

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

34-06578-01

Docket or Reference Number

030-00419

Amendment No. 17

302482

Trinity Health System  
Trinity Medical Center West  
Dept. of Radiology  
4000 Johnson Road  
Steubenville, OH 43952

In accordance with NRC Form 314 "Certificate of Disposition" dated March 20, 1997 and letters dated March 20, 1997 and April 25, 1997, License No. 34-06578-01 is hereby terminated.

TERMINATED

130298



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAY 16 1997

By

*Carol T. Frazier*  
Nuclear Materials Licensing Branch, Region III

9706190259 970516  
PDR ADOCK 03000419  
C PDR

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SD

(FOR LFMS USE)  
INFORMATION FROM LTS

56

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

Program Code: 02300  
Status: 0997  
Fee Category: 7A 2B PM 1:33  
Exp. Date: 20030731  
Fee Comments: CODE 21  
Decon Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: TRINITY HEALTH SYSTEM/TRINITY WEST  
Received Date: 970328  
Docket No: 3000419  
Control No.: 302482  
License No.: 34-06578-01  
Action Type: Termination

2. FEE ATTACHED

Amount:   
Check No.:  $\phi$

3. COMMENTS

Signed A. Horsey  
Date 4-5-97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone is entered ✓)

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

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

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

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

Signed \_\_\_\_\_  
Date 4/3/97

APR 16 1997

Log	<u>Apr 2 700</u>
Remitter	_____
Check No.	_____
Amount	_____
Fee Category	<u>7A 2B</u>
Type of Fee	<u>Termination</u>
Date Check Rec'd	_____
Date Completed	<u>4/3/97</u>
By:	<u>AC</u>

(6-95)

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 (IT-8 P33), 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.

LICENSEE NAME AND ADDRESS

Trinity Health System  
Trinity Medical Center West  
Dept. of Radiology  
4000 Johnson Road  
Steubenville, Ohio 43952

LICENSE NUMBER

34-06578-01

LICENSE EXPIRATION DATE

July 31, 2003

## **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

Marcel M. Szal

TELEPHONE NUMBER  
(Include Area Code)

614-283-7756

4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

Trinity Health System  
Trinity Medical Center West  
Dept. of Radiology  
4000 Johnson Road  
Steubenville, Ohio 43952

**RECEIVED**

**MAR 28 1997**

CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE

David J. Arnold  
Vice President of Administration

SIGNATURE

**REGION III**

March 20, 1997

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 60532-4351

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

RECEIVED

MAR 5 8 1993

REGION III



TRINITY  
MEDICAL CENTER WEST

4000 Johnson Road  
Steubenville, Ohio 43952  
614-264-8000

March 20, 1997

Nuclear Regulatory Commission  
Region III  
801 Warrenton Road  
Lisle, IL 60532-4351

To Whom It May Concern:

On March 11, 1997, we transferred the ownership of our CO-60 Teletherapy Unit to Neutron Products Inc. whose Maryland license number is MD-31-025-03. This transfer was accomplished without incident.

At this time we wish to terminate our Teletherapy License 34-06578-01. Enclosed please find copies of the transfer certificate, area wipe tests, area surveys, and the appropriate licenses.

If you have any questions or require further information, please contact Marcel M. Szal at 412/223-3811.

Sincerely,

David J. Arnold  
Vice President  
Administration

DJA:jr

Enclosures

MAR 28 1997





INSTRUMENT USED: CAPTUS 2000 COUNTING SYSTEM WITH 3" X 3" WELL TYPE SCINTILLATION PROBE

MINIMUM DETECTABLE ACTIVITY (MDA)

$$\text{MDA (uCi)} = \frac{\text{Std. Activity (uCi)}}{\text{Std. CPM}} \times 3 \sqrt{\frac{\text{Background CPM}}{\text{Time of Counting}}}$$

$$\frac{\text{Sample Activity}}{\text{uCi}} = \frac{(\text{Sample CPM} - \text{Bkd. CPM})}{(\text{Std. CPM} - \text{Bkd. CPM})} \times \text{Std. Activity (uCi)}$$

Sources: THERATRON 80 CO-60 SN 7

Counting System Parameters:

High Voltage: 1000  
Amp. Coarse Gain: 20 Amp. Fine Gain: 0.2857

Observed Data:

Standard Cs-137 Rod Source Activity: 0.013 uCi  
Channel Range: 509- 691  
Background (Bkd) CPM: 29  
Standard CPM: 4079  
Time of Counting: 1 minute

