

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

24-26702-01

Docket or Reference Number

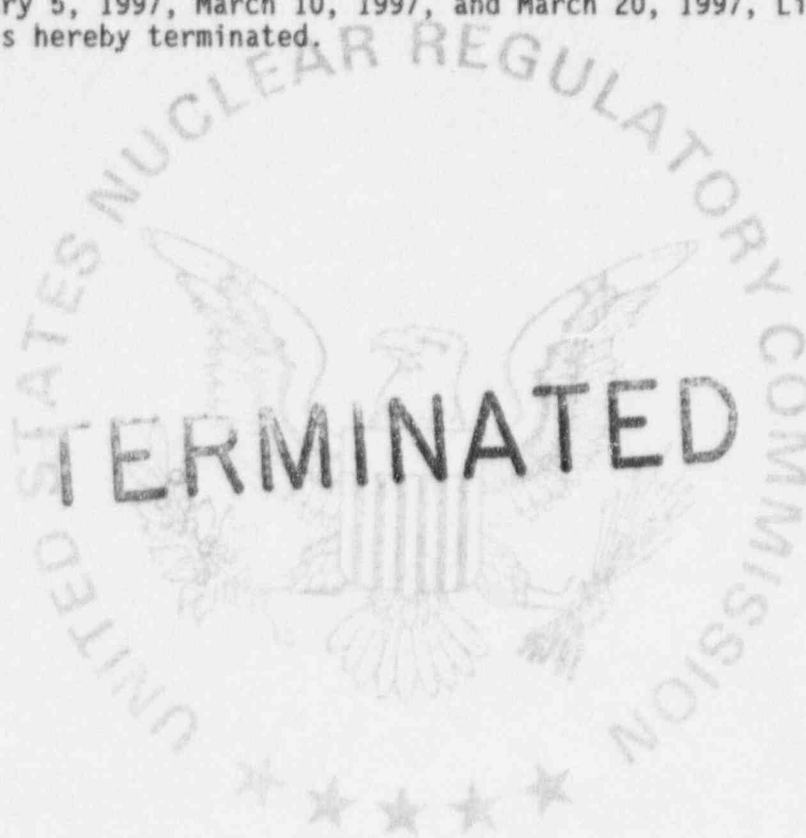
030-34073

Amendment No. 01

302308

Grim-Smith Hospital  
112 East Patterson  
Kirksville, MO 63501

In accordance with NRC Form 314 "Certificate of Disposition" dated March 21, 1997, and letters dated February 5, 1997, March 10, 1997, and March 20, 1997, License Number 24-26702-01 is hereby terminated.



110082

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date APR 03 1997

By

*William P. Reichert*  
Nuclear Materials Licensing Branch, Region III



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PDR ADOCK 03034073  
C PDR

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## 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  
Exp. Date: 20010430  
Fee Comments:  
Decom Fin Assur Req'd: N

S7  
15

## LICENSE FEE TRANSMITTAL

## A. REGION

## 1. APPLICATION ATTACHED

Applicant/Licensee: GRIM-SMITH HOSPITAL  
Received Date: 970212  
Docket No: 3034073  
Control No.: 302308  
License No.: 24-26702-01  
Action Type: Termination

## 2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.:       

## 3. COMMENTS

Signed \_\_\_\_\_  
Date 2-13-97

## B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /\_\_\_/)

1. Fee Category and Amount: 7C FEE EXEMPT

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

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

## 3. OTHER \_\_\_\_\_

Signed SAC  
Date 2/18/97

MAR 03 1997

Log	<u>Feb 8 711</u>
Remitter	_____
Check No.	_____
Amount	_____
Fee Category	<u>7C</u>
Type of Fee	<u>Amid</u>
Date Check Rec'd	_____
Date Completed	<u>2/18/97</u>
By	<u>SC</u>

