



MS-16
P-7

20-01212-10

December 6, 1988

Mr. Thomas K. Thompson
United States NRC
Region I
425 Allendale Road
King of Prussia, PA. 19406

Re: Mail Control #108090

The information requested in your correspondence dated November 14, 1988 follows:

- 1A Personnel who have used quantities of radionuclides greater than 1 millicurie of P-32 and if they performed radio-iodinations with I-125 and/or I-131 are required to survey their persons for radio-contamination prior to leaving the work area. Appendix A contains a memo from the MEEI Director of Safety, informing authorized users of this requirement.
- 1B The contamination levels which require an area to be decontaminated and resurveyed are related to the type of radioactive materials being used. The restricted area action levels for low risk beta or photon emitters is 22,000 dpm per cm², and for high risk beta or photon emitters, 2200 dpm/cm². Unrestricted areas are 1/10 their values. Low risk radionuclides include C-14, H-3, S-35, Te-99M, and others whose beta maximum energy is less than 0.2 MEV, whose photon emission is less than 0.1 R/hr at 1 meter per curie and whose permissible concentration in air is greater than 10 microcurie per ml. All other radionuclides are considered higher risk radionuclides.
- 1C The Radiation Safety Officer should be notified if an inadvertent spill exceeds of 10 times the quantities contained in 10 CFR 20/Appendix C. (Appendix A includes this task.)
- 1D Daily surveys are required when quantities greater than 1 millicurie of radioactive material is being used.
- 1E Weekly surveys are required when 200 microcuries to 1000 microcuries of radioactive material are being used.
- 1F Monthly surveys are required when less than 200 microcuries of radioactive material is being used.
- 1G A copy of a typical monthly survey is contained in Appendix B. The map of the areas and record survey report are included. Appendix C illustrates the survey form used to record daily or weekly surveys.

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PDR FOIA
STOLL92-58 PDR

343 Charles Street
Boston, Massachusetts 02114

OFFICIAL RECORD COPY M11A

108090

Δ/38 DEC 15 1988



Massachusetts
Eye and Ear
Infirmary

Department of Safety, Security, and Parking

2. R.S. Landauer Jr. and Company, Glenwood, Illinois, supplies and processes our film badges through the Office of Environmental Safety at Harvard University.
3. All individuals working with radioactive material, except H-3, and C-14, are assigned and are required to wear a personnel monitoring badge.

Sincerely,

John P. McGillivray
John P. McGillivray
Director
Safety, Security and Parking



Massachusetts
Eye and Ear
Infirmary

Department of Safety, Security, and Parking

APPENDIX A

Memo to MEEI all Infirmary authorized users of radionuclides
requiring personal surveys prior to leaving the work area.



Massachusetts
Eye and Ear
Infirmary

Department of Safety, Security, and Parking

December 6, 1988

TO: Principle Investigators and Authorized Supervisors of
Radionuclides

FROM: John P. McGillivray *John P. McGillivray* Director of Safety, Security and
Parking

RE: RADIATION SAFETY

Personell who have used quantities of Radionuclides greater than 1 millicurie of P-32 or if they performed radio-iodinations with I-125 and/or I-131, are required to survey their persons, for radio-contamination, prior to leaving the work area.

The Radiation Safety Office should be notified if a spill or accidental release of Radionuclides exceeds 10 times the quantities contained in CFR 20/APPENDIX C. (copy enclosed)