Gp. No.	Sample Identification	Sample CPM
1.	BEAMSTOP	24
2.	ISOCENTER	32
3.	DOOR AREA	30
4.	FOOT END OF TABLE	24
5.	DEEP COLLIMATORS	33
6.	SIDE OF GANTRY	35
7.	SOURCE SLIDE	32

Analysis: MDA  $5.2 \times 10^{-5}$  uCi

Gp. Number	CPM	DPM	Sample Activity / uCi
1	--	--	< MDA
2	3	21	< MDA
3	1	7	< MDA
4	--	--	< MDA
5	4	28	< MDA
6	6	42	< MDA
7	3	21	< MDA

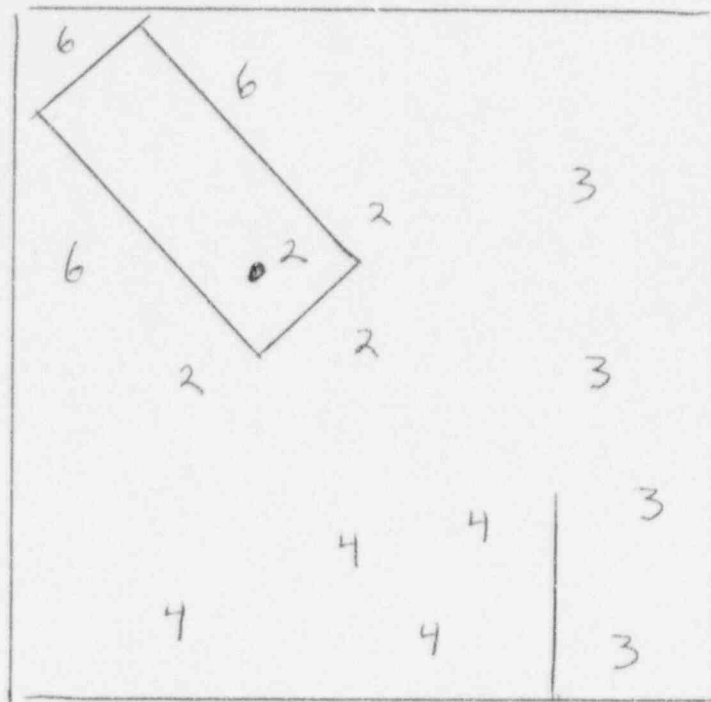
RESULT: REMOVABLE CONTAMINATION IS LESS THAN 0.005 uCi.

SOURCES ARE CONSIDERED LEAK FREE.

PHYSICIST

*Mark Szel*

TRINITY WEST CO-6 ROOM  
SWIPE SITES



- 1 BEAM STOP
- 2 ISOCENTER
- 3 DOOR AREA
- 4 FOOT END
- 5 DEEP COLLIMATORS
- 6 SIDE OF GANTRY
- 7 SOURCE SLIDE

TRINITY WEST  
FINAL AREA SURVEY  
THERATRON 80 CO-60

ON MARCH 11, 1997 THE FINAL AREA SURVEY WAS PERFORMED IN THE  
THERATRON 80 CO-60 ROOM FOLLOWING THE UNITS REMOVAL.