1997 FEB 18 PM 1:40

NRC FORM 314 (6-96) 10 CFR 30.36(c)(1)(iv) 10 CFR 40.42(c)(1)(iv) 10 CFR 70.38(c)(1)(iv)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0028		EXPIRES: 06/30/98	
<b>CERTIFICATE OF DISPOSITION OF MATERIALS</b>				ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION REQUEST: 30 MINUTES. THIS 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 (1-B F23), 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. AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO, A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A CURRENTLY VALID OMB CONTROL NUMBER.			
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 Northeast Regional Medical Center Patterson Campus 112 E Patterson Kirksville MO 63501-5800				LICENSE NUMBER 24-26702-01 LICENSE EXPIRATION DATE 04/30/2001			
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.)							
<input type="checkbox"/> 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.							
<input checked="" type="checkbox"/> 2. ALL ACTIVITIES AUTHORIZED BY THE LICENSE HAVE CEASED AND ALL MATERIALS PROCURED AND/OR POSSESSED BY 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.  Not Applicable							
For transfers, specify the date of the transfer, the name of the license recipient, and the recipient's NRC license number or Agreement State name and license number. All sealed sources were transferred to Northeast Regional Medical Center (Formerly Kirksville Osteopathic Medical Center) NRC License #24-05245-01 on 12/24/96.  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							
<input checked="" type="checkbox"/> 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)							
<input type="checkbox"/> NO (Attach explanation)							
<input checked="" type="checkbox"/> YES, THE RESULTS (Check one)							
<input checked="" type="checkbox"/> ARE ATTACHED, or							
<input type="checkbox"/> WERE FORWARDED TO NRC ON (Date)							
3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM		NAME Mark S. Collins		TELEPHONE NUMBER (Include Area Code) 816-626-2256		302308	
4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO Northeast Regional Medical Center PO Box C8502 Kirksville MO 63501				RECEIVED Pm 2-7-97 FEB 12 1997			
CERTIFYING OFFICIAL							
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT.				REGION III			
PRINTED NAME AND TITLE Charles M. Boughton Senior Vice President		SIGNATURE <i>Charles M. Boughton</i>		DATE 2/6/97			
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.							



# Northeast Regional Medical Center

Jefferson & Osteopathy  
P.O. Box C8502  
Kirksville, MO 63501-8599  
(816) 785-1000

February 5, 1997

Materials Licensing Section  
US Nuclear Regulatory Commission, Region III  
801 Warrensville Rd  
Lisle IL 60352

REF: License #24-26702-01

Dear Sirs:

As indicated in our letter to you dated 12/24/96, we have discontinued use of the above mentioned license and wish to terminate it.

Enclosed is a completed decommissioning report for the facility covered by this license. Also enclosed is a completed form 314.

Other documentation required:

*Records of Public Dose:* This facility generated no records of this type.

*Waste disposal by release to sewers, incineration, radioactive spills, on-site burials:* This facility disposed of no radioactive materials by release to sewers, incineration, or on-site burials. There were no radioactive spills during the 10 months of operation under this license.

Thank you for your attention to these matters. If you have any questions in regard to this, please contact Mark S. Collins, Director of Clinical Services at 816-626-2256 or Jon Erickson, Consulting Physicist at 816-390-9011.

Sincerely,

Charles M. Boughton  
Senior Vice President

RECEIVED

FEB 12 1997

REGION III

# DECOMMISSIONING SURVEY

Northeast Regional Medical Center  
 -- Patterson Campus  
 (Formerly Grim--Smith Hospital)  
 Nuclear Medicine  
 112 E Patterson  
 Kirksville, MO 63501

By-Product License Number

24-26702-1

Survey Date: 01/15/97

Surveyor: Jon J. Erickson, Ph.D.

SEE ATTACHED DRAWINGS FOR LOCATION OF WIPES AND SURVEYS

All radioactive sources removed: YES  
 All radioactive warning signs removed: YES  
 Date last patient study performed: 12/24/96

Location	Survey	Wipe Test Wipe Count	Net DPM
	Background =	<0.03mR/hr	
1. Imaging area - Table top	<.03mR/hr	2525	1
2. Imaging area - Sink	<.03mR/hr	2300 NDA	
3. Imaging area - Floor	<.03mR/hr	2339 NDA	
4. Imaging area - Floor	<.03mR/hr	2401 NDA	
5. Imaging area - Floor	<.03mR/hr	2261 NDA	
6. Hot Lab - Floor	<.03mR/hr	2344 NDA	
7. Hot Lab - Floor	<.03mR/hr	2305 NDA	
8. Hot Lab - Counter top	<.03mR/hr	2255 NDA	
9. Hot Lab - Counter top	<.03mR/hr	2256 NDA	
10. Hot Lab - Sink	<.03mR/hr	2325 NDA	
11. Hot lab - Door Knob	<.03mR/hr	2277 NDA	
12. Hot Lab - Cabinet shelf	<.03mR/hr	2314 NDA	

