

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

22-02491-03

Docket or Reference Number

030-14417

Amendment No. 16

302148

Midway Hospital  
1700 University Avenue  
St. Paul, MN 55104

In accordance with the letters dated December 13, 1996 and January 21, 1997, License Number 22-02491-03 is hereby terminated.

TERMINATED

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

1/31/97

By

Michael F. Weber

dl

Nuclear Materials Licensing Branch, Region III

070028

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PDR ADDCK 03014417  
C PDR

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230  
SD

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

(FOR LFMS USE)  
INFORMATION FROM LTS

Program Code: 02120  
Status Code: 0  
Fee Category: 7C 2B  
Exp. Date: 20040930  
Fee Comments:  
Decom Fin Assur Req: N  
.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: MIDWAY HOSPITAL  
Received Date: 961219  
Docket No: 3014417  
Control No.: 302148  
License No.: 22-02491-03  
Action Type: Termination

2. FEE ATTACHED

Amount: 0  
Check No.: 0

3. COMMENTS

Signed D. Hersey  
Date 12-23-96

B. LICENSE FEE MANAGEMENT BRANCH (Check when Milestone 03 is entered / Y)

1. Fee Category and Amount: 7C 2B Termination

2. Correct Fee Paid ☒ Application may be processed for:

Amendment       
Renewal       
License     

3. OTHER

Signed SC  
Date 12/27/96

SO 2 11 27 33 04

JAN 02 1997

RECEIVED BY LFDCB	
Date	<u>Dec. 27, 1996</u>
Log	<u>Dec 10 III</u>
By	<u>SC</u>
Date Completed	<u>12/27/96</u>

# HealthEast Midway Hospital

1700 University Avenue  
St. Paul, MN 55104  
612-232-5000

December 13, 1996

U.S. Nuclear Regulatory Commission  
Materials Licensing  
Region III  
801 Warrenville Road  
Lisle, IL 60532-4351

Phone 630-829-9848  
FAX 630-515 1259

Dear Sirs:

The Nuclear Medicine Department at HealthEast - Midway Hospital, St. Paul, Minnesota is scheduled to close in January 1997. The proposed "last day of operation" will be Wednesday, January 15, 1997. The final Decommissioning Survey will be performed on Monday, January 20, 1997. This letter is to inform you that Midway Hospital (NRC License #22-02491-03) will no longer be using radioactive by-product material after January 20, 1997 and the NRC License will need to be terminated.

A final Decommissioning Survey will be conducted by a consultant Radiation Physicist, J. Thomas Payne, Ph.D., on January 20, 1997. This Decommissioning Survey will include a complete radiation survey for all rooms identified in the NRC License and in which radioactive materials were used. The radiation survey will include both an area survey with a sensitive thin-end window GM survey instrument and extensive wipe tests of all floors, countertops, sinks and equipment used in the Nuclear Medicine Department. Results of this survey will be sent to your office as well as the future owners of the space once occupied by the Nuclear Medicine Department.

There are two radioactive sealed sources with radioactivity above 100 microcuries (a sealed-vial of solidified Cs-137 of approximately 130 microcuries used for checking the dose calibrator and a large plastic disk of Co-57 of approximately 9 millicuries used for gamma camera flood checks). These sealed sources will be transferred to the following hospital: HealthEast - St. John's Hospital, NRC License # 22-24441-01. The sealed sources will be leak tested and must have negative results, prior to transfer.

Thank you in advance for review of this matter. Please contact me if you have any additional comments or considerations.

Sincerely,



Ellen Abeln, M.D.  
Radiation Safety Officer

Phone 612-232-5187  
FAX 612-232-5870

*Termination*  
**FEE EXEMPT**

**RECEIVED**  
**DEC 19 1996**  
**REGION III**

FEB 03 1997

Douglas P. Cropper  
Administrator  
Midway Hospital  
1700 University Avenue  
St. Paul, MN 55104

Dear Mr. Cropper:

Enclosed is Amendment No. 16 which terminates your NRC License Number 22-02491-03 in accordance with your request.

