

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with letter dated December 4, 1996	
1. MidAmerica HealthCare, Inc. dba Shawnee Regional Hospital		3. License number 35-13058-01 is amended in its entirety to read as follows:	
2. 1102 West MacArthur Shawnee, Oklahoma 74801		4. Expiration date March 31, 2003	
		5. Docket or Reference No 030-02920	
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	
A. Any byproduct material identified in 10 CFR 35.100	A. Any radiopharmaceutical identified in 10 CFR 35.100	A. As needed	
B. Any byproduct material identified in 10 CFR 35.200	B. Any radiopharmaceutical identified in 10 CFR 35.200	B. As needed	
C. Any byproduct material identified in 10 CFR 35.300	C. Any radiopharmaceutical identified in 10 CFR 35.300	C. 500 millicuries	
D. Any byproduct material identified in 10 CFR 35.500	E. Sealed sources for diagnostic devices identified in 10 CFR 35.500	E. As needed	
E. Any byproduct material identified in 10 CFR 31.11	F. Prepackaged Kits	F. As needed	

200089

OFFICIAL RECORD COPY

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PDR ADOCK 03002920  
C PDR

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-13058-01

Docket or Reference Number

030-02920

Amendment No. 28

9. Authorized use

- A. Medical use described in 10 CFR 35.100.
- B. Medical use described in 10 CFR 35.200.
- C. Medical use described in 10 CFR 35.300.
- D. Medical use described in 10 CFR 35.500.
- E. In vitro studies.

CONDITIONS

- 10. Location of use: Shawnee Regional Hospital, 1102 West MacArthur Road, Shawnee, Oklahoma.
- 11. Radiation Safety Officer: R. Eugene Hilton.
- 12. Authorized Users:
  - A. C. K. Wisdom, M.D., for material identified in 10 CFR 35.100, 35.200, 35.300, 35.500, and 31.11.
  - B. William G. Phillips, M.D., for material identified in 10 CFR 35.100, 35.200, 35.300, 35.500, and 31.11.
  - C. R. G. Wilson, M.D., for material identified in 10 CFR 35.100, 35.200, 35.300, 35.500, and 31.11.
  - D. Clinton A. Medbery, III, M.D., for material identified in 10 CFR 35.300, 35.500, and 31.11.
  - G. John R. Taylor, M.D., for material identified in 10 CFR 35.300, 35.500, and 31.11.
- 13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

35-13058-01

Docket or Reference Number

030-02920

Amendment No. 28

14. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated November 21, 1990
- B. Letter dated December 7, 1992
- C. Facsimile received March 2, 1993
- D. Letter dated October 1, 1993
- E. Letter dated December 13, 1993
- F. Letter dated January 4, 1994
- G. Letter dated November 6, 1995
- H. Letter dated January 31, 1996
- I. Letter dated December 4, 1996

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 23 1997

By M.C. Hernandez  
Christi Hernandez  
Nuclear Materials Licensing Branch  
Region IV  
Arlington, Texas 76011



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

January 23, 1997

MidAmerica HealthCare, Inc.  
dba Shawnee Regional Hospital  
ATTN: R. Eugene Hilton  
Radiation Safety Officer  
1102 West MacArthur  
Shawnee, Oklahoma 74801

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. 35-13058-01. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at 817-860-8217.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
  - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
  - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
  - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
  - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
  - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

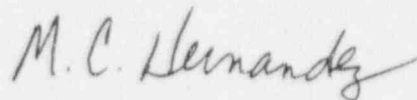
You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), 60 FR 34381, June 30, 1995.

MidAmerica HealthCare, Inc.  
dba Shawnee Regional Hospital

-3-

Thank you for your cooperation.

Sincerely,

A handwritten signature in dark ink, appearing to read "M. C. Hernandez". The signature is fluid and cursive, with a long horizontal stroke at the end.

Christi Hernandez, Radiation Specialist  
Nuclear Materials Licensing Branch

Docket: 030-02920  
License: 35-13058-01  
Control: 466269

Enclosures: As stated



MidAmerica HealthCare, Inc.  
dba Shawnee Regional Hospital

-4-

JAN 23 1997

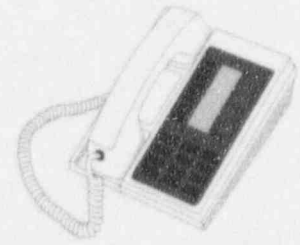
DOCUMENT NAME: G:\NMLS.O\MCH\35-13058.MLC

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:NMLB	N						
MCHernandez	MCH						
1/23/97							