## RADIATION SURVEY INSTRUMENTATION:

Survey Meter: Ludlem 14C  
 Probe: Ludlem Pancake Probe  
 Calibration Date: 11-Mar-96

S/N: 129002  
 S/N: 131046

## WIPE TEST COUNTING INSTRUMENTATION:

Well Counter: AtomLab 950  
 Counter: AtomLab 950

S/N: Unknown

Well Counter Efficiency: 89.4%

Last efficiency calibration date:

01/15/97

Wipe Test Bkg. = 2,520 counts in

300 Seconds

Wipetest counting time =

300 Seconds

\*\*\* DECOMMISSIONING CLEANING LEVEL: Net Activity > 200 DPM

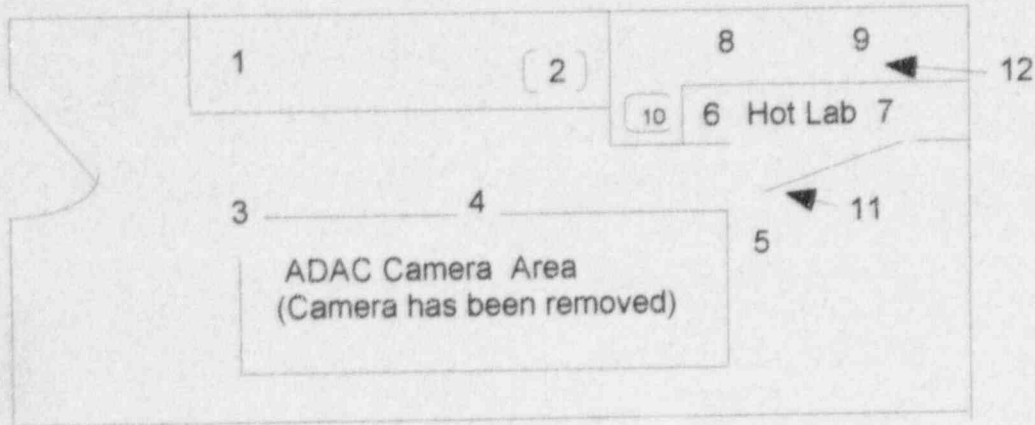
Surveyor: Jon J. Erickson Date: 1/18/97

RSO: Charles M. Brugh Date: 2-6-97

# Decommissioning Survey Locations

## Northeast Regional Medical Center - Patterson Campus

Date: 1/15/97



APR 03 1997

Charles M. Boughton  
Senior Vice President  
Grim-Smith Hospital  
112 East Patterson  
Kirksville, MO 63501

Dear Mr. Boughton:

Enclosed is Amendment No. 01 which terminates your NRC License No. 24-26702-01 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  
William P. Reichhold  
Nuclear Materials Licensing Branch

License No. 24-26702-01  
Docket No. 030-34073

Enclosure: Amendment No. 01

DOCUMENT NAME: M:\03034073.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 <i>WR</i>								
NAME	WPreichhold:brt								
DATE	04/3/97								

OFFICIAL RECORD COPY

302308

**NORTHEAST REGIONAL**  
**HEALTH SYSTEM**

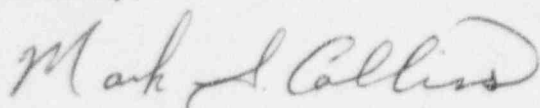
March 20, 1997

Bill Reichhold  
US Nuclear Regulatory Commission  
Region III  
801 Warrenville Rd  
Lisle IL 60532-4351

Dear Mr. Reichhold:

In response to your recent request for information, we would like to clarify that strontium-89 has been used in a liquid physical form at Grim-Smith Hospital. We have never used strontium-85 at Grim-Smith Hospital. If you have any questions or concerns, please feel free to contact me at 816-785-1600.

Sincerely,



Mark S. Collins  
Director of Clinical Services

302308  
**RECEIVED**  
**MAR 24 1997**  
**REGION III**

(C-25)

10 CFR 30.36(c)(1)(iv)

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

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

## 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

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATORY INFORMATION COLLECTION REQUEST: 30 MINUTES. THIS 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 (T-8 P33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3160-0028), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503. AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO, A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A CURRENTLY VALID OMB CONTROL NUMBER.

LICENSEE NAME AND ADDRESS

Grim-Smith Hospital  
112 E Patterson  
Kirksville MO 63501-5800

LICENSE NUMBER

24-26702-01

LICENSE EXPIRATION DATE

04/30/2001

## 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 one 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 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.

