



September 1, 2006

Mr. Jamnes Cameron
Decommissioning Branch Chief
United States Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-3452

SCHOOL OF MEDICINE
NORTHWEST CAMPUS

Dear Mr. Cameron:

The enclosed materials refer to the closing and demolition of the Northwest Center for Medical Education (NWCME). Radioactive material use in that facility was covered under Materials License 13-18384-01.

The NWCME building was vacated in August 2004 and then demolished in October/November of that year. The replacement building was erected in two phases – the first phase adjacent to the original building and the second phase on the site of the demolished building. Almost all of the equipment and furniture used in the original building was transferred to the new facility. The new facility has the same address (3400 Broadway, Gary IN, 46408) as the original facility.

The old NWCME building was a single story facility with 13 rooms designated for use of radioactive material (the building plan is enclosed with this packet). The NWCME is a low-level user of radioisotopes. Total shipments of all radioactive materials received in 2004 (prior to the demolition the old NWCME building) were 250 μCi of P-32 and 1000 μCi of Ca-45. Total shipments of all radioactive materials received during the last 5 years prior to the demolition of the old building (2000-2004) were: 3 μCi of I-125, 5800 μCi of P-32, 2000 μCi of S-35, and 1000 μCi of Ca-45, which are the typical amounts of radioisotopes used during all the previous years of the license. The last shipments of radioisotopes with long half-life were 50 μCi of C-14 and 250 μCi of H-3 received on 2-13-1996 and 11-22-1999, respectively. Prior to the demolition of the old building, all radioisotopes were either disposed off (see below) or transferred to the new building.

As detailed in the enclosed materials, our efforts to safely vacate the original building entailed two parts. First, in September of 2003 we arranged a pick-up for all of our long half-life radioactive waste. No additional long-lived waste was generated between the time of the final pick-up and our vacating the building. Second, we extensively surveyed the old building after all the personnel and equipment had been transferred to the new facility, and before the demolition and construction crews entered the building. The survey found the old building to be entirely free of any contamination with radioactive materials. The building was considered non-radioactive, radioactivity warning signs were removed, and the building was demolished.

3400 Broadway
Gary, Indiana
46408-1197

219-980-6550
Fax: 219-980-6566

RECEIVED SEP 05 2006

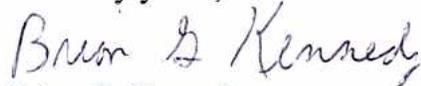
In summary, we had several meetings with University Administrators and University Safety staff during the planning phase for our move, in an attempt to ensure a safe transition into the new facility. In our conversation with Mr. LaFranzo, it became clear that we were unaware of regulation 30.36 and had failed to notify NRC. We regret this and hope that the enclosed materials paint a clear picture of our actions in vacating the NWCME.

We have attached copies of the following documents pertaining to the disposal of radioactive materials and surveys of our previous building:

1. Final Building Survey protocol and report by Radiation Safety Officer (2 pages)
2. Documentation of Radioactive Waste pickup (3 drums) (2 pages)
3. Floor plan of the old Northwest Center for Medical Education building showing rooms in which radioisotopes were used (1 page)
4. Copies of counts from the liquid scintillation counter from the Final Building Survey (10 pages)
5. Minutes of the October 3, 2003 Radiation Safety Committee Meeting and Radiation Safety Officer report documenting the disposal and pickup of radioactive waste from the old NWCME building (5 pages)
6. Minutes of the September 30, 2004 Radiation Safety Committee Meeting and Radiation Safety Officer report documenting the survey of the old NWCME building (3 pages)

If any further clarification is required, please do not hesitate to contact us.

Sincerely yours,



Brian G. Kennedy
Associate Professor
Radiation Safety Officer
219-980-6520
brkenned@iun.edu



Roman Dziarski
Professor
Chairman, Radiation Safety Committee
219-980-6535
rdziar@iun.edu

cc: Patrick Bankston, Ph.D., Assistant Dean and Director

Final Building Survey

Dates surveys performed: 6-5-2004, 9-14-2004, 9-15-2004, and 9-16-2004
Surveyed by: Brian G. Kennedy, Radiation Safety Officer

Background:

The Northwest Center for Medical Education was a single story building located at 3400 Broadway, Gary IN (floor plan for the building is included in the accompanying material). The building was vacated in August 2004 and demolished in October-November of that year. All activities were transferred from the old facility to a new building, which is adjacent to the original site and occupying the same address. Before vacating the building all long half-life radioactive waste was removed from the building (details below) and a survey for possible contamination was performed (see below). Surveys consisted of wipes analyzed by Liquid Scintillation Counting and direct measurements with a thin-window GM probe swept slowly at approximately one centimeter from the monitored surface.

Building Areas/Items Surveyed:

Cold Room (6-5-2004)

Oven; refrigerator (9-14-2004)

Isotope storage Room; Room 830 (9-15-2004)

Gamma counter (9-15-2004)

Rooms 220, 240, 250, 330, 340, 350, 360, 470, 711, 715, 730 (9-16-2004)

Instruments Employed for Survey

Liquid Scintillation Counter

Packard Model Tri-Carb 4000

Efficiencies : 3-H = 60 %

14-C = 94 %

Background = 9.8 CPM (n=6, SD =1.9) see enclosed printout

Radiation Survey Meter

Rad-monitor 9000 (thin-window GM)

Protocol:

The cold room was a stand alone unit that was dismantled before destruction of the building. It was surveyed on 6-5-2004. Wipe test results are shown on page 8. This room was transported and reassembled in the new building.

Two large pieces of equipment from one of the radioactive use labs were disposed of. A laboratory oven was scanned with the survey meter and wipe tests were taken from twelve areas. A refrigerator was similarly scanned and wipe tested in eight places.

All other rooms were surveyed on 9-15-2004 and 9-16-2004. Each room was swept with the survey meter and also wipe tested. For wipe testing, 20 individual areas were tested in each room. Areas sampled always included all the sinks, and several representative locations on the floors, cabinets and all bench surfaces. All samples were counted over the energy ranges of 0-19, 2-19 and 2-2000. Resultant counts are shown on attached pages 1-7.

An old Gamma counter was also disposed as trash. The counter did not contain an internal source. It was tested with the survey meter and 20 areas were examined by wipe test.