VICTOREEN PANORAMIC

CAL 3/5/97

CHECK SOURCE .8 MR/HR OK

BATT OK

BKG .2 MR/HR

VICTOREEN 471RF

CAL 3/5/97

CHECK SOURCE 13 MR/HR OK

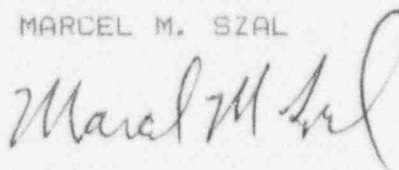
BATT OK

BKG .05 MR/HR

BOTH INSTRUMENTS WERE IN AGREEMENT

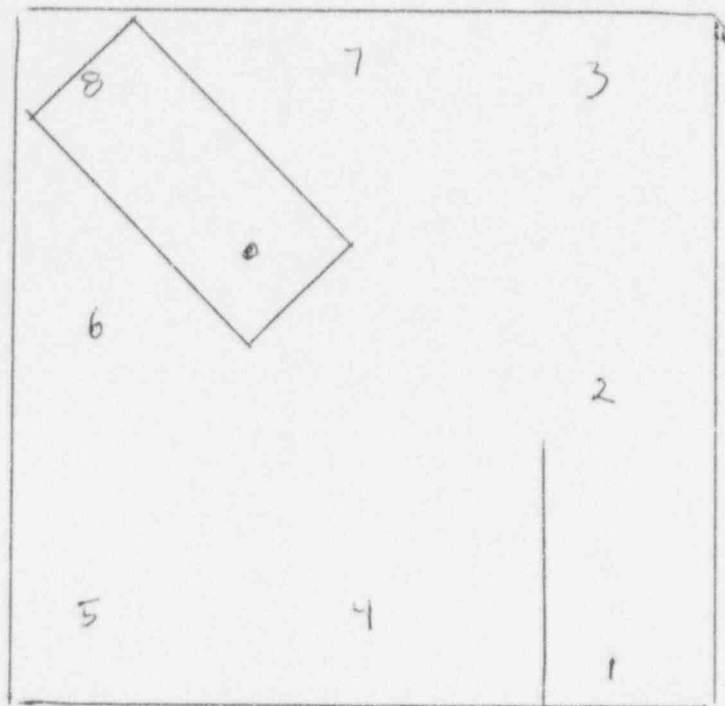
POINT 1	(= BKG
POINT 2	(= BKG
POINT 3	(= BKG
POINT 4	(= BKG
POINT 5	(= BKG
POINT 6	(= BKG
POINT 7	(= BKG
POINT 8	(= BKG

MARCEL M. SZAL





TRINITY WEST CO-60 R/M  
AREA SURVEY SITES





DEPARTMENT OF THE ENVIRONMENT  
**RADIOLOGICAL HEALTH PROGRAM**  
**RADIOACTIVE MATERIAL LICENSE**

Page 2 of 5 pages

Supplementary Sheet

License No. MD-31-025-03

Amendment No. 48

**CONDITIONS**

10. The authorized place of use is the licensee's address located in Item 2 and at temporary job sites of the licensee throughout Maryland. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address as is required by Section D.407 of COMAR 26.12.01.01.
11. A. The radiation protection program shall be under the supervision of Marvin Turkanis.
- B. Radioactive material shall be used by, or under the supervision of and in the physical presence of the following users for the purpose of source transfer and servicing of teletherapy units listed below, unless otherwise noted:

User	AECL/ Theratronics	Keltek-Barnes	Pickar/RPS/ ATC	Siemens	TEH Instruments	Toshiba	Westinghouse
Bernard Boswell	X						
Norman Broden				X			
George Brown						X	
Russell Brown	X		X	X	X		
Ronald Catlett					X		
Jerry L. Feale	X		X				
Leslie Forrest	X		X				
Richard D. Foss	X						
Edwin Freeman	X						
Douglas Hoad					X		

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Date \_\_\_\_\_

RADIOLOGICAL HEALTH PROGRAM MANAGER II



DEPARTMENT OF THE ENVIRONMENT  
**RADIOLOGICAL HEALTH PROGRAM**  
**RADIOACTIVE MATERIAL LICENSE**

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Supplementary Sheet

License No. MD-31-025-03

Amendment No. 48

CONDITIONS CONTINUED

Users (continued)	AECL/ Theratronics	Keltek-Barnes	Pickar/WB/ ATC	Siemens	TEH Instruments	Toshiba	Westinghouse
Robert S. Johnson	X						
Tommy Kidd			X				
Jeffery A. Koontz	X		X	X			
Dale R. Marshall	X		X				
Darrell O. Poole						X	
Jale Repp	X	X	X	X	X	X	X
Andrew C. Sanders	X						
James Sayler	X		service only				
Gene Serres	X						
Richard H. Tanker	X						
Marvin Turkonis	X	X	X				

12. The licensee shall comply with provisions of Part D, "Standards for Protection Against Radiation" and Part J, "Notices, Instructions and Reports to Workers; Inspections" of the Maryland Regulations 26.12.01.01 "Regulations for Control of Ionizing Radiation".

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Date \_\_\_\_\_

RADIOLOGICAL HEALTH PROGRAM MANAGER II



DEPARTMENT OF THE ENVIRONMENT  
**RADIOLOGICAL HEALTH PROGRAM**  
**RADIOACTIVE MATERIAL LICENSE**

Page 4 of 5 pages

Supplementary Sheet

License No. MD-31-025-03

Amendment No. 48

CONDITIONS CONTINUED

- 13A. Transportation of radioactive material in the State of Maryland shall be in compliance with Section C.100 "Transportation of Radioactive Material" of COMAR 26.12.01.01.
- B. The licensee shall transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Section C.103, "General License for Delivery of Radioactive Material to a Carrier for Transport" of COMAR 26.12.01.01.
14. The licensee shall follow Neutron Products, Inc. (NPI) Specification P-9, entitled "Procedures for Source Transfer, Maintenance, and Service Associated with Teletherapy Devices" as revised March 29, 1990. Further changes to NPI Specification P-9 which affects radiation safety must be approved by the Department prior to implementation.
- All Cesium-137 sealed sources must be in dry storage.
16. No teletherapy unit source transfer or servicing authorized by this license shall be initiated unless the licensee has available the manufacturer's written instructions or equivalent as outlined in Neutron Product's Specification P-9 and tools for the operation, such instructions and tools being specific for each make and model of teletherapy unit and for the type of operation involved.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Date \_\_\_\_\_