If you have any questions or require clarification on any of the information stated above, you may contact us at (630) 829-9887.

Sincerely,

Original Signed By  
Michael F. Weber  
Nuclear Materials Licensing Branch

License No.: 22-02491-03  
Docket No.: 030-14417

Enclosure: Amendment No. 16

cc w/encl: Judy Brueggeman, NMT  
1875 Rome Ave.  
St. Paul, MN 55116

DOCUMENT NAME: M:\03014417.T7

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DNMS/RIII								
NAME	MWEBER:jaw								
DATE	01/31/97								

OFFICIAL RECORD COPY

302148

U. S. Nuclear Regulatory Commission  
Materials Licensing  
Region III  
801 Warrenville Road  
Lisle, Illinois 60532-4351

Jan. 21, 1997

Dear Sirs:

This letter is in accordance with our previous letter of Dec. 13, 1996 and your Control Number of 302148. Effective January 21, 1997, the NRC License for Midway Hospital, 1700 University Ave., St. Paul, Mn, 55104, NRC # 22-02491-03 should be considered terminated. On Jan. 15, 1997 the two sealed sources (Cs-137, SN#NES356, 197 microcuries on 10/1/73 {now 130 microcuries} and Co-57, SN#A4260, 20 millicuries on 12/22/95 {now 9 millicuries} were transferred to HealthEast-St. Johns Hospital, NRC License #22-24441-01.

Enclosed please find a NRC Form 314 - Certification of Deposition of Materials and a Decommissioning survey performed on Jan. 20, 1997 by our consultant physicist, J Thomas Payne PhD.

The sealed sources were leak tested on Jan. 15, 1997 (report enclosed) and were NOT leaking. They were acceptable for transfer.

The Decommissioning survey indicated that there was NO radioactive material present in any of the areas where by-product material were used. These areas are NOT contaminated and released to general use.

Please direct any future correspondence to: Judy Brueggeman NMT  
1875 Rome Ave.  
St. Paul, MN 55116

Sincerely,



Ellen Abeln, MD  
Radiation Safety Officer

RECEIVED  
JAN 27 1997  
REGION III

Pm: 1-22-97



(3-93)

10 CFR 30.38(c)(1)(iv)

10 CFR 40.42(c)(1)(iv)

10 CFR 70.38(c)(1)(iv)

EXPIRES: 05/31/95

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 30 MINUTES. THIS MANDATORY SUBMITTAL IS USED BY NRC AS PART OF THE BASIS FOR ITS DETERMINATION THAT THE FACILITY HAS BEEN CLEARED OF RADIOACTIVE MATERIAL BEFORE THE FACILITY IS RELEASED FOR UNRESTRICTED USE. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0028), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

# CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED -- PRINT OR TYPE

SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE

LICENSEE NAME AND ADDRESS

Midway Hospital  
1700 University Ave.  
St Paul, MN 55104

LICENSE NUMBER

22-02491-03

LICENSE EXPIRATION DATE

Sept. 30, 1999

## A. MATERIALS DATA (Check one and complete as necessary)

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:

(Check and/or complete the appropriate item(s) below.)

☐ 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.

OR

☒ 2. ALL ACTIVITIES AUTHORIZED BY THE LICENSE HAVE CEASED AND ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions including the disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

Two sealed sources: ① Cs-137 197mCi on 10/1/73 (now ~130mCi) SN# NES 356

② Co-57 20mCi on 12/22/95 (now ~9mCi) SN# A 4260  
Flood Source

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and license number.

Transfer date: 1/15/97 Recipient: Health East - St John's Hospital

NRC #: 22-24441-01

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the specific disposal procedures (e.g., decay in storage).