Results

1. No area was above background by Radiation monitor 9000 sweep
2. Approximately 270 wipe samples were taken overall
Two samples registered counts that were 3X higher than background.
The areas were cleaned and recounted. Recounts were at background (see attached page 7)

Waste pickup

All long half-life waste was removed from the building on 9-16-2003. The waste was consigned to Bionomics, Kingston TN (a copy of the uniform low-level radioactive waste manifest is enclosed). As noted on the form, the shipment included 354.8 MBq of total radioactive material, with 333 MBq of tritium and 21.8 MBq of C-14. We were notified by letter dated 10-3-2003 (copy enclosed) that Duratek had received the shipment. No long half-life waste was generated at our facility between the time of this pick-up and the closing of the building.

Release for unrestricted access

On 9-17-2004, after the surveys were completed, all "Caution-Radioactive Material" signs were removed from the building. At this time the building was opened for unrestricted access.

*Zionomics,
Inc.*

P.O. Box 817 — Kingston, TN 37763 — (865) 376-0053

October 3, 2003

Dear Customer,

As required by 10 CFR Part 20 (Appendix G), this letter is notification that Duratek has received the shipment recently picked up at your facility. Attached you will find a copy of your NRC 540 form, the only change from the original is in Item No. 9 "*signature*" which identifies that Duratek is acknowledging receipt of waste from your facility.

Please keep this with your original as well as future disposal certifications.

If you have any questions please feel free to contact me at (865) 376-0053.

Sincerely,



Mia Hammonds
Adm. Assistant

Cc: File

APPROVED / EXPI: 07/31/2004
 NB: NO. 3150-0166

Estimated burden per response to comply with this information collection requirement is 15 minutes. This information collection is required for the safe transportation and disposal of low-level radioactive waste. For more information, contact the Office of Management and Budget, Paperwork Project Manager, Washington, DC 20503. If a means used to impose an information collection burden is not required to respond to the information collection, it should not be collected. Do not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies. This information collection is required for the safe transportation and disposal of low-level radioactive waste. For more information, contact the Office of Management and Budget, Paperwork Project Manager, Washington, DC 20503. If a means used to impose an information collection burden is not required to respond to the information collection, it should not be collected. Do not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

For the safe transportation and disposal of low-level radioactive waste, information and Regulatory Affairs, NEOB-10202, (3150-01)

Comments regarding burden of this information collection should be sent to the Office of Management and Budget, Paperwork Project Manager, Washington, DC 20503.

NRC FORM 541
(7-2001)

U.S. NUCLEAR REGULATORY COMMISSION

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST
CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS							2. MANIFEST NUMBER 09110072-H	
NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME (m ³)	NET WASTE WEIGHT (kg)	SPECIAL NUCLEAR MATERIAL (grams)				TOTAL	PAGE 1 OF 1 PAGE(S)
			U-233	U-235	Pu			
1	0.21	90	0	0	0	0		
ACTIVITY (MBq)							SOURCE (kg)	SHIPPER I.D. NUMBER
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129			
3-4.8		333.0	21.8	0	0	0		

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER						18. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m ³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL <input type="checkbox"/> (µSv/hr) <input checked="" type="checkbox"/> (mSv/hr)	10. SURFACE CONTAMINATION MBq/100cm ² ALPHA BETA-GAMMA	11. WASTE DESCRIPTION (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER	13. SORBENT SOLIDIFICATION, STABILIZATION, MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT	
41	4	0.21	90	40001	13.3e-3 21.8e-3	39	> 85%	none	SOLID/NOX/NO	NP	H ₂ = 233.0 C14 = 21.8 TOTAL = 254.8	HU

NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks, the numerical code must be followed by "OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

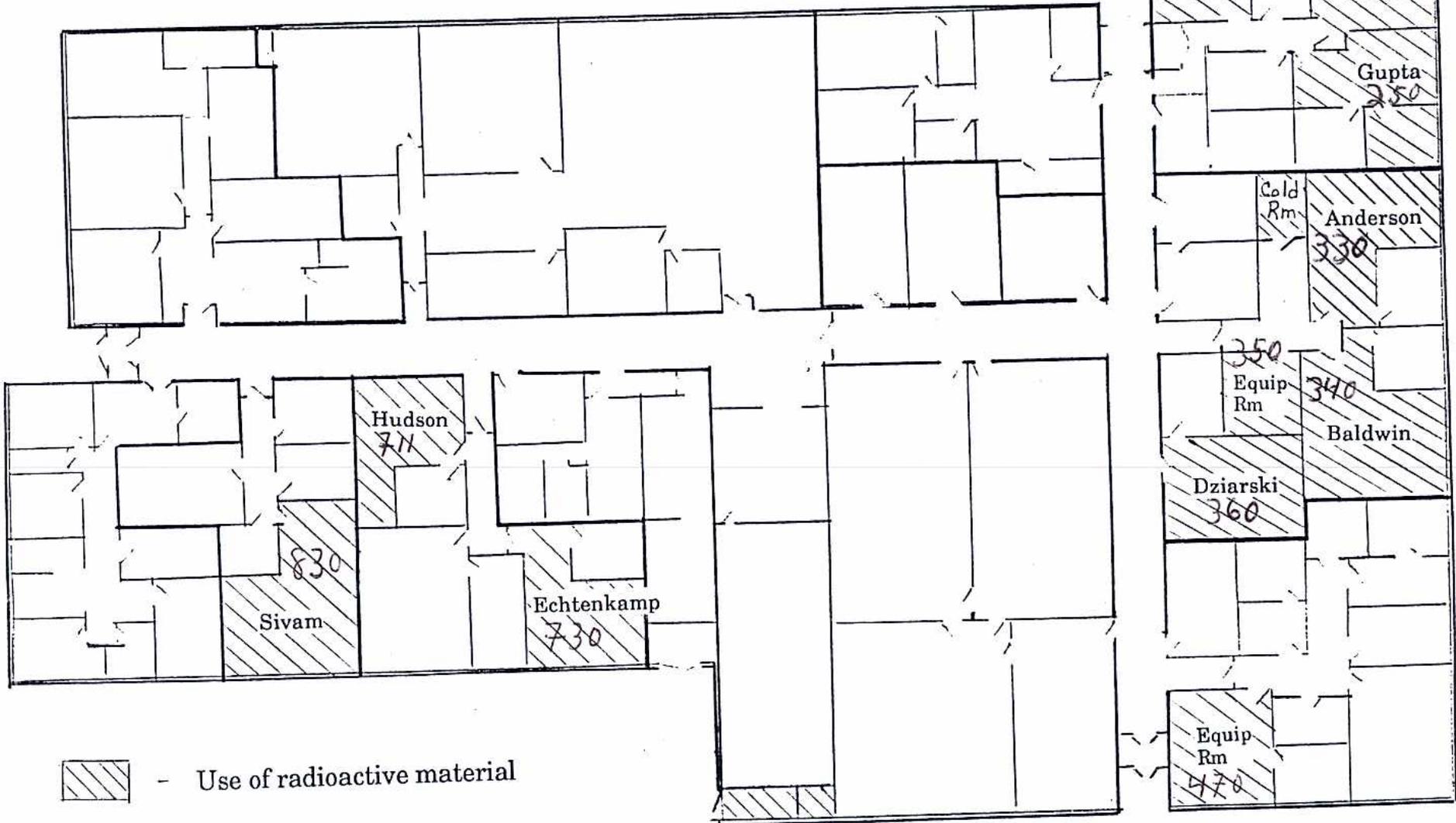
20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

NOTE 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "S." For all solidification media, the vendor (manufacturer) and brand name must also be identified in item 13. Code 100=NONE REQUIRED.