RADIOLOGICAL HEALTH PROGRAM MANAGER II



DEPARTMENT OF THE ENVIRONMENT  
RADIOLOGICAL HEALTH PROGRAM  
RADIOACTIVE MATERIAL LICENSE

Page 5 of 5 pages

Supplementary Sheet

License No. MD-31-025-03

Amendment No. 48

CONDITIONS CONTINUED

17. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations, and procedures contained in application dated March 29, 1990, and letters with attachments dated:

March 29, 1990: Application addendum.

March 29, 1990: NPI Specification P-9 rev. 2 with Table I and Appendices I through IX.

February 05, 1990: Procedure NR2501, Revision 1, "Procedure for Decontamination of AECL/Theratronics Teletherapy Machines."

COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Date September 7, 1995

*Roland H. Fletcher*  
RADIOLOGICAL HEALTH PROGRAM MANAGER II

DKM

M -L1 (supp) (11/90)



TD7





DEPARTMENT OF THE ENVIRONMENT  
RADIOLOGICAL HEALTH PROGRAM  
RADIOACTIVE MATERIAL LICENSE

Page 1 of 1 pages

Supplementary Sheet

License No. MD-31-025-03 Amendment No. 49

In accordance with letter dated October 24, 1995, Radioactive Materials License Number 31-025-03 is amended as follows:

Condition 11B is amended to read:

11. B. Radioactive material shall be used by, or under the supervision of and in the physical presence of the following users for the purpose of source transfer and servicing of teletherapy units listed below, unless otherwise noted:

User	AECL/ Theratronics	Keltek-Barnes	Pickar/AMS/ ATC	Siemens	TEMI Instruments	Toshiba	Hest inghouse
Thomas Baugher	X						
Norman Brogden				X			
George Brown						X	
Russell Brown	X		X	X	X		
Ronald Catlett					X		
Jerry L. Fogle	X		X				
Leslie Forrest	X		X				
Richard D. Foss	X						
Edwin Freeman	X						
Douglas Hoad					X		

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

RADIOLOGICAL HEALTH PROGRAM MANAGER II





DEPARTMENT OF THE ENVIRONMENT  
RADIOLOGICAL HEALTH PROGRAM  
RADIOACTIVE MATERIAL LICENSE

Page 2 of 2 pages

Supplementary Sheet

License No. MD-31-025-03 Amendment No. 49

CONDITION CONTINUED

Users (continued)	AECL/ Theratronix	Ketek-Barnes	Picker/APS/ ATC	Siemens	TEM Instruments	Toshiba	Westinghouse
Robert S. Johnson	X						
Tommy Kidd			X				
Edward N. Koontz	X		X	X			
Jeffery A. Koontz	X		X				
Dale R. Marshall	X		X				
Darrell O. Poole						X	
Dale Repp	X	X	X	X	X	X	X
Richard H. Tanker	X						
Marvin Turkonis	X	X	X				

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Printed: October 30, 1995

  
RADIOLOGICAL HEALTH PROGRAM MANAGER II

TDF

## MATERIALS LICENSE

Amendment No. 16

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, 36, 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.

301232

Licensee		In accordance with letter dated May 15, 1996	
1. Trinity Health System Trinity West d/b/a Trinity Medical Center West		3. License Number 34-06578-01 is amended in its entirety to read as follows:	
2. Department of Radiology 4000 Johnson Road Steubenville, OH 43952		4. Expiration Date July 31, 2003	
		5. Docket or Reference No. 030-00419	
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. Cobalt-60	A. Sealed sources model designation Neutron Products, Inc. NPI-20-6000W	A. 6,500 curies per source	
B. Uranium depleted in uranium-235	B. Solid metal	B. 41 kilograms total possession limit	
9. Authorized Use:			
A. Medical use described in 10 CFR 35.600 in an AECL Theratron 80 teletherapy unit.			
B. Shielding in a teletherapy unit.			

