

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

34-17088-01

Docket or Reference Number

030-12173

Amendment No. 08

Veterans Memorial Hospital
115 E. Memorial Drive
Pomeroy, OH 45769

In accordance with NRC Form 314 "Certificate of Disposition" dated November 6, 1996,
License Number 34-17088-01 is hereby terminated.

TERMINATED

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date 21 November 1996

By

William P. Reichbold

Nuclear Materials Licensing Branch, Region III

9612030090 961121
PDR ADOCK 03012173
C PDR

COPY

230
SD

57

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 02121
Status Code: 0
Fee Category: 7C
Exp. Date: 20020331
Fee Comments: CODE 23
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: VETERANS MEMORIAL HOSPITAL
Received Date: 960903
Docket No: 3012173
Control No.: 301799
License No.: 34-17088-01
Action Type: Termination

2. FEE ATTACHED

Amount: 0
Check No.: 2

3. COMMENTS

Signed
Date

D. Hersey
9-4-96

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
Date

SC
9/16/96

SEP 19 1996

RECEIVED BY LFDCB

Date: Sept. 12, 1996
Log: Sep 2 III
By: SC
Date Completed: 9/16/96



August 23, 1996

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

RE: NRC License Number 34-17088-01

Dear Sirs:

This letter is to inform you that the Nuclear Medicine Department at Veterans Memorial Hospital, 115 East Memorial Drive, Pomeroy, Ohio, 45760, wishes to terminate its Materials License as of the above date.

Please contact the undersigned should you have any questions.

Yours truly,

W. S. Lucas
Administrator

WSL/bew

Termination
FEE EXEMPT

RECEIVED
SEP 03 1996
REGION III

pm: 8-27-96

301799

NOV 21 1996

W. S. Lucas
Hospital Administrator
Veterans Memorial Hospital
115 E. Memorial Drive
Pomeroy, OH 45769

Dear Mr. Lucas:

Enclosed is Amendment No. 08 which terminates your NRC License Number 34-17088-01 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
W. P. Reichhold
Nuclear Materials Licensing Branch

License No.: 34-17088-01
Docket No.: 030-12173

Enclosure: Amendment No. 08

DOCUMENT NAME: M:\03012173.T6

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>WPR</i>								
NAME	WREICHHOLD:jaw								
DATE	11/4/96								

OFFICIAL RECORD COPY



November 7, 1996

Mr. Bill Reichhold
United States Nuclear Regulatory Commission
Region 3
801 Warrenville Road
Lisle, Illinois 60532-4351

Re: Mail control 301799


Dear Sir

In regards to the letter received from you dated 17 October 1996, we have enclosed the additional information you have requested. It is noted that Veterans Memorial Hospital Nuclear Medicine Department used only I 131 diagnostic caps (less than 30 uCi) and Tc 99m Unit Doses received from and returned to Tri State Nuclear Pharmacy in Huntington, WV. As noted the Cs 137 Dose Calibrator Source, Cs 137 Button Source, and Co 57 Button Source were transferred to Jackson General Hospital Ripley, WV NRC License # 47-17058-01. The Veterans Memorial License allowed it to receive materials from Jackson General Hospital, thus we returned these sources to them.

Please find enclosed the Radioactive Material Inventory and Leak Test Record and Closeout Survey conducted Health Physics Services Inc. of Rockville, MD.

If you should need any additional information, please feel free to contact me at (304) 372-2731.