THE EMERGENCY EXTENSION IS 3333



APPENDIX B

1. Map of areas
2. Monthly Survey Report

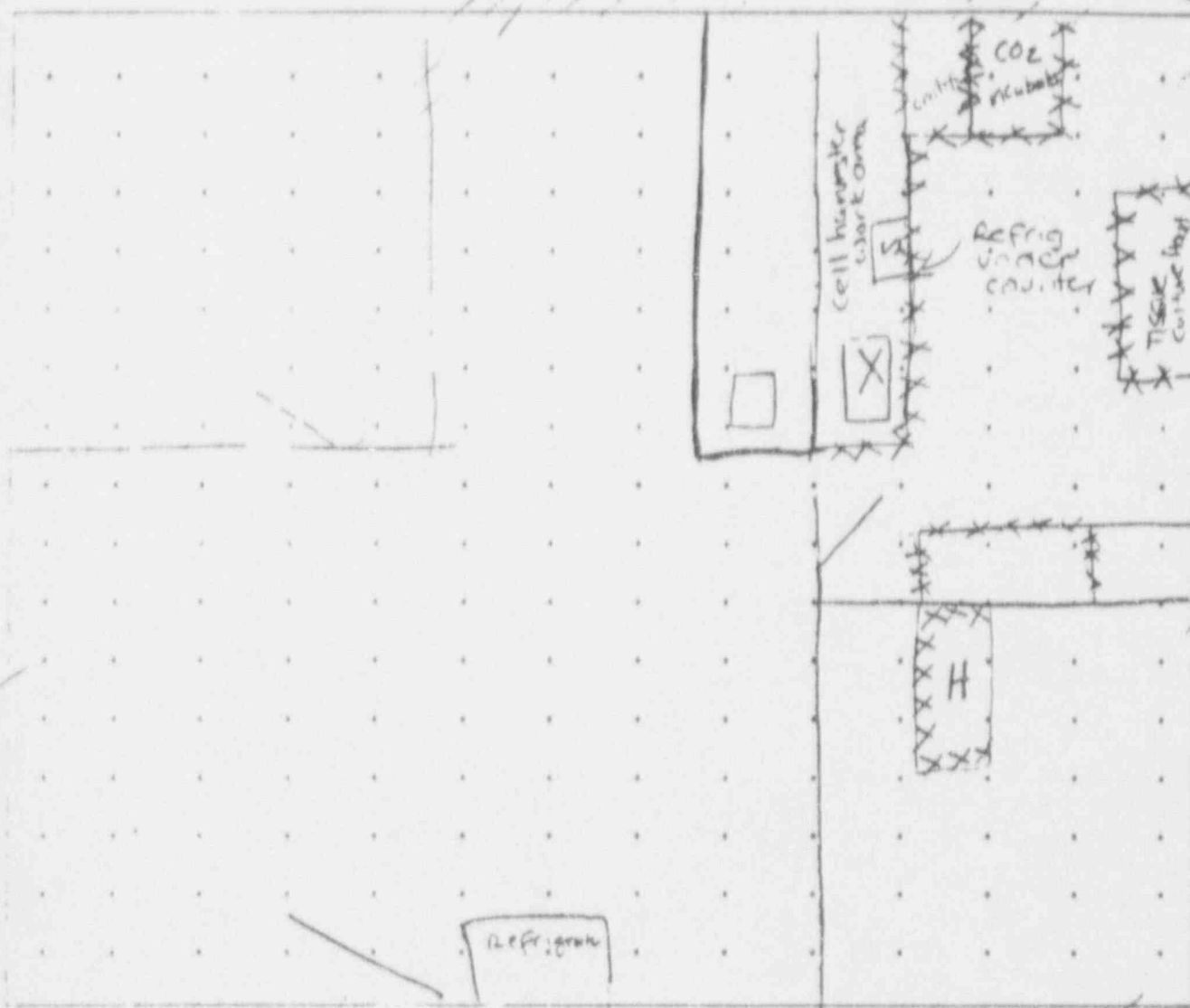
RADIOISOTOPE SAFETY

FLOOR PLAN - LABORATORY/USE AREA

The following diagram illustrates an area within the Infirmary where radioisotopes are used or stored. Key features that relate to the management of radioisotopes are labelled for survey and safety purposes. (The illustration is not meant to be a scale drawing.)

Department: Hilks Lab

Location: 620, connecting building



Legend:

XXXXX - border of restricted area (rooms, laboratories, etc.)

XXXXX - radioisotope work area (benches, equipment, etc.)

X - "hot" sink

H - vapor hood, etc.

LS - radioisotope storage

LS - locked storage

Completed by:

Date:

10/1/77

RF 408.80

ENVIRONMENTAL HEALTH & SAFETY
UNIVERSITY HEALTH SERVICES

Memorandum

DATE: 11.30.88
TO: RSO of Harvard Affiliated Institutions
FROM: Dr. Joseph Ring
SUBJECT: Monthly Survey Reports



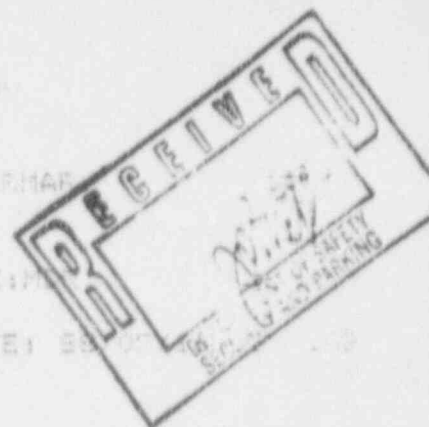
Enclosed is your summary report for the month of August 1988.

Please review this report to ensure that it is complete. If there are any problems, please contact me.

A black and white photograph of a retail action card. The card is tilted and features the 'Retail Action' logo, which includes the word 'Retail' in a large, stylized font and 'ACTION' in a smaller, bold font. A signature is written across the card.