CONDITIONS

10. Location of Use: Cobalt Room, Department of Radiology, Trinity Medical Center West, 4000 Johnson Road, Steubenville, Ohio.
11. Radiation Safety Officer: William Hunter Vaughan, M.D.
12. A. Authorized Users: Gurijala N. Reddy, M.D., James M. Hughes, M.D., Mark G. Trombetta, M.D., Gerald R. Medwick, D.O. and Tarit K. Dutta, M.D.
- B. Teletherapy Physicist: Marcel M. Szal, M.S.

COPY

MATERIALS LICENSE  
SUPPLEMENTARY SHEETLicense Number  
34-06578-01Docket or Reference Number  
030-00419

Amendment No. 16

13. The licensee is exempted from decommissioning financial assurance requirements for possession of licensed material in sealed sources in quantities greater than the limits in 10 CFR 30.35(d) for the purpose of source changes only. This exemption is granted for no more than 30 days for any one source change.
14. The licensee shall maintain records of information related to decommissioning at the address specified in License Condition 10. as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.
15. 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 received March 19, 1986 (with attachments); and
- B. Letters dated March 14, 1991 (with attached five years inspection/survey reports), February 11, 1993, June 30, 1993 and May 15, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date September 18, 1996By Louise J. Heston  
Nuclear Materials Licensing Branch, Region III

COPY

TELETHERAPY UNIT AND SOURCE TRANSFER

This is to certify that a cobalt-60 source described as follows:

Model Number: NPI-20-6000W  
Serial Number: T-806  
Containing 1408 curies as of February 1, 1997

has been determined by a wipe test performed by Trinity Medical Center West to be leak free and has been removed from a teletherapy unit described as follows:

Manufacturer: Atomic Energy of Canada, Ltd. (AECL)  
Model Number: Theratron 80  
Serial Number:

The above unit has been removed and the depleted uranium contained therein, 41.0 kilograms, has been transferred from Trinity Medical Center West's Radioactive Materials License 34-06578-01 to Neutron Products, Inc.'s Nuclear Regulatory Commission License No. SUB-1551.

The cobalt-60 source removed from the above unit has been transferred from Trinity Medical Center West's Radioactive Materials License 34-06578-01 to Neutron Products, Inc.'s Radioactive Materials License MD-31-025-03.

Mauro M. S. J.

Date 3/11/97

Sam H. Baugher  
Neutron Products, Inc.

Date 3/11/97

NEUTRON PRODUCTS inc

ST. JOHNS/TRINITY HEALTH SYSTEM THERATRON 80 LEAK TEST 12/17/96

INSTRUMENT USED: CAPTUS 2000 COUNTING SYSTEM WITH 3" X 3" WELL TYPE SCINTILLATION PROBE

MINIMUM DETECTABLE ACTIVITY (MDA)

$$\text{MDA (uCi)} = \frac{\text{Std. Activity (uCi)}}{\text{Std. CPM}} \times 3 \sqrt{\frac{\text{Background CPM}}{\text{Time of Counting}}}$$

$$\frac{\text{Sample Activity}}{\text{uCi}} = \frac{(\text{Sample CPM} - \text{Bkd. CPM})}{(\text{Std. CPM} - \text{Bkd. CPM})} \times \text{Std. Activity (uCi)}$$

Sources: THERATRON 80 CO-60

Counting System Parameters:

High Voltage: 950  
Amp. Coarse Gain: 20      Amp. Fine Gain: 0.3414

Observed Data:

Standard CO-60 Rod Source Activity: 0.014 uCi  
Channel Range: 509 - 691  
Background (Bkd) CPM: 41  
Standard CPM: 4267  
Time of Counting: 1 minute

Gp. No.	Sample Identification	Sample CPM
I.	TRIMMERS	24
II.	COLLIMATORS	40
III.	SOURCE (THE PIT)	28

Analysis:

MDA

<sup>-5</sup>  
6.4 x 10 uCi

Gp. Number

Sample Activity / uCi

I trimmers	< MDA
II collimators	< MDA
III source (the pit)	< MDA

RESULT: REMOVABLE CONTAMINATION IS LESS THAN 0.005 uCi.

SOURCES ARE CONSIDERED LEAK FREE.

Physicist

*Mark Hal*



ST. JOHNS/TRINITY HEALTH SYSTEM THERATRON 80 LEAK TEST  
6-21-96

INSTRUMENT: CAPTUS 2000 THYROID UPTAKE SYSTEM, VERSION  
3.02, WITH WELL TYPE SCINTILLATION PROBE.

