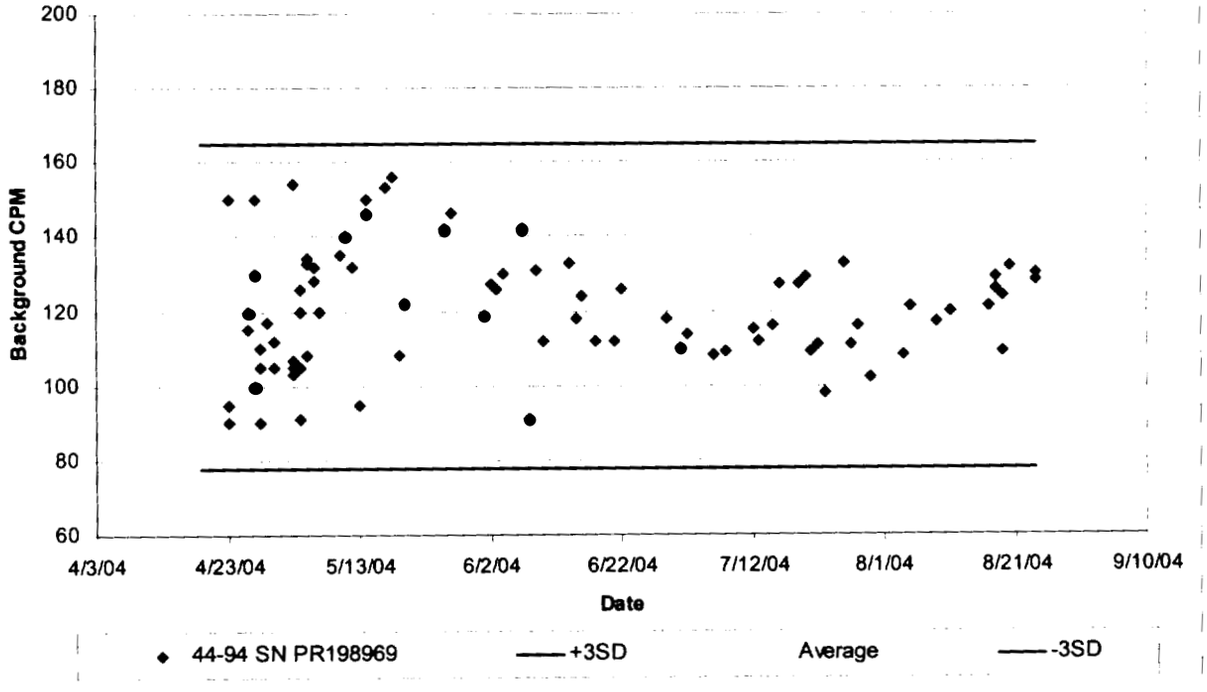
148 = No reading taken (cabinet door)

9.2.04 AC

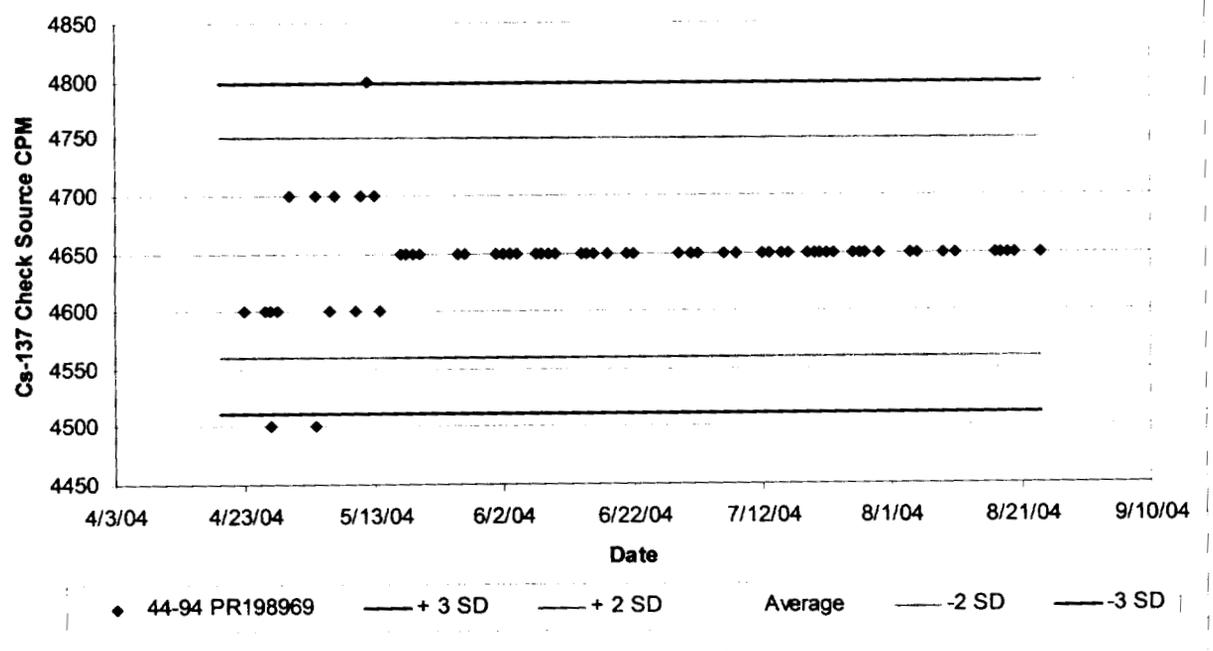
APPENDIX C

Survey Instrument QC Charts and Calibration Certificates

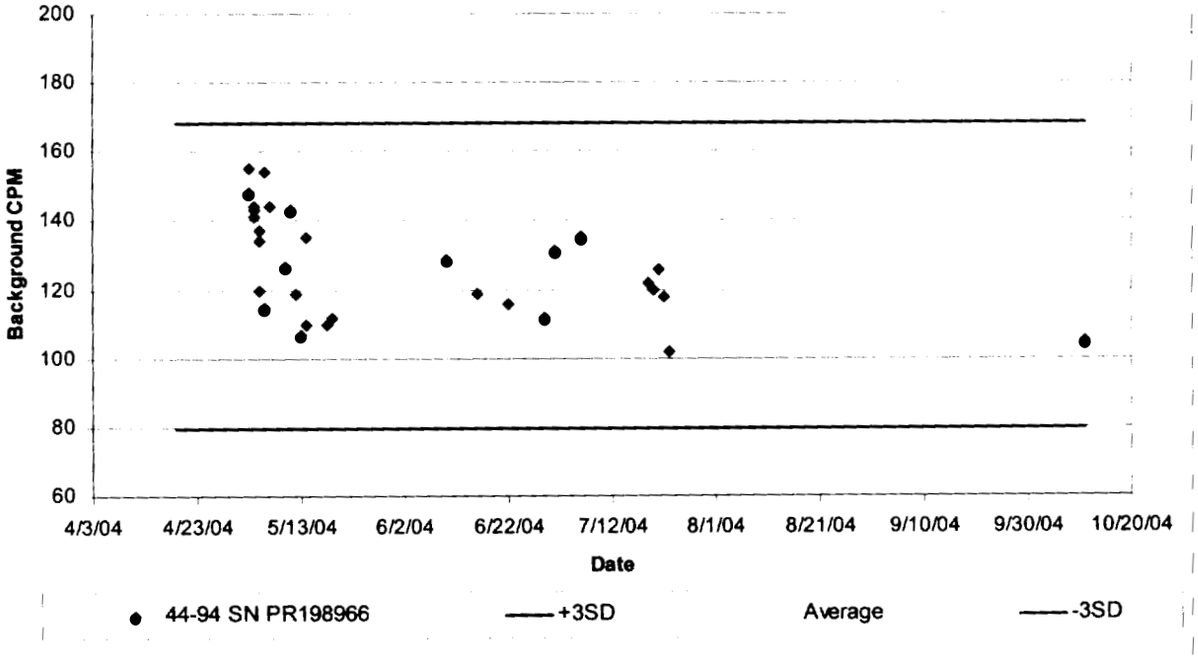
Background Countrol Chart
Inst. #1: 2241 SN 203640 / 44-94 SN PR198969



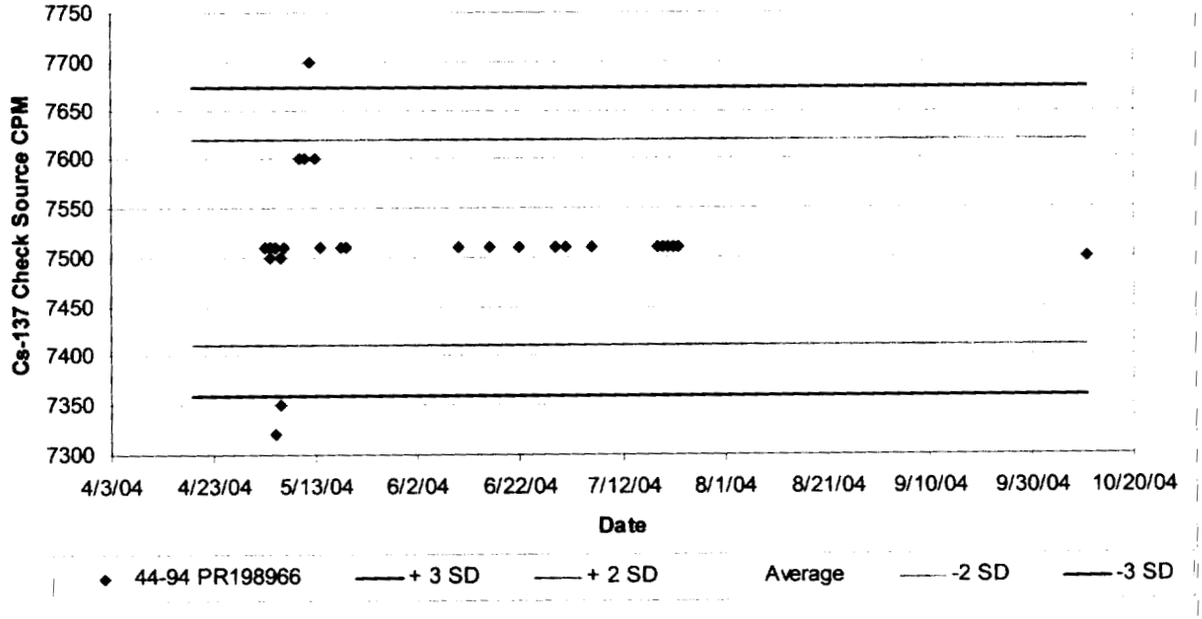
Cs-137 Check Source Countrol Chart
Inst. #1: 2241 SN 203640 / 44-94 SN PR198969



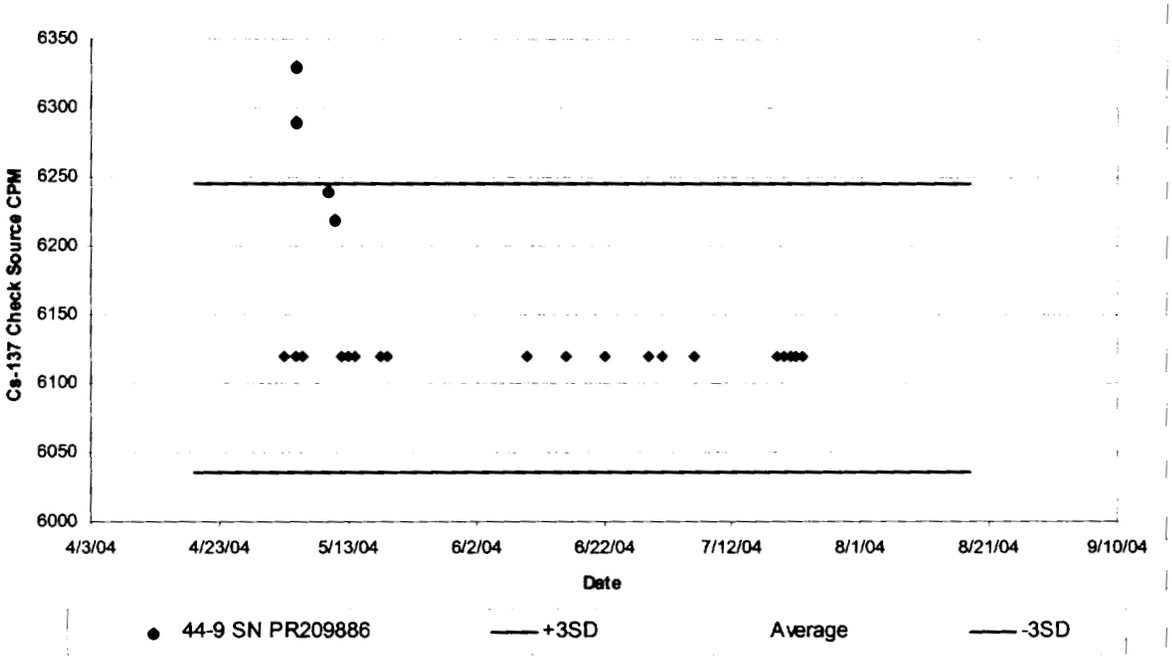
Background Control Chart
Inst. #2 Det. #1: 2241 SN 200101 / 44-94 SN PR198966