Thank you


Roger Roush CNMT

RECEIVED
NOV 14 1996
REGION III

NRC FORM 314 (6-95) 30 CFR 30.36(c)(1)(iv) 30 CFR 40.42(c)(1)(iv) 30 CFR 70.36(c)(1)(iv)	U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0028 <small>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-6 P31), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20540-0001, 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.</small>	EXPIRES: 06/30/98						
CERTIFICATE OF DISPOSITION OF MATERIALS									
<small>INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED -- PRINT OR TYPE SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE</small>									
LICENSEE NAME AND ADDRESS: VETERANS MEMORIAL HOSPITAL 115 E. MEMORIAL DRIVE POMEROY, OHIO 45769		LICENSE NUMBER: 34-17088-01 LICENSE EXPIRATION DATE: MARCH 31, 1997							
A. MATERIALS DATA (Check one and complete as necessary)									
<small>THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT: (Check and/or complete the appropriate item(s) below.)</small>									
<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.)									
<small>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.</small>									
<small>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.</small>									
Cs-137 DOSE CALIBRATOR SOURCE 5356018-095 196uCi as of 12/4/90 TRANSFERRED TO JACKSON GENERAL HOSPITAL, TRIPLEV, WV NRC # 47-17058-01 ON SEPT 24, 1996. Cs-137 Button and Co-57 Button, both exempt, also transferred to Jackson General Hospital, Ripley WV NRC # 47-17058-01 on Sept 24, 1996.									
<small>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).</small>									
30uCi) and Tc-99m were the only two isotopes used. I-131 diagnostic capsules (less than Pharmacy (Tri State Nuclear Pharmacy, Huntington, WV) and all unused doses and waste was returned to them.									
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		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><small>NAME</small></td> <td style="width:50%;"><small>TELEPHONE NUMBER (Include Area Code)</small></td> </tr> <tr> <td>W.S. Lucas, Hosp. Administrator</td> <td>614 992 2104</td> </tr> </table>		<small>NAME</small>	<small>TELEPHONE NUMBER (Include Area Code)</small>	W.S. Lucas, Hosp. Administrator	614 992 2104		
<small>NAME</small>	<small>TELEPHONE NUMBER (Include Area Code)</small>								
W.S. Lucas, Hosp. Administrator	614 992 2104								
4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><small>NAME</small></td> <td style="width:50%;"><small>ADDRESS</small></td> </tr> <tr> <td>W.S. Lucas</td> <td>Veterans Memorial Hospital</td> </tr> <tr> <td>115 E. Memorial Drive</td> <td>Pomeroy Ohio 45769</td> </tr> </table>		<small>NAME</small>	<small>ADDRESS</small>	W.S. Lucas	Veterans Memorial Hospital	115 E. Memorial Drive	Pomeroy Ohio 45769
<small>NAME</small>	<small>ADDRESS</small>								
W.S. Lucas	Veterans Memorial Hospital								
115 E. Memorial Drive	Pomeroy Ohio 45769								
CERTIFYING OFFICIAL									
<small>I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT</small>									
<small>PRINTED NAME AND TITLE</small> W.S. Lucas, Hospital Administrator		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><small>SIGNATURE</small></td> <td style="width:50%;"><small>DATE</small></td> </tr> <tr> <td>W.S. Lucas</td> <td>11-6-96</td> </tr> </table>		<small>SIGNATURE</small>	<small>DATE</small>	W.S. Lucas	11-6-96		
<small>SIGNATURE</small>	<small>DATE</small>								
W.S. Lucas	11-6-96								
<small>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.</small>									

**HPSI Corp and Affiliated Companies**

1350 Piccard Drive, Suite 121; Rockville, MD 20850

(301) 670-1818

Fax (301) 670-9280

(800) 969-4774

Radioactive Material Inventory & Leak Test Record

Veterans Memorial Hospital

Pomeroy, Ohio

Conducted: July 11, 1996

Isotope	Manufacturer Serial/ID #	Activity	Date	Leak Test Results (uCi)
Cs-137	S356018-095	196 uCi	12/14/90	Less than 0.001
Cs-137	Button	10 uCi		Exempt
Co-57	NEN	1.29 uCi	05/19/77	Exempt

Any questions regarding the above should be directed to the undersigned.

Health Physics Services, Inc.

