NRC FORM 374 (7-94) U.S. NUCLEAR REGULATORY COMMISSION PAGE 1 OF 5 PAGES

MATERIALS LICENSE

Amendment No. 01

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.

302390

Licensee	
1. Providence Hospital Radiation Oncology Department	In accordance with letter dated February 28, 1997 3. License Number 21-26632-01 is amended in its entirety to read as follows:
2. 22301 Foster Winter Drive Southfield, MI 48075	4. Expiration Date July 31, 2000
	5. Docket or Reference No. 030-33776

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. Iridium-192	A. Sealed sources (RTS Technology Model 721 or 724)	A. Two sources not to exceed 12 curies each
B. Iridium-192	B. Sealed sources (Byk Mallinckrodt Model GM 212.03-000)	B. Two sources not to exceed 12 curies each
C. Uranium depleted in Uranium-235	C. Cadmium plated metal	C. As needed

9. Authorized Use:

A. and B. One source to be used in a Isotopen-Technik GammaMed 12i remote afterloading brachytherapy unit for interstitial and intracavitary radiotherapy. One source in its shipping container to be in possession of the licensee as necessary for replacement of source in the irradiation device.

C. Shielding in a remote afterloading unit.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Providence Hospital, Radiation Oncology Department, 22301 Foster Winter Drive, Southfield, Michigan.

11. The Radiation Safety Officer for this license is Peter L. Roberson, Ph.D.

110088

12. A. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:

Authorized Users	Material and Use
Patrick William McLaughlin, M.D.	iridium-192 in remote afterloading brachytherapy unit
Jennifer Holt, M.D.	iridium-192 in remote afterloading brachytherapy unit
Walter Sahijdak, M.D.	iridium-192 in remote afterloading brachytherapy unit

B. Brachytherapy Physicists: Peter L. Roberson, Ph.D. and Vrinda Narayana, M.S.

13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.

B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

C. Sealed sources need not be leak tested if:

(i) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

(ii) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

D. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to Perform such services.

14. A. Access to the rooms housing the MicroSelection-HDR afterloading brachytherapy device shall be controlled by a door at each entrance.

B. The entrance to the irradiation room shall be equipped with an electrical interlock system that will cause the source to return to the shielded position immediately upon opening of the entrance door. The interlock system shall be connected in such a manner that the source cannot be placed in the irradiation position until the entrance door is closed and the source "on-off" control is reset at the control panel.

C. Electrical interlocks on the entrance door to the irradiator room shall be tested for proper operation at least once each day of use.

D. In the event of malfunction of the door interlock, the irradiation device shall be locked in the "off" position and not used, except as may be necessary for repair or replacement of the interlock system, until the interlock system is shown to be functioning properly.

15. Prior to initiation of a treatment program, and subsequent to each source exchange using the MicroSelection-HDR remote afterloading brachytherapy devices, radiation surveys and tests shall be performed in accordance with the following:

A radiation survey shall be made of:

(1) The irradiator source housing, with the source in the shielded position. The maximum radiation levels at 10 centimeters from the surface of the main source safe shall not exceed 1 milliroentgen per hour.

(2) All areas adjacent to the treatment room with the source in the "irradiation" position. The survey shall clearly establish:

(a) That radiation levels in restricted areas are not likely to cause personnel exposure in excess of the limits specified in 10 CFR 20.101 (10 CFR 20.1201).

(b) That radiation levels in unrestricted areas do not exceed the limits specified in 10 CFR 20.105(b) (10 CFR 20.1301).

16. The following shall be performed only by manufacturer's representatives or persons specifically authorized by the Commission or an Agreement State to perform such services:

A. Installation and replacement of the sealed sources contained in the MicroSelectron-HDR afterloading brachytherapy device(s).

B. Any maintenance or repair operations on the remote afterloading brachytherapy unit(s) listed in Item 9., Subitem(s) A. and B. involving work on the source safe, the source drive unit, or other mechanism that could expose the source, reduce the shielding around the source, or compromise the safety of the unit and result in increased radiation levels.

17. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

18. In lieu of 10 CFR 35.404(a), immediately after retracting the source from the patient into its shielded position in the remote afterloading device, a radiation survey shall be made of the patient and the remote afterloading device with a portable radiation detection survey instrument to conform that the source has been removed from the patient. Records of the survey shall be maintained in lieu of the record required in 10 CFR 35.404(b).

19. In lieu of the source inventory required in 10 CFR 35.406, the licensee shall:

A. Promptly determine that all sources have returned to the safe, shielded position at the conclusion of each remote afterloading brachytherapy procedure.

B. Promptly make a survey of the area of use to confirm that no sources have been misplaced.

C. Make a record of the survey including the survey instrument used, dose rate expressed in mrem/hr (μSieverts/hr), time, date and name of the individual making the survey.

D. Retain the record of the survey in lieu of the record required in 10 CFR 35.406(d).

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
21-26632-01

Docket or Reference Number
030-33776

Amendment No. 01

20. 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 Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated January 19, 1995; and

B. Letters dated June 20, 1995, February 28, 1997, and March 24, 1997.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date APR 0 8 1997

By _____
Nuclear Materials Licensing Branch, Region III

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 02230
Status Code: 0
Fee Category: 7C 2B
Exp. Date: 20000731
Fee Comments:
Decom Fin Assur Reqd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
   Applicant/Licensee: PROVIDENCE HOSPITAL
   Received Date: 970305
   Docket No: 3033776
   Control No.: 302390
   License No.: 21-26632-01
   Action Type: Amendment

2. FEE ATTACHED
   Amount: ~~---~~ Ø
   Check No.: ~~---~~

3. COMMENTS

Signed D. Herzer
Date 3-11-97

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

1. Fee Category and Amount: (7C) 2B $440

2. Correct Fee Paid. Application may be processed for:
   Amendment ✓
   Renewal
   License