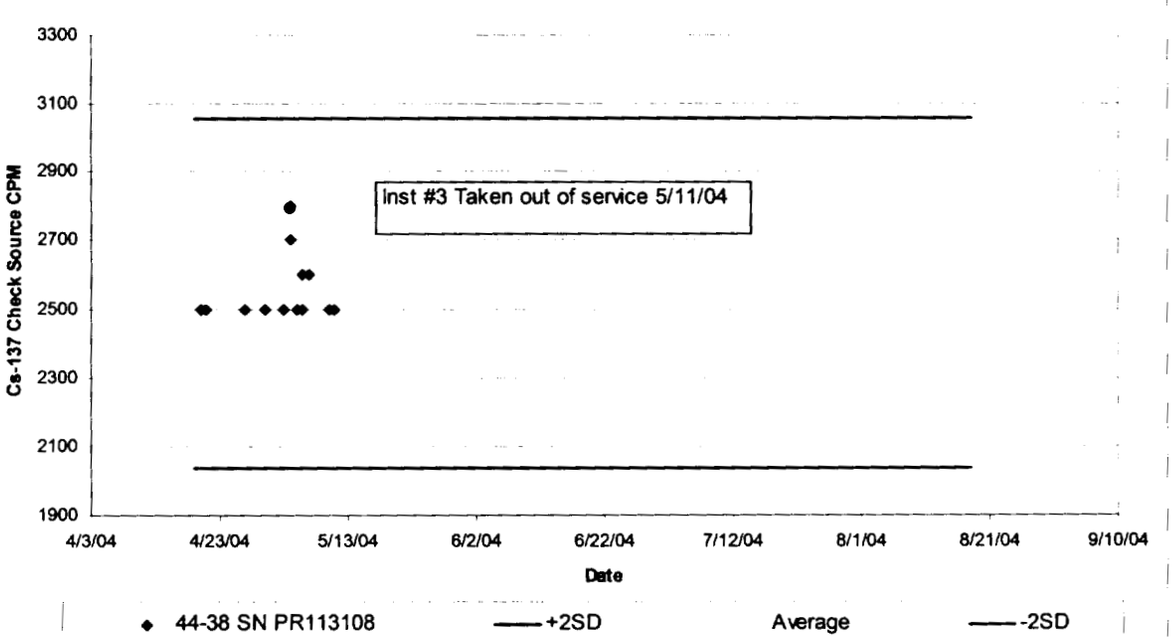
Cs-137 Check Source Control Chart
Inst. #2 Det. #1: 2241 SN 200101 / 44-94 SN PR198966

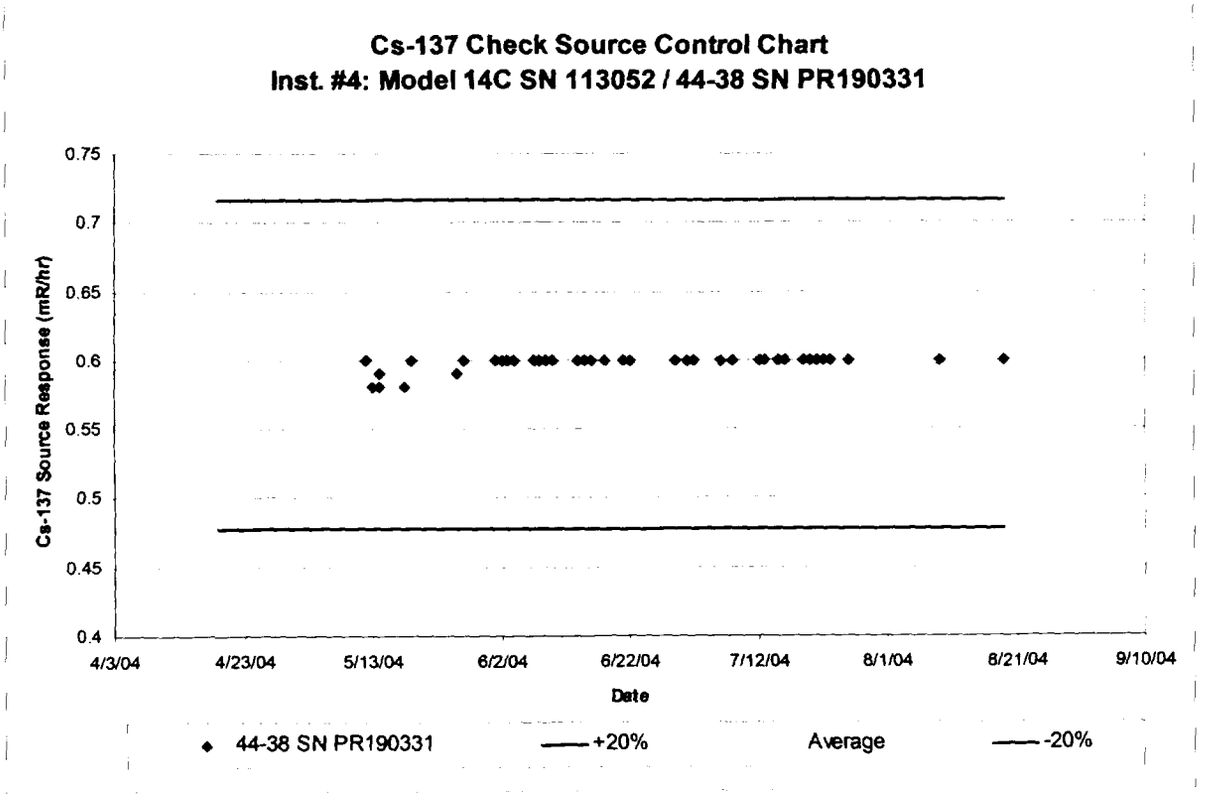


Cs-137 Check Source Control Chart
Inst. #2 Det. #2: 2241 SN 200101 / 44-9 SN PR209886

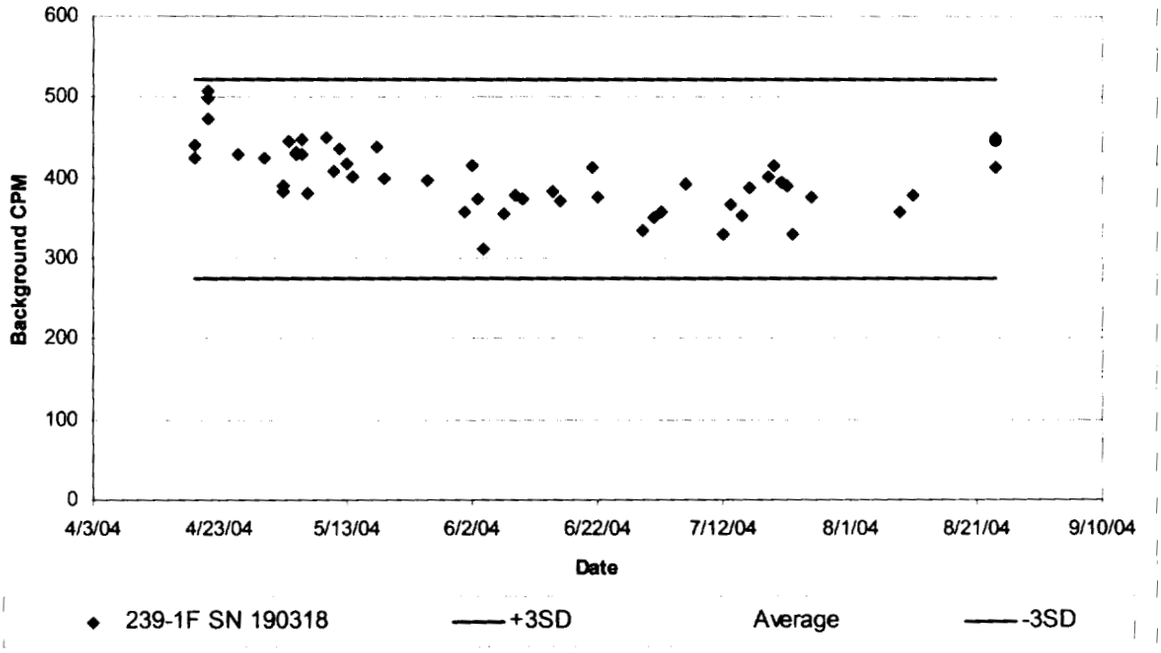


Cs-137 Check Source Control Chart
Inst. #3: Model 3 SN 113439 / 44-38 SN PR113108

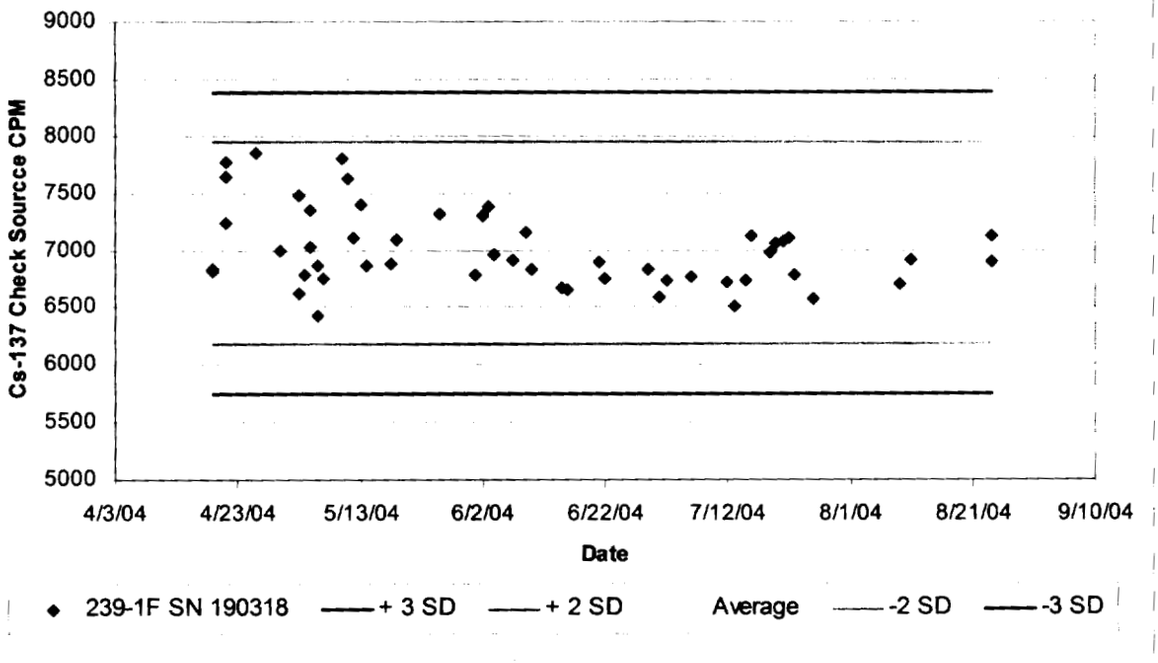



Cs-137 Check Source Control Chart
Inst. #4: Model 14C SN 113052 / 44-38 SN PR190331
Cs-137 Source Response (mR/hr)
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
4/3/04
4/23/04
5/13/04
6/2/04
6/22/04
7/12/04
8/1/04
8/21/04
9/10/04
Date
44-38 SN PR190331
+20%
Average
-20%

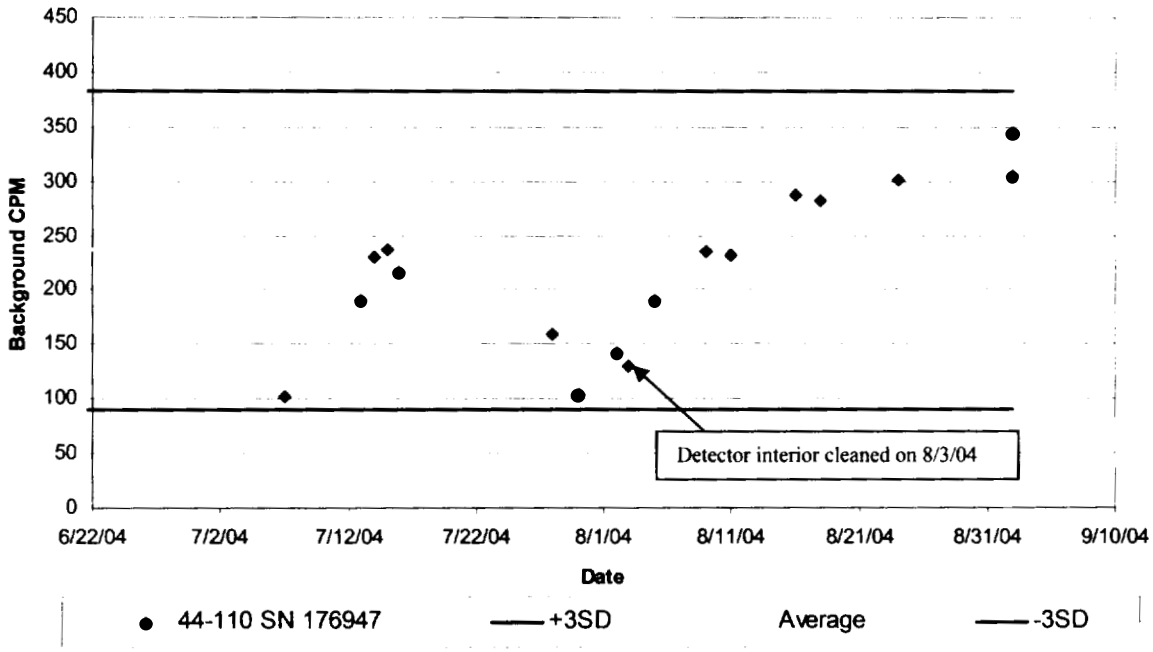
Background Control Chart
Floor Monitor: 239-1F SN 190318