Not applicable

## B. OTHER DATA

☐ 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.  
☐ 2. A RADIATION SURVEY WAS CONDUCTED BY THE LICENSEE TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE. (Check one)

☐ NO (Attach explanation)

☒ YES, THE RESULTS (Check one)

☒ ARE ATTACHED, or

☐ WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME

Judy Brueggemann

TELEPHONE NUMBER  
(Include Area Code)

612 698-8159

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

Judy Brueggemann  
1875 Rome Ave.  
St Paul, MN 55116

## CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Ellen Abeln, MD R.S.O.

SIGNATURE

Ellen Abeln MD

DATE

1/21/97

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTIONS.

FILE CERTIFICATES AS FOLLOWS:

IF YOU ARE A DISTRIBUTOR OF EXEMPT PRODUCTS, SEND TO:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

ALL OTHERS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE,  
MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW  
JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR  
VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANCE SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI,  
NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA,  
TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,  
SEND APPLICATIONS TO:

NUCLEAR MATERIALS SAFETY SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
101 MARIETTA STREET NW, SUITE 2900  
ATLANTA, GA 30323-0190

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI,  
OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
801 WARRENVILLE ROAD  
LISLE, IL 60532-4351

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA,  
MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA,  
OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING,  
SEND APPLICATIONS TO:

MATERIAL RADIATION PROTECTION SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-8064

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON,  
PACIFIC TRUST TERRITORIES, OR WASHINGTON, SEND  
APPLICATIONS TO:

NUCLEAR MATERIALS SAFETY SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
1450 MARIA LANE  
WALNUT CREEK, CA 94596-5368

**MIDWEST RADIATION CONSULTANTS, INC.**  
RADIATION THERAPY - RADIATION SAFETY - MEDICAL IMAGING

P.O. BOX 26218  
ST PAUL, MN 55126  
612/863-5171

Judy Brueggemann, CNM  
Midway Hospital / Health East  
Nuclear Medicine  
1700 University Ave. West  
St. Paul, MN 55104

1/20/97

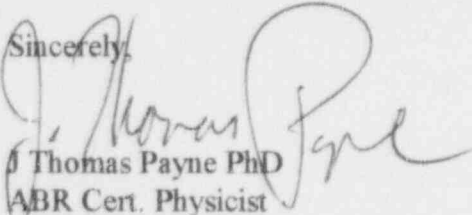
Dear Judy,

Enclosed please find the Midway Hospital Nuclear Medicine Decommissioning measurements and final sealed source leak test results.

1. A Sealed Source leak test was performed and the results were negative prior to transfer of the sources (separate form).
2. Radiation area measurements were made using a thin-end window Ludlum GM survey meter (type 14c SN#86147, calibrated 1/17/97) for all the areas where radioactive material was used. All areas were at background levels and NO radioactive material was detected (separate form).
3. Contamination Wipe tests were performed and the wipes counted using the Picker Spectroscaler with a window set at 80-700keV (last cal. check 7/15/96). All wipe results were below 200dpm and acceptable (separate forms).

The Midway Hospital Nuclear Medicine department is NOT contaminated and does NOT contain any measurable radioactive material. This area is free to be used by any other occupants.

Sincerely,

  
Thomas Payne PhD  
ABR Cert. Physicist



# SEALED SOURCE LEAK TEST

Midway Hospital  
Nuclear Medicine  
NRC License 22-02491-03

Date: 1/15/97

By: Tom Payne PhD  
Judy Brueggeman NMT

Std Source: Cs-137 0.1 uCi NUC # 10185

NaI Scintillation counter: Picker Spectorscaler (80-700keV) last cal. 7/15/96

Background 852 / 2 min

Std count 131414 / 2 min

Net Std 130562 / 2 min

uCi/cpm .00000153 uCi/cpm

## Sealed Sources

## Net Cpm

## Removeable Act.

1. Cs137 197uCi 10/1/73  
SN# NES 356

7

.00001 uCi

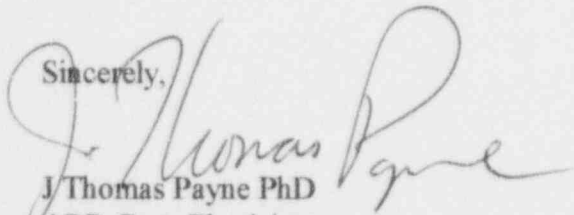
2. Co57 20mCi 12/22/95  
SN# A4260 (Flood source)

