



RADIATION PROTECTION COMMITTEE

CAMBRIDGE, MASSACHUSETTS 02139

MINUTES OF THE 107TH MEETING OF THE RADIATION
PROTECTION COMMITTEE ON DECEMBER 1, 1992

MEMBERS PRESENT: Davison, Styles (Lodish), Galanek, Haldeman,
Housman, Dedon, Billings, King, Fiore, Massé,
Powell, Lipman.

MEMBERS ABSENT: Hemond, Pratt, Yanch, Young

EX OFFICIO MEMBERS PRESENT: Reilly, Fuller, Lavallee.

The meeting was called to order at 1:35 PM.

I. The minutes of the 106th meeting were approved as presented.

II. Ratification of Administratively Approved Authorizations:
The following administratively approved authorizations were
ratified as presented:

II. 1. W-X-1	Amendment	II. 2. W-M-4	Amendment
II. 3. 1-B-1	Amendment	II. 4. 7-BC-3	Amendment
II. 5. 10-A-3	Amendment	II. 6. W-F-3	Amendment
II. 7. 5-AL-1	Amendment	II. 8. NRL-F-1	New Auth.
II. 9. 10-N-1	New Auth.	II. 10. 10-A-3	Amendment
II. 11. W-C-3	Amendment	II. 12. CEHS-A-3	Amendment
II. 13. 1-H-1	Amendment	II. 14. 7-BM-1	New Auth.
II. 15. 12-N-1	New Auth.	II. 16. 7-BA-5	New Auth.
II. 17. 7-BC-4	Amendment	II. 18. CCR-V-1	Amendment
II. 19. 9-H-1	New Auth.	II. 20. 7-H-2	Amendment
II. 21. 5-AD-4	Amendment		
II. 23. W-O-2	Amendment		

II. 22. 3-AK-1: This project does not require an authorization due to the small amount of natural uranium utilized. RPO to post a notice in lab supply to inform users of uranium and thorium to return unused quantities to RPO.

III. Ratification of administratively-approved renewal of authorizations. The following were ratified as presented:

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| III. 1. 7-A-2 | III. 2. W-J-3 |
| III. 3. 5-X-6 | III. 4. W-P-2 |
| III. 5. 7-AW-5 | III. 6. 12-A-38 |
| III. 7. HST-B-4 | III. 8. CCR-S-2 |
| III. 9. 7-F-13 | III. 10. CRC-B-2 |
| III. 11. 5-AD-4 | III. 12. 7-BC-4 |
| III. 13. 5-G-2 | III. 14. 7-G-3 |
| III. 15. CCR-D-7 | III. 16. 12-L-2 |
| III. 17. CCR-E-5 | III. 18. 8-AJ-2 |
| III. 19. T-E-2 | III. 20. 12-E-7 |
| III. 21. 8-AF-2 | |

IV. Review of application that exceed administrative-approval guidelines. The following applications that exceeded administrative approval guidelines were approved as presented:

- IV. 1. W-W-2 Renewal Authorization

V. SNM-986 License Activities

1. Don Haes reported to the committee on the activities of the past quarter (see attached report).

VI. Analytical X-ray Program

1. New applications were ratified as presented (see attached).
2. Tom Fuller to complete an authorization for the Medical and dental X-ray machine.

VII. Laser Safety Program

1. No report.

VIII. New Business

1. NW13 Accelerator Vault - Dr. J. Yanch plans to use the accelerator vault in the future. The facility may need to be shared with the PFC group headed by R. Petrano and K. Wentzel.
2. RPO will get bids for the decommission of Dr. A. Davison's laboratories. M. Galanek to report at next meeting.

Meeting adjourned at 3:35 P.M.



RADIATION PROTECTION OFFICE

To: Francis X. Massé, Radiation Protection Officer
From: Donald Haes, Assistant Radiation Protection Officer
Subject: SNM Under Campus Control
Date: November 30, 1992

A handwritten signature in dark ink, likely belonging to Donald Haes, the Assistant Radiation Protection Officer.

• All Special Nuclear Material and Accountable Material under control of the Campus Radiation Protection Program is in dead storage in 6-017 with the following exceptions:

- Ten (10) Eberline ^{239}Pu alpha sources ranging from 9.90×10^2 - 3.78×10^6 dpm are in occasional use and stored under lock and key in 20C-205 (counting room). These sources are included in the RPO periodic wipe-test and inventory schedule. Records of inventory control and wipe-test results are kept in accordance with current NRC license requirements. Eberline ^{239}Pu alpha source #830 (42609 dpm) is on loan to the Bates LINAC RPO.
- The Plasma Fusion Center has RPO authorization (PFC-C-1) to use a 1 Curie ^{239}Pu -Be neutron source under control of the Reactor RPO. Specific conditions of approval of the authorization require the source to be returned to RRPO after each day of use, and when no longer of use to the project.
- The Plasma Fusion Center has received all six fission chambers containing ^{235}U . The fission chambers in possession are as follows: 4 mg (≈ 9 nCi) ^{235}U each in 2 detectors from TGM; 1.68 gm (≈ 4.2 μCi) each in 2 detectors from Imaging and Sensing Technology Corp.; 95 mg (≈ 0.18 μCi) and 104 mg (≈ 0.195 μCi) contained in two detectors from LND. As of this date, all fission chambers are located in the Alcator C-Mod cell (NW21-199).
- The above information be will reported at the 107th meeting of the MIT RPC.

cc. M. Galanek

RATIFICATION OF AUTHORIZATIONS TO POSSESS AND USE EQUIPMENT
THAT EMITS IONIZING RADIATION

LOCATION	SUPERVISOR	DEPT.	TYPE/MODEL	DESCRIPTION	ROUTINE USE
13-5120	P. Cebe	DMSE	Phillips	40 kV, 45 mA	flat film work
16-744	C. Kang	Biology	Nicolet Diffract- ometer	50 kV 30 mA	Macromolecular Crystallography
16-700	C. Kang	Biology	Elliot GX-6	35 kV 30 mA	Macromolecular Crystallography
NW21-120	L. Bromberg	PFC	Electron Beam	180 kV 5 mA	Organic Chemical Irradiation
38-229	G. Bekefi	Physics	Accelerator	Free Electron Laser 1 mV 18 kA	Coherent waves for RF heating
38-229	G. Bekefi	Physics	Accelerator	High Gradient Electron Beam 20 mV 1 mA	Coherent waves for RF heating