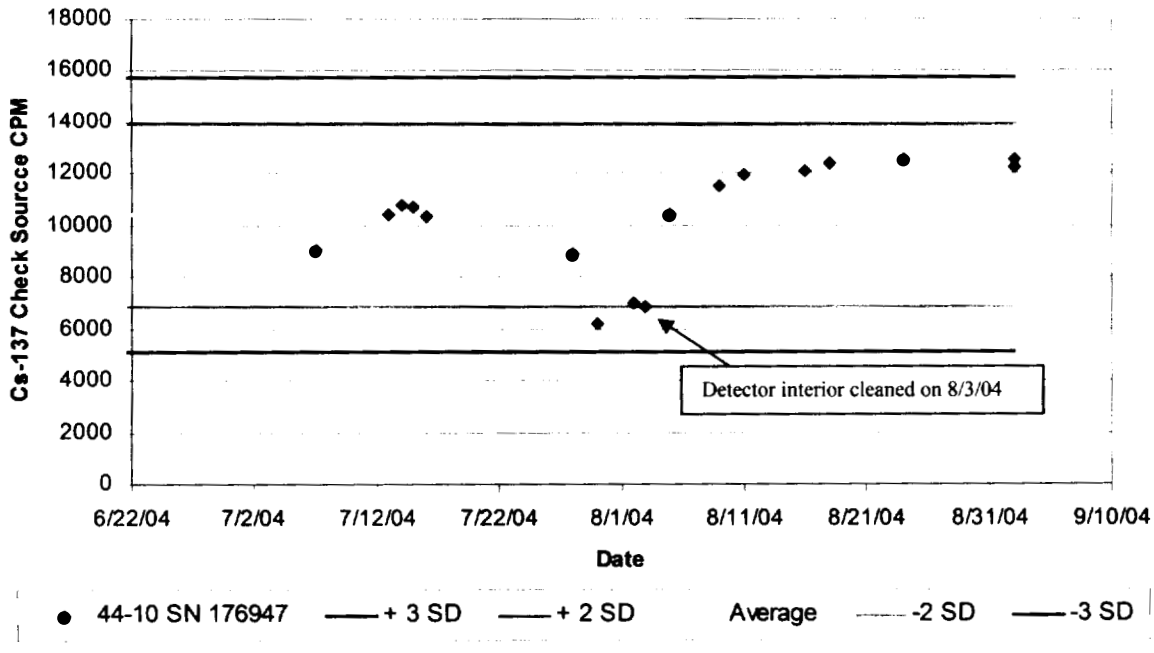
Cs-137 Check Source Control Chart
Floor Monitor: 239-1F SN 190318



Background Control Chart
Tritium Monitor: 2121 SN 176947 / 44-110 SN PR178079



Cs-137 Check Source Control Chart
Tritium Monitor: 2121 SN 176947 / 44-110 SN PR178079



Instrument # 1

PANCAKE CLUSTER RE-CALIBRATION

Right pancake tube broken, replaced 07/07/04

Date: 7/7/2004 **Calibration By:** D. Derenzo

Meter Identification	
Make:	Ludlum
Model:	2241
Serial Number:	~~208640~~ 203640 6/31/04

Detector Identification	
Make:	Ludlum
Model:	44094
Serial No.:	PR198969
Detector Area:	50 cm²

1 Min. Background Counts	134	141	**Average BG:** 137.5 cpm

Calibration Source Information						
Manufacturer	**Model #**	**S/N**	**Radio-nuclide**	**Calibration Activity µCi**	**Cal Date**	**Current Activity**
DuPont Pharma	NES-200A	122294	C-14	0.146	12/22/1994	5.3958 kBq
DuPont Pharma	NES-200D	112294	Cl-36	0.0208	11/22/1994	0.7698 kBq
DuPont Pharma	NES-133S	011095	Na-22	1.12	1/10/1995	3.3081 kBq

	COUNT RATE, CPM					AVERAGE 4π EFFICIENCY
	TOP	**BOTTOM**	**RIGHT**	**LEFT**	**AVERAGE**	
C-14	20900	20672	22691	22644	21756	0.0668
	20903	20575	23069	22594		
Cl-36					0	N/A
Na-22					0	N/A

PANCAKE CLUSTER CALIBRATION

Date: 7/1/2004

Calibration By: D. Derenzo

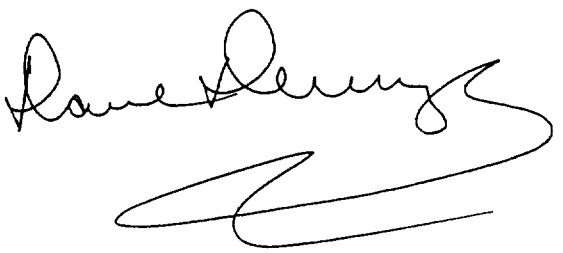
Meter Identification	
Make:	Ludlum
Model:	2241
Serial Number:	208640

Detector Identification	
Make:	Ludlum
Model:	44094
Serial No.:	PR198969
Detector Area:	15 cm²

1 Min. Background Counts	202	178	Average BG: 190.0 cpm

Calibration Source Information						
Manufacturer	Model #	S/N	Radio-nuclide	Calibration Activity µCi	Cal Date	Current Activity
DuPont Pharma	NES-200A	122294	C-14	0.146	12/22/1994	5.3958 kBq
DuPont Pharma	NES-200D	112294	Cl-36	0.0208	11/22/1994	0.7698 kBq
DuPont Pharma	NES-133S	011095	Na-22	1.12	1/10/1995	3.3226 kBq

	COUNT RATE, CPM					AVERAGE 4π EFFICIENCY
	TOP	BOTTOM	RIGHT	LEFT	AVERAGE	
C-14	21884	20863	22561	22256	21662.875	0.0663
	20499	20597	22564	22079		
Cl-36	17357	18110	19355	17949	18132.125	0.3885
	17396	17770	19392	17728		
Na-22	2110	2377	2265	2275	2254.5	0.0104
	2147	2273	2329	2260		



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CERTIFICATE OF CALIBRATION

CUSTOMER V A MEDICAL CENTER ORDER NO. 208667

Mfg. Ludlum Measurements, Inc. Model 2241 Serial No. 203640

Mfg. Ludlum Measurements, Inc. Model 44-94 Serial No. PR 198969

Cal. Date 11-Feb-04 Cal Due Date 11-Feb-05 Cal. Interval 1 Year Meterface NA

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 29 % Alt 701.8 mm Hg

☑ New Instrument Instrument Received ☐ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☐ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation
☑ Audio ck. ☑ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 2.2 VDC

☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 900 V Input Sens. 35 mV Det. Oper. 900 V at 35 mV Threshold Dial Ratio = mV

COMMENTS:

```
                Det.1(cpm)44-94   Overload checked but not set.
 Deadtime Correction:      61µSec  Firmware#: P04-08
Calibration Constant:      100e-2
     Ratemeter Alarm:      50.0kcpm
     Ratemeter Alert:      20.0kcpm
```

Cs-137 ≈ 1 µCi check source SN 2883 reads ≈ 4.65kcpm (this reading reflects an average of all 4 pancakes). Source reading was obtained by placing protective screen on source holder with holder door open. 2241 set to ratemeter position.

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
AUTO			
AUTO			
"			
"			
"			
"			
"			
"			
"			

*Uncertainty within ± 10% C.F. within ± 20%

Range(s) Calibrated Electronically

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Ratemeter Readout	800K cpm		799 kc/m
	200K cpm		199 kc/m
	80K cpm		79.9 kc/m
	20K cpm		19.9 kc/m
	8K cpm		7.99 kc/m
	2K cpm		1.99 kc/m
	800 cpm		800 c/m
	200 cpm		199 c/m

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Scaler Readout	800K cpm		79946(0)
	200K cpm		19983 (0)
	80K cpm		7995 (0)
	20K cpm		1998 (0)
	8K cpm		800(0)
	2K cpm		199 (0)
	800 cpm		80 (0)
	200 cpm		20 (0)

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☑ 1616 ☐ Neutron Am-241 Be S/N T-304

☐ Alpha S/N ☐ Beta S/N ☐ Other

☑ m 500 S/N 38120 ☐ Oscilloscope S/N ☑ Multimeter S/N 78401030

Calibrated By: Leann Ortega Date 11-Feb-04

Reviewed By: Date 11 Feb 04

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SWEETWATER, TEXAS 79556, U.S.A.

CONVERSION CHART

Customer V A MEDICAL CENTER Date 11-Feb-04 Order #. 208667

Model 2241 Serial No. 203640 Detector Model 44-94 Serial No. ~~PR 1988~~ PR198969

Source Cs-137 42.4 mCi High Voltage 900 V

Count time ~~12 seconds~~ Ratemeter Input Sensitivity 35 mV

Reference Point	"As Found" Readings: with Deadtime	"As Found" Readings: w/o Deadtime	After Adjustment Readings: with Deadtime	After Adjustment Readings: w/o Deadtime
80 mR/hr			986 kcpm	NA
20 mR/hr			262 kcpm	
8 mR/hr			102k cpm	
6 mR/hr			79.5k cpm	
2 mR/hr			26.1k cpm	
1 mR/hr			13.0k cpm	

Signature: Leana Ortega Date 11-Feb-04

Instrument #2A

PANCAKE CLUSTER CALIBRATION

Date: 7/12/2004 **Calibration By:** D. Derenzo

Meter Identification	
Make:	Ludlum
Model:	2241-3
Serial Number:	200101

Detector Identification	
Make:	Ludlum
Model:	44-94
Serial No.:	PR198966
Detector Area:	50 cm²

1 Min. Background Counts	143	125	**Average BG:** 134.0 cpm

Calibration Source Information						
Manufacturer	**Model #**	**S/N**	**Radio-nuclide**	**Calibration Activity µCi**	**Cal Date**	**Current Activity**
DuPont Pharma	NES-200A	122294	C-14	0.146	12/22/1994	5.3958 kBq
DuPont Pharma	NES-200D	112294	Cl-36	0.0208	11/22/1994	0.7698 kBq
DuPont Pharma	NES-261	122794	Sr-90	0.0217	12/27/1994	0.6366 kBq

	COUNT RATE, CPM					AVERAGE 4π EFFICIENCY
	TOP	**BOTTOM**	**RIGHT**	**LEFT**	**AVERAGE**	
C-14	21064	19705	20046	20394	20229.75	0.0621
	21120	19676	19490	20343		
Cl-36	18248	16268	16357	15729	16546.25	0.3554
	17975	15869	16284	15640		
Sr-90	30231	26421	26240	25645	26946.25	0.7019
	29860	25827	26330	25016		

Instrument #2A

PANCAKE DETECTOR CALIBRATION

Date: 5/6/2004 **Calibration By:** D. Derenzo

Meter Identification	
Make:	Ludlum
Model:	2241-3
Serial Number:	200101

Detector Identification	
Make:	Ludlum
Model:	44-9
Serial No.:	PR209886
Detector Area:	12 cm²

1 Min. Background Counts	32	41	Average BG: 36.5 cpm

Calibration Source Information

Manufacturer	Model #	S/N	Radio-nuclide	Calibration Activity µCi	Cal Date	Current Activity
DuPont Pharma	NES-200A	122294	C-14	0.146	12/22/1994	5.3959 kBq
DuPont Pharma	NES-250	042594	Pm-147	0.114	4/25/1994	0.2979 kBq
DuPont Pharma	NES-200B	052093	Tc-99	0.037	5/20/1993	1.3690 kBq
DuPont Pharma	NES-200D	112294	Cl-36	0.0208	11/22/1994	0.7696 kBq
DuPont Pharma	NES-200F	121093	Bi-210	0.0176	12/10/1993	0.4713 kBq
DuPont Pharma	NES-261	122794	Sr-90	0.0217	12/27/1994	0.6395 kBq

	COUNTS IN 1 MIN			AVERAGE 4π EFFICIENCY
	Count 1	Count 2	Average	
C-14	16873	16858	16866	0.0520
Pm-147	1638	1593	1616	0.0884
Tc-99	13946	13641	13794	0.1675
Cl-36	15006	14808	14907	0.3220
Bi-210	8624	8569	8597	0.3027
Sr-90	23817	23407	23612	0.6145

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SWEETWATER, TEXAS 79556, U.S.A.

CERTIFICATE OF CALIBRATION

CUSTOMER V A MEDICAL CENTER ORDER NO. 208667

Mfg. Ludlum Measurements, Inc. Model 2241-3 Serial No. 200101

Mfg. Ludlum Measurements, Inc. Model 44-94 Serial No. PR 198966

Cal. Date 11-Feb-04 Cal Due Date 11-Feb-05 Cal. Interval 1 Year Meterface NA

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 29 % Alt 701.8 mm Hg

☑ New Instrument Instrument Received ☐ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☐ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation
☑ Audio ck. ☑ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 2.2 VDC

☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set Comments V Input Sens. 30 mV Det. Oper. Comments V at 30 mV Threshold Dial Ratio = mV

COMMENTS:

	Det.1(cpm)	Det.2(cpm)	Det.3(cpm)	Det.4(cpm)
Deadtime Correction:	67µSec	80µSec	5µSec	5µSec
Calibration Constant:	100e-2	100e-2	100e-2	100e-2
Ratemeter Alarm:	50.0kcpm	50.0kcpm	50.0kcpm	20.0kcpm
Ratemeter Alert:	20.0kcpm	20.0kcpm	20.0kcpm	20.0kcpm
High Voltage:	900v	900v	1200v	1100v

Firmware#: P-06-12
High Voltage for 44-10 and 44-17 set with detector connected.

Cs-137≈1µCi check source SN 2796 reads in ratemeter position as follows:Det.1≈7.51kcpm(this reading reflects an average of all 4 pancakes)with protective screen of 44-94 placed against open source holder. Det.2≈6.12kcpm with protective screen of 44-9 placed against open source holder.Det.3≈105kcpm with open end of 44-17 placed against open source holder. Det.4≈213kcpm with detector end(crystal end) of 44-10 placed against open source holder.