33

.00005 uCi

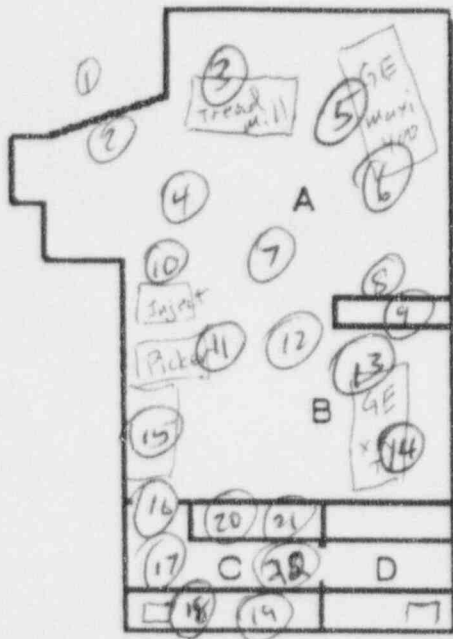
1. ☒ Removeable activity is less than 0.005uCi, which is acceptable. X Yes
2. The removeable activity from the following sources was above 0.005uCi.  
The following action is required:

Sincerely,

  
J. Thomas Payne PhD  
ABR Cert. Physicist  
FACR

# AREA SURVEY MIDWAY HOSPITAL - NUCLEAR MEDICINE

Date: 1/20/97  
By: Tom Payne PhD



- A. Camera #1 Imaging Area and Injection Area
- B. Camera #2 Imaging Area
- C. Work Lab
- D. Hot Lab

Survey meter: Ludlum GM 14c SN#86147

Last cal. 1/17/97

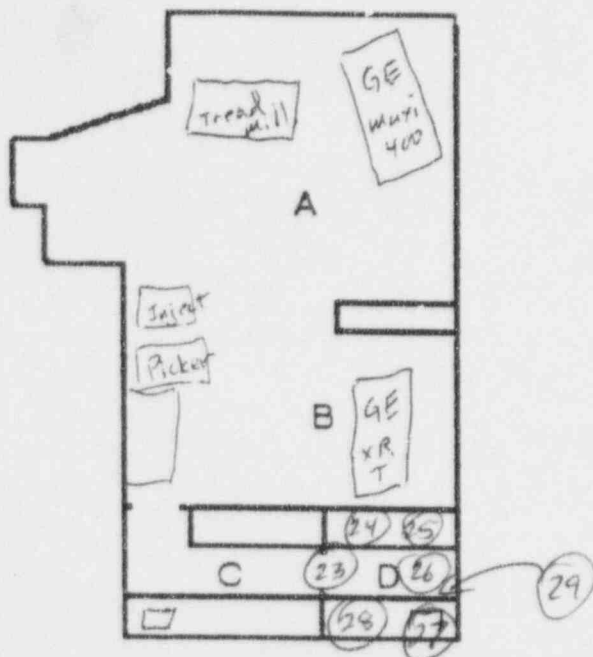
Background rdg: 0.02 mr/hr

Location	Reading (mr/hr)
1 Entrance	.02
2 Door	.02
3 Tread	.03
4 Floor	.04
5 GE maxi 400	.02
6 GE table	.03
7 Floor	.04
8 cabinet	.03
9 cabinet inside	.02
10 Inject	.02
11 Picker	.02

Location	Reading (mr/hr)
12 Floor	.03
13 GE CRT	.04
14 GE Table	.05
15 Counter	.02
16 Door	.03
17c Floor	.04
18c sink	.02
17c Counter	.02
20c Counter	.04
21c Cabinet	.02
22c Floor	.03

*[Handwritten signature]*

# AREA SURVEY MIDWAY HOSPITAL - NUCLEAR MEDICINE

Date: 1/20/97By: Tom Pyne PhD

- A. Camera #1 Imaging Area and Injection Area
- B. Camera #2 Imaging Area
- C. Work Lab
- D. Hot Lab