Sorption	64. Safe T Sorb	69. Chemsil 30	74. Petroset	89. Other. Describe in item 13, or additional page	94. Vinyl Ester Styrene
60. Speedi Dri	65. Safe N Dri	70. Chemsil 50	75. Petroset II	91. Concrete (encapsulation)	99. Other. Describe in item 13, or additional page
61. Celetom	66. Florco	71. Chemsil 3030	76. Aquaset	92. Bitumen	100. None Required
62. Floor Dry/ Superfine	67. Florco X	72. Dicapel HP200	77. Aquaset II	93. Vinyl Chloride	
63. Hi Dri	68. Solid A Sorb	73. Dicapel HP500			

Northwest Center for Medical Education
Indiana University School of Medicine
3400 Broadway, Gary, Indiana

N ↑



↑
Radioactive waste
storage room

PROGRAM #= 13
 REGION A: LL-UL= 0- 25 LCR= 0 BKG= .00 % 2 SIGMA=
 REGION B: LL-UL= 4- 156 LCR= 0 BKG= .00 % 2 SIGMA=
 REGION C: LL-UL= 5-2000 LCR= 0 BKG= .00 % 2 SIGMA=
 TIME= 2.00 K= 1.000 QIP=SIG

23/01/00

Gamma Counter

P#	S#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIE	SIS
13	1	2.00	11.00	42.6	17.50	33.8	22.50	29.8	.000	12.591
13	2	2.00	14.50	37.1	21.50	30.5	25.50	28.0	.000	16.640
13	3	2.00	12.50	40.0	17.00	34.3	22.50	29.8	.000	16.615
13	4	2.00	10.50	43.6	16.00	35.3	21.00	30.8	.000	13.018
13	5	2.00	10.00	44.7	18.00	33.3	20.00	31.6	.000	14.248
13	6	2.00	9.00	47.1	15.50	35.9	18.50	32.8	.000	9.768
13	7	2.00	10.50	43.6	16.50	34.8	20.00	31.6	.000	13.309
13	8	2.00	12.00	40.8	17.00	34.3	20.50	31.2	.000	15.936
13	9	2.00	9.00	47.1	16.00	35.3	22.00	30.1	.000	10.611
10	10	2.00	83.00	15.5	52.50	17.5	48.50	20.3	.000	19.498
13	11	2.00	8.00	50.0	17.00	34.3	18.50	32.8	.000	12.047
13	12	2.00	12.50	40.0	17.50	33.8	23.00	29.4	.000	17.292
13	13	2.00	12.50	40.0	19.00	32.4	23.50	29.1	.000	15.631
13	14	2.00	12.50	40.0	22.50	29.8	26.00	27.7	.000	14.462
13	15	2.00	8.50	48.5	15.50	35.9	18.50	32.8	.000	14.489
13	16	2.00	11.50	41.7	25.50	28.0	31.00	25.4	.000	15.133
13	17	2.00	11.50	41.7	19.50	32.0	23.50	29.1	.000	14.600
13	18	2.00	8.00	50.0	13.00	39.2	17.50	33.8	.000	10.200
13	19	2.00	16.00	35.3	24.00	28.8	28.50	26.4	.000	14.982
13	20	2.00	15.00	36.5	15.50	35.9	15.00	36.5	.000	16.206
13	21	2.00	11.00	42.6	17.50	33.8	22.00	30.1	.000	15.443
13	22	2.00	12.00	40.8	20.00	31.6	26.00	27.7	.000	13.120
13	23	2.00	15.50	35.9	19.50	32.0	24.50	28.5	.000	15.200
13	24	2.00	10.50	43.6	16.00	35.3	19.00	32.4	.000	14.182
13	25	2.00	12.50	40.0	21.50	30.5	26.00	27.7	.000	20.062
13	26	2.00	17.00	34.3	23.50	29.1	27.50	26.9	.000	18.533
13	27	2.00	8.00	50.0	10.00	44.7	14.00	37.8	.000	10.200
13	28	2.00	11.00	42.6	20.00	31.6	28.00	26.7	.000	17.044
13	29	2.00	12.00	40.8	16.50	34.8	20.00	31.6	.000	12.736
13	30	2.00	13.50	38.4	22.00	30.1	27.00	27.2	.000	16.400
13	31	2.00	11.50	41.7	17.50	33.8	22.00	30.1	.000	19.600
13	32	2.00	8.00	50.0	17.00	34.3	22.00	30.1	.000	11.400
13	33	2.00	13.00	39.2	18.50	32.8	21.50	30.5	.000	13.096
13	34	2.00	6.50	55.4	14.50	37.1	17.50	33.8	.000	7.754
13	35	2.00	8.00	50.0	14.50	37.1	19.00	32.4	.000	12.100
13	36	2.00	14.50	37.1	15.00	35.3	21.00	30.8	.000	18.027
13	37	2.00	14.50	37.1	17.00	34.3	21.00	30.8	.000	17.173
13	38	2.00	8.50	48.5	13.00	39.2	18.00	33.3	.000	15.289
13	39	2.00	8.50	48.5	16.50	34.8	18.50	32.8	.000	11.644
13	40	2.00	14.00	37.8	20.00	31.6	21.00	30.8	.000	16.538
13	41	2.00	6.50	55.4	16.50	34.8	21.00	30.8	.000	11.692
13	42	2.00	14.50	37.1	23.00	29.4	31.50	25.2	.000	14.827
13	43	2.00	11.00	42.6	18.00	33.3	23.50	29.1	.000	13.565
13	44	2.00	7.50	51.6	11.00	42.6	16.00	35.3	.000	8.533
13	45	2.00	8.50	48.5	16.00	35.3	20.00	31.6	.000	13.778
13	46	2.00	8.00	50.0	22.00	30.1	23.00	29.4	.000	15.247
13	47	2.00	9.00	47.1	14.00	37.8	16.50	34.8	.000	12.968
13	48	2.00	11.00	42.6	18.50	32.8	21.50	30.5	.000	12.939
13	49	2.00	9.50	45.8	16.50	34.8	19.00	32.4	.000	14.000
13	50	2.00	11.00	42.6	16.50	34.8	20.50	31.2	.000	14.887