Not Applicable

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

All sealed sources were transferred to Northeast Regional Medical Center (Formerly Kirksville Osteopathic Medical Center) NRC License #24-05245-01 on 12/24/96.

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

Mark S. Collins

TELEPHONE NUMBER  
(Include Area Code)

816-785-1600

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO  
Northeast Regional Medical Center  
PO Box C8502  
Kirksville MO 63501

RECEIVED

MAR 24 1997

REGION III

## CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE

Charles M. Boughton  
Senior Vice President

SIGNATURE

DATE

3-21-97

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.



# Northeast Regional Medical Center

Jefferson & Osteopathy  
P.O. Box C8502  
Kirksville, MO 63501-8599  
(816) 785-1000

March 10, 1997

Bill Reichhold  
Materials Licensing Section  
US Nuclear Regulatory Commission, Region III  
801 Warrensville Rd  
Lisle IL 60532-43451

REF: License # 24-26702-01

Dear Mr. Reichhold:

Attached is our response to your request for additional information in regard to our request for license termination and release of facility.

Thank you for your attention to these matters.

If there are any questions in regard to this, please contact Mark S. Collins, Director of Clinical Services, at 816-785-1600 or Jon J. Erickson, Consulting Physicist, at 816-390-9011.

Sincerely,

Mark S. Collins  
Director of Clinical Services  
Grim-Smith Hospital

RECEIVED  
MAR 13 1997  
REGION III

The following is in response to your letter of February 26, 1997, regarding our request for termination of License # 24-26702-01 issued to Grim Smith Hospital, and release of the facility to unrestricted use. The numbers on the following paragraphs correspond to the numbers on the items in the list of information required which you sent to us.

**1 & 2: Isotopes used, quantities used, dates used, physical form**

This was a diagnostic Nuclear Medicine Service operating for 8 months from 4/23/96 through 12/31/96. The following isotopes and activities were used.

Tc-99m - Approximately 50 mCi/day, 5 days per week in liquid form, received as unit dose syringes.

I-131 - Total of 125 mCi, used in dry capsule form, each with less than 30 mCi each.

I-123 - Total of 6 to 7 mCi in dry capsule form

I-111 - Total of 3 mCi in unit dose syringes

Sr-85 - 4 mCi in one treatment dose.

Cs - 137 - 0.200 mCi Sealed source - Dose calibrator e-vial calibration source.

**3: Spills**

There were no spills during the period of operation of this facility.

**4: Leaking sealed sources**

There were no leaking sealed sources used or stored at this facility.

**5: Results of final survey**

Please refer to the documentation submitted with our original request for termination dated 2/6/97. This includes a map of the surveyed area, air survey results, removable contamination wipe test results.

**6: Instrumentation used for final survey**

The survey meter used for the final survey on 1/15/97 was calibrated by a professional calibration service on 3/11/97. It was a Ludlem Model 14C with a Ludlem Open Window Pancake Probe with an approximate detection efficiency of 50µR/hr.

The well counter used for the removable contamination survey was an AtomLab Model 950 Well counter with a 2" x 2" with a 1-7/16" deep well. The system was calibrated by the surveyor on the day of use. The calculated MDA for this system on the day use with the counting conditions used was 46 DPM/100cm<sup>2</sup>.

**7: Maps and drawings of locations of wipes**

Please refer to the documentation submitted with our original request for termination dated 2/6/97. This includes a map of the surveyed area and locations of the removable contamination wipe tests.

Contaminated drains lines are not an issue with this facility.

**8: Contamination remediation**

No decontamination efforts were required in this facility.

**9: Release criteria**

The release criteria used for this facility were:

Average and maximum radiation levels less than 0.2mrad/hr

Removable contamination less than 200 dpm/100cm<sup>2</sup>

**10: Contamination in excess of release guidelines to be retained**

The facility will leave no portion of the site contaminated in excess of the release guidelines.

**11: Disposition of waste from remedial action**

No remedial action was necessary, no waste was generated.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
801 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351

February 14, 1997

Paul M. Williams, D.O.  
Radiation Safety Officer  
Grim-Smith Hospital  
112 East Patterson  
Kirksville, MO 63501

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE  
(Letter & NRC Form 314 Dated 02/06/97)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License                      ☐ Amendment                      ☐ Renewal  
☒ Termination                      ☐ Auth User (Amendment not required)  
☐ Other \_\_\_\_\_

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 302308  
License No. 24-26702-01