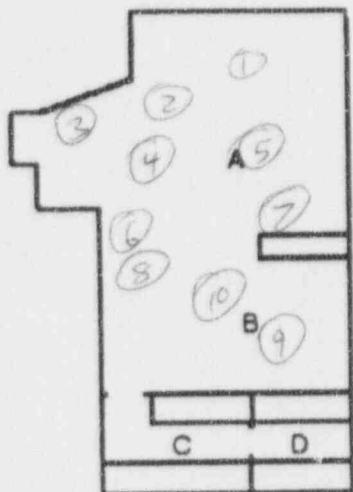
Survey meter: Cuddlum GM/4c SN# 86147Last cal. 1/17/97Background rdg: 0.02 mr/hr

Location	Reading (mr/hr)
23D Door	.02
24D Counter	.04
25D Cabinet	.03
26D Floor	.02
27D L Block	.02
28D Dose Cal.	.02
29D Cabinet	.02

Location	Reading (mr/hr)

MIDWAY HOSPITAL  
NUCLEAR MEDICINE - WEEKLY WIPE TEST

Date: 1/20/97  
By: Tom Payne PhD



- A. Camera #1 Imaging Area and Injection Area
- B. Camera #2 Imaging Area
- C. Work Lab
- D. Hot Lab

WIPE TEST

ACTION LEVEL = 2000 DPM

Background: 852 cts/2 min  
Cs-137 Standard: 13414 cts/2 min

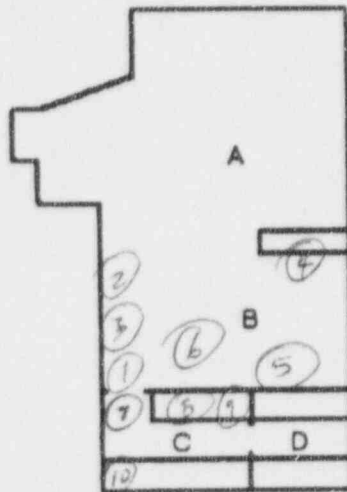
(Conversion Factor = 3.37 DPM/CPM) ✓

Net

Wipe #	Room	Wipe Area	Cts/2 min	Conversion	DPM
1	A	GE Maxi 400	22	CPM x 3.37 =	38
2	A	Tread Mill	72	CPM x 3.37 =	121
3	A	Entry Door	0	CPM x 3.37 =	0
4	A	Floor (entry)	34	CPM x 3.37 =	57
5	A	Floor (ctr)	27	CPM x 3.37 =	45
6	A	Injection table	15	CPM x 3.37 =	26
7	A	Cabinet area	78	CPM x 3.37 =	132
8	A	Picker scaler	9	CPM x 3.37 =	15
9	B	GE XR4	28	CPM x 3.37 =	48
10	B	Floor (mid)	58	CPM x 3.37 =	97

MIDWAY HOSPITAL  
NUCLEAR MEDICINE - WEEKLY WIPE TEST

Date: 1/20/97  
By: Tom Payne PhD



- A. Camera #1 Imaging Area and Injection Area
- B. Camera #2 Imaging Area
- C. Work Lab
- D. Hot Lab