Radiation Safety Officer



HPSI Corp and Affiliated Companies

1350 Piccard Drive, Suite 121; Rockville, MD 20850

Fax (301) 670-9280

(301) 670-1818

(800) 969-4774

October 28, 1996

Veterans Memorial Hospital
115 E. Memorial Drive
Pomeroy, OH 457 69

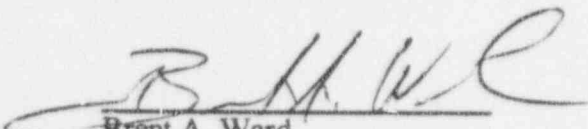
RE: Close Out Survey

On October 17, 1996, a close out survey was conducted for the nuclear medicine department at Veterans Memorial Hospital in Pomeroy, Ohio. The room which was previously used as the hot lab at the facility had been cleared of all radioactive material. During the survey, a series of wipes were conducted (documentation included) as was ambient dose rates in and around the room. Please find the enclosed documentation concerning the readings and measurements taken during the survey.

This survey should be sent to the Nuclear Regulatory Commission and the State of Ohio making reference to your radioactive materials license number. Until each of these regulatory agencies has notified your facility, you should not reassign the room. If we can provide you with any information which will expedite the process, please do not hesitate to contact us.

Sincerely,

HEALTH PHYSICS SERVICES, INC.