Gamma Counter

Isotope Storage Room

Room 830

Equipment Room 350

Room 360

9-16-4 #1

24/01/00 1

PROGRAM # = 13
 REGION A: LL-UL = 0- 25 LCR = 0 BKB = .00 % 2 SIGMA =
 REGION B: LL-UL = 4- 156 LCR = 0 BKB = .00 % 2 SIGMA =
 REGION C: LL-UL = 5-2000 LCR = 0 BKB = .00 % 2 SIGMA =
 TIME = 2.00 K = 1.000 QIP = SIS

- WATER Run

P#	S#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIG	SIG F
13	1	2.00	12.50	40.0	20.00	31.6	23.50	29.1	.000	19.754
13	2	2.00	10.50	43.6	16.00	35.3	19.50	32.0	.000	11.418
13	3	2.00	17.50	33.8	15.50	35.9	19.50	32.0	.000	12.238
13	4	2.00	11.50	41.7	17.00	34.3	20.50	31.2	.000	16.733
13	5	2.00	12.00	40.8	17.50	33.8	21.00	30.8	.000	13.440
13	6	2.00	15.50	35.9	17.00	34.3	20.00	31.6	.000	12.500
13	7	2.00	8.00	50.0	13.50	38.4	16.00	35.3	.000	11.200
13	8	2.00	11.50	41.7	15.50	35.9	21.50	30.5	.000	12.467
13	9	2.00	10.00	44.7	17.00	34.3	18.00	33.3	.000	12.343
13	10	2.00	8.00	50.0	17.00	34.3	20.00	31.6	.000	11.900
13	11	2.00	7.00	53.4	16.00	35.3	22.00	30.1	.000	10.514
13	12	2.00	7.50	51.6	14.50	37.1	18.50	32.8	.000	10.240
13	13	2.00	7.00	53.4	15.50	35.9	22.50	29.8	.000	10.286
13	14	2.00	9.50	45.8	16.00	35.3	20.00	31.6	.000	15.040
13	15	2.00	5.50	60.3	15.00	36.5	18.50	32.8	.000	11.345
13	16	2.00	12.00	40.8	19.00	32.4	22.50	29.8	.000	12.736
13	17	2.00	8.00	50.0	15.50	35.9	18.50	32.8	.000	14.118
13	18	2.00	12.00	40.8	19.00	32.4	23.50	29.1	.000	18.496
13	19	2.00	10.00	44.7	14.00	37.8	20.50	31.2	.000	10.895
13	20	2.00	11.50	41.7	16.50	34.8	19.50	32.0	.000	17.533
- DRAIN										
13	21	2.00	9.50	45.8	15.50	35.9	17.50	33.8	.000	15.680
13	22	2.00	9.00	47.1	16.00	35.3	22.00	30.1	.000	13.811
13	23	2.00	10.00	44.7	19.00	32.4	22.00	30.1	.000	14.781
13	24	2.00	10.50	43.6	20.00	31.6	29.50	26.0	.000	16.727
13	25	2.00	8.50	48.5	15.00	36.5	20.00	31.6	.000	13.422
13	26	2.00	4.50	66.6	9.00	47.1	12.50	40.0	.000	6.756
13	27	2.00	8.00	50.0	15.50	35.9	20.00	31.6	.000	10.541
13	28	2.00	9.00	47.1	16.00	35.3	19.50	32.0	.000	10.442
13	29	2.00	12.00	40.8	16.50	34.8	21.50	30.5	.000	12.864
13	30	2.00	9.00	47.1	14.00	37.8	16.00	35.3	.000	12.295
13	31	2.00	8.00	50.0	16.00	35.3	20.50	31.2	.000	13.000
13	32	2.00	9.00	47.1	16.50	34.8	21.00	30.8	.000	10.021
13	33	2.00	9.00	47.1	13.00	39.2	15.00	36.5	.000	12.295
13	34	2.00	10.50	43.6	18.50	32.8	18.50	32.8	.000	14.545
13	35	2.00	6.50	55.4	14.50	37.1	18.00	33.3	.000	11.815
13	36	2.00	10.50	43.6	15.50	35.9	18.50	32.8	.000	15.055
13	37	2.00	8.00	50.0	20.00	31.6	25.00	28.2	.000	9.800
13	38	2.00	9.00	47.1	16.00	35.3	20.00	31.6	.000	11.537
13	39	2.00	7.00	53.4	14.50	37.1	20.50	31.2	.000	7.429
13	40	2.00	10.50	43.6	13.00	39.2	14.50	37.1	.000	11.927