OFFICIAL RECORD COPY

## VOICEMAIL CONVERSATION RECORD



DATE: January 17, 1997

PARTICIPANTS: Mr. Eugene Hilton, RSO

ORGANIZATION: Shawnee Regional Hospital  
35-13058-01

REGION-IV  
ARLINGTON, TEXAS

TELEPHONE NUMBER: 406-273-2270 ext 440

SUBJECT: Additional information for amendment request

### SUMMARY OF CONVERSATION:

On January 16, 1997, Mr. Hilton and I discussed the final survey of the Nuclear Medicine Area provided by letter dated December 4, 1996. I was unable to reconcile the map provided with a previously submitted map of Shawnee's areas of use. Mr. Hilton was able to clarify the information on the December 4 map and I now understand how the two maps relate. However, location #6 was not identified on the December 4 map. Mr. Hilton agreed to contact Dr. Richter in order to clarify this location.

Mr. Hilton was able to confirm the position of location #6 which lies to the left of location #5 on the map. Location #6 designated as "floors" represents an area including the treadmill room.

M.C. Hernandez  
SIGNATURE

1/21/97  
DATE





Locations as  
described by Mr. Hilton  
and Mr. Richter.

WAITING

4  
3 HOT  
2 LAB  
1

NUCLEAR  
MED  
SCAN  
ROOM  
5

CORRIDOR 7

6

Treadmill  
Room

RADIATION  
THERAPY

CORRIDOR

X-RAY EQUIPMENT COMPANY

SOURCE DISPOSAL CERTIFICATE

THIS IS TO CERTIFY THAT A COBALT 60 SOURCE;

MODEL NUMBER: NPI-20-6000W

SERIAL NUMBER: T-1200

CATALOG NUMBER: \_\_\_\_\_

CONTAINING 5940 CI COBALT 60

MEASUREMENT DATE: 4 / 24 / 92

THE ABOVE SOURCE HAS BEEN DETERMINED BY WIPE TEST TO BE FREE OF REMOVABLE CONTAMINATION. THIS SOURCE HAS BEEN REMOVED FROM THE TELETHERAPY UNIT DESCRIBED AS FOLLOWS;

MANUFACTURER: Picker

MODEL NUMBER: C-9P

SERIAL NUMBER: 331

THE ABOVE UNIT HAS ☒ HAS NOT ☐ BEEN REMOVED FROM SERVICE.

AND IS HEREBY TRANSFERED TO:

X-RAY EQUIPMENT COMPANY  
P.O. BOX 2431  
FORT WORTH, TEXAS 76113

TEXAS RADIOACTIVE MATERIAL LICNESE L01485

FROM THE POSSESSION OF:

Shawnee Regional Hospital

1102 W. MacArthur

Shawnee, OK 74801

RADIOACTIVE MATERIAL LICENSE NUMBER: 35-13058-02

REPRESENTATIVE OF USER:

Robert Eugene Austin, RSO

X-RAY EQUIPMENT COMPANY

[Signature]

DATE 11 / 26 / 96

DATE 11 / 26 / 96

P.O. BOX 2431 FORT WORTH, TEXAS 76113

(817)536-2661

466269



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

December 18, 1996

MidAmerica HealthCare, Inc.  
dba Shawnee Medical Center  
ATTN: Ronald E. Hilton  
Radiation Safety Officer  
1102 W. MacArthur Road  
Shawnee, Oklahoma 74801

SUBJECT: ACKNOWLEDGMENT OF REQUEST FOR LICENSING ACTION

REFERENCE: LETTER DATED DECEMBER 4, 1996

We have completed the administrative review and initial processing of your application.

During the initial processing omissions were identified. These include: No drawings were found of the new Nuclear Medicine Department layout. The identified information should be provided within 30 days of the date of this letter so that your request can be forwarded for technical review. Please note that the technical review may identify additional omissions in the submitted information or technical issues that require additional information.

Amendment actions are normally processed within 60 days, unless the technical review identifies:

- Major technical deficiencies
- Decommissioning/decontamination activities are required before an application can be completed
- Confirmatory closeout surveys after decontamination/decommissioning activities are required before a license can be terminated or a facility removed from the license
- Policy issues are identified that require input and coordination with other NRC Regional offices, Agreement State offices, or NRC's Office of Nuclear Materials and Safeguards

A copy of your correspondence has been forwarded to our License Fee and Accounts Receivable Branch, Office of the Controller, who will contact you separately if the appropriate license fee has not been submitted for your request, or for billing if your request is subject to full cost recovery.

Any correspondence about this application should reference the Control number listed below.