Brent A. Ward
Health Physicist



HPSI Corp and Affiliated Companies

1350 Piccard Drive, Suite 121, Rockville, MD 20850

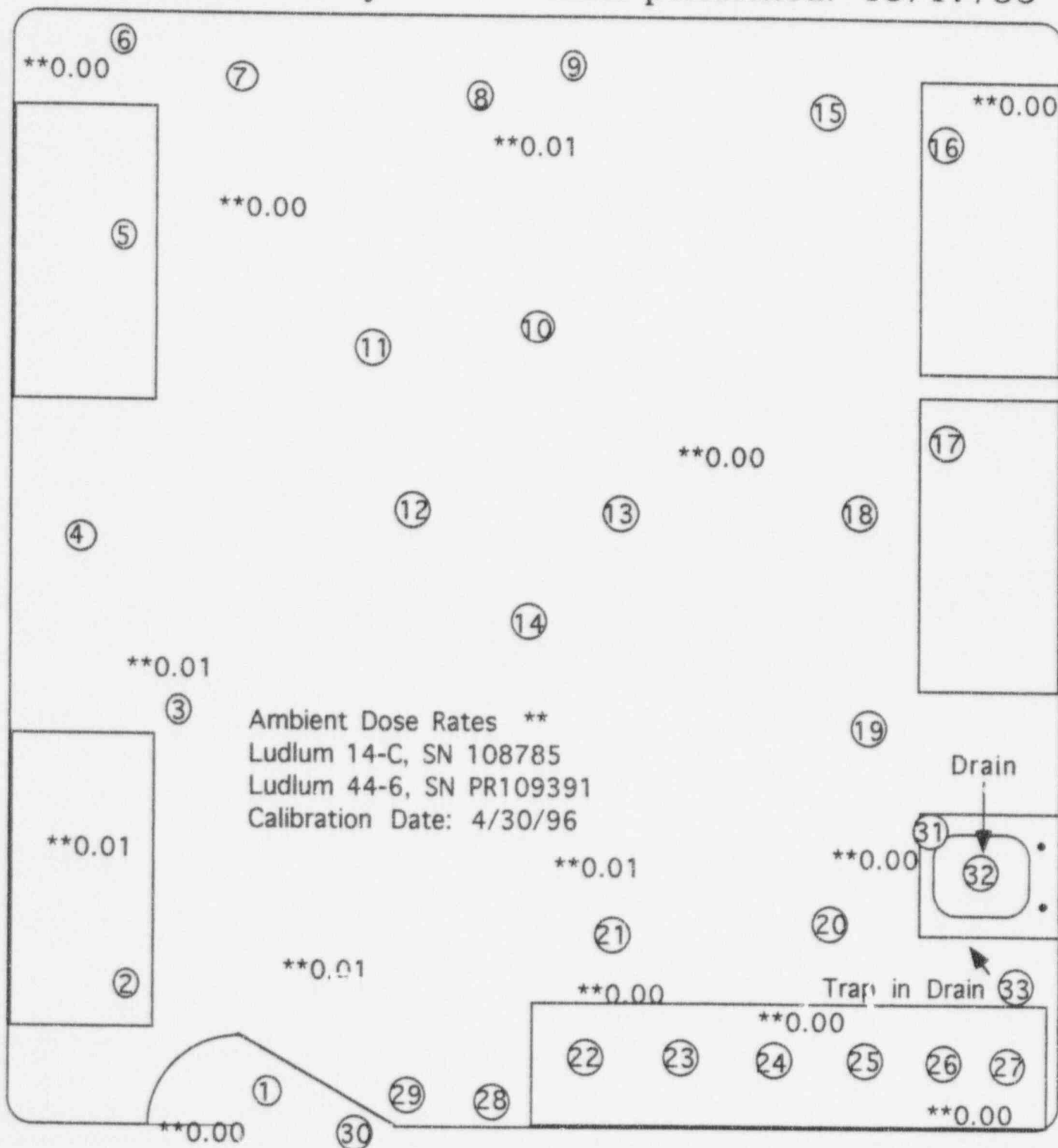
(301) 670-1818

Fax (301) 670-9280

(800) 969-4774

Veterans Memorial Hospital
Pomeroy, Ohio
Closeout Survey

Performed by: Brent A. Ward
Health Physicist
Date performed: 10/17/96



Leak Test Survey

Facility Name: Veterans Memorial

Survey Date: 17-Oct-96

Swipe No.	Location	Avg. cpm	Net dpm	Results	Maximum	Within Limits
	Nuclear Medicine					
1	Hot Lab	202	-61.269748	<BKG	<0.005	X
2	Hot Lab	209.2	-6.126975	<BKG	<0.005	X
3	Hot Lab	200.2	-75.0554417	<BKG	<0.005	X
4	Hot Lab	212.4	18.3809245	8.281E-06	<0.005	X
5	Hot Lab	198.4	-88.84113508	<BKG	<0.005	X
6	Hot Lab	215	38.293593	1.725E-05	<0.005	X
7	Hot Lab	216.2	47.484055	2.139E-05	<0.005	X
8	Hot Lab	200.4	-73.523698	<BKG	<0.005	X

Positions: 1 to 8

Instrument: Picker Well Counter

Initials: SB

Efficiency: 13.06%

Background: 210

Model: Pace-1

Serial: 227385

Calibration: 11/1/95

Scott Benjamin
Health Physics Services Inc.

MD License Number: 31-035-01

Leak Test Survey

Facility Name: Veterans Memorial

Survey Date: 17-Oct-96

Swipe No.	Location	Avg. cpm	Net dpm	Results	Maximum	Within Limits
	Nuclear Medicine					
9	Hot Lab	200.6	-71.991954	<BKG	<0.005	X
10	Hot Lab	205.4	-35.230105	<BKG	<0.005	X
11	Hot Lab	209.8	-1.531743708	<BKG	<0.005	X
12	Hot Lab	204.2	-44.42056754	<BKG	<0.005	X
13	Hot Lab	193.6	-125.6029841	<BKG	<0.005	X
14	Hot Lab	199.6	-79.650673	<BKG	<0.005	X
15	Hot Lab	201.2	-67.396723	<BKG	<0.005	X
16	Hot Lab	196.2	-105.690316	<BKG	<0.005	X

Positions: 9 to 16

Instrument: Picker Well Counter

Efficiency: 13.06%

Background: 210

Initials: SB

Model: Pace-1

Serial: 227385

Calibration: 11/1/95


Health Physics Services Inc.

MD License Number: 31 035-01

Leak Test Survey

Facility Name: Veterans Memorial

Survey Date: 17-Oct-96

Swipe No.	Location	Avg. cpm	Net dpm	Results	Maximum	Within Limits
	Nuclear Medicine					
17	Hot Lab	208.4	-12.253950	<BKG	<0.005	X
18	Hot Lab	203.6	-49.015799	<BKG	<0.005	X
19	Hot Lab	208.4	-12.25394967	<BKG	<0.005	X
20	Hot Lab	208.2	-13.78569337	<BKG	<0.005	X
21	Hot Lab	204.8	-39.82533641	<BKG	<0.005	X
22	Hot Lab	205.8	-32.166618	<BKG	<0.005	X
23	Hot Lab	201.4	-65.864979	<BKG	<0.005	X
24	Hot Lab	208.8	-9.190462	<BKG	<0.005	X

Positions: 17 to 24

Instrument: Picker Well Counter

Efficiency: 13.06%

Background: 210

Initials: SB

Model: Pace-1

Serial: 227385

Calibration: 11/1/95

Scott Benjamin
Health Physics Services Inc.