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
Digital			
Digital			

*Uncertainty within ± 10% C.F. within ± 20% Range(s) Calibrated Electronically

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Ratemeter Readout	800K cpm		799 kcpm
	200K cpm		199 kcpm
	80K cpm		79.9 kcpm
	20K cpm		19.9 kcpm
	8K cpm		7.99 kcpm
	2K cpm		1.99 kcpm
	800 cpm		799 cpm
	200 cpm		199 cpm

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Scaler Readout	800K cpm		79912 (0)
	200K cpm		19920 (0)
	80K cpm		7998 (0)
	20K cpm		1994 (0)
	8K cpm		799 (0)
	2K cpm		200 (0)
	800 cpm		80 (0)
	200 cpm		20 (0)

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☑ 1616 ☐ Neutron Am-241 Be S/N T-304

☐ Alpha S/N ☐ Beta S/N ☑ Other I-129 #071387, Am241≈0.87µCi

☑ m 500 S/N 38120 ☐ Oscilloscope S/N ☑ Multimeter S/N 78401030

Calibrated By: Jesus Ortega Date 11 Feb 04

Reviewed By: Toni Hansen Date 11 Feb 04

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CONVERSION CHART

Customer V A MEDICAL CENTER Date 11-Feb-04 Order #. 208667

Model 2241-3 Serial No. 200101 Detector Model 44-94 Serial No. PR 198966

Source Cs-137 42.4 mCi High Voltage 900 V

Count time ~~12 seconds~~ 40 Ratemeter Input Sensitivity ~~35~~ 40 30 mV

Reference Point	"As Found" Readings: with Deadtime	"As Found" Readings: w/o Deadtime	After Adjustment Readings: with Deadtime	After Adjustment Readings: w/o Deadtime
80 mR/hr			973 Kc/m	NA
20 mR/hr			253 Kc/m	
8 mR/hr			103 Kc/m	
6 mR/hr			74.8 Kc/m	
2 mR/hr			26.4 Kc/m	
1 MR/hr			131 Kc/m	

Signature: Leon Ortega Date 11-Feb-04

of
Scientific and Industrial
Instruments

POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CONVERSION CHART

Customer V A MEDICAL CENTER Date 11-Feb-04 Order #. 208667

Model 2241-3 Serial No. 200101 Detector Model 44-9 Serial No. PR209886

Source Cs-137 42.4mCi High Voltage 900 V

Count time Ratemeter Input Sensitivity ~~35~~ 30 mV

Reference Point	"As Found" Readings (CPM): with Deadtime	"As Found" Readings (CPM): w/o Deadtime	After Adjustment Readings (CPM): with Deadtime	After Adjustment Readings (CPM): w/o Deadtime
150 mR/hr			473 k	NA
50 mR/hr			161 k	
15 mR/hr			49.4k	
5 mR/hr			16.4k	
1.5 mR/hr			4.82 k	
1.0 mR/hr			3.20k	

Signature: Lenin Ortega Date 11-Feb-04

Designer and Manufacturer
of
Scientific and Industrial
Instruments

POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 44-17 Serial No. PR 209087

Customer V A MEDICAL CENTER Order #. 208667

Counter 2241-3 Serial No. 200101 Counter Input Sensitivity 30 mV

Count Time 6 seconds Distance Source to Detector Surface

Other

High Voltage	Background	Isotope I-129 Size 0.076uCi	Isotope Size	Isotope Size	Isotope Size
1050	101	3965			
1100	99	4114			
1150	138	4178			
✓ 1200	125	4058			
1250	108	4288			
1300	112	4396			
1350	122	4412			

Signature Lenin Ortega Date 11-Feb-04

FORM C4A 04/09/2003

Designer and Manufacturer
of
Scientific and Industrial
Instruments

POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 44-10 Serial No. PR 20 7987

Customer V A MEDICAL CENTER Order #. 208667

Counter 2241-3 Serial No. 200101 Counter Input Sensitivity 30 mV

Count Time 6 Seconds Distance Source to Detector Surface

Other

High Voltage	Background	Isotope Am241 Size =0.87 uCi	Isotope Size	Isotope Size	Isotope Size
950	672	10578			
1000	683	10723			
1050	688	10889			
✓1100	665	10892			
1150	672	10984			
1200	633	10981			
1250	656	10930			

Signature Lena Ortega Date 11-16-09

FORM C4A 04/09/2003

Instrument # 2B

PANCAKE DETECTOR CALIBRATION

Date: 5/6/2004 **Calibration By:** D. Derenzo

Meter Identification	
Make:	Ludlum
Model:	2241-3
Serial Number:	200101

Detector Identification	
Make:	Ludlum
Model:	44-9
Serial No.:	PR209886
Detector Area:	12 cm^2

1 Min. Background Counts	32	41	Average BG: 36.5 cpm

Calibration Source Information						
Manufacturer	Model #	S/N	Radio-nuclide	Calibration Activity µCi	Cal Date	Current Activity
DuPont Pharma	NES-200A	122294	C-14	0.146	12/22/1994	5.3959 kBq
DuPont Pharma	NES-250	042594	Pm-147	0.114	4/25/1994	0.2979 kBq
DuPont Pharma	NES-200B	052093	Tc-99	0.037	5/20/1993	1.3690 kBq
DuPont Pharma	NES-200D	112294	Cl-36	0.0208	11/22/1994	0.7696 kBq
DuPont Pharma	NES-200F	121093	Bi-210	0.0176	12/10/1993	0.4713 kBq
DuPont Pharma	NES-261	122794	Sr-90	0.0217	12/27/1994	0.6395 kBq

	COUNTS IN 1 MIN			AVERAGE 4π EFFICIENCY
	Count 1	Count 2	Average	
C-14	16873	16858	16866	0.0520
Pm-147	1638	1593	1616	0.0884
Tc-99	13946	13641	13794	0.1675
Cl-36	15006	14808	14907	0.3220
Bi-210	8624	8569	8597	0.3027
Sr-90	23817	23407	23612	0.6145

CERTIFICATE OF CALIBRATION

RSSI

6312 West Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Certificate No. 041343

VETERANS ADMINSTRATION LAKESIDE
MEDICAL CENTER
Attention: Ws - Rso

Manufacturer: LUDLUM
Model: 3
Serial No.: 113439
Probe(s): LUDLUM 44-38, Sn: PR113108

CALIBRATION DATA

SOURCE*	SCALE	FIELD (mR/hr)	READING Pre	READING Post	FIELD (mR/hr)	READING Pre	READING Post
5	x0.1	0.05	0.048	0.051	0.15	0.135	0.15
5	x1	0.50	0.48	0.52	1.5	1.35	1.5
2	x10	5.0	4.8	5.2	15	13.5	15
1	x100	50	40	52	150	115	150

If the accuracy of a scale is not within +/-10% but is within +/-20% a correction factor is supplied.

Check Source: Cs-137 **Reading:** 0.5 mR/hr **Probe Window:** closed

Temperature: 24 °C **Relative Humidity:** 58 % **Barometric Pressure:** 988 mbar

Comments: The x0.1, x1 scales were electronically referenced to the x10 scale at 1 mR/hr = 1097 cpm.

Calibrated by: Timothy Hall **Date:** 6/14/04

Calibration Frequency: Annual **Recalibrate by:** 6/14/05

*SOURCE	1. Cs-137	2. Cs-137	3. Am-241	4. Cf-252	5. Electronic	6. Other
Manufacturer	U.S. Nuclear	Eon Corp.	Amersham	Amersham		
Model	CCs-D-20E	64-764	AMC 13446	100		
Serial Number		722	7510 LA	FTC-CF-001		
Activity	11.5 Ci	100 mCi	100 mCi	1801 μg		
Date	1/1994	5/2/78	6/3/84	10/8/85		

Calibration authorized by Illinois Department of Nuclear Safety License No. IL-01429-01 and meets the requirements of ANSI 323-1978 and MIL-STD-45662A. Exposure rate traceable to NIST with MDH model 1015 SN 109 transfer instrument. Radcal Cert. of Conf. 20300.

CERTIFICATE OF CALIBRATION

RSSI

6312 West Oakton Street
Morton Grove, IL 60053-2723
847-965-1999
Fax 847-965-1991

Certificate No. 041222

VETERANS ADMINSTRATION LAKESIDE
MEDICAL CENTER
Attention: Ws - Rso

Manufacturer: LUDLUM
Model: 14C
Serial No.: 113052
Probe(s): LUDLUM 44-38, Sn: PR110180

CALIBRATION DATA

SOURCE*	SCALE	FIELD (mR/hr)	READING (mR/hr)	FIELD (mR/hr)	READING (mR/hr)
5	x0.1	0.05	0.05	0.15	0.15
5	x1	0.5	0.5	1.5	1.5
2	x10	5.0	5.0	15	15
1	x100	50	50	150	150
1	x1000	500	530	1500	1500

If the accuracy of a scale is not within +/-10% but is within +/-20% a correction factor is supplied.

Check Source: Cs-137 **Reading:** 0.6 mR/hr **Probe Window:** closed

Temperature: 23.5 °C **Relative Humidity:** 37 % **Barometric Pressure:** 987 mbar

Comments: The x0.1, x1 scales were electronically referenced to the x10 scale at 1 mR/hr = 1040 cpm.

Calibrated by: Timothy Hall **Date:** 4/30/04

Calibration Frequency: Annual **Recalibrate by:** 4/30/05

*SOURCE	1. Cs-137	2. Cs-137	3. Am-241	4. Cf-252	5. Electronic	6. Other
Manufacturer	U.S. Nuclear	Eon Corp.	Amersham	Amersham		
Model	CCs-D-20E	64-764	AMC 13446	100		
Serial Number		722	7510 LA	FTC-CF-001		
Activity	11.5 Ci	100 mCi	100 mCi	1801 μg		
Date	1/1994	5/2/78	6/3/84	10/8/85		

Calibration authorized by Illinois Department of Nuclear Safety License No. IL-01429-01 and meets the requirements of ANSI 323-1978 and MIL-STD-45662A. Exposure rate traceable to NIST with MDH model 1015 SN 109 transfer instrument. Radcal Cert. of Conf. 20300.

PREVENTIVE MAINTENANCE PERFORMED

BATTERIES/CONTACTS CHECKED	✓	
HIGH VOLTAGE MEASURED	✓	908 VOLTS
SENSITIVITY MEASURED	✓	32 mVOLTS
METER ZERO CHECKED	✓	
INSTRUMENT CLEANED	✓	

Lab Reference: 21

FLOOR MONITOR CALIBRATION

Date: 5/6/2004

Calibration By: D. Derenzo

Meter Identification	
Make:	Ludlum
Model:	2241
erial No.:	203519

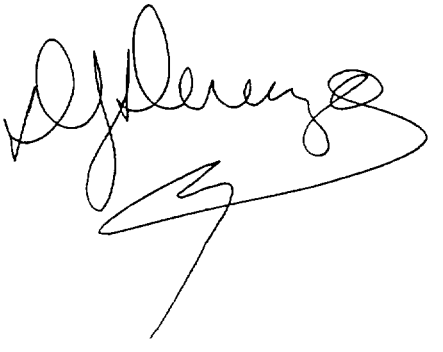
Detector Identification	
Make:	Ludlum
Model:	4337
Serial No.:	PR190331
Detector Area:	548 cm²

Detector Height	1 cm above the floor for BG measurements, 1 cm above the face of source for grid counts

Background Counts,	450	422	Average BG:	436.0 cpm

C-14 Calibration Source Information						
Manufacturer	Model #	S/N	Radio-nuclide	Calibration Activity µCi	Cal Date	Current Activity
DuPont Pharma	NES-133S	11095	Na-22	1.120	1/10/1995	3.4611 kBq

Position	1 minute counts					Average	Efficiency
A	1764	1672	1677	1694	1705	1702.4 cpm	0.0061
B	1895	1914	1886	1947	1930	1914.4 cpm	0.0071
C	1674	1715	1736	1726	1713	1712.8 cpm	0.0061
						Averge Efficiency	0.0065



FLOOR MONITOR CALIBRATION

Date: 4/14/2004

Calibration By: D. Derenzo, N. Bijedic, S. Nam

Meter Identification	
Make:	Ludlum
Model:	2241
Serial No.:	203519

Detector Identification	
Make:	Ludlum
Model:	4337
Serial No.:	PR190331
Detector Area:	548 cm²

P-10 Gas Purge	Purge Flow Rate	Time Started	Time Ended	Operating Flow Rate
	> 100 cc/min	10:30	11:10	40 cc/min

Detector Height	1 cm above the floor for BG measurements, 1 cm above the face of source for grid counts

Background Counts, 1 min each			
	350	377	
	376	426	
	383	380	
	380	387	
	376	388	

Average BG:	382.3 cpm

C-14 Calibration Source Information						
Manufacturer	Model #	S/N	Radio-nuclide	Calibration Activity µCi	Cal Date	Current Activity kBq
DuPont Pharma	NES-200A	122294	C-14	0.146	12/22/1994	5.3959

Detector Grid Counts

The detector is approximately 46 cm wide by 16 cm deep. Using the center lines of the detector, a 5 cm grid pattern was established. Lines 1, 2, A, and E are 2 cm beyond the edges of the detector. An NIST traceable C-14 standard was counted for 1 minute in each of the locations obtaining the following data.