10/10/10

THE NEW YORK STATE DEPARTMENT OF LABOR
OFFICE OF THE COMMISSIONER
100 NASSAU ST. 10TH FL. NEW YORK, N.Y. 10038
TEL: (212) 405-2000 FAX: (212) 405-2001
WWW.DOL.STATE.NY.US
UNDER THE NYS LICENSE FOR: LASE EYE AND EAR INSPECTION



NO. TED BR-11

SERIES CODE: P

AB: CONNECTING ALORA

SURVEY DATE: 08/08/15

FINDINGS: NO ADDITIONAL COMMENTS.

VIOLATIONS: NO VIOLATIONS OBSERVED.

ACTION TAKEN: NO ITEMS REQUIRING ACTION WERE OBSERVED.

PM VALUE UNITS DIST(CM) FROM OBJECT

WIPE RESULTS(DPM) CHAN NO.

15 BR/H 1 UNLABELLED PIPE

NO. YEA BR-12

SERIES CODE: MDR

AB: CONNECTING 661

SURVEY DATE: 08/08/15 2 1-2

FINDINGS: NO ADDITIONAL COMMENTS.

VIOLATIONS: NO VIOLATIONS OBSERVED.

ACTION TAKEN: NO ITEMS REQUIRING ACTION WERE OBSERVED.

PM VALUE UNITS DIST(CM) FROM OBJECT

WIPE RESULTS(DPM) CHAN NO.

20,00 BR/H 1 OUTSIDE OF SHIELD

NO. RICHARDSON

SERIES CODE: ???

AB: CONNECTING 701

SURVEY DATE: 08/08/15 3 1-2

FINDINGS: NO ADDITIONAL COMMENTS.

VIOLATIONS: NO VIOLATIONS OBSERVED.

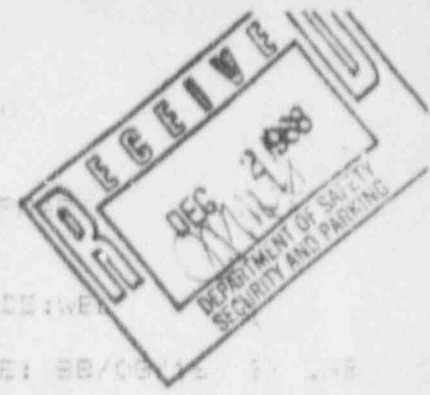
ACTION TAKEN: NO ITEMS REQUIRING ACTION WERE OBSERVED.

PM VALUE UNITS DIST(CM) FROM OBJECT

WIPE RESULTS(DPM) CHAN NO.

1,30 BR/H 1 SPOT ON LIP OF HOOD

REPORT OF A VISUAL SURVEY OF A
VEHICLE IN A PUBLIC PLACE - 1/1/88 - 8040
VEHICLE MAKE: FORD MODEL: FORD
VEHICLE YEAR: 1987 VEHICLE TYPE: SEDAN
VEHICLE WAS LICENSED: YES MAKE EYE AND EAR INSPECTION



1. VEHICLE: 8040
2. VEHICLE MAKE: FORD
3. VEHICLE MODEL: FORD
4. VEHICLE YEAR: 1987
5. VEHICLE TYPE: SEDAN
6. VEHICLE WAS LICENSED: YES
7. MAKE EYE AND EAR INSPECTION: YES
8. VIOLATIONS: NO VIOLATIONS OBSERVED.
9. ACTION TAKEN: LABELLED SPOT. WROTE NOTE AND LEFT IT ON DOOR.
10. WIFE RESULTS (DPM) CHAN NO. 1
11. SPOT IN BENCH

1. VEHICLE: 8040
2. VEHICLE MAKE: FORD
3. VEHICLE MODEL: FORD
4. VEHICLE YEAR: 1987
5. VEHICLE TYPE: SEDAN
6. VEHICLE WAS LICENSED: YES
7. MAKE EYE AND EAR INSPECTION: YES
8. VIOLATIONS: NO VIOLATIONS OBSERVED.
9. ACTION TAKEN: NO ITEMS REQUIRING ACTION WERE OBSERVED.
10. WIFE RESULTS (DPM) CHAN NO. 1
11. SPOT IN BENCH

1. VEHICLE: 8040
2. VEHICLE MAKE: FORD
3. VEHICLE MODEL: FORD
4. VEHICLE YEAR: 1987
5. VEHICLE TYPE: SEDAN
6. VEHICLE WAS LICENSED: YES
7. MAKE EYE AND EAR INSPECTION: YES
8. VIOLATIONS: NO VIOLATIONS OBSERVED.
9. ACTION TAKEN: NO ITEMS REQUIRING ACTION WERE OBSERVED.
10. WIFE RESULTS (DPM) CHAN NO. 1
11. SPOT ON LIP OF HOOD

SICR #1074

SERIES CODE:

BY JINNETT: TOS

SURVEY DATE: 88/04/12 3:24

FINDINGS: NO ADDITIONAL COMMENTS.