MD License Number: 31-035-01

Leak Test Survey

Facility Name: Veterans Memorial

Survey Date: 17-Oct-96

Swipe No.	Location	Avg. cpm	Net dpm	Results	Maximum	Within Limits
	Nuclear Medicine					
25	Hot Lab	208.2	-13.785693	<BKG	<0.005	X
26	Hot Lab	201.6	-64.333236	<BKG	<0.005	X
27	Hot Lab	204.8	-39.82533641	<BKG	<0.005	X
28	Hot Lab	212.6	19.91266821	8.971E-06	<0.005	X
29	Hot Lab	212.6	19.91266821	8.971E-06	<0.005	X
30	Hot Lab	212.6	19.912668	8.971E-06	<0.005	X
31	Hot Lab	210.2	1.531744	6.901E-07	<0.005	X
32	Hot Lab	196.8	-101.095085	<BKG	<0.005	X

Positions: 25 to 32

Instrument: Picker Well Counter

Initials: SB

Efficiency: 13.06%

Background: 210

Model: Pace-1

Serial: 227385

Calibration: 11/1/95


Health Physics Services Inc.

MD License Number: 31-035-01

227385

11-1-95

Page-1

GROUP 1 CYCLE 6

T MIN COUNT

TOTAL OR STD

1	5.000	1010
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3	5.000	1001
		400
4	5.000	1062
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5	5.000	992
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32	5.000	984
		400

TRANSMIT CONFIRMATION REPORT

NO.	:	004	
RECEIVER	:		304 9276339
TRANSMITTER	:	US NRC REGION III	
DATE	:	OCT 17'96	10:11
DURATION	:	04'20	
MODE	:	STD	
PAGES	:	08	
RESULT	:	OK	

UNITED STATES NUCLEAR REGULATORY COMMISSION
REGION 3
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351
PHONE CONVERSATION

HEAR REGULATOR
REGION 3
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351
PHONE CONVERSATION RECORD

17 October 1996
Roger Rousch
Nuclear Medicine Department
Veterans Memorial Hospital
Pomeroy, Ohio
Dear Mr. Rousch:

Dear Mr. Rousch,

The following add
termination request

1. Additional information is needed to complete the review of the request.
Please complete the enclosed NRC Form 314, "Certificate Of Disposition Of Materials".
2. Please be advised that we cannot authorize you to release your nuclear medicine department for unrestricted use (even by members of your staff) until we have received and reviewed a copy of the results of your close-out survey. The survey should consist of exposure rate measurements to show that all sources of radioactive material have been removed, and contamination checks of areas where radioactive materials were used or stored. Average radiation levels associated with surface contamination and removable contamination should not exceed those specified in the enclosed decontamination guide. Please submit the following information with your close-out survey:
 - a. A history of all radionuclides used at your facility.
 - b. A current copy of the leak test results for the sealed sources used at your facility. Also a history of leaking sealed sources (if any).
 - c. A diagram of your facility with survey and wipe test results keyed to specific locations. Please record your survey results using the

FAX TRANSMITTAL

of pages ► 8

TO: ROGER ROUSCH	FROM: Bill Reichhold
Agency: RUN GEN. Hosp Nuc. Med.	Phone: 630-829-9839
Fax: (304) 927-6339	Fax: 630-515-1259
NSN 7540-01-317-7368	5099-101 GENERAL SERVICES ADMINISTRATION

UNITED STATES NUCLEAR REGULATORY COMMISSION
REGION 3
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

PHONE CONVERSATION RECORD

17 October 1996

Roger Rousch

Nuclear Medicine Department

Veterans Memorial Hospital

Pomeroy, Ohio

Dear Mr. Rousch,

The following additional information is needed to complete the review of the termination request.

