



Pennsylvania Department of Environmental Protection

Docket No. 03006111
Control No. 137573

License No. 37-03698-01

United States
Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA19406-1415

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Q-9

2005 JUN 14 PM 1:11

RECEIVED

In reference to the request for additional information;

Item 1. -Attached are results of the final survey and maps with location/work key of the Evangelical Press Building.

Item 2. -James Kopenhaver should be completely removed from the license, since he is retired from employment with the Department.

-In addition, I am retracting the request to add James Kucynski to the license since he is no longer working for the Department of Environmental Protection.

Item 3. -Radiation Protection Safety Orientation: 'Fundamentals of Radiation Safety' training video is shown which covers the nature and characteristics of ionizing radiation and the methods and techniques used to keep radiation doses to individuals as low as reasonably achievable and to minimize the potential for accidental exposures. topics included in the discussion are:

- The nature and characteristics of ionizing radiation
- Radioactivity and half-life
- Natural and man-made sources of radiation
- Radiation quantities and units
- Internal and external exposures
- Irradiation and contamination
- Use of time, distance, and shielding
- Radiation monitoring
- Contamination control

After viewing the tape, discussion of how; contamination control procedures, and the use of time, distance and shielding are used when working with radioactive materials in the laboratory.

137573

NMCC/NNI MATERIALS-002

Experience with type and quantity of material they propose to use:

Proposed authorized users for Item 5A through 5G

Rubeena Quazi and Christine Robbins:

Each proposed authorized user receives training from an authorized user/senior chemist to analyze environmental samples for Radiochemistry. Handling of the materials within the quantities listed on the application is closely supervised during their training in preparing standards for calibration of equipment and analysis of quality control samples. These proposed authorized users had to successfully complete Initial Demonstration Of Capabilities study and also analyze blind QC samples, provided by Bureau's Quality Assurance officer, before preparing and analyzing unknown samples, all under the supervision of the senior chemist/authorized user. New analysts (proposed authorized users) also must submit analytical data to either senior chemist or a section supervisor for a review and approval until completion of one year training.

Being a small section, analysts are cross-trained in more than one analytical methods. They have received extensive training and have experience to use all radioactive material we acquired under the NRC license in Radiation Measurement Section.

Proposed authorized users for Item 5G

Jeffrey Whitehead and Gerald Dworsak are staff members in the Bureau of Radiation Protection. As active participants in the Emergency Response team and as part of the ongoing training Bureau staff regularly attend training sponsored by the NRC. During these training sessions and their work experiences (see Item 7.2) they have obtained extensive experience using check sources such as the cesium 137 sources for instrument calibration.

I have attached copies of the original work submitted and your request for additional information. Please contact me for any additional information needed.

Tonda L. Lewis 11/7/05

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Department of Environmental Protection
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Bureau of Radiation Protection
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Evan Press Final Status Data**7/14/05****Building vacated of all radiological standards and materials 7/11/05**

Inventory taken 6/3/05: Packing and moving of materials: Ecology Services Management Consultants
under supervision of Taru Upadyhay and Tonda Lewis