VIOLATIONS: NO VIOLATIONS OBSERVED.

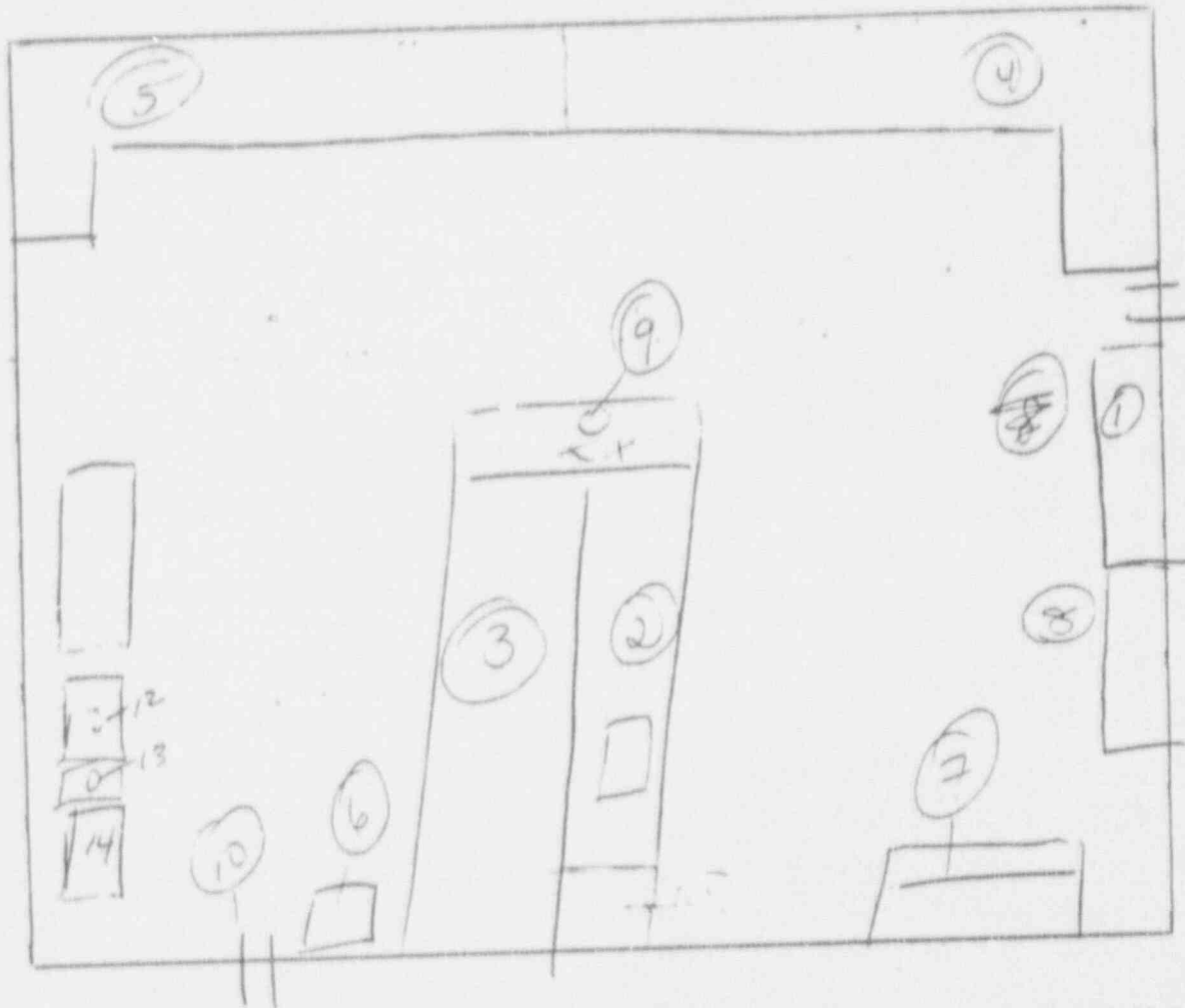
ACTION TAKEN: NO ITEMS REQUIRING ACTION WERE OBSERVED.



APPENDIX C

Daily, or Weekly Survey Forms.

RADIATION SURVEY MAP



RP# DESCRIPTION

- 1 Bench
- 2 "
- 3 "
- 4 "
- 5 "
- 6 Frig.
- 7 Hcd
- 8 Floor/waste
- 9 Sink
- 10 Door handle

RP# DESCRIPTION

- 11 Wall
- 12 Age
- 13 "
- 14 Frige

RP# DESCRIPTION

-
-
-
-
-
-
-
-
-
-

OFFICIAL RECORD COPY ML10

PLEASE REFER TO THIS DIAGRAM FOR THE LOCATION OF DOSE RATES

108090