MINIMUM DETECTABLE ACTIVITY (MDA):

$$\text{MDA ( uCi )} = \frac{\text{Std. Activity ( uCi )}}{\text{Std. CPM}} \times 3 \sqrt{\frac{\text{Background CPM}}{\text{Counting Time}}}$$

$$\frac{\text{Sample Activity}}{\text{uCi}} = \frac{(\text{Sample CPM} - \text{Bkd. CPM})}{(\text{Std. CPM} - \text{Bkd. CPM})} \times \text{Std. Act. (uCi)}$$

UNIT: Theratron 80 Co- 60 Source

Counting System Parameters:

High Voltage: 950  
Amp. Coarse Gain: 20 Amp. Fine Gain: 0.3414  
Resolution (sigma keV): 23.5

Observed Data:

Standard Co-60 Rod Source Activity: 0.0141 uCi  
Channel Range: 509 - 691  
Background (Bkd) CPM : 27  
Standard CPM: 4239  
Counting Time: 1 minute

Gp. No.	Sample Identification	Sample CPM
I	Inner Collimators	31
II	Outer Collimators	33
III	Cobalt-60 Source	34

Analysis:

MDA  $5.18 \times 10^{-5}$

Gp. Number	Sample Activity / uCi
I	< MDA
II	< MDA
III	< MDA

RESULT: REMOVABLE CONTAMINATION IS LESS THAN 0.005 uCi.  
CO-60 THERATRON 80 UNIT IS CONSIDERED LEAK FREE.

*Rajiv Shingal*  
Rajiv Shingal  
Physicist



# **MEDICAL PHYSICS SURVEY SEALED SOURCE LEAK TEST ANALYSIS REPORT**

FACILITY: Trinity Medical Center, West  
LOCATION: Steubenville, OH

DEPARTMENT: Nuclear Medicine  
ATTENTION: RSO

Analysis of the WIPE used to conduct a leak test on the sealed sources identified below was performed by gas or scintillation detection and reveals removable contamination was less than 0.005 uCi, unless otherwise noted, when compared against NIST traceable standards.

Source: Co-60, teletherapy source, 6000 Ci, 2/1/86

Date:	9/20/96	12/20/96	3/6/96	6/3/96	9/17/96	12/3/96
Wipe No.:	CL 8400	CL 9188	CL 9813	CL 10589	CL 11019	CL 11150
MDA (uCi):	8.0 E-5	8.0 E-5	8.0 E-5	8.0 E-5	8.0 E-5	8.0 E-5
Net CPM:	0	0	0	0	10	0
Net uCi:	< MDA	< MDA	< MDA	< MDA	< MDA	< MDA
CPM for 0.005 uCi:	1078	1078	1078	1078	1078	1078
Analyst:	S. Long	S. Long	S. Long	S. Long	D. Close	S. Long

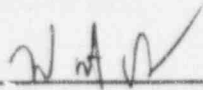
Source: Co-57, Flood, 10 mCi, 7/27/96. CIS, A5315

Date:	9/17/96	12/3/96
Wipe No.:	CL 11020	CL 11151
MDA (uCi):	8.0 E-5	8.0 E-5
Net CPM:	4	0
Net uCi:	< MDA	< MDA
CPM for 0.005 uCi:	1078	1078
Analyst:	D. Close	S. Long

Performed by: Sharon L. Long

Under License No. : 34-26655-01

RSO Signature



**MEDICAL PHYSICS SURVEY  
SEALED SOURCE LEAK TEST ANALYSIS REPORT**

FACILITY: Trinity Medical Center, West  
LOCATION: Steubenville, OH

DEPARTMENT: Nuclear Medicine  
ATTENTION: RSO

Analysis of the WIPE used to conduct a leak test on the sealed sources identified below was performed by gas or scintillation detection and reveals removable contamination was less than 0.005  $\mu\text{Ci}$ , unless otherwise noted, when compared against NIST traceable standards.