Dry Wipes of Selected Work Areas

Radiation Measurements Laboratory
7/14/05 - Close out Survey

<u>Wipe</u>	<u>Work Areas</u>	<u>Alpha Results</u> <u>(uCi/wipe)</u>	<u>Beta Results</u> <u>(uCi/wipe)</u>	<u>Tritium Results</u> <u>(uCi/wipe)</u>
A	1, 2, 3, 6, 7, 8,	+/- 1.4 x 10 ⁻⁶	4.8 +/- 0.6 x 10 ⁻⁶	-----
A-1	Hi-Spec Floor	< 0.7 x 10 ⁻⁶	1.5 +/- 0.5 x 10 ⁻⁶	-----
B	9, 10, 11, 14, 16, 17, 18, 19	< 0.7 x 10 ⁻⁶	< 0.7 x 10 ⁻⁶	-----
C	4, 32, 33, 43, 50	8.6 +/- 1.4 x 10 ⁻⁶	3.0 +/- 0.5 x 10 ⁻⁶	< 130 x 10 ⁻⁶
D	28, 29, 30, 31	0.9 +/- 0.6 x 10 ⁻⁶	1.0 +/- 0.4 x 10 ⁻⁶	-----
E	21, 22, 24, 25, 27, 27a	0.7 +/- 0.5 x 10 ⁻⁶	< 0.6 x 10 ⁻⁶	-----
F	35, 36, 37, 38, 38a, 39, 40, 51	< 0.8 x 10 ⁻⁶	< 0.6 x 10 ⁻⁶	-----
G	41, 42, 44, 45, 48, 49	4.5 +/- 1.0 X 10 ⁻⁶	1.0 +/- 0.4 x 10 ⁻⁶	-----
G-1	Floor - Sample prep room	0.9 +/- 0.6 x 10 ⁻⁶	0.7 +/- 0.4 x 10 ⁻⁶	-----
B-1		< 0.7 x 10 ⁻⁶	0.5 +/- 0.4 x 10 ⁻⁶	

Evan Press Final Status Data**7/14/05****Building vacated of all radiological standards and materials 7/11/05**

Inventory taken 6/3/05: Packing and moving of materials: Ecology Services Management Consultants

under supervision of Taru Upadyhay and Tonda Lewis

Survey Instrument - Eberline 12389

Background: .020 - .040 mR/hr. Eberline SN 12389

Check Source - Tc-99

Probe HP 270 SN 014287

Background Reading -0.04 - 0.06 mR/hr.

Calibrated 3/11/05

<u>Survey Area *</u>		<u>Type of Radiation Surveyed</u>	<u>Window</u>	<u>Distance from Probe</u>	<u>Instrument Reading (mR/hr)</u>
1	- Hi-Spec Storage Cabinet	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
2	-Hood #29	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
5	-Hi-Spec Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
12	-Trough Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
13	-Center Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
15	-East Wall Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
20	-North Wall Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
23	-Hood #25 Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
26	-South Wall Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
34	-Hood #22 Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
46	-Sample Prep Room Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
47	-Sample Prep Room Sink	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
48	-Beaker Cabinet	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
49	-Gamma Standards Storage Cabinet	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
52	- Solid Waste Can 1	Beta/Gamma	Open	0.5 cm	0.04 - 0.06
	- Solid Waste Can 2		Open	0.5 cm	0.04 - 0.06

* See attached sheet "Radiation Survey Areas"

Evan Press Final Status Data**7/12/05****Building vacated of all radiological standards and materials 7/11/05**

Inventory taken 6/3/05: Packing and moving of materials: Ecology Services Management Consultants

under supervision of Taru Upadyhay and Tonda Lewis

Survey Instrument - Eberline 12389

Background: .020 - .040 mR/hr. Eberline SN 12389

Check Source - Tc-99

Probe HP 270 SN 014287

Background Reading - 0.04 - 0.06 mR/hr.

Calibrated 3/11/05

Furniture Surveyed

Background: 0.020 - 0.060 mR/hr. Eberline SN 12389

Probe HP 270 SN 014287

Calibrated 3/11/05

	location/inventory #	mR/hr
Desk 1	Counting room	< 0.060
Desk 2	Counting room	< 0.060
Desk 3	Counting room	< 0.060
Desk 4	Counting room	< 0.060
Desk 5		< 0.060
Chair 1	148803-15	< 0.060
Chair 2	7419	< 0.060
Chair 3	148803-20	< 0.060
Chair 4	148803-22	< 0.060
Chair 5	no num. - gray	< 0.060
Chair 6	no num - Green	< 0.060
Chair 7	148803-17	< 0.060