9-16-4 #2

Equip Room
470

GLD Wang

13	41	2.00	10.50	43.6	17.50	33.8	21.00	30.8	.000	14.036
13	42	2.00	14.50	37.1	18.00	33.3	23.50	29.1	.000	14.347
13	43	2.00	12.00	40.8	19.00	32.4	20.00	31.6	.000	16.000
13	44	2.00	14.50	37.1	21.50	30.5	26.50	27.4	.000	19.253
13	45	2.00	11.00	42.6	21.00	30.8	26.00	27.7	.000	16.626
13	46	2.00	10.50	43.6	14.50	37.1	16.50	34.8	.000	11.345
PH										
	8#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIE	SIS
13	47	2.00	7.50	51.6	13.50	38.4	18.50	32.8	.000	8.427
13	48	2.00	10.00	44.7	16.00	35.3	20.00	31.6	.000	13.943
13	49	2.00	11.00	42.6	16.00	35.3	21.00	30.8	.000	12.870
13	50	2.00	12.50	40.0	17.50	33.8	24.00	28.8	.000	16.185
Hudson										
13	51	2.00	13.00	39.2	16.00	35.3	21.50	30.5	.000	12.030
13	52	2.00	12.00	40.8	17.50	33.8	19.50	32.0	.000	14.272
13	53	2.00	8.00	50.0	16.00	35.3	19.50	32.0	.000	11.900
13	54	2.00	9.50	48.8	20.00	31.6	27.50	26.9	.000	14.320
13	55	2.00	13.00	39.2	17.50	33.8	21.50	30.5	.000	17.896
13	56	2.00	7.50	51.6	13.00	39.2	16.50	34.8	.000	9.387
13	57	2.00	12.00	40.8	17.00	34.3	19.00	32.4	.000	15.232
13	58	2.00	6.00	57.7	17.00	34.3	21.50	30.5	.000	8.400
13	59	2.00	10.00	44.7	20.50	31.2	23.50	29.1	.000	14.781
13	60	2.00	9.50	48.8	15.00	36.5	18.00	33.3	.000	12.960
13	61	2.00	11.00	42.6	18.50	32.8	21.00	30.8	.000	15.861
13	62	2.00	6.00	57.7	12.00	40.8	15.50	35.9	.000	9.333
13	63	2.00	16.00	35.3	17.50	33.8	19.50	32.0	.000	11.106
13	64	2.00	10.50	43.6	15.50	35.9	18.50	32.8	.000	14.327
13	65	2.00	9.00	47.1	13.50	38.4	17.00	34.3	.000	12.968
13	66	2.00	8.50	48.5	16.00	35.3	19.50	32.0	.000	12.089
13	67	2.00	9.50	48.8	17.50	33.8	17.50	33.8	.000	12.240
13	68	2.00	10.00	44.7	14.50	37.1	17.00	34.3	.000	15.238
13	69	2.00	9.50	48.8	11.50	41.7	16.00	35.3	.000	11.200
13	70	2.00	10.00	44.7	19.50	32.0	23.50	29.1	.000	13.105
13	71	2.00	8.50	48.5	14.00	37.8	16.50	34.8	.000	12.533
13	72	2.00	11.00	42.6	17.50	33.8	21.00	30.8	.000	16.696
13	73	2.00	12.00	40.8	17.50	33.8	23.50	29.1	.000	15.808
13	74	2.00	7.50	51.6	14.00	37.8	16.00	35.3	.000	12.373
13	75	2.00	7.50	51.6	14.50	37.1	18.00	33.3	.000	11.947
13	76	2.00	13.50	38.4	20.00	31.6	23.50	29.1	.000	18.229
13	77	2.00	10.00	44.7	19.00	32.4	23.00	29.4	.000	15.086
13	78	2.00	12.00	40.8	16.50	34.8	17.50	33.8	.000	15.232
13	79	2.00	8.00	50.0	15.50	35.9	17.50	33.8	.000	10.700
13	80	2.00	5.50	60.3	12.50	40.0	16.00	35.3	.000	9.891

Room
711

9-16-4 #3

ECHSEN KAMP

13	81	2.00	7.00	53.4	16.50	34.8	23.00	29.4	.000	10.400	
13	82	2.00	10.00	44.7	17.50	33.8	20.00	31.6	.000	13.486	
13	83	2.00	8.00	50.0	12.50	40.0	16.00	35.3	.000	10.900	
13	84	2.00	13.00	39.2	19.50	32.0	25.00	28.2	.000	16.830	
13	85	2.00	9.00	47.1	13.50	38.4	17.00	34.3	.000	12.716	
13	86	2.00	9.50	45.8	16.50	34.8	20.00	31.6	.000	15.440	
13	87	2.00	6.00	57.7	15.00	36.5	21.50	30.5	.000	9.867	
13	88	2.00	8.50	48.5	17.50	33.8	23.00	29.4	.000	13.689	
13	89	2.00	11.50	41.7	19.50	32.0	22.50	29.8	.000	14.667	
10	13	90	2.00	50.50	19.9	32.50	24.8	34.50	24.0	.000	12.277
13	91	2.00	10.50	45.6	19.50	32.0	23.50	29.1	.000	14.400	
13	92	2.00	7.50	51.6	16.00	35.3	20.00	31.6	.000	11.627	
13	93	2.00	7.50	51.6	14.50	37.1	18.00	33.3	.000	10.027	
13	94	2.00	9.00	47.1	10.50	43.6	16.00	35.3	.000	13.726	
13	95	2.00	12.00	40.8	16.50	34.8	19.50	32.0	.000	13.120	
13	96	2.00	9.00	47.1	16.00	35.3	20.50	31.2	.000	15.242	
13	97	2.00	14.50	37.1	23.50	29.1	24.50	28.5	.000	19.573	
P#	S#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIE	S19	
13	98	2.00	11.50	41.7	15.50	35.9	20.00	31.6	.000	15.733	
13	99	2.00	12.50	40.0	15.50	35.9	22.00	30.1	.000	18.092	
13	100	2.00	9.50	45.8	11.50	41.7	16.00	35.3	.000	12.800	

Bck

13	101	2.00	9.50	45.8	15.00	36.5	18.00	33.3	.000	14.960
13	102	2.00	9.00	47.1	16.00	35.3	20.50	31.2	.000	10.274
13	103	2.00	16.00	35.3	25.00	28.2	29.00	26.2	.000	20.655
13	104	2.00	8.00	50.0	12.50	40.0	19.50	32.0	.000	14.494
13	105	2.00	8.00	50.0	16.50	34.8	22.00	30.1	.000	9.700
13	106	2.00	11.00	42.6	24.00	28.8	27.00	27.2	.000	15.652
13	107	2.00	8.00	50.0	11.50	41.7	14.00	37.8	.000	13.600
13	108	2.00	10.00	44.7	16.00	35.3	20.50	31.2	.000	15.543
13	109	2.00	8.50	48.5	10.50	43.6	13.50	38.4	.000	11.911
13	110	2.00	14.00	37.8	18.00	33.3	23.00	29.4	.000	15.614
13	111	2.00	9.50	45.8	16.00	35.3	19.50	32.0	.000	14.240
13	112	2.00	12.00	40.8	19.50	32.0	25.00	28.2	.000	16.064
13	113	2.00	7.50	51.6	19.00	32.4	23.50	29.1	.000	12.267
13	114	2.00	5.50	60.3	13.50	38.4	17.00	34.3	.000	7.855
13	115	2.00	7.50	51.6	15.50	35.9	22.00	30.1	.000	11.307
13	116	2.00	9.00	47.1	15.00	36.5	21.50	30.5	.000	15.495
13	117	2.00	9.50	45.8	19.00	32.4	23.50	29.1	.000	16.480
13	118	2.00	8.50	48.5	24.50	28.5	27.50	26.9	.000	12.267
13	119	2.00	7.50	51.6	16.00	35.3	23.00	29.4	.000	10.347
13	120	2.00	12.00	40.8	18.50	32.8	22.00	30.1	.000	18.368