Sincerely,

Original Signed By  
Billie Gruszynski

Billie Gruszynski (Ms.)  
Nuclear Materials Licensing Branch

License: 35-13058-01  
Docket: 030-02920  
Control: 466265

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	RIV:NMLB	N					
NAME	BGruszynski	<i>Bg</i>					
DATE	12/8/96						



LICENSE FEE AND DEBT COLLECTION BRANCH  
DIVISION OF ACCOUNTING AND FINANCE  
OFFICE OF THE CONTROLLER  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001RECEIVED  
DEC 23 1996  
REGION IV  
LICENSE FEE REQUIREMENTSMIDAMERICA HEALTHCARE, INC.  
ATTN: R. EUGENE HILTON  
RADIATION SAFETY OFFICER  
1102 WEST MACARTHUR  
SHAWNEE, OK 74801

## TYPE OF ACTION

- ☐ NEW LICENSE  
☐ RENEWAL OF LICENSE  
☒ AMENDMENT TO LICENSE

## REQUESTED DATE

12-4-96

## LICENSE NUMBER

35-13058-01

## CONTROL NUMBER

466269 ATTN: RITA MESSIER, LFARB, T9E10

## I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
7C	\$	\$	\$ 440.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(S) DUE \$ 440.00  
PAYMENT RECEIVED \$  
AMOUNT DUE \$ 440.00

☒ Your request was received without the prescribed application fee.

☐ We received your Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE - LICENSE FEE ANALYST

RITA MESSIER

LFDCB

REMessier

12/16/96

LFDCB

## II. FEE NOT REQUIRED

☐ Enclosed is Check No. \_\_\_\_\_ which accompanied your request. The fee is not required because:

☐ We received your Check No. \_\_\_\_\_ in payment of the fee.

☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated \_\_\_\_\_, Control No. \_\_\_\_\_.

☐ Your request was combined, prior to review, with your \_\_\_\_\_ request, Control No. \_\_\_\_\_.

## III. CHECK RETURNED

☐ Enclosed is Check No. \_\_\_\_\_ which was returned to us by the bank for:

☐ INSUFFICIENT FUNDS

☐ ACCOUNT CLOSED

☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

## IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. \_\_\_\_\_, Amendment No. \_\_\_\_\_, issued on \_\_\_\_\_ was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

Distribution:

Pending Fee File

LFARB R/F (2)

OC/DAF RF

OC/DAF/SF (LF-327)

Region - RIV

DATE

12-16-96

(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

Program Code: 02120  
Status Code: 0  
Fee Category: 7C  
Exp. Date: 20030331  
Fee Comments: CODE 16  
Decom Fin Assur Req'd: N

1996 DEC 16 AM 9:36

LICENSE FEE TRANSMITTAL

A. REGION IV

1. APPLICATION ATTACHED

Applicant/Licensee: MIDAMERICA HEALTHCARE, INC.  
Received Date: 961211  
Docket No.: 3002920  
Control No.: 480268  
License No.: 35-13058-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: 4  
Check No.: 4

3. COMMENTS

Signed  
Date

Billig Myszyński  
12/12/96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / -)

1. Fee Category and Amount: 7C \$440

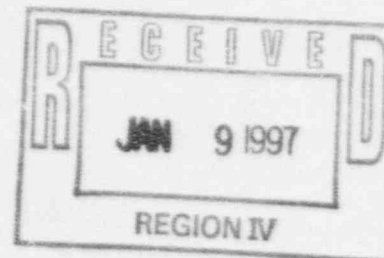
2. Correct Fee Paid. Application may be processed for:

Amendment ✓  
Renewal      
License    

3. OTHER    

Signed  
Date

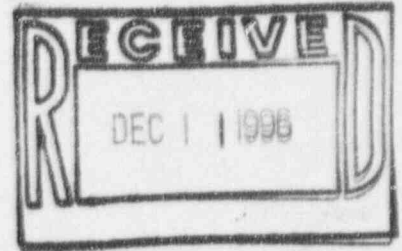
Rita Snesler  
1/6/97



\$9500 for ARM 1330-97  
\$4300 for ARM 1331-97

Loc:	Dec 2 IV
Submitter:	
Check No:	928421
Amount:	\$14,340 (\$440 applied)
Fee Category:	7C
Type of Fee:	Amend
Date Check Paid:	1/6/97
Date Cleared:	
By:	Rem

St Louis  
Deposited



December 4, 1996

U.S. Nuclear Regulatory Commission  
Materials Licensing Section, Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, Texas 76011-8064

Re: Relocation Nuclear Medicine  
License #35-13058-01  
Close Out Radiation Survey  
Teletherapy Source and Machine Removal  
License #35-13058-02  
Close Out Radiation Survey

Gentlemen:

Please find enclosed relevant documents resulting from moving our Nuclear Medicine department to its new location. Close out area surveys have been performed and placarding removed from the old department. Area surveys, equipment calibrations and air exchange measurements have been performed by our physicist for the new area. The old department will be renovated in the future as a patient care area. We have decided to limit access to this area until we hear from the commission regarding this matter.