Locations

RADIATION SURVEY AREAS

1. EPA Cross-Check and interim storage cabinet - West wall - Hi Spec lab.
2. Liquid standards and check source storage cabinet - under Hood #29 - West wall - Hi Spec lab.
3. Hood #55 - West wall - Hi Spec lab.
4. Bench top - Southwest corner - Hi Spec lab.
5. Sink - South wall - Hi Spec lab.
6. Bench top - Southeast corner - Hi Spec lab.
7. Hood #54 - East wall - Hi Spec lab.
8. Standards and spiked samples drying oven - East wall - Hi Spec lab.
9. Hood #58 - South wall - Low Spec lab.
10. Bench top - South and East walls - Low Spec lab.
11. Bench top - Center - Low Spec lab.
12. Trough sink - Center - Low Spec lab.
13. Sink - Center - Low Spec lab.
14. Bench top - Center - Low Spec lab.
15. Sink - East wall - Low Spec lab.
16. Super critical fluid extractor
17. Muffle furnace - North wall - Low Spec lab.
18. Hood #62 - North wall - Low Spec lab.
19. Hood #61 - North wall - Low Spec lab.
20. Sink - North wall - Low Spec lab.
21. Lab bench - North and West walls - Low Spec lab.
22. Hoods #59, #60, - Center - Low Spec lab.
- 22.a Oven.
23. Sink - Hood #59 - Low Spec lab.
24. Hoods #56, #57 - Center - Low Spec lab.

Locations

RADIATION SURVEY AREAS

25. Lab bench - South and West walls - Low Spec lab.
26. Sink - South wall - Low Spec lab.
27. Table - South wall - Balance room. Centrifuge and scale.
- 27a. Dessicator - North and West walls - Counting lab.
28. Tennenlac alpha/beta counting system - South wall - Counting lab.
29. Gamma Products FPC instruments - North and West walls - Counting lab.
30. Lab bench - South and East walls - Radium De-emanation area - Counting lab.
31. Lab bench - Center - Tritium Prep room.
32. Lab bench - East wall - Tritium Prep room.
33. Hood #64 - Tritium Prep. room.
34. Sink - Hood #22 - Tritium Prep room.
35. Lab bench - Center aisle and North wall - Sample Receiving room.
36. Doorknob - South laboratory entrance.
37. Door push - Entrance - Laboratory stairs to basement.
38. Door push - North laboratory exit.
- 38a. Doorknob - Counting lab.
39. Door push (exterior) - East entrance - Annex basement - Gamma Spec room.
40. Door handle (interior) - East entrance - Annex basement - Gamma Spec room.
41. Doorknob (exterior) - Entrance - Annex basement - Sample Prep room.
42. Doorknob (interior) - Entrance - Annex basement - Sample Prep room.
43. Lab bench - East wall - Annex basement - Sample Prep room.
44. Lab bench - South wall - Annex basement - Sample Prep room.
45. Lab bench - Southwest wall - Annex basement - Sample Prep room.