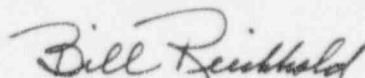
1. Please complete the enclosed NRC Form 314, "Certificate Of Disposition Of Materials".
2. Please be advised that we cannot authorize you to release your nuclear medicine department for unrestricted use (even by members of your staff) until we have received and reviewed a copy of the results of your close-out survey. The survey should consist of exposure rate measurements to show that all sources of radioactive material have been removed, and contamination checks of areas where radioactive materials were used or stored. Average radiation levels associated with surface contamination and removable contamination should not exceed those specified in the enclosed decontamination guide. Please submit the following information with your close-out survey:
 - a. A history of all radionuclides used at your facility.
 - b. A current copy of the leak test results for the sealed sources used at your facility. Also a history of leaking sealed sources (if any).
 - c. A diagram of your facility with survey and wipe test results keyed to specific locations. Please record your survey results using the

appropriate units as described in 10 CFR 30.36 (j)(2)(I) (copy enclosed).

- d. The name of the person performing the survey.
 - e. The instrument(s) used for exposure rate measurements and for analysis of the wipe samples.
 - f. Background readings.
 - g. The date that the survey instrument was last calibrated.
 - h. Confirm that the maximum activity of radioactive materials authorized under the license have decayed to less than the quantity specified in Appendix C of Part 20.
3. Also please specify if you have any additional records that pertain to the following:
- a. Decommissioning of the facility.
 - b. Radiation doses to the public.
 - c. Waste disposal by release to sewers, incineration, radioactive materials, spills, and on-site burials of radioactive material.

Please send a written response within 15 days and refer to mail control 301799.
Please call me at 630-829-9839 if you have any questions.

Sincerely,



Bill Reichhold

(j) As the final step in decommissioning, the licensee shall—

(1) Certify the disposition of all licensed material, including accumulated wastes, by submitting a completed NRC Form 314 or equivalent information; and

(2) Conduct a radiation survey of the premises where the licensed activities were carried out and submit a report of the results of this survey unless the licensee demonstrates that the premises are suitable for release in some other manner. The licensee shall, as appropriate—

(i) Report levels of gamma radiation in units of millisieverts (microroentgen)

per hour at one meter from surfaces, and report levels of radioactivity, including alpha and beta, in units of megabecquerels (disintegrations per minute or microcuries) per 100 square centimeters—removable and fixed—for surfaces, megabecquerels (microcuries) per milliliter for water, and becquerels (picocuries) per gram for solids such as soils or concrete; and

(ii) Specify the survey instrument(s) used and certify that each instrument is properly calibrated and tested.

(k) Specific licenses, including expired licenses, will be terminated by written notice to the licensee when the Commission determines that:

(1) Byproduct material has been properly disposed;

(2) Reasonable effort has been made to eliminate residual radioactive contamination, if present; and

(3)(i) A radiation survey has been performed which demonstrates that the premises are suitable for release in accordance with NRC requirements; or
(ii) Other information submitted by the licensee is sufficient to demonstrate that the premises are suitable for release in accordance with NRC requirements.

(6-95)

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

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

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

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 F33), 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.

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

LICENSE NUMBER

LICENSE EXPIRATION DATE

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 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.

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.

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)

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

TELEPHONE NUMBER
(Include Area Code)

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE

SIGNATURE

DATE

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 30323-0199

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 60532-4361

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO,
HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,
NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA,
OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA,
TEXAS, UTAH, WASHINGTON, 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

GUIDELINES FOR DECONTAMINATION OF FACILITIES AND EQUIPMENT
PRIOR TO RELEASE FOR UNRESTRICTED USE
OR TERMINATION OF LICENSES FOR BYPRODUCT, SOURCE,
OR SPECIAL NUCLEAR MATERIAL

U.S. Nuclear Regulatory Commission
Division of Industrial and
Medical Nuclear Safety
Washington, DC 20555

August 1987

The instructions in this guide, in conjunction with Table 1, specify the radionuclides and radiation exposure rate limits which should be used in decontamination and survey of surfaces or premises and equipment prior to abandonment or release for unrestricted use. The limits in Table 1 do not apply to premises, equipment, or scrap containing induced radioactivity for which the radiological considerations pertinent to their use may be different. The release of such facilities or items from regulatory control is considered on a case-by-case basis.