	A	B	C	D	E
1	378	422	467	423	402
2	451	6550	6948	6794	466
3	519	22595	19148	24620	536
4	482	21110	18526	24197	514
5	500	23303	18893	24740	504
6	508	22808	20274	24495	518
7	451	22739	19494	24178	538
8	530	24151	19729	25581	552
9	496	24313	20199	24415	5129
10	433	6545	5415	6129	478
11	396	453	443	425	417

Entire Area 4 π C-14 Counting Efficiency:	0.0299	(All readings)
Average 4 π C-14 Counting Efficiency:	0.0590	(B2-B10, C2-C10, D2-D10)
Detector Center 4 π C-14 Counting Efficiency:	0.0691	(B3-B9, C3-C9, D3-D9)

Scientific and Industrial Instruments

POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CERTIFICATE OF CALIBRATION

CUSTOMER V A MEDICAL CENTER ORDER NO. 208667

Mfg. Ludlum Measurements, Inc. Model 2241 Serial No. 203519

Mfg. Ludlum Measurements, Inc. Model 43-37 Serial No. PR 190331

Cal. Date 11-Feb-04 Cal Due Date 11-Feb-05 Cal. Interval 1 Year Meterface NA

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 29 % Alt 701.8 mm Hg

☑ New Instrument Instrument Received ☐ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☐ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation
☑ Audio ck. ☑ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 2.2 VDC
☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set Comments V Input Sens. 4 mV Det. Oper. Comments V at 4 mV Threshold Dial Ratio ____ = ____ mV

COMMENTS:

```
                Det.1(cpm)          High Voltage: Alpha=1250v
 Deadtime Correction:   NA                        Beta=1700v
Calibration Constant:  100e-2       2241 currently set up for Beta operation.
     Ratemeter Alarm:  50.0kcpm
     Ratemeter Alert:  20.0kcpm

Overload checked but not set.
Firmware#: P-04-08
Calibrated with 6 ft. cable.
```

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
AUTO			
AUTO			
"			
"			
"			
"			
"			
"			
"			

*Uncertainty within ± 10% C.F. within ± 20%

Range(s) Calibrated Electronically

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Ratemeter Readout	800K cpm		799 kc/m
	200K cpm		199 kc/m
	80K cpm		79.9 kc/m
	20K cpm		19.9 kc/m
	8K cpm		7.99 kc/m
	2K cpm		1.99 kc/m
	800 cpm		799 c/m
	200 cpm		199 c/m

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Scaler Readout	800K cpm		79939 (0)
	200K cpm		19967 (0)
	80K cpm		7994 (0)
	20K cpm		1996 (0)
	8K cpm		800 (0)
	2K cpm		199 (0)
	800 cpm		80 (0)
	200 cpm		20 (0)

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☑ Alpha S/N #4337 Pu239 ☑ Beta S/N #635/83 Tc99 ☐ Other ____

☑ m 500 S/N 38120 ☐ Oscilloscope S/N ____ ☑ Multimeter S/N 78401030

Calibrated By: Leona Ortega Date 11-Feb-04

Reviewed By: Eliot Edwards Jr. Date 12-FEB-04

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.

Designer and Manufacturer
of
Scientific and Industrial
Instruments

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SWEETWATER, TEXAS 79556, U.S.A.

Functional Check

Customer V A MEDICAL CENTER Order #. 208667

This Certifies that Ludlum Model 239-1F Serial No. 190318 has been functionally checked.
Refer to applicable instrument manuals for specific operating instructions.

Check performed by Lewis Ortega Date 11-Feb-04

Designer and Manufacturer of Scientific and Industrial Instruments

POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data

Detector 43-37 Serial No. PR190331 Order #. 208667

Customer V A MEDICAL CENTER

Counter 2241 Serial No. 203519 Counter Input Sensitivity 4 mV

Count Time 1 Minute Distance Source to Detector Surface

Other Plateaud with 6 ft. cable

High Voltage	Background	Isotope Pu239 Size 15700 cpm	Isotope Tc99 Size 14300 cpm	Isotope Size	Isotope Size
1100	3	6630			
1150	8	6966			
1200	3	7168			
1250	4	7206			
1300	3	7477			
1350	8	7351			
1400	6	7428			
1550	107		3130		
1600	227		4908		
1650	350		6746		
1700	742		8298		
1750	1061		9143		

☑ Gas proportional detector count rate decreased ≤ 10% after 15 hour static test using 39" cable.

Signature Lemar Ortega Date 11-16-04

n Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. -alibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Designer and Manufacturer of Scientific and Industrial Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER CABRERA SERVICES ORDER NO. 209601/278538

Mfg. Ludlum Measurements, Inc. Model 2221 Serial No. 176947

Mfg. Ludlum Measurements, Inc. Model 44-110 Serial No. PR178079

Cal. Date 21-Jan-04 Cal Due Date 21-Jan-05 Cal. Interval 1 Year Meterface 202-159

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 20 % Alt 709.8 mm Hg

☐ New Instrument Instrument Received ☑ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☑ Meter Zeroed ☐ Background Subtract ☑ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☑ Window Operation ☑ Geotropism
☑ Audio ck. ☐ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 4.4 VDC
☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 1700 V Input Sens. 4 mV Det. Oper. 1700 V at 4 mV Threshold Dial Ratio 100 = 4 mV

☑ HV Readout (2 points) Ref./Inst. 500 / 500 V Ref./Inst. 2000 / 2002 V

COMMENTS:
C-14 ≈ 0.149 µCi check source SN 1151 reads ≈ 42511 cpm with source underneath probe after a 2 minute purge.
Cal'd with a 39 inch cable.

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
X 1K	400 Kcpm	400	400
X 1K	100 Kcpm	100	100
X 100	40 Kcpm	400	400
X 100	10 Kcpm	100	100
X 10	4 Kcpm	400	400
X 10	1 Kcpm	100	100
X 1	400 cpm	400	400
X 1	100 cpm	100	100

*Uncertainty within ± 10% C.F. within ± 20% Range(s) Calibrated Electronically

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Digital Readout	400 Kcpm	40078 (0)	40078 (0)
	40 Kcpm	4008	4008
	4 Kcpm	400	400
	400 cpm	40	40
	40 cpm	4	4

	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
Log Scale	500 Kcpm	500K	500K
	50 Kcpm	50K	50K
	5 Kcpm	5K	5K
	500 cpm	500	500
	50 cpm	50	50

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978 State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☐ Alpha S/N ☑ Beta S/N H3 SN LC306, C-14 SN 200A/01884 ☐ Other

☑ m 500 S/N 132899 ☐ Oscilloscope S/N ☑ Multimeter S/N 82080087

Calibrated By: Josh Boston Date 21 Jan 04

Reviewed By: Kevin Manley Date 21-Jan-04

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.
FORM C22A 11/26/2003

AC Inst. Only ☐ Passed Dielectric (Hi-Pot) and Continuity Test ☐ Failed:

Designer and Manufacturer
of
Scientific and Industrial
Instruments

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 44-110 Serial No. PR178079

Customer CABRERA SERVICES Order #. 209601/278538

Counter 2221 Serial No. 176947 Counter Input Sensitivity 4 mV

Count Time 1 minute Distance Source to Detector Surface

Other

High Voltage	Background	Isotope H-3 Size 1578 cpm	Isotope C-14 Size 193150 cpm	Isotope Size	Isotope Size
1650	270	1141	46983		
1700	345	1565	48002		
1750	497	1891	53673		

Signature Josh Boston Date 21Jan04

LSC Counting Protocol

Protocol # =	25	Copy Protocol #?	no
Protocol Name?	Decommissioning		
Cycles?	1		
Count Time?	3.00		
2 Sigma Coincidence?	no		
# Counts/Vial?	1		
# Vials/Standard?	1	# Vials/Sample?	1
1st Vial Background?	yes		
Radionuclide?	manual		

	LL	UL	Bkg	2 Sigma%	LCR
Region A:	0.0	12.0	0.00	.00	0
Region B:	12.0	156.	0.00	.00	0
Region C:	156.	2000	0.00	.00	0

Qip?	tSIE/AEC	ES Terminator?	count
% of Reference?	no		
Data Mode?	dual dpm		

Protocol # =	25	Protocol Name =	Decommissioning
Standards Data?	use curve	Constant Quench?	no
Replot?	no	Edit Stds?	
# Stds/Nuclide 1?	0	# Stds/Nuclide 2?	0
Nuclide 1:DPM	223212	Nuclide 2:DPM	130300

Qip	Eff A	Eff B
984.1	61.73	4.59
749.6	56.04	4.97
598.8	50.75	5.06
454.0	44.05	4.54
358.9	38.32	4.01
272.2	30.86	3.42
198.9	22.56	3.04
156.3	17.24	2.34
125.0	13.10	1.87
100.9	9.91	1.37

Qip	Eff A	Eff B
967.7	12.37	84.17
741.3	12.00	83.47
593.1	11.61	83.38
450.9	11.71	82.37
355.7	11.76	81.27
271.5	11.88	79.58
204.4	11.41	77.52
159.1	11.62	74.21
128.7	12.00	71.07
102.2	12.58	65.81

```
Protocol # =                        25      Protocol Name =    Decommissioning
Half Life ?                    A: 0.00          B: 0.00
   Ref Date ?                  A: 01/01/1990    B: 01/01/1990
   Ref Time ?                  A: 00:00         B: 00:00
Single Photon Count ?              no
Colored Samples ?                  yes
RS232 Computer Output ?            no

Luminescence Correction ?          yes

Data/Application Drive & Path ?
   Save Data ?
   Save Spectrum ?                 no
   Run User Application ?          no
      File Name ?
      Command String ?
Static controller ?                on

Protocol #:  25       Name:  Decommissioning
Additional Heading?  VA Lakeside Campus  Packard LSC A2100 SNo 414354
C#  Name      Format     C#  Name      Format     C#  Name      Format  Equation
 0  CRLF                 11  C:2S%       BXX.     21  A:%CV      BXXX.
 1  PID            BX    12  C:%REF     BXXX.     22  B:%CV      BXXX.
 2  S#             BX    13  SIS        BXX.X     23  TOD       BXXXXX
 3  TIME       BXXX.     14  DPM1      BXXXX.     24
 4  CPMA      BXXXX.     15  DPM2      BXXXX.     25
 5  A:2S%       BXX.     16  ELTIME     BXXXX     26
 6  A:%REF     BXXX.     17  FLAG         BXX     27
 7  CPMB      BXXXX.     18  BLANK     BBBBBB     28
 8  B:2S%       BXX.     19  tSIE          B.X    29
 9  B:%REF     BXXX.     20  %LUM           BX    30
 10 CPMC      BXXXX.                             31

Define Cell #? 1       Name?          Format?                  BXXX
Equation?          (Operators: +,-,*,/,SQR,LN)
Print Cells? 2  3  4  14 7  15 10 13 19 20 17 0
```

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 06-Aug-2004 17:44
   C14 Eff (0-156 keV) = 96.29 %
 '4 CHI SQUARE IPA DATA PROCESSED - 06-Aug-2004 17:54
   C14 Chi Square = 36.23
H3 IPA DATA PROCESSED - 06-Aug-2004 17:55
   H3 Eff (0-18.6 keV) = 63.52 %
H3 CHI SQUARE IPA DATA PROCESSED - 06-Aug-2004 18:06
   H3 Chi Square = 9.79
BKG IPA DATA PROCESSED - 06-Aug-2004 19:06
   Bkg (0-18.6 keV) = 10.37 cpm
   Bkg (0-156 keV)  = 16.80 cpm
   C14 E^2/B (1-156 keV)   = 700.29
   H3  E^2/B (1-18.6 keV)  = 393.96
```

SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 22-Jun-2004 22:47
C14 Eff (0-156 keV) = 96.10 %
'4 CHI SQUARE IPA DATA PROCESSED - 22-Jun-2004 22:57
C14 Chi Square = 9.57
H3 IPA DATA PROCESSED - 22-Jun-2004 22:58
H3 Eff (0-18.6 keV) = 63.70 %
H3 CHI SQUARE IPA DATA PROCESSED - 22-Jun-2004 23:09
H3 Chi Square = 15.84
BKG IPA DATA PROCESSED - 23-Jun-2004 00:09
Bkg (0-18.6 keV) = 10.30 cpm
Bkg (0-156 keV) = 15.62 cpm
C14 E^2/B (1-156 keV) = 745.97
H3 E^2/B (1-18.6 keV) = 389.70

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 27-May-2004 14:59
   C14 Eff (0-156 keV) = 96.19 %
H3 IPA DATA PROCESSED - 27-May-2004 15:00
   H3 Eff (0-18.6 keV) = 63.97 %
BKG IPA DATA PROCESSED - 27-May-2004 16:01
   Bkg (0-18.6 keV) = 9.85 cpm
   Bkg (0-156 keV)  = 15.33 cpm
   C14 E^2/B (1-156 keV)   = 745.39
   H3  E^2/B (1-18.6 keV)  = 417.65
```

After Preventive Maintenance Visit

SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 26-May-2004 09:48
C14 Eff (0-156 keV) = 96.14 %
H3 IPA DATA PROCESSED - 26-May-2004 09:50
H3 Eff (0-18.6 keV) = 62.98 %
BKG IPA DATA PROCESSED - 26-May-2004 10:50
Bkg (0-18.6 keV) = 9.40 cpm
Bkg (0-156 keV) = 15.72 cpm
C14 E^2/B (1-156 keV) = 713.98
H3 E^2/B (1-18.6 keV) = 417.42

Prior to preventative maintenance visit

SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 12-May-2004 15:30
C14 Eff (0-156 keV) = 96.09 %
IPA DATA PROCESSED - 12-May-2004 15:32
H3 Eff (0-18.6 keV) = 63.07 %
BKG IPA DATA PROCESSED - 12-May-2004 16:32
Bkg (0-18.6 keV) = 10.32 cpm
Bkg (0-156 keV) = 16.37 cpm
C14 E^2/B (1-156 keV) = 708.88
H3 E^2/B (1-18.6 keV) = 386.73

SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 12-May-2004 09:10
C14 Eff (0-156 keV) = 96.22 %
IPA DATA PROCESSED - 12-May-2004 09:11
H3 Eff (0-18.6 keV) = 63.13 %
BKG IPA DATA PROCESSED - 12-May-2004 10:12
Bkg (0-18.6 keV) = 9.50 cpm
Bkg (0-156 keV) = 15.10 cpm
C14 E^2/B (1-156 keV) = 777.09
H3 E^2/B (1-18.6 keV) = 417.94

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 11-May-2004 06:56
   C14 Eff (0-156 keV) = 95.99 %
   IPA DATA PROCESSED - 11-May-2004 06:57
   H3 Eff (0-18.6 keV) = 63.38 %
BKG IPA DATA PROCESSED - 11-May-2004 07:57
   Bkg (0-18.6 keV) = 9.85 cpm
   Bkg (0-156 keV)  = 15.63 cpm
   C14 E^2/B (1-156 keV)    = 746.38
   H3  E^2/B (1-18.6 keV)   = 407.77
FRONT PIN JAM FWD
```

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 07-May-2004 05:59
   C14 Eff (0-156 keV) = 96.28 %
   IPA DATA PROCESSED - 07-May-2004 06:00
   H3 Eff (0-18.6 keV) = 63.44 %
BKG IPA DATA PROCESSED - 07-May-2004 07:01
   Bkg (0-18.6 keV) = 9.72 cpm
   Bkg (0-156 keV)  = 15.15 cpm
   C14 E^2/B (1-156 keV)   = 748.00
   H3  E^2/B (1-18.6 keV)  = 413.60
FRONT PIN JAM FWD
```

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 04-May-2004 12:31
   C14 Eff (0-156 keV) = 95.99 %
H3 IPA DATA PROCESSED - 04-May-2004 12:32
   H3 Eff (0-18.6 keV) = 63.42 %
BKG IPA DATA PROCESSED - 04-May-2004 13:33
   Bkg (0-18.6 keV) = 9.80 cpm
   Bkg (0-156 keV)  = 15.77 cpm
   C14 E^2/B (1-156 keV)   = 730.55
   H3  E^2/B (1-18.6 keV)  = 408.61
```

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 06-May-04 17:29
   C14 Eff (0-156 keV) = 96.24 %
C14 CHI SQUARE IPA DATA PROCESSED - 06-May-04 17:39
   C14 Chi Square = 10.44
H3 IPA DATA PROCESSED - 06-May-04 17:41
   H3 Eff (0-18.6 keV) = 63.72 %
WARNING: Questionable H3 Efficiency value - Please rerun quench curves
   & view historic data
H3 CHI SQUARE IPA DATA PROCESSED - 06-May-04 17:51
   H3 Chi Square = 21.03
BKG IPA DATA PROCESSED - 06-May-04 18:52
   Bkg (0-18.6 keV) = 11.62 cpm
   Bkg (0-156 keV)  = 16.85 cpm
   C14 E^2/B (1-156 keV)   = 709.63
   H3  E^2/B (1-18.6 keV)  = 352.23
```

SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 30-Apr-2004 14:53
C14 Eff (0-156 keV) = 96.10 %
IPA DATA PROCESSED - 30-Apr-2004 14:54
H3 Eff (0-18.6 keV) = 63.67 %
BKG IPA DATA PROCESSED - 30-Apr-2004 15:54
Bkg (0-18.6 keV) = 10.47 cpm
Bkg (0-156 keV) = 15.98 cpm
C14 E^2/B (1-156 keV) = 732.68
H3 E^2/B (1-18.6 keV) = 387.68

Packard A21CC
S.No. 414354

STEM NORMALIZED
C14 IPA DATA PROCESSED - 29-Apr-2004 11:59
C14 Eff (0-156 keV) = 96.20 %
C14 CHI SQUARE IPA DATA PROCESSED - 29-Apr-2004 12:09
C14 Chi Square = 19.89
H3 IPA DATA PROCESSED - 29-Apr-2004 12:10
H3 Eff (0-18.6 keV) = 63.39 %
H3 CHI SQUARE IPA DATA PROCESSED - 29-Apr-2004 12:21
H3 Chi Square = 23.73
BKG IPA DATA PROCESSED - 29-Apr-2004 13:21
Bkg (0-18.6 keV) = 9.75 cpm
Bkg (0-156 keV) = 15.88 cpm
C14 E^2/B (1-156 keV) = 724.82
H3 E^2/B (1-18.6 keV) = 414.21

Packard A2100
S.No. 414354

Standards Info: Cat. # 6008500

S.No. 32 (C-14) C-14 137,000 dpm ± 1.3% 20 Jan 97
S.No. 32 (H-3) H-3 268,900 dpm ± 1.6% 20 Jan 97

APPENDIX D

FSS Plan for VA Lakeside Campus

(Provided in Electronic Format on Accompanying Compact Disk)

APPENDIX E

Analytical Laboratory Results for Stack and Incinerator Samples

Lakeside Stack Wipes

Protocol #:26 Name:Decommissioning2 11-Oct-2004 16:12
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 3.00 QIP = tSIE/AEC ES Terminator = Count
VA Lakeside Campus Packard LSC A2100 SNo 414354
Conventional DPM
Nuclide 1 = 273850 Nuclide 2 = 127200
Luminescence Correction On

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	LUM	FLAG
1	10.00	7.08		11.85		7.10	66.603	584.	10	B
2	3.00	16375.7	240.90	114912.	133690.	690.04	166.11	1017	0	E
3	3.00	103097.	166179.	8544.01	0.00	3.23	20.513	1023	0	E
4	3.00	0.00	0.00	0.00	0.00	0.00	0.000	1010	46	E
(2 missing vials)										
7	3.00	0.00	0.00	0.00	0.00	1.57	0.000	526.	18	Floor 1
8	3.00	0.00	0.00	1.94	2.36	0.57	0.000	522.	16	Floor 2
9	3.00	0.00	0.00	0.00	0.00	2.90	0.000	433.	8	Floor 3
10	3.00	0.00	0.00	0.59	0.72	1.88	0.000	486.	11	Floor 4
11	3.00	0.00	0.00	0.00	0.00	0.57	0.000	484.	16	Floor 5
12	3.00	0.16	0.38	0.00	0.00	2.90	0.000	509.	15	East 1
13	3.00	0.00	0.00	0.00	0.00	2.90	0.000	461.	19	East 2
14	3.00	0.00	0.00	0.00	0.00	0.00	0.000	470.	13	East 3
15	3.00	0.00	0.00	0.00	0.00	0.57	0.000	486.	13	East 4
16	3.00	0.00	0.00	0.00	0.00	3.23	0.000	499.	4	East 5
17	3.00	0.00	0.00	0.00	0.00	2.23	0.000	544.	14	West 1
18	3.00	1.45	3.83	0.00	0.00	2.23	0.000	434.	8	West 2
19	3.00	0.00	0.00	0.00	0.00	0.00	0.000	502.	19	West 3
20	3.00	0.00	0.00	0.22	0.27	1.23	0.000	510.	16	West 4
21	3.00	1.24	2.78	0.53	0.48	0.90	0.000	505.	16	West 5
22	3.00	0.48	1.21	0.00	0.00	2.90	0.000	457.	8	North 1
23	3.00	0.72	1.73	0.00	0.00	3.23	0.000	497.	16	North 2
24	3.00	2.85	7.03	0.00	0.00	0.00	0.000	480.	16	North 3
25	3.00	2.80	6.67	0.00	0.00	1.90	0.000	508.	8	North 4
26	3.00	0.00	0.00	0.00	0.00	0.00	0.000	504.	22	North 5
27	3.00	0.00	0.00	0.00	0.00	0.00	0.000	466.	25	South 1
28	3.00	0.00	0.00	0.00	0.00	1.23	0.000	490.	12	South 2
29	3.00	0.58	1.37	0.00	0.00	1.57	0.000	510.	9	South 3
30	3.00	2.68	5.79	1.28	1.21	5.23	61.347	532.	6	South 4
31	3.00	0.00	0.00	0.00	0.00	0.00	0.000	507.	20	South 5
32	3.00	0.00	0.00	0.00	0.00	2.23	0.000	432.	15	West 7' Down
33	3.00	0.00	0.00	0.00	0.00	0.00	0.000	482.	7	West Top
34	3.00	0.00	0.00	0.83	1.01	0.00	0.000	540.	16	East 7' Down
35	3.00	0.00	0.00	0.00	0.00	1.90	0.000	524.	14	East Top
36	3.00	0.63	1.22	0.85	0.96	0.00	34.237	505.	14	South 7' Down
37	3.00	0.18	0.41	0.00	0.00	2.04	0.000	552.	9	South Top
38	3.00	0.00	0.00	0.00	0.00	1.90	0.000	489.	12	North 7' Down
39	3.00	0.00	0.00	0.00	0.00	2.23	0.000	498.	13	North Top

Base of Stack in Clean Area

Top of Stack

Samples collected
10/11/2004 by
Joe Weismann, Cabrera Services
Sangho Nam, RSSI
[signature], RSO

Tritium Analysis By Liquid Scintillation Sample Results Summary

Client Name: CABRERA SERVICES-NY
Client Project Name: VA Lakeside
Client Project Number: 04-3050.14/ Task 5

Laboratory Name: Paragon Analytics
PAI Work Order: 0410100

Reported on: Monday, November 15, 2004 12:57:26 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0410100-1	1-SB-10A-FD1	Sample	H-3	3.1 +/- 4.3	7.1	pCi/g	SOLID	3H041028-1	11/2/2004	U
0410100-2	1-SB-10A-FD2	Sample	H-3	98 +/- 16	7	pCi/g	SOLID	3H041028-1	11/2/2004	
0410100-3	ST- 1	Sample	H-3	-11.1 +/- 5.4	8.7	pCi/g	SOLID	3H041028-1	11/2/2004	U
0410100-4	ST- 2	Sample	H-3	-5.0 +/- 5.1	8.5	pCi/g	SOLID	3H041028-1	11/2/2004	U
0410100-5	ST- 3	Sample	H-3	-8.1 +/- 5.1	8.4	pCi/g	SOLID	3H041028-1	11/3/2004	U
0410100-6	ST- 4	Sample	H-3	-3.2 +/- 4.7	7.9	pCi/g	SOLID	3H041028-1	11/3/2004	U
0410100-7	ST- 5	Sample	H-3	-7.9 +/- 5.3	8.7	pCi/g	SOLID	3H041028-1	11/3/2004	U
0410100-8	ST- 6	Sample	H-3	-6.0 +/- 5.2	8.6	pCi/g	SOLID	3H041028-1	11/3/2004	U
0410100-9	ST- 7	Sample	H-3	-8.3 +/- 4.9	8.1	pCi/g	SOLID	3H041028-1	11/6/2004	U

Comments:

Data Package ID: *h3w0410100-1*

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - *Total Propagated Uncertainty* (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Tritium Analysis By Liquid Scintillation Sample Results Summary

Client Name: CABRERA SERVICES-NY
Client Project Name: VA Lakeside
Client Project Number: 04-3050.14/ Task 5

Laboratory Name: Paragon Analytics
PAI Work Order: 0410100

Reported on: Monday, November 15, 2004 12:57:26 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0410100-10	ST- 8	Sample	H-3	-6.8 +/- 4.5	7.4	pCi/g	SOLID	3H041028-1	11/4/2004	U
0410100-11	INC-1	Sample	H-3	-10.7 +/- 5.3	8.6	pCi/g	SOLID	3H041028-1	11/4/2004	U
0410100-12	INC-2	Sample	H-3	-9.7 +/- 4.9	8.0	pCi/g	SOLID	3H041028-1	11/4/2004	U
0410100-13	INC-3	Sample	H-3	-20.4 +/- 6.9	10.7	pCi/g	SOLID	3H041028-1	11/5/2004	U,M
0410100-14	INC-4	Sample	H-3	-6.7 +/- 4.5	7.4	pCi/g	SOLID	3H041028-1	11/5/2004	U

Comments:

Data Package ID: *h3w0410100-1*

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. *Quantitative Yield is assumed.*

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations.