Locations

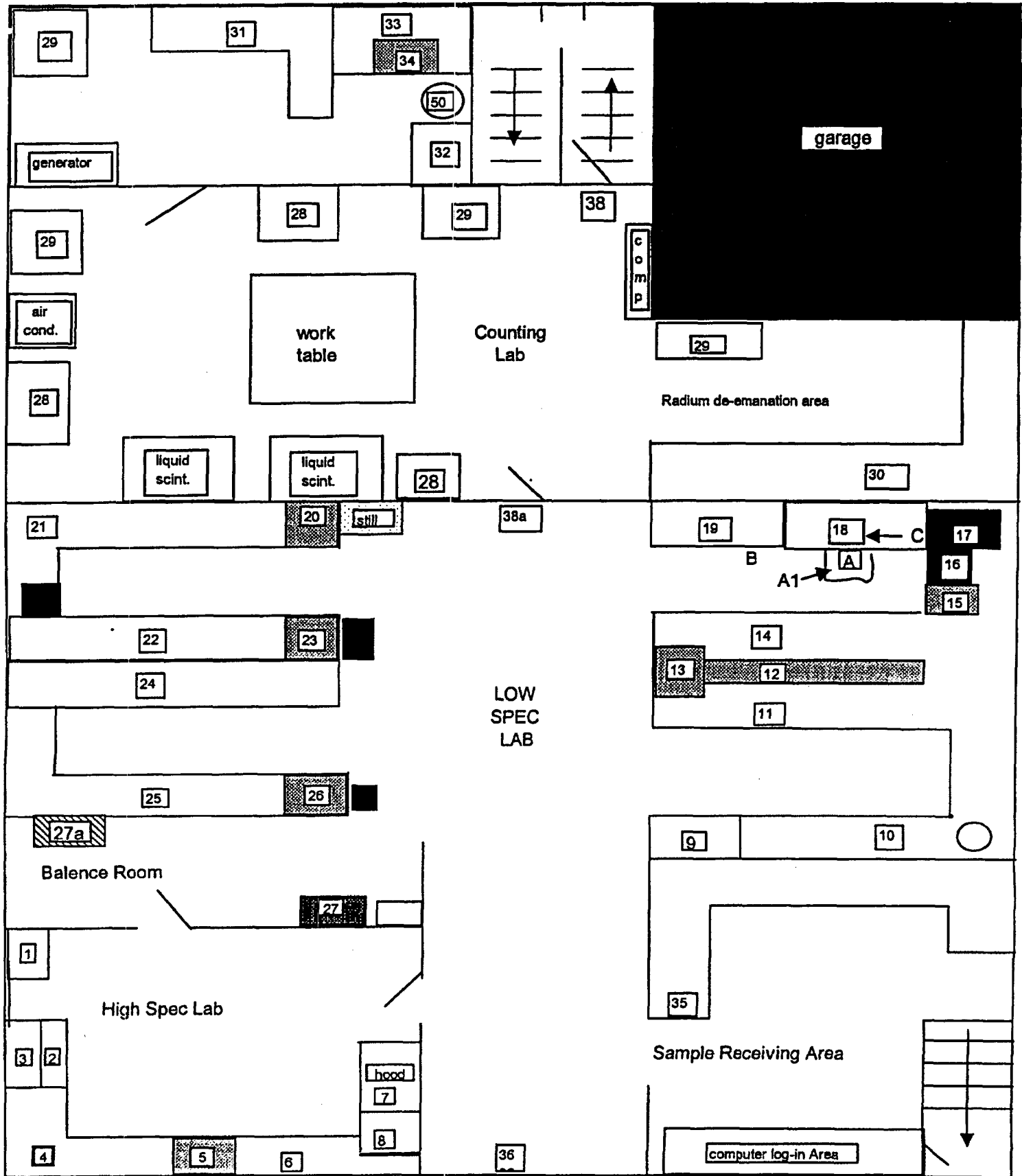
RADIATION SURVEY AREAS

46. Sink - West wall - Annex basement - Sample Prep room.
47. Sink - West wall - Annex basement - Sample Prep room.
48. Beaker storage and filter standards cabinet - North wall - Annex basement Sample Prep room.
49. Gamma Standards storage cabinet - Southwest corner - Annex basement - Sample Prep room.
50. Tritium Waste storage cans - Tritium Prep. Room
51. Door push - Northeast exit - Annex basement - Gamma Spec room.
52. Solid Waste can - Closet - Annex basement - Lab shop.
53. Ni-63 Source storage Cabinet - Annex basement - Sample Prep room.

3rd + Kelly Harrisburg, VA

Evan Press

1st floor



Store Room

Chief, Radiation Measurements Section
Office

file

Lab Shop

43

44

49

52

52

45

46

47

53

48

Evan Press

A
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computer area

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