Room 730

Room 220

9-16-4 #4

PGI

13	121	2.00	8.00	50.0	16.00	35.3	19.00	32.4	.000	11.106
13	122	2.00	5.50	60.3	12.00	40.8	16.00	35.3	.000	5.673
13	123	2.00	8.00	50.0	16.00	35.3	20.50	31.2	.000	10.900
13	124	2.00	9.50	45.8	20.00	31.6	23.50	29.1	.000	16.320
13	125	2.00	12.50	40.0	21.00	30.8	24.50	28.5	.000	16.615
13	126	2.00	9.00	47.1	15.00	36.5	20.00	31.6	.000	13.137
13	127	2.00	10.50	43.6	17.50	33.8	21.00	30.8	.000	12.873
13	128	2.00	5.50	60.3	15.00	36.5	19.50	32.0	.000	7.709
13	129	2.00	8.00	50.0	15.00	36.5	17.50	33.8	.000	11.300
13	130	2.00	10.50	43.6	17.00	34.3	19.50	32.0	.000	13.745

13	131	2.00	9.00	47.1	10.00	44.7	12.50	40.0	.000	13.558
13	132	2.00	12.50	40.0	17.00	34.3	20.50	31.2	.000	11.508
13	133	2.00	8.50	48.5	15.50	35.9	21.50	30.5	.000	12.178
13	134	2.00	6.50	55.4	15.50	35.9	19.50	32.0	.000	8.615
13	135	2.00	9.00	47.1	18.50	32.8	23.50	29.1	.000	13.137
13	136	2.00	14.00	37.8	16.00	35.3	19.00	32.4	.000	14.345
13	137	2.00	15.50	35.9	20.50	31.2	26.00	27.7	.000	19.800
13	138	2.00	8.00	50.0	16.00	35.3	22.00	30.1	.000	10.259
13	139	2.00	10.00	44.7	19.50	32.0	22.00	30.1	.000	12.878
13	140	2.00	11.00	42.6	16.00	35.3	18.50	32.8	.000	15.652

Gupra

13	141	2.00	12.50	40.0	21.50	30.5	22.50	29.8	.000	15.200
13	142	2.00	9.00	47.1	16.00	35.3	18.50	32.8	.000	11.621
13	143	2.00	6.50	55.4	16.00	35.3	18.50	32.8	.000	10.631
13	144	2.00	12.50	40.0	21.00	30.8	23.00	29.4	.000	17.292
13	145	2.00	10.50	43.6	18.50	35.9	22.50	29.8	.000	14.545
13	146	2.00	6.00	57.7	11.50	41.7	18.00	33.3	.000	8.000
13	147	2.00	12.50	40.0	16.00	35.3	21.50	30.5	.000	16.123
13	148	2.00	9.00	47.1	14.00	37.8	16.50	34.8	.000	9.937

P#	#	TIME	CPMA/K	ZDEV	CPMB/K	ZDEV	CPMC/K	ZDEV	SIE	SIS
13	149	2.00	10.50	43.6	14.00	37.8	21.00	30.8	.000	12.655
13	150	2.00	10.50	43.6	15.50	35.9	19.00	32.4	.000	12.000
13	151	2.00	10.50	43.6	14.00	37.8	17.50	33.8	.000	16.291
13	152	2.00	8.00	50.0	14.00	37.8	18.00	33.3	.000	12.612
13	153	2.00	10.50	43.6	20.50	31.2	23.50	29.1	.000	14.545
13	154	2.00	10.50	43.6	17.50	33.8	23.50	29.1	.000	14.327
13	155	2.00	7.50	51.6	18.00	33.3	21.50	30.5	.000	11.827
13	156	2.00	8.50	48.5	16.00	35.3	20.00	31.6	.000	11.022
13	157	2.00	8.50	48.5	16.00	35.3	16.50	34.8	.000	13.333
13	158	2.00	9.50	45.8	16.00	35.3	21.00	30.8	.000	11.280
13	159	2.00	10.50	43.6	16.00	35.3	21.50	30.5	.000	13.309
13	160	2.00	7.50	51.6	16.00	35.3	20.50	31.2	.000	13.333

Room 240

Room 250

9-16-4 #5

Room
330

Room
340

W W H A

13	161	2.00	11.00	42.6	18.50	32.8	23.50	29.1	.000	14.748
13	162	2.00	5.50	60.3	14.00	37.8	17.00	34.3	.000	8.436
13	163	2.00	9.50	45.8	20.50	31.2	27.00	27.2	.000	10.960
13	164	2.00	12.00	40.8	15.50	35.9	18.50	32.8	.000	14.848
13	165	2.00	5.50	60.3	12.00	40.8	14.50	37.1	.000	9.600
13	166	2.00	7.00	53.4	15.50	35.9	18.00	33.3	.000	10.857
13	167	2.00	9.00	47.1	20.50	31.2	23.50	29.1	.000	16.000
13	168	2.00	11.00	42.6	16.50	34.8	18.00	33.3	.000	15.304
13	169	2.00	11.50	41.7	16.00	35.3	21.00	30.8	.000	13.800
13	170	2.00	8.00	50.0	14.00	37.8	16.50	34.8	.000	12.706
13	171	2.00	10.50	43.6	23.00	29.4	26.00	27.7	.000	16.000
13	172	2.00	8.00	50.0	18.50	32.8	22.50	29.8	.000	10.635
13	173	2.00	10.50	43.6	18.00	33.3	24.50	28.5	.000	15.200
13	174	2.00	17.00	34.3	22.00	30.1	25.00	28.2	.000	17.200
13	175	2.00	12.50	40.0	26.00	27.7	34.00	24.2	.000	18.031
13	176	2.00	9.50	45.8	20.50	31.2	23.00	29.4	.000	15.200
13	177	2.00	8.00	50.0	14.50	37.1	18.50	32.8	.000	11.100
13	178	2.00	11.00	42.6	21.50	30.5	24.50	28.5	.000	13.635
13	179	2.00	13.00	39.2	24.50	28.5	28.00	26.7	.000	17.304
13	180	2.00	10.50	43.6	18.50	32.8	21.00	30.8	.000	13.018
13	181	2.00	9.00	47.1	13.50	38.4	17.50	33.8	.000	15.326
13	182	2.00	9.00	47.1	15.00	36.5	19.00	32.4	.000	15.242
13	183	2.00	8.00	50.0	13.50	38.4	18.50	32.8	.000	12.706
13	184	2.00	11.50	41.7	18.00	33.3	23.00	29.4	.000	18.667
13	185	2.00	12.00	40.8	17.50	33.8	22.00	30.1	.000	15.552
13	186	2.00	10.00	44.7	18.50	32.8	23.50	29.1	.000	11.962
13	187	2.00	11.50	41.7	16.00	35.3	21.00	30.8	.000	13.200
13	188	2.00	8.00	50.0	15.00	36.5	17.00	34.3	.000	14.400
13	189	2.00	6.00	57.7	11.50	41.7	15.50	35.9	.000	10.400
13	190	2.00	10.00	44.7	12.50	40.0	16.00	35.3	.000	13.562
13	191	2.00	8.00	50.0	11.00	42.6	14.50	37.1	.000	7.900
13	192	2.00	8.50	48.5	17.00	34.3	22.00	30.1	.000	9.156
13	193	2.00	13.00	39.2	21.00	30.8	23.50	29.1	.000	14.104
13	194	2.00	10.50	43.6	17.00	34.3	22.00	30.1	.000	14.109
13	195	2.00	19.00	32.4	18.00	33.3	22.50	29.8	.000	10.960
13	196	2.00	8.00	50.0	17.50	33.8	24.00	28.8	.000	13.741
13	197	2.00	11.00	42.6	20.50	31.2	23.50	29.1	.000	14.470
13	198	2.00	10.50	43.6	13.50	38.4	17.00	34.3	.000	13.673
13	199	2.00	9.50	45.8	20.00	31.6	23.00	29.4	.000	11.920

