

REPORT OF PROPOSED ACTIVITIES IN NON-AGREEMENT STATES, AREAS OF EXCLUSIVE FEDERAL JURISDICTION, OR OFFSHORE WATERS

(Please read the instructions before completing this form)

APPROVED BY OMB: NO, 3150-0018 EXPIRES:07/31/2002
Estimate burden per response to comply with this mandatory y collection request: 15 minutes. This notification is required so that NRC may schedule inspection of the activities to ensure that they are conducted in accordance with requirements for protection of the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0013), Office of Management and Budget, Washington DC 20503, If a means used to Impose and Information collection does not display a currently valid OMN control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the info information collection.

1. NAME OF LICENSEE (Person or firm proposing to Conduct the activities described below)

Neutron Products Inc.

2. TYPE OF REPORT

INITIAL REVISION CLARIFICATION

3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located)

22301 Mt. Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842

4. LICENSEE CONTACT AND TITLE

Marvin M. Turkanis / Vice President

5. TELEPHONE NUMBER
(Include Area Code)

301-349-5001

6. FACSIMILE NUMBER
(Include Area Code)

301-349-5007

7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20

- WELL LOGGING LEAK TESTING AND/OR CALIBRATIONS TELETHERAPY/IRRADIATOR SERVICE
- PORTABLE GAUGES OTHER (Specify) ⇒ _____
- RADIOGRAPHY ⇒ REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS)

8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE

University of Virginia Hospital
Jefferson Park Avenue
Charlottesville, Virginia 22908

9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION

(Street and Number or other location. Give as complete an address or directions as possible.)

Jefferson Park Avenue
Charlottesville, Virginia 22908

10. CLIENT TELEPHONE NUMBER
(Include Area Code)

804/924-9764

11. WORK LOCATION TELEPHONE NUMBER
(Include Area Code)

804/924-9764

12. DATES SCHEDULED

FROM	TO	13. NUMBER OF WORK DAYS	14. ADD	15. DELETE	16. LOCATION REFERENCE NUMBER NUMBER TO BE ASSIGNED BY NRC
March 9, 2001	March 10, 2001	2			000525

LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE

17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSES, USED, INSTALLED, SERVICED, OR TESTED
(Include description of type and quantity of radioactive material, sealed sources, or devices to be used.)

Removal of the Thertron -780C teletherapy unit and the contained cobalt-60 source containing 3240 curies as of 01/01/01.

18. AGREEMENT STATE SPECIFIC LICENSE WHICH AUTHORIZES THE UNDERSIGNED TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE AS SPECIFIED IN ITEM 9. ABOVE. (Four copies of the specific license must accompany the Initial NRC Form 241.)

LICENSE NUMBER

MD- 31-025-03

STATE

MD

EXPIRATION DATE

Timely Renewal

19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT)

- I, THE UNDERSIGNED, HEREBY CERTIFY THAT:
- All information in this report is true and complete.
 - I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material. Which I possess and use in non-Agreement States or offshore waters under the general license for which this report is filed with U.S. Nuclear Regulatory Commission.
 - I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 dates in calendar year. With the exception of work conducted in off shore waters, which is authorized for an unlimited period of time in the calendar year.
 - I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or Offshore waters.
 - I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties.

CERTIFYING OFFICER - RSO or Management Representative (name & title)
Marvin M. Turkanis / Vice President

SIGNATURE

DATE

02/23/2001

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 10001 makes it a criminal offense to make a willful false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

FOR NRC USE ONLY

REVIEWING OFFICIAL (Typed/Printed Name & Title)

SIGNATURE

DATE

3/2/01

TOTAL USE-DAYS TO DATE

2

John M. Sato
N/MSS/REG-N-001
3/2/01

RECEIVED
REGION I

2001 MAR -1 PM 1: 47

NEUTRON PRODUCTS inc

22301 Mt. Ephraim Road, P. O. Box 68
Dickerson, Maryland 20842 USA
301-349-5001 FAX: 301-349-5007
e-mail: neutronprod@erols.com

February 28, 2001

U.S. Nuclear Regulatory Commission Region I
ATTN: Nuclear Materials Safety Branch
475 Allendale Road
King of Prussia, PA 19406-1415

VIA FAX: 610-337-5269

Original sent via UPS Next Day

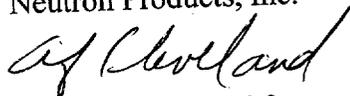
Dear Ms. Buracker,

Per your conversation with Mr. Turkanis yesterday, enclosed is a check for \$1000.00. This check is in addition to the \$ 200.00 check that was previously mailed to you. The amount you have received for our initial should now total \$ 1,200.00.

Should you have any questions please feel free to contact us.