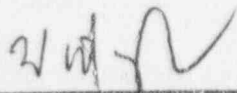
Source: Co-60, teletherapy source, 6000 Ci, 2/1/86

Date:	3/27/95	6/21/95	9/20/95	12/20/95	3/6/96	6/3/96
Wipe No.:	PI 2221	CL 7695	CL 3400	CL 9188	CL 9813	CL 10589
MDA, ( $\mu\text{Ci}$ ):	1.95 E-4	8.0 E-5	8.0 E-5	8.0 E-5	8.0 E-5	8.0 E-5
Net CPM:	0	2	0	0	0	0
Net $\mu\text{Ci}$ :	< MDA	< MDA	< MDA	< MDA	< MDA	< MDA
CPM for 0.005 $\mu\text{Ci}$ :	420	1078	1078	1078	1078	1078
Analyst:	L. Stecker	S. Long	S. Long	S. Long	S. Long	S. Long

Performed by: Sharon L. Long

Under License No. : 34-26655-01

RSO Signature



# MEDICAL PHYSICS SURVEY SEALED SOURCE LEAK TEST ANALYSIS REPORT

FACILITY: St. Johns Medical Center  
LOCATION: Steubenville, OH

DEPARTMENT: Nuclear Medicine  
ATTENTION: N. Munarg

Analysis of the WIPE used to conduct a leak test on the sealed sources identified below was performed by gas or scintillation detection and reveals removable contamination was less than 0.005 uCi, unless otherwise noted, when compared against NIST traceable standards.

Source: Co-60, teletherapy source, 6000 Ci, 2/1/86

Date:	6/1/94	9/7/94	12/9/94	3/27/95	5/21/95	9/20/95
Wipe No.:	PI 1740	PI 1879	PI 1879	PI 2221	CL 7695	CL 8400
MDA (uCi):	1.95 E-4	1.95 E-4	1.95 E-4	1.95 E-4	8.0 E-5	8.0 E-5
Net CPM:	17	0	7	0	2	0
Net uCi:	< MDA	0	< MDA	< MDA	< MDA	< MDA
CPM for 0.005 uCi:	420	420	420	420	1078	1078
Analyst:	L. Stecker	S. Long	S. Long	L. Stecker	S. Long	S. Long

A leak test was conducted on the Cobalt-60 teletherapy head. Removable contamination was determined to be less than 0.001 uCi at the time of the most recent entry.

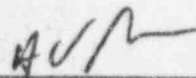
Source: Co-57, flood, 396 MBq, 11/4/94, S/N EHSC40

Date:	12/9/94	3/27/95	6/21/95	9/20/95
Wipe No.:	PI 2054	PI 2222	CL 7696	CL 8401
MDA (uCi):	1.55 E-5	1.55 E-5	2.0 E-5	2.0 E-5
Net CPM:	6	0	16	0
Net uCi:	< MDA	< MDA	< MDA	< MDA
CPM for 0.005 uCi:	2073	2073	10,587	10,587
Analyst:	L. Stecker	L. Stecker	S. Long	S. Long

Performed by: Sharon L. Long

Under License No. : 34-16272-01

RSO Signature



# MEDICAL PHYSICS SURVEY SEALED SOURCE LEAK TEST ANALYSIS REPORT

FACILITY: St. Johns Medical Center  
LOCATION: Steubenville, OH

DEPARTMENT: Nuclear Medicine  
ATTENTION: N. Munang

Analysis of the WIPE used to conduct a leak test on the sealed sources identified below was performed by gas or scintillation detection and reveals removable contamination was less than 0.001  $\mu\text{Ci}$ , unless otherwise noted, when compared against NIST traceable standards.

Source: Co-60, teletherapy source, 6000 Ci, 2/1/86

Date:	12/16/92	3/5/93	6/1/93	9/15/93	12/3/93r	3/2/94
Wipe No.:	PI 1127	PI 1169	PI 1287	CL 4777	PI 1498	PI 1599
MDA ( $\mu\text{Ci}$ ):	0	0	0	8 E-5	6.11 E-5	6.11 E-5
Net CPM:	0	0	0	0	15	6
Net $\mu\text{Ci}$ :	0	0	0	< MDA	< MDA	< MDA
CPM for 0.001 $\mu\text{Ci}$ :	750	750	750	1078	912	912
Analyst:	D. Patrick	S. Long	L. Stecker	S. Long	L. Stecker	L. Stecker

A leak test was conducted on the Cobalt-60 teletherapy head. Removable contamination was determined to be less than 0.001  $\mu\text{Ci}$  at the time of the most recent entry.