WIPE TEST

ACTION LEVEL = 2000 DPM

Background: 852 cts/2 min

Cs-137 Standard: 131414 cts/2 min

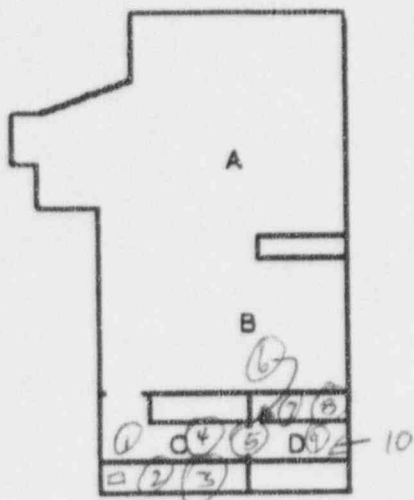
(Conversion Factor = 3.37 DPM/CPM) ✓

Net

Wipe #	Room	Wipe Area	Cts/2 min	Conversion	DPM
1	B	Floor (to C)	50	CPM x 3.37 =	84
2	B	Counter top N	42	CPM x 3.37 =	71
3	B	Counter top S	0	CPM x 3.37 =	0
4	B	Cabinet	37	CPM x 3.37 =	62
5	B	Collimators	94	CPM x 3.37 =	158
6	B	Area by GE	17	CPM x 3.37 =	29
7	C	Entry door	30	CPM x 3.37 =	51
8	C	N. Cabinet	52	CPM x 3.37 =	87
9	C	N. Cabinet	14	CPM x 3.37 =	24
10	C	Sink	39	CPM x 3.37 =	66

MIDWAY HOSPITAL  
NUCLEAR MEDICINE - WEEKLY WIPE TEST

Date: 1/20/97  
By: Tom Payne PhD



A. Camera #1 Imaging Area  
and Injection Area  
B. Camera #2 Imaging Area  
C. Work Lab  
D. Hot Lab

WIPE TEST

ACTION LEVEL = 2000 DPM

Background: 852 cts/2 min

Cs-137 Standard: 131414 cts/2 min

(Conversion Factor = 3.37 DPM/CPM)

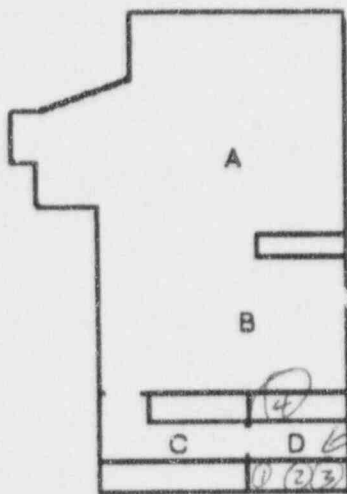
Net

Wipe #	Room	Wipe Area	Cts/2 min	Conversion	DPM
1	C	Floor (sink)	43	CPM x 3.37 =	72
2	C	S Counter	30	CPM x 3.37 =	50
3	C	S Counter	71	CPM x 3.37 =	119
4	C	Floor (mid)	97	CPM x 3.37 =	164
5	C	Floor to D	26	CPM x 3.37 =	43
6	D	Entry door	45	CPM x 3.37 =	76
7	D	N Counter top	10	CPM x 3.37 =	17
8	D	N Counter top	19	CPM x 3.37 =	32
9	D	Floor (ctr)	34	CPM x 3.37 =	57
10	D	Floor (LBK)	48	CPM x 3.37 =	81



MIDWAY HOSPITAL  
NUCLEAR MEDICINE - WEEKLY WIPE TEST

Date: 1/20/97  
By: Tom Page PhD



- A. Camera #1 Imaging Area and Injection Area
- B. Camera #2 Imaging Area
- C. Work Lab
- D. Hot Lab

WIPE TEST

ACTION LEVEL = 2000 DPM

Background: 852 cts/2 min

Cs-137 Standard: 131414 cts/2 min

(Conversion Factor = 3.37 DPM/CPM)

*Net*

Wipe #	Rcom	Wipe Area	Cts/2 min	Conversion	DPM
1	D	Counter(s)	37	CPM x 3.37 =	62
2	D	SCounter	15	CPM x 3.37 =	26
3	D	SCounter (L Bk)	33	CPM x 3.37 =	55
4	D	Upper Cabinet	66	CPM x 3.37 =	112
5	D	Upper Cabinet	42	CPM x 3.37 =	71
6	D	Pose Calibrator	64	CPM x 3.37 =	107
7	D	Under cabinet	14	CPM x 3.37 =	24
8				CPM x 3.37 =	
9				CPM x 3.37 =	
10				CPM x 3.37 =	