Also find enclosed documents pertaining to the source removal and Cobalt-60 teletherapy unit removal to licensee #L01485, X-ray Equipment Company, 2214 Highway 1187, Mansfield, Texas 76063. Access to this area will be limited until we hear from the commission regarding this matter.

Should you have any questions regarding these issues, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "R. Eugene Hilton".

R. Eugene Hilton B.S., R.T. (R) (T) (N)  
Radiation Safety Officer

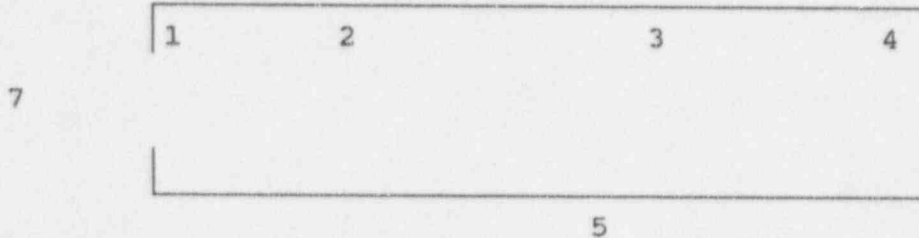
466269

# PHYSICIST'S REPORT

Shawnee Regional Hospital  
Shawnee, Oklahoma  
License # 35-13058-01

## Close Out Radiation Survey

Nuclear Medicine Area - Lower Level



Survey Meter: Victoreen 493 (calibrated 06-13-96)  
Wipe Test: Ludlum 2200 Scaler/well

### Nominal efficiencies

Cs-137	0.28
Ba-133	0.76
Co-57	0.86
Co-60	0.37

<u>Area</u>	<u>mR/hr</u>	<u>Wipe Test</u>	
		<u>Gross cpm</u>	<u>Net dpm</u>
1. Sink	0.03	110	0
2. "L" Block (area)	0.03	88	0
3. Dose Calibrator area	0.03	105	0
4. Waste Storage area	0.03	98	0
5. Scanning room	0.03	112	0
6. Floors	0.03	104	0
7. Hall (background)	0.03	105	0

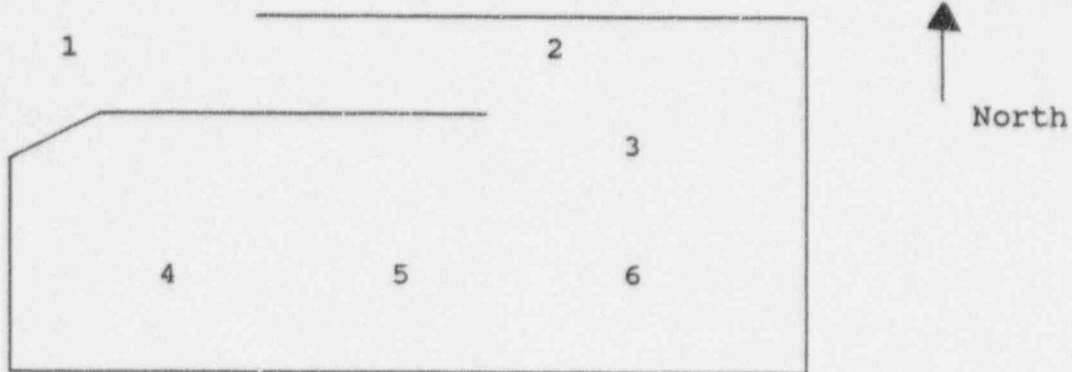
Comments: All radioactive material removed before survey. No contamination noted by survey on wipe test.

Test Conducted By: Clifford W. Dickster, PhD

DATE 11-14-96

License # 435-27523-01

Physicist Report  
Close Out Survey Co-60 Teletherapy Room  
Shawnee Regional Hospital  
Shawnee, Oklahoma  
License #35-13058-02



Survey Instruments Used:

Ludlum 14C S/N 72047 with 44-7 detector  
Calibrated 3-15-96

Ludlum Model 2200 spectrometer and well efficiency

Cs-137 = 0.28  
Co-57 = 0.86  
Co-60 = 0.37

Location	Exposure Rate	Wipe cpm	net dpm
Background	0.02 mR/hr	125	0
1. Outside entry door	0.02 mR/hr	130	0
2. Entry maze	0.02 mR/hr	123	0
3. Entry area	0.02 mR/hr	130	0
4. West area	0.02 mR/hr	104	0
5. Former location of unit	0.02 mR/hr	120	0
6. East area	0.02 mR/hr	135	0

Comments: No contamination found. Unit removed 11-25-96  
performed by license #35-27523-01.

PHYSICIST

DATE

11-25-96

SRA1196.1A

466269