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

2005

Carbon-14 by Liquid Scintillation Sample Results Summary

Client Name: CABRERA SERVICES-NY
Client Project Name: VA Lakeside
Client Project Number: 04-3050.14/ Task 5

Laboratory Name: Paragon Analytics
PAI Work Order: 0410100

Reported on: Monday, November 08, 2004 2:35:59 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0410100-1	1-SB-10A-FD1	Sample	C-14	1.5 +/- 2.8	4.6	pCi/g	SOLID	C_041028-1	11/3/2004	U
0410100-2	1-SB-10A-FD2	Sample	C-14	2.4 +/- 2.9	4.7	pCi/g	SOLID	C_041028-1	11/3/2004	U
0410100-3	ST- 1	Sample	C-14	3.0 +/- 2.8	4.5	pCi/g	SOLID	C_041028-1	11/3/2004	U
0410100-4	ST- 2	Sample	C-14	-0.5 +/- 2.7	4.5	pCi/g	SOLID	C_041028-1	11/3/2004	U
0410100-5	ST- 3	Sample	C-14	1.5 +/- 2.8	4.6	pCi/g	SOLID	C_041028-1	11/3/2004	U
0410100-6	ST- 4	Sample	C-14	2.0 +/- 2.8	4.6	pCi/g	SOLID	C_041028-1	11/3/2004	U
0410100-7	ST- 5	Sample	C-14	0.2 +/- 2.8	4.7	pCi/g	SOLID	C_041028-1	11/4/2004	U
0410100-8	ST- 6	Sample	C-14	2.8 +/- 2.9	4.6	pCi/g	SOLID	C_041028-1	11/4/2004	U
0410100-9	ST- 7	Sample	C-14	1.8 +/- 2.8	4.7	pCi/g	SOLID	C_041028-1	11/4/2004	U

Comments:

Data Package ID: *c140410100-1*

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

003

Carbon-14 by Liquid Scintillation Sample Results Summary

Client Name: CABRERA SERVICES-NY
Client Project Name: VA Lakeside
Client Project Number: 04-3050.14/ Task 5

Laboratory Name: Paragon Analytics
PAI Work Order: 0410100

Reported on: Monday, November 08, 2004 2:35:59 PM

Lab Sample ID	Client Sample ID	Sample Type	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0410100-10	ST- 8	Sample	C-14	0.4 +/- 1.4	2.3	pCi/g	SOLID	C_041028-1	11/4/2004	U
0410100-11	INC-1	Sample	C-14	1.1 +/- 1.4	2.3	pCi/g	SOLID	C_041028-1	11/4/2004	U
0410100-12	INC-2	Sample	C-14	1.1 +/- 1.4	2.3	pCi/g	SOLID	C_041028-1	11/4/2004	U
0410100-13	INC-3	Sample	C-14	0.7 +/- 1.4	2.3	pCi/g	SOLID	C_041028-1	11/5/2004	U
0410100-14	INC-4	Sample	C-14	1.4 +/- 1.5	2.4	pCi/g	SOLID	C_041028-1	11/5/2004	U

Comments:

Data Package ID: *c140410100-1*

Qualifiers/Flags:

U - Result is less than the sample specific MDC.

LT - Result is less than Requested MDC, greater than sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 1-SB-10A-FD1
Lab ID: 0410100-1

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 10-Aug-04
Date Prepared: 29-Oct-04
Date Analyzed: 05-Nov-04

Prep Batch: GS041029-2
QCBatchID: GS041029-2-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 3.45 g
Prep Basis: Dry Weight
Moisture(%): 49.300
Result Units: pCi/g
File Name: 041862D02D

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0 +/- 2.1	3.8	U
13966-02-4	Be-7	-1.0 +/- 8.3	15.2	U
14913-49-6	Bi-212	1.2 +/- 3.0	5.3	U
14733-03-0	Bi-214	1.0 +/- 1.0	1.7	U,J
10198-40-0	Co-60	-0.13 +/- 0.41	0.84	U
10045-97-3	Cs-137	0.14 +/- 0.37	0.65	U
13966-00-2	K-40	7.4 +/- 8.3	13.4	U
15100-28-4	Pa-234m	-59 +/- 68	133	U
15092-94-1	Pb-212	-0.12 +/- 0.72	1.26	U
15067-28-4	Pb-214	-0.04 +/- 0.93	1.62	U,J
13982-63-3	Ra-226	4.4 +/- 8.0	13.4	U
15065-10-8	Th-234	8 +/- 13	21	U
14913-50-9	Tl-208	0.12 +/- 0.53	0.91	U
15117-96-1	U-235	0.2 +/- 1.9	3.3	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - *Chemical Yield is in control at 100-110%. Quantitative Yield is assumed*

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC

M - The requested MDC was not met

SQ - Spectral quality prevents accurate quantitation

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

110116

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Duplicate Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 1-SB-10A-FD1
Lab ID: 0410100-1DUP

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 10-Aug-04
Date Prepared: 29-Oct-04
Date Analyzed: 08-Nov-04

Prep Batch: GS041029-2
QCBatchID: GS041029-2-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 3.45 g
Prep Basis: Dry Weight
Moisture(%): 49.300
Result Units: pCi/g
File Name: 041673D10B

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	1.9 +/- 1.6	2.5	U
13966-02-4	Be-7	-4.3 +/- 8.6	15.2	U
14913-49-6	Bi-212	1.5 +/- 3.7	6.2	U
14733-03-0	Bi-214	1.5 +/- 1.4	2.2	U,J
10198-40-0	Co-60	-0.14 +/- 0.47	0.84	U
10045-97-3	Cs-137	-0.23 +/- 0.41	0.72	U
13966-00-2	K-40	9.3 +/- 7.4	11.7	U
15100-28-4	Pa-234m	-16 +/- 51	91	U
15092-94-1	Pb-212	-0.07 +/- 0.59	1.01	U
15067-28-4	Pb-214	-0.1 +/- 1.1	1.9	U,J
13982-63-3	Ra-226	0.7 +/- 7.2	12.0	U
15065-10-8	Th-234	0 +/- 10	18	U
14913-50-9	Tl-208	-0.07 +/- 0.40	0.69	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M - The requested MDC was not met.
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.
W - DER is greater than Warning Limit of 1.42
D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative
R - Nuclide has exceeded 8 halflives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:
TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Duplicate Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 1-SB-10A-FD1
Lab ID: 0410100-1DUP

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 10-Aug-04
Date Prepared: 29-Oct-04
Date Analyzed: 08-Nov-04

Prep Batch: GS041029-2
QCBatchID: GS041029-2-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 3.45 g
Prep Basis: Dry Weight
Moisture(%): 49.300
Result Units: pCi/g
File Name: 041673D10B

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15117-96-1	U-235	0.8 +/- 1.8	3.0	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits

LT - Result is less than Requested MDC, greater than sample specific MDC.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

11U018

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: 1-SB-10A-FD2
Lab ID: 0410100-2

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 10-Aug-04
Date Prepared: 29-Oct-04
Date Analyzed: 05-Nov-04

Prep Batch: GS041029-2
QCBatchID: GS041029-2-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 0.660 g
Prep Basis: Dry Weight
Moisture(%): 79.400
Result Units: pCi/g
File Name: 041665D10B

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.5 +/- 3.2	5.5	U
13966-02-4	Be-7	-5 +/- 19	32	U
14913-49-6	Bi-212	2.6 +/- 8.1	13.7	U
14733-03-0	Bi-214	-1.1 +/- 2.9	4.9	U,J
10198-40-0	Co-60	-0.4 +/- 1.0	1.9	U
10045-97-3	Cs-137	-0.44 +/- 0.87	1.55	U
13966-00-2	K-40	29 +/- 16	24	
15100-28-4	Pa-234m	10 +/- 120	210	U
15092-94-1	Pb-212	0.1 +/- 1.4	2.3	U
15067-28-4	Pb-214	-0.9 +/- 2.3	3.9	U,J
13982-63-3	Ra-226	4 +/- 15	24	U
15065-10-8	Th-234	-14 +/- 23	39	U
14913-50-9	Tl-208	0.2 +/- 1.0	1.7	U
15117-96-1	U-235	1.7 +/- 3.2	7.3	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

000019

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST- 1
Lab ID: 0410100-3

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 01-Nov-04

Prep Batch: GS041029-3
QCBatchID: GS041029-3-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 199 g
Prep Basis: As Received
Moisture(%): 2.500
Result Units: pCi/g
File Name: 040943D06A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.55 +/- 0.18	0.37	G
13966-02-4	Be-7	-0.17 +/- 0.43	0.79	U,G
14913-49-6	Bi-212	0.56 +/- 0.43	0.66	U,G
14733-03-0	Bi-214	1.10 +/- 0.21	0.22	G,J
10198-40-0	Co-60	0.017 +/- 0.043	0.076	U,G
10045-97-3	Cs-137	0.137 +/- 0.068	0.097	G
13966-00-2	K-40	7.2 +/- 1.5	1.3	G
15100-28-4	Pa-234m	0 +/- 5.9	10.6	U,G
15092-94-1	Pb-212	0.90 +/- 0.16	0.15	G
15067-28-4	Pb-214	1.17 +/- 0.19	0.17	G,J
13982-63-3	Ra-226	0.9 +/- 1.4	2.3	U,G
15065-10-8	Th-234	3.2 +/- 4.3	7.0	U,G
14913-50-9	Tl-208	0.254 +/- 0.081	0.100	G
15117-96-1	U-235	-0.09 +/- 0.26	0.46	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: *GSS0410100-1*

000020

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST- 2
Lab ID: 0410100-4

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 01-Nov-04

Prep Batch: GS041029-3
QCBatchID: GS041029-3-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 189 g
Prep Basis: As Received
Moisture(%): 2.600
Result Units: pCi/g
File Name: 041823D03A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.55 +/- 0.14	0.26	G
13966-02-4	Be-7	0.04 +/- 0.33	0.56	U,G
14913-49-6	Bi-212	0.12 +/- 0.30	0.50	U,G
14733-03-0	Bi-214	0.89 +/- 0.15	0.16	G,J
10198-40-0	Co-60	-0.006 +/- 0.034	0.061	U,G
10045-97-3	Cs-137	0.102 +/- 0.044	0.063	G
13966-00-2	K-40	6.1 +/- 1.1	0.9	G
15100-28-4	Pa-234m	-0.5 +/- 4.0	7.0	U,G
15092-94-1	Pb-212	0.70 +/- 0.13	0.13	G
15067-28-4	Pb-214	0.92 +/- 0.14	0.14	G,J
13982-63-3	Ra-226	0.5 +/- 1.1	1.9	U,G
15065-10-8	Th-234	-0.9 +/- 2.2	3.6	U,G
14913-50-9	Tl-208	0.186 +/- 0.055	0.073	G
15117-96-1	U-235	-0.08 +/- 0.21	0.35	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110% Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

001021

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Duplicate Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST-2
Lab ID: 0410100-4DUP

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-3
QCBatchID: GS041029-3-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 189 g
Prep Basis: As Received
Moisture(%): 2.600
Result Units: pCi/g
File Name: 040947D06A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.57 +/- 0.21	0.45	G
13966-02-4	Be-7	0.05 +/- 0.46	0.80	U,G
14913-49-6	Bi-212	0.46 +/- 0.32	0.47	U,G
14733-03-0	Bi-214	0.89 +/- 0.19	0.22	G,J
10198-40-0	Co-60	-0.029 +/- 0.049	0.099	U,G
10045-97-3	Cs-137	0.089 +/- 0.049	0.068	G
13966-00-2	K-40	6.4 +/- 1.5	1.3	G
15100-28-4	Pa-234m	2.3 +/- 5.0	8.7	U,G
15092-94-1	Pb-212	0.63 +/- 0.14	0.15	G
15067-28-4	Pb-214	0.92 +/- 0.17	0.19	G,J
13982-63-3	Ra-226	0.6 +/- 1.4	2.4	U,G
15065-10-8	Th-234	2.1 +/- 4.4	7.4	U,G
14913-50-9	Tl-208	0.249 +/- 0.080	0.098	G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC
M - The requested MDC was not met.
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.
W - DER is greater than Warning Limit of 1.42
D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halflives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Duplicate Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST-2
Lab ID: 0410100-4DUP

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-3
QCBatchID: GS041029-3-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 189 g
Prep Basis: As Received
Moisture(%): 2.600
Result Units: pCi/g
File Name: 040947D06A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15117-96-1	U-235	0.23 +/- 0.24	0.39	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC
M - The requested MDC was not met
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC
W - DER is greater then Warning Limit of 1.42
D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halflives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see *PAI SOP 709*)
BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST- 3
Lab ID: 0410100-5

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 01-Nov-04

Prep Batch: GS041029-3
QCBatchID: GS041029-3-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 185 g
Prep Basis: As Received
Moisture(%): 2.600
Result Units: pCi/g
File Name: 041860D08A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.49 +/- 0.23	0.45	G,TI
13966-02-4	Be-7	0.17 +/- 0.49	0.83	U,G
14913-49-6	Bi-212	0.48 +/- 0.39	0.60	U,G
14733-03-0	Bi-214	0.66 +/- 0.18	0.21	G,J
10198-40-0	Co-60	0.041 +/- 0.056	0.092	U,G
10045-97-3	Cs-137	0.104 +/- 0.060	0.088	G
13966-00-2	K-40	8.4 +/- 1.6	1.2	G
15100-28-4	Pa-234m	6.3 +/- 6.6	10.5	U,G
15092-94-1	Pb-212	0.59 +/- 0.13	0.14	G
15067-28-4	Pb-214	0.72 +/- 0.15	0.18	G,J
13982-63-3	Ra-226	1.1 +/- 1.0	1.6	U,G
15065-10-8	Th-234	0.08 +/- 0.87	1.47	U,G
14913-50-9	Tl-208	0.156 +/- 0.071	0.099	G
15117-96-1	U-235	0.13 +/- 0.18	0.29	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. *Quantitative Yield is assumed.*

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST-4
Lab ID: 0410100-6

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 01-Nov-04

Prep Batch: GS041029-3
QCBatchID: GS041029-3-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 209 g
Prep Basis: As Received
Moisture(%): 3.000
Result Units: pCi/g
File Name: 041637D10A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.66 +/- 0.14	0.24	G
13966-02-4	Be-7	-0.19 +/- 0.32	0.56	U,G
14913-49-6	Bi-212	0.36 +/- 0.31	0.50	U,G
14733-03-0	Bi-214	0.65 +/- 0.13	0.18	G,J
10198-40-0	Co-60	0.007 +/- 0.033	0.057	U,G
10045-97-3	Cs-137	0.148 +/- 0.042	0.054	G
13966-00-2	K-40	9.3 +/- 1.3	0.8	G
15100-28-4	Pa-234m	1.1 +/- 4.4	7.5	U,G
15092-94-1	Pb-212	0.60 +/- 0.10	0.10	G
15067-28-4	Pb-214	0.88 +/- 0.14	0.17	G,J
13982-63-3	Ra-226	0.91 +/- 0.71	1.14	U,G
15065-10-8	Th-234	0.8 +/- 1.1	1.9	U,G
14913-50-9	Tl-208	0.198 +/- 0.052	0.065	G
15117-96-1	U-235	0.20 +/- 0.18	0.28	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 6 halflives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST- 5
Lab ID: 0410100-7