Recount
Gamma Cntr
#10

Clear & Recount GAMMA Cntr # 10

PROGRAM # = 13 24/01/00
REGION A: LL-UL = 0- 25 LCR = 0 BKG = .00 % 2 SIGMA =
REGION B: LL-UL = 4- 156 LCR = 0 BKG = .00 % 2 SIGMA =
REGION C: LL-UL = 5-2000 LCR = 0 BKG = .00 % 2 SIGMA =
TIME = 2.00 K = 1.000 QIP = SIS

P#	S#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIE	SIS
13	1	2.00	9.00	47.1	16.00	35.3	22.00	30.1	.000	12.547

Clear & Recount ECHELON # 10

PROGRAM # = 13 25/01/00
REGION A: LL-UL = 0- 25 LCR = 0 BKG = .00 % 2 SIGMA =
REGION B: LL-UL = 4- 156 LCR = 0 BKG = .00 % 2 SIGMA =
REGION C: LL-UL = 5-2000 LCR = 0 BKG = .00 % 2 SIGMA =
TIME = 2.00 K = 1.000 QIP = SIS

P#	S#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIE	SIS
13	1	2.00	16.00	35.3	28.00	26.7	31.00	25.4	.000	14.982

Recount
Room 730
#10/90

Cold Room

G-5-4

FINAL Cold Room SURVEY

WIPR TEST: ALL INNER SURFACES & DOOR

G-5-4

PROGRAM # = 13
 REGION A: LL-UL = 0- 19 LCR = 0 BKG = .00 % 2 SIGMA =
 REGION B: LL-UL = 2- 19 LCR = 0 BKG = .00 % 2 SIGMA =
 REGION C: LL-UL = 2-2000 LCR = 0 BKG = .00 % 2 SIGMA =
 TIME = 2.00 K = 1.000 QIP = SIS

	P#	S#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIE	SIS FL
Bl	13	1	2.00	13.50	38.4	10.50	43.6	26.50	27.4	.000	16.000
	13	2	2.00	9.50	45.8	8.50	48.5	23.00	29.4	.000	10.720
Walls	13	3	2.00	14.00	37.8	13.00	39.2	25.00	28.2	.000	19.697
	13	4	2.00	9.50	45.8	9.00	47.1	28.00	26.7	.000	10.800
	13	5	2.00	12.00	40.8	8.50	48.5	23.50	29.1	.000	12.608
	13	6	2.00	22.00	30.1	17.00	34.3	34.50	24.0	.000	16.383
door	13	7	2.00	14.50	37.1	8.50	48.5	22.50	29.8	.000	12.533
Floor	13	8	2.00	12.50	40.0	8.00	50.0	31.00	25.4	.000	11.138

Blanks

13	51	2.00	8.50	48.5	15.50	35.9	19.00	32.4	.000	12.889
<i>Blank</i> 13	52	2.00	7.00	53.4	14.50	37.1	18.00	33.3	.000	10.171
13	53	2.00	9.50	45.8	15.50	35.9	19.50	32.0	.000	15.440
13	54	2.00	12.50	40.0	18.00	33.3	23.50	29.1	.000	15.877
13	55	2.00	11.00	42.6	17.50	33.8	22.50	29.8	.000	15.861
13	56	2.00	10.50	43.6	20.50	31.2	23.50	29.1	.000	12.291

PROGRAM # = 13 22/01/00 23:38
 REGION A: LL-UL = 0- 25 LCR = 0 BKG = .00 % 2 SIGMA = .0
 REGION B: LL-UL = 4- 156 LCR = 0 BKG = .00 % 2 SIGMA = .0
 REGION C: LL-UL = 5-2000 LCR = 0 BKG = .00 % 2 SIGMA = .0
 TIME = 1.00 K = 1.00 BIP = SIS

P#	S#	TIME	CPMA/K	%DEV	CPMB/K	%DEV	CPMC/K	%DEV	SIE	SIS	FLAGS	MIN
13	1	1.00	18.00	47.1	19.00	45.8	23.00	41.7	.000	9.516		2
13	2	1.00	10.00	63.2	23.00	41.7	29.00	37.1	.000	7.360		3
13	3	1.00	13.00	55.4	16.00	50.0	19.00	45.8	.000	11.200		4
13	4	1.00	16.00	50.0	23.00	41.7	27.00	38.4	.000	13.600		5
13	5	1.00	12.00	57.7	18.00	47.1	29.00	37.1	.000	9.067		6
13	6	1.00	14.00	53.4	17.00	48.5	26.00	39.2	.000	8.571		7
13	7	1.00	12.00	57.7	18.00	47.1	26.00	39.2	.000	8.933		8
13	8	1.00	19.00	45.8	21.00	43.6	28.00	37.8	.000	9.440		9
13	9	1.00	15.00	51.6	21.00	43.6	24.00	40.8	.000	9.600		10
13	10	1.00	12.00	57.7	15.00	51.6	20.00	44.7	.000	8.267		11
13	11	1.00	12.00	57.7	18.00	47.1	28.00	37.8	.000	8.933		12
13	12	1.00	16.00	50.0	27.00	38.4	32.00	35.3	.000	11.765		13
13	13	1.00	12.00	57.7	15.00	51.6	26.00	39.2	.000	9.733		14
13	14	1.00	20.00	44.7	19.00	45.8	29.00	37.1	.000	13.562		15
13	15	1.00	13.00	55.4	18.00	47.1	24.00	40.8	.000	10.092		16
13	16	1.00	12.00	57.7	16.00	50.0	22.00	42.6	.000	8.667		17
13	17	1.00	11.00	60.3	17.00	48.5	28.00	37.8	.000	7.273		18
13	18	1.00	14.00	53.4	20.00	44.7	23.00	41.7	.000	9.943		19
13	19	1.00	9.00	66.6	16.00	50.0	22.00	42.6	.000	8.000		20
13	20	1.00	7.00	75.5	16.00	50.0	24.00	40.8	.000	5.029		21
13	21	1.00	8.00	70.7	13.00	55.4	18.00	47.1	.000	6.800		22
13	22	1.00	12.00	57.7	19.00	45.8	25.00	40.0	.000	8.800		23
13	23	1.00	14.00	53.4	19.00	45.8	23.00	41.7	.000	9.371		24