Sincerely,

Neutron Products, Inc.



Alice F. Cleveland for
Marvin M. Turkanis, Vice President

**MARYLAND DEPARTMENT OF THE ENVIRONMENT**

2500 Broening Highway • Baltimore, Maryland 21224

(410) 631-3000 • 1-800-633-6101 • [http:// www. mde. state. md. us](http://www.mde.state.md.us)Parris N. Glendening
GovernorJane T. Nishid
Secretary

September 13, 2000

Marvin M. Turkanis, Vice President and Radiation Safety Officer
Neutron Products Inc.
22301 Mount Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842-0068

SEP 13 2000
1:48 PM**RE: Application renewal**

Dear Mr. Turkanis:

We received your application for the renewal of the Radioactive Materials License Number MD-31-025-03. The submission of your application will permit us to continue your current license in effect until action has been taken by this office on the application.

This letter does not grant approval of any changes in radiation safety procedures, radioactive materials or possession limits. If such changes have been requested, they must await final approval from this office in form of a license renewal. Should you have any questions please contact Messrs. Nathaniel Owrutsky, Douglas McAbee, or me at (410) 631-3302 or toll-free 1-800-633-6101 and requesting extension 3302.

Sincerely,

Carl E. Trump, Jr., Program Manager
Radioactive Materials Licensing and
Compliance Division

CET/NAO



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

Page 1 of 1 pages

License No: MD-31-025-03

Amendment No.: 56

CODE 02513

Neutron Products Inc.
22301 Mount Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842

In accordance with letter with attachments dated February 3, 2000, Radioactive Material License Number MD-31-025-03 is amended as follows:

Condition 14 to add letter with attachments dated February 3, 2000 containing Revision 1 of Appendices II and VII of P-9.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

November 27, 2000

Roland G. Fletcher
Radiological Health Program Manager

NAO NAO 11/27/2000

REN 11/30/2000



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

Page 1 of 1 pages

License No: MD-31-025-03

Amendment No.: 55 CODE 02513

Neutron Products Inc.
22301 Mount Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842-0068

In accordance with letter with attachments dated July 28, 2000 Radioactive Material License Number MD-31-025-03 is amended as follows:

Condition 17 to add letter with attachments dated July 28, 2000, incorporating Neutron Products, Inc.'s teletherapy source handler training program dated May 26, 2000 (Edited May 31, 2000 and modified based on RHP review of July 27,2000).

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

August 2, 2000

Roland G. Fletcher
Radiological Health Program Manager

REM *llw 8/2/2000*

LET 8/3/2000



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

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FEB 18 2000
N. P. 1

Page 1 of 1 pages

License No: MD-31-025-03

Amendment No.: 54

CODE 02513

Neutron Products Inc.
22301 Mount Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842-0068

In accordance with letter with attachments dated May 14, 1999, Radioactive Material License Number MD-31-025-03 is amended as follows:

Condition 14 to add letter with attachments dated May 14, 1999, modifying Procedure P-9 "Procedures for Source Transfer, Maintenance, and Service Associated with Teletherapy Sources".

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

February 2, 2000

Roland G. Fletcher
Radiological Health Program Manager

NAO MAO 2/7/2000

RFM 2/7/00



DEPARTMENT OF THE ENVIRONMENT
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License No: MD-31-025-03

Amendment No.: 53

CODE 02513

Neutron Products Inc.
22301 Mount Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842-0068

In accordance with letters with attachments dated January 4, 19, and 29, 1999, Radioactive Material License Number MD-31-025-03 is amended as follows:

Condition 14 to add letters with attachments dated January 4, 19, and 29, 1999, modifying Procedure P-9 "Procedures for Source Transfer, Maintenance, and Service Associated with Teletherapy Sources".

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

March 15, 1999

Roland G. Fletcher
Radiological Health Program Manager

1 0 CET

4/27/99



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
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License Number: 31-025-03

Amendment Number: 52 Code 02513

Neutron Products, Inc.
22301 Mt. Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842-0068

In accordance with letter dated May 1, 1998, Radioactive Material License Number 31-025-03 is amended as follows:

Condition 11B to add:

Mr. Stan Roberts for the use of radioactive materials by him, or under the supervision and in the physical presence for the purpose of source transfers and servicing of teletherapy units manufactured by Philips.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Roland G. Fletcher
Radiological Health Program Manager

June 8, 1998

KM

LET

6/8/98



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
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License Number: 31-025-03

Amendment Number: 51 Code 02513

Neutron Products, Inc.
 22301 Mt. Ephraim Road
 P.O. Box 68
 Dickerson, Maryland 20842-0068

In accordance with letter received February 10, 1998, Radioactive Material License Number 31-025-03 is amended as follows:

Condition 11B to read:

11B. 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:

Users	AECL/ Theratronics	Keleket- Barnes	Picker/ AMS/ATC	Siemens	TEM Instruments	Toshiba	Westing- house
Thomas Baugher	yes						
Norman Brogden				yes			
George Brown						yes	
Russell Brown	yes		yes	yes	yes		
Ronald Catlett					yes		
Jerry L. Fogle	yes		yes				
Leslie Forrest	yes		yes				
Richard D. Foss	yes						
Edwin Freeman	yes						
Douglas Hoad					yes		



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License Number: 31-025-03

Amendment Number: 51 Code 02513

CONDITION CONTINUED

Users	AECL/ Theratronics	Keleket- Barnes	Picker/ AMS/ATC	Siemens	TEM Instruments	Toshiba	Westing- house
Robert S. Johnson	yes						
Tommy Kidd			yes				
Edward N. Koontz	yes		yes	yes			
Jeffery A. Koontz	yes		yes				
Dale R. Marshall	yes		yes				
Charles T. Maychak	yes						
Darrell O. Poole						yes	
Dale Repp	yes	yes	yes	yes	yes	yes	yes
Richard H. Tanker	yes						
Marvin Turkanis	yes	yes	yes				

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Roland G. Fletcher
 Radiological Health Program Manager II

May 6, 1998

DKM REM

5/11/98



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

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License No: MD-31-025-03

Amendment No.: 50 Code: 02513

Neutron Products, Inc.
22301 Mt. Ephraim Road
P.O. Box 68
Dickerson, Maryland 20842-0068

CORRECTED AMENDMENT NUMBER

In accordance with letter with attachment dated November 10, 1997, Radioactive Material License Number MD-31-025-03 is amended as follows:

Condition 14 to add: letter with attachment dated November 10, 1997 to include modified Appendix 1 of Procedure P-9.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Date: April 15, 1998

Roland G. Fletcher
Radiological Health Program Manager II

DKM REM

5/11/98



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

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Supplementary Sheet

License No. MD-31-025-03	Amendment No. 49
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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	Keleket-Barnes	Picker/AES/ ATC	Siemens	TEM Instruments	Toshiba	Westinghouse
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 Hood					X		

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

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. 49

CONDITION CONTINUED

Users (continued)	AECL/ Theratronics	Keltek-Barnes	Picker/NBS/ ATC	Siemens	TDM 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 Reop	X	X	X	X	X	X	X
Richard H. Tanker	X						
Marvin Turkonis	X	X	X				

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

Date Printed: October 30, 1995

Roland H. Fletcher
RADIOLOGICAL HEALTH PROGRAM MANAGER II

TDF



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

Page 1 of 5 pages

Pursuant to the Maryland Radiation Act, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below. In accordance with application dated March 29, 1990, subject to Department revisions, Radioactive materials license is renewed in its entirety.

LICENSEE

1. Name Neutron Products, Inc.
 22301 Mt. Ephraim Road
 P.O. Box 68
 2. Address Dickerson, Maryland 20842-0068

3. License No.

MD-31-025-03

4. Amendment No.

48

5. Expiration Date

September 30, 2000

6. Radioactive material (element and mass number)

Cobalt-60

B. Cesium-137

C. Depleted uranium

7. Chemical and/or physical form

A. Teletherapy sealed sources

B. Teletherapy sealed sources

C. Metal as shielding

8. Maximum amount of radioactivity which licensee may possess at any one time

A. No source to exceed 15,000 curies; total possession not to exceed 100,000 curies

B. No source to exceed 3,000 curies; total possession 10,000 curies

C. Total possession not to exceed 999 kilograms

9. Authorized Use

A-B. Receive, acquire, own, possess, store, use, transfer and transport during or incidental to source installation or transfer in Atomic Energy of Canada, Ltd. (AECL)/Teratronics, Picker/AMS/ATC, Keleket-Barnes, Siemens, TEM Instruments, Ltd., Toshiba, and Westinghouse units. Five year inspection and maintenance of these units. Disassembly and packaging of these units.

For use as shielding in teletherapy heads and collimators.



DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

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License No.

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CONDITIONS

10. The authorized place of use is the licensee's address stated 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	Picker/AMS/ ATC	Siemens	TEH Instruments	Toshiba	Hestingshouse
Bernard Boswell	X						
Norman Brooden				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 Hood					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/ Theratronix	Keleket-Barnes	Picker/AMS/ ATC	Siemens	TEM 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 Saylor	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

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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.
- 15. 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

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Supplementary Sheet

License No.

MD-31-025-03

Amendment No.

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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

RADIOLOGICAL HEALTH PROGRAM MANAGER II

DKM