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 01-Nov-04

Prep Batch: GS041029-3
QCBatchID: GS041029-3-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 278 g
Prep Basis: As Received
Moisture(%): 2.700
Result Units: pCi/g
File Name: 040944D06A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.47 +/- 0.15	0.29	G
13966-02-4	Be-7	0.10 +/- 0.34	0.58	U,G
14913-49-6	Bi-212	0.32 +/- 0.29	0.47	U,G
14733-03-0	Bi-214	0.61 +/- 0.13	0.15	G,J
10198-40-0	Co-60	-0.003 +/- 0.037	0.068	U,G
10045-97-3	Cs-137	0.093 +/- 0.046	0.064	G
13966-00-2	K-40	9.2 +/- 1.6	1.0	G
15100-28-4	Pa-234m	0.5 +/- 3.9	7.1	U,G
15092-94-1	Pb-212	0.64 +/- 0.12	0.10	G
15067-28-4	Pb-214	0.82 +/- 0.14	0.13	G,J
13982-63-3	Ra-226	0.12 +/- 0.99	1.67	U,G
15065-10-8	Th-234	3.2 +/- 3.2	5.1	U,G
14913-50-9	Tl-208	0.198 +/- 0.058	0.068	G
15117-96-1	U-235	0.08 +/- 0.19	0.31	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST- 6
Lab ID: 0410100-8

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 66.8 g
Prep Basis: As Received
Moisture(%): 1.700
Result Units: pCi/g
File Name: 042633D01A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.69 +/- 0.25	0.54	G
13966-02-4	Be-7	-0.05 +/- 0.63	1.12	U,G
14913-49-6	Bi-212	0.27 +/- 0.63	1.07	U,G
14733-03-0	Bi-214	0.87 +/- 0.24	0.31	G,J
10198-40-0	Co-60	-0.119 +/- 0.098	0.203	U,G
10045-97-3	Cs-137	0.115 +/- 0.080	0.119	U,G
13966-00-2	K-40	2.1 +/- 1.5	2.3	U,G
15100-28-4	Pa-234m	5.4 +/- 9.8	16.7	U,G
15092-94-1	Pb-212	0.68 +/- 0.15	0.16	G
15067-28-4	Pb-214	0.97 +/- 0.19	0.22	G,J
13982-63-3	Ra-226	2.3 +/- 1.3	2.1	G,SI
15065-10-8	Th-234	1.8 +/- 3.5	5.8	U,G
14913-50-9	Tl-208	0.240 +/- 0.096	0.128	G
15117-96-1	U-235	-0.11 +/- 0.34	0.59	U,G

Comments:

Qualifiers/Flags:

U - *Result is less than the sample specific MDC or less than the associated TPU*

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

011027

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST-7
Lab ID: 0410100-9

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 94.0 g
Prep Basis: As Received
Moisture(%): 1.100
Result Units: pCi/g
File Name: 040948D06A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.62 +/- 0.18	0.37	
13966-02-4	Be-7	-0.27 +/- 0.41	0.78	U
14913-49-6	Bi-212	0.16 +/- 0.45	0.77	U
14733-03-0	Bi-214	0.63 +/- 0.17	0.21	J
10198-40-0	Co-60	0.016 +/- 0.042	0.074	U
10045-97-3	Cs-137	0.013 +/- 0.048	0.084	U
13966-00-2	K-40	3.7 +/- 1.2	1.4	
15100-28-4	Pa-234m	3.3 +/- 5.7	9.7	U
15092-94-1	Pb-212	0.71 +/- 0.14	0.13	
15067-28-4	Pb-214	0.72 +/- 0.14	0.18	J
13982-63-3	Ra-226	1.6 +/- 1.0	1.6	SI
15065-10-8	Th-234	-0.3 +/- 3.4	5.9	U
14913-50-9	Tl-208	0.271 +/- 0.078	0.094	
15117-96-1	U-235	0.20 +/- 0.22	0.36	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

11nn28

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST-8
Lab ID: 0410100-10

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 105 g
Prep Basis: As Received
Moisture(%): 0.400
Result Units: pCi/g
File Name: 040667D09A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.18 +/- 0.19	0.31	U
13966-02-4	Be-7	0.78 +/- 0.54	0.83	U
14913-49-6	Bi-212	0.19 +/- 0.30	0.51	U
14733-03-0	Bi-214	0.094 +/- 0.092	0.148	U,J
10198-40-0	Co-60	0.017 +/- 0.041	0.071	U
10045-97-3	Cs-137	0.114 +/- 0.055	0.079	
13966-00-2	K-40	3.27 +/- 0.94	1.03	
15100-28-4	Pa-234m	4.4 +/- 4.4	7.0	U
15092-94-1	Pb-212	0.134 +/- 0.070	0.105	
15067-28-4	Pb-214	0.155 +/- 0.069	0.116	J
13982-63-3	Ra-226	0.21 +/- 0.71	1.21	U
15065-10-8	Th-234	0.3 +/- 4.1	7.0	U
14913-50-9	Tl-208	0.028 +/- 0.039	0.065	U
15117-96-1	U-235	0.21 +/- 0.18	0.28	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed

Y2 - Chemical Yield outside default limits

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Duplicate Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST- 8
Lab ID: 0410100-10DUP

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 113 g
Prep Basis: As Received
Moisture(%): 0.400
Result Units: pCi/g
File Name: 041646D10A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.18 +/- 0.13	0.20	U
13966-02-4	Be-7	0.52 +/- 0.26	0.37	
14913-49-6	Bi-212	0.08 +/- 0.27	0.46	U
14733-03-0	Bi-214	0.12 +/- 0.10	0.16	U,J
10198-40-0	Co-60	-0.002 +/- 0.031	0.054	U
10045-97-3	Cs-137	0.066 +/- 0.027	0.038	
13966-00-2	K-40	4.37 +/- 0.82	0.79	
15100-28-4	Pa-234m	-0.5 +/- 3.7	6.4	U
15092-94-1	Pb-212	0.148 +/- 0.055	0.081	
15067-28-4	Pb-214	0.124 +/- 0.072	0.135	U,J
13982-63-3	Ra-226	0.57 +/- 0.55	0.89	U
15065-10-8	Th-234	-0.37 +/- 0.60	1.03	U
14913-50-9	Tl-208	0.041 +/- 0.034	0.054	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M - The requested MDC was not met.
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.
W - DER is greater than Warning Limit of 1.42
D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halflives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:
TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Duplicate Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: ST-8
Lab ID: 0410100-10DUP

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 113 g
Prep Basis: As Received
Moisture(%): 0.400
Result Units: pCi/g
File Name: 041646D10A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15117-96-1	U-235	0.09 +/- 0.15	0.25	U

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed
Y2 - Chemical Yield outside default limits.
LT - *Result is less than Requested MDC, greater than sample specific MDC.*
M - The requested MDC was not met.
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.
W - DER is greater than Warning Limit of 1.42
D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - *Nuclide has exceeded 8 halflives.*
G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - *Total Propagated Uncertainty* (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: INC-1
Lab ID: 0410100-11

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 48.9 g
Prep Basis: As Received
Moisture(%): 0.900
Result Units: pCi/g
File Name: 042634D01A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.62 +/- 0.38	0.83	U,G
13966-02-4	Be-7	-0.19 +/- 0.85	1.54	U,G
14913-49-6	Bi-212	0.74 +/- 0.83	1.34	U,G
14733-03-0	Bi-214	0.43 +/- 0.34	0.53	U,G,J
10198-40-0	Co-60	0.04 +/- 0.12	0.21	U,G
10045-97-3	Cs-137	-0.003 +/- 0.094	0.170	U,G
13966-00-2	K-40	8.7 +/- 2.9	3.5	G
15100-28-4	Pa-234m	-4 +/- 13	24	U,G
15092-94-1	Pb-212	0.49 +/- 0.17	0.23	G
15067-28-4	Pb-214	0.39 +/- 0.17	0.31	G,J
13982-63-3	Ra-226	0.8 +/- 1.6	2.6	U,G
15065-10-8	Th-234	2.9 +/- 4.5	7.4	U,G
14913-50-9	Tl-208	0.22 +/- 0.12	0.18	G
15117-96-1	U-235	0.07 +/- 0.45	0.77	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives

G - Sample density differs by more than 15% of LCS density.

Abbreviations

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: INC-2
Lab ID: 0410100-12

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Allquot: 38.1 g
Prep Basis: As Received
Moisture(%): 1.300
Result Units: pCi/g
File Name: 040949D06A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.88 +/- 0.42	0.93	U,G
13966-02-4	Be-7	-0.02 +/- 0.92	1.67	U,G
14913-49-6	Bi-212	1.51 +/- 0.96	1.39	G,TI
14733-03-0	Bi-214	0.40 +/- 0.34	0.54	U,G,J
10198-40-0	Co-60	-0.08 +/- 0.12	0.24	U,G
10045-97-3	Cs-137	0.12 +/- 0.12	0.19	U,G
13966-00-2	K-40	11.0 +/- 3.0	3.2	G
15100-28-4	Pa-234m	4 +/- 13	24	U,G
15092-94-1	Pb-212	0.94 +/- 0.24	0.28	G
15067-28-4	Pb-214	0.63 +/- 0.23	0.39	G,J
13982-63-3	Ra-226	0.2 +/- 2.0	3.4	U,G
15065-10-8	Th-234	3.3 +/- 7.6	12.7	U,G
14913-50-9	Tl-208	0.28 +/- 0.15	0.22	G
15117-96-1	U-235	0.49 +/- 0.47	0.75	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC *was not met, but the reported* activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: INC-3
Lab ID: 0410100-13

Library: CABRERA1

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 02-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 42.2 g
Prep Basis: As Received
Moisture(%): 3.600
Result Units: pCi/g
File Name: 041647D10A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.76 +/- 0.28	0.59	G
13966-02-4	Be-7	-0.55 +/- 0.70	1.25	U,G
14913-49-6	Bi-212	0.53 +/- 0.77	1.26	U,G
14733-03-0	Bi-214	0.36 +/- 0.27	0.43	U,G,J
10198-40-0	Co-60	0 +/- 0.078	0.136	U,G
10045-97-3	Cs-137	-0.002 +/- 0.081	0.139	U,G
13966-00-2	K-40	15.4 +/- 2.6	2.1	G
15100-28-4	Pa-234m	-1 +/- 10	17	U,G
15092-94-1	Pb-212	0.89 +/- 0.18	0.20	G
15067-28-4	Pb-214	0.45 +/- 0.20	0.37	G,J
13982-63-3	Ra-226	3.8 +/- 2.0	3.0	G,TI
15065-10-8	Th-234	-0.8 +/- 1.6	2.8	U,G
14913-50-9	Tl-208	0.24 +/- 0.10	0.14	G
15117-96-1	U-235	0.23 +/- 0.39	0.64	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0410100
Client Name: CABRERA SERVICES-NY
ClientProject ID: VA Lakeside 04-3050.14/ Task 5

Field ID: INC-4
Lab ID: 0410100-14

Sample Matrix: SOLID
Prep SOP: PAI 739 Rev 8
Date Collected: 11-Oct-04
Date Prepared: 29-Oct-04
Date Analyzed: 03-Nov-04

Prep Batch: GS041029-4
QCBatchID: GS041029-4-1
Run ID: GS041029-4A
Count Time: 120 minutes
Report Basis: As Received

Final Aliquot: 82.5 g
Prep Basis: As Received
Moisture(%): 0.800
Result Units: pCi/g
File Name: 040670D09A

Library: CABRERA1

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14331-83-0	Ac-228	0.54 +/- 0.21	0.38	G
13966-02-4	Be-7	0.08 +/- 0.46	0.80	U,G
14913-49-6	Bi-212	0.48 +/- 0.45	0.72	U,G
14733-03-0	Bi-214	0.41 +/- 0.17	0.24	G,J
10198-40-0	Co-60	0.040 +/- 0.056	0.092	U,G
10045-97-3	Cs-137	0.031 +/- 0.054	0.091	U,G
13966-00-2	K-40	8.4 +/- 1.7	1.5	G
15100-28-4	Pa-234m	-3.9 +/- 7.0	13.0	U,G
15092-94-1	Pb-212	0.59 +/- 0.13	0.15	G
15067-28-4	Pb-214	0.34 +/- 0.11	0.18	G,J
13982-63-3	Ra-226	0.2 +/- 1.1	1.9	U,G
15065-10-8	Th-234	2.5 +/- 5.6	9.4	U,G
14913-50-9	Tl-208	0.167 +/- 0.065	0.087	G
15117-96-1	U-235	-0.01 +/- 0.25	0.43	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

Data Package ID: *GSS0410100-1*

From Origin ID (501)257-1571
KELLY MAYO
VETERANS HEALTH ADMINISTRATION
2200 FORT ROOTS DR
B101 R208E
NORTH LITTLE ROCK, AR 72114

FedEx Express

CLS122904/06/10

Ship Date: 27APR05
Actual Wgt: 1 LB
System#: 5250401/INET2000
Account#: S *********

REF:

Delivery Address Bar Code

SHIP TO: (501)257-1571 **BILL SENDER**

Kevin Null
Nuclear Regulatory Commission
2443 Warrenville Rd
STE 210
Lisle, IL 605324352

STANDARD OVERNIGHT

THU
Deliver By
28APR05

TRK# 7929 0788 2045

FORM 0201

ORD A2

60532 -IL-US

XH ENLA

Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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