Oven

Refrigerator

Bckg

Minutes of the Quarterly Meeting of the Radiation Safety Committee
Northwest Center for Medical Education
October 3, 2003

1. The quarterly meeting of the Radiation Safety Committee was convened at 1:00 p.m. on October 3, 2003. Present were: Drs. Dziarski, Kennedy, and Gupta; absent: Drs. Yelavarthi and Zunich.
2. The minutes of the previous meeting were approved.
3. Radiation Safety Officer's report was presented by Dr. Kennedy and approved. No radioisotopes were received or used in 2003.
4. In preparation for the disposal of the radioactive waste from the storage room, on August 11, 2003, Drs. Kennedy and Dziarski transferred the radioactive waste into 4 new drums and cleaned and decontaminated the old drums (see attached RSO report). The old drums were surveyed by swabbing and meter and all readings were at background levels. The old drums were considered non-radioactive and were disposed.
5. On August 28, 2003, the contents of 3 drums with scintillation vials was sampled by Dr. Kennedy and was determined to be less than 1000 cpm/ml, which constitutes exempt quantity for the disposal (see attached report).
6. On September 16, 2003, all radioactive waste (3 drums with scintillation vials with exempt quantity and one drum with solid waste) were picked up by Bionomics (see attached RSO report).
7. The radioactive waste storage room was surveyed by swabbing and by meter and all readings were at background level (see RSO report). The storage room was considered free of contamination. No new radioactive waste will be stored in this room. A new radioactive waste storage room will be set up once the Center moves into the new building in 2004.

With no further business, the meeting was adjourned at 1:30 p.m.

Respectfully submitted
Roman Dziarski, Ph.D., Chairman, Radiation Safety Committee

Date : 10-01-03
Quarter : 7/03 – 9/03

1. Shipments received : None
2. Waste pickups : 1 pickup. See file : “waste disposal 03”
3. Personal reports : Drs Echtenkamp, Anderson and Li received dosages just above the minimal reporting service of 1 MREM. None of the researchers had used radioisotopes during the quarter. Researchers were apprised of the reading, and their readings for the next quarter will be monitored. Labs and offices of all three researchers were surveyed by meter (see below).
4. No shipments were received and no isotope was used during the reporting period. The labs and offices of Drs. Echtenkamp, Anderson and Li were surveyed by meter (Rad-monitor 9000) and all readings were at background levels (<0.5 counts per second).

9-16-3

Waste pickup by Bionomics

3 drums liquid scintillation vials – Exempt quantity
all drums < 1000 cpm/ml
Scintillation fluid was Liquiscint (National Diagnostics)

1 drum solid waste
0.4 mCi 14-C
9 mCi 3-H
1 mCi 45-Ca²⁺ on 7-12-96 (At present time has undergone 15 half-lives)

8-28-3

Radioactive waste sampling

Three 55 gallon drums containing scintillation vials were labeled "A, B, C". One ml was removed from each of three vials in each drum. 10 ml scintillation fluid was added to each sample and then the vials were counted (ranges 0-20, 0-200 and 2-2000) on the Packard Liquid Scintillation counter (counter was normalized before counting).

8-11-3

Radioactive waste transfer

Drs. Dziarski and Kennedy

Total inventory : 1 drum liquid waste (sand absorbed)
 : 2 drums solid waste
 : 3 drums liquid scintillation vials

Dry waste and sand were combined into 1 new 55 gallon steel drum. Liquid scintillation vials were transferred into 3 new 55 gallon steel drums.

Old drums were clean and then wipe tested by liquid scintillation counting. No drum or lid registered significantly high counts.

Minutes of the Quarterly Meeting of the Radiation Safety Committee
Northwest Center for Medical Education
September 30, 2004

1. The quarterly meeting of the Radiation Safety Committee was convened at 12:00 noon on September 30, 2004. Present were: Drs. Dziarski, Kennedy, and Gupta; absent: Drs. Yelavarthi and Zunich.

2. The minutes of the previous meeting were approved.

3. Radiation Safety Officer's report was presented by Dr. Kennedy. This was the 2nd quarter survey and the final survey of the old NWCME building before closing and demolishing of the building. This extensive survey of all areas and equipment did not detect any radioisotope contamination above background levels. No shipments of isotopes were received during the last quarter. The RSO report was approved.

4. The program and the new facility will be evaluated at the next Radiation Safety Committee meeting on October 18, 2004, with Mr. Gregory Crouch, Associate Director of the Environmental Health & Safety and Radiation Safety Officer at Indiana University, Bloomington. Mr. Crouch will also conduct a training session for new and existing personnel.

With no further business, the meeting was adjourned at 12:10 p.m.

Respectfully submitted
Roman Dziarski, Ph.D., Chairman, Radiation Safety Committee

Date : 9-30-4

Quarter : 04/04 – 06/04

1. Shipments received : None
2. Waste pickups : none
3. Personnel Reports :
For the reporting period, badges were issued to Drs. Kennedy, Wang and Dziarski and Echtenkamp. All other badges were unused since none of the investigators used radioactivity during the reporting period. All reports were "M".
4. Quarterly lab survey
Performed to close old med ed building. Results in old building folder.
Surveyor : B. Kennedy
5. Weekly individual lab survey records were up to date
6. Surveys of isotope shipment packages were checked and found complete

ress

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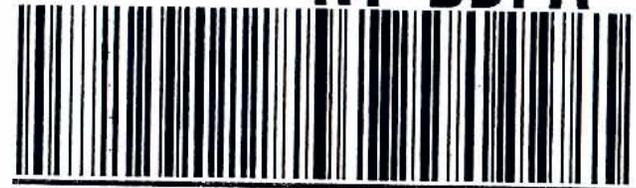
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