Performed by: *Medical Physics* Under License No. : 34-16272-01

RSO Signature

MAY 16 1997

David J. Arnold  
Vice President of Administration  
Trinity Health System  
Trinity Medical Center West  
Dept. of Radiology  
4000 Johnson Road  
Steubenville, OH 43952

Dear Mr. Arnold:

Enclosed is Amendment No. 17 which terminates your NRC License No. 34-06578-01 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  
Colleen C. Casey  
Nuclear Materials Licensing Branch

License No. 34-06578-01  
Docket No. 030-00419

Enclosure: Amendment No. 17

DOCUMENT NAME: M:\03000419.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>CCC</i>								
NAME	CCCCasey:brt								
DATE	05/12/97								

OFFICIAL RECORD COPY

302482



TRINITY  
MEDICAL CENTER EAST

380 Summit Avenue  
Steubenville, Ohio 43952  
614-283-7000

COLLEEN C. CASEY  
U.S.N.R.C  
REGION III  
801 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351

APRIL 25, 1997

CASE NUMBER: 302482

DEAR COLLEEN,

AS YOU MAY BE AWARE, I BECAME RESPONSIBLE FOR THE  
THERATRON 80 CO-60 UNIT AT THE ST. JOHN MEDICAL CENTER  
(TRINITY MEDICAL CENTER WEST) IN JUNE OF 1996. AT THAT TIME  
A GENERAL AREA SURVEY WAS PERFORMED, THE SURVEY AT THAT TIME  
SATISFIED ME THAT OUR FACILITY IS IN COMPLIANCE WITH  
10 CFR 20.1301.

I FEEL THAT THROUGHOUT THE HISTORY OF OUR FACILITY THAT  
TO THE BEST OF MY KNOWLEDGE, WE HAVE BEEN IN COMPLIANCE WITH  
20.2107 AND 20.1301 AND THAT NO MEMBER OF THE GENERAL PUBLIC  
HAS RECEIVED DOSES IN EXCESS OF THOSE SPECIFIED IN 10 CFR  
20.1301

IF YOU HAVE ANY QUESTIONS REGARDING THIS MATTER PLEASE  
DO NOT HESITATE IN CONTACTING ME AT 614-283-7439

MARCEL M. SZAL

*Marcel M. Szal*

RECEIVED

MAY 05 1997

REGION III

*Pm: 4-29-97*



MAY 05 1997



## CONVERSATION RECORD

TIME

DATE

10:25 AM

4/25/97

☐ VISIT☐ CONFERENCE☒ TELEPHONE

FAXED TO MR. SZAL, THIS PAGE  
ONLY, AT 614-283-7784

☐ INCOMING☒ OUTGOING

NAME OF PERSON(S) CONTACTED OR IN CONTACT

Marcel Szal, PHYSICIST

ORGANIZATION (OFFICE, DEPT. ETC.)

TRINITY HEALTH SYSTEM  
WEST CAMPUS

TELEPHONE NO.

614-283-7439

SUBJECT

C/N 302482

L/N 34-06578-01

TERM. REQUEST  
31X DTD 3/20/97

SUMMARY

When a licensee terminates licensed activities ~~or licensed activities~~  
~~are transferred to another licensee~~, we require that certain records  
be transferred to the NRC or to a successor licensee to ensure their  
long-term availability. Please transfer the following records, as  
were applicable to your program, that pertain to:

a. <sup>got</sup> the decommissioning of your facility;

<sup>Needed</sup> b. radiation doses to the public; and

(10CFR 20.2107)

c. waste disposal by release to sewers, incineration, radioactive  
material spills, and on-site burials. <sup>got</sup> - ~~transferred sources~~

<sup>Written</sup>  
Any? - no, per Marcel - response  
needed.  
to Neutron Products.

Records <sup>MUST</sup> ~~may~~ be transferred to the USNRC Region III, 801 Warrenville  
Road, Lisle, Illinois 60532-4351, ~~or to the new licensee if licensed~~  
~~activities will continue at the same location under another NRC~~  
~~license.~~

No ~~transfers or changes of ownership or~~ license terminations will be  
authorized unless all records considered important to the safe and  
effective decommissioning of the facility contained in 10 CFR  
30.35(g), 40.36(f), 70.25(g), and 72.30(d) and all records concerning  
public dose and waste disposal have been transferred to the person  
continuing the licensed activity, or to the NRC for license  
terminations.

ACTION REQUIRED

Written response within 15 days to effect termination.

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

COLLEEN C. CASEY

Colleen C. Casey

4/25/97

ACTION TAKEN

SIGNATURE

TITLE

DATE



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
801 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351

April 2, 1997

Marcel M. Szal, M.S.  
Radiation Safety Officer  
Trinity Health System/Trinity West  
d/b/a Trinity Medical Center West  
Department of Radiology  
4000 Johnson Road  
Steubenville, OH 43952

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE  
(Letter & NRC Form 314 Dated 03/20/97)

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. 302482  
License No. 34-06578-01