1. The licensee shall make a reasonable effort to eliminate residual contamination.
2. Radioactivity on equipment or surfaces shall not be covered by paint, plating, or other covering material unless contamination levels, as determined by a survey and documented, are below the limits specified in Table 1 prior to the application of the covering. A reasonable effort must be made to minimize the contamination prior to use of any covering.
3. The radioactivity on the interior surfaces of pipes, drain lines, or ductwork shall be determined by making measurements at all traps, and other appropriate access points, provided that contamination at these locations is likely to be representative of contamination on the interior of the pipes, drain lines, or ductwork. Surfaces of premises, equipment, or scrap which are likely to be contaminated but are of such size, construction, or location as to make the surface inaccessible for purposes of measurement shall be presumed to be contaminated in excess of the limits.
4. Upon request, the Commission may authorize a licensee to relinquish possession or control of premises, equipment, or scrap having surfaces contaminated with materials in excess of the limits specified. This may include, but would not be limited to, special circumstances such as razing of buildings, transfer of premises to another organization continuing work with radioactive materials, or conversion of facilities to a long-term storage or standby status. Such requests must:
 - a. Provide detailed, specific information describing the premises, equipment or scrap, radioactive contaminants, and the nature, extent, and degree of residual surface contamination.
 - b. Provide a detailed health and safety analysis which reflects that the residual amounts of materials on surface areas, together with other considerations such as prospective use of the premises, equipment, or scrap, are unlikely to result in an unreasonable risk to the health and safety of the public.

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ACCEPTABLE SURFACE CONTAMINATION LEVELS

NUCLIDES ^a	AVERAGE ^{b c f}	MAXIMUM ^{b d f}	REMOVABLE ^{b e f}
U-nat, U-235, U-238, and associated decay products	5,000 dpm α /100 cm ²	15,000 dpm α /100 cm ²	1,000 dpm α /100 cm ²
Transuranics, Ra-226, Ra-228, Th-230, Th-228, Pa-231, Ac-227, I-125, I-129	100 dpm/100 cm ²	300 dpm/100 cm ²	20 dpm/100 cm ²
Th-nat, Th-232, Sr-90, Ra-223, Ra-224, U-232, I-126, I-131, I-133	1000 dpm/100 cm ²	3000 dpm/100 cm ²	200 dpm/100 cm ²
Beta-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and others noted above.	5000 dpm $\beta\gamma$ /100 cm ²	15,000 dpm $\beta\gamma$ /100 cm ²	1000 dpm $\beta\gamma$ /100 cm ²

^aWhere surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides should apply independently.

^bAs used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

^cMeasurements of average contaminant should not be averaged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

^dThe maximum contamination level applies to an area of not more than 100 cm².

^eThe amount of removable radioactive material per 100 cm² of surface area should be determined by wiping that area with dry filter or soft absorbent paper, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire surface should be wiped.

^fThe average and maximum radiation levels associated with surface contamination resulting from beta-gamma emitters should not exceed 0.2 mrad/hr at 1 cm and 1.0 mrad/hr at 1 cm, respectively, measured through not more than 7 milligrams per square centimeter of total absorber.

5. Prior to release of premises for unrestricted use, the licensee shall make a comprehensive radiation survey which establishes that contamination is within the limits specified in Table 1. A copy of the survey report shall be filed with the Division of Industrial and Medical Nuclear Safety, U. S. Nuclear Regulatory Commission, Washington, DC 20555, and also the Administrator of the NRC Regional Office having jurisdiction. The report should be filed at least 30 days prior to the planned date of abandonment. The survey report shall:

- a. Identify the premises.
- b. Show that reasonable effort has been made to eliminate residual contamination.
- c. Describe the scope of the survey and general procedures followed.
- d. State the findings of the survey in units specified in the instruction.

Following review of the report, the NRC will consider visiting the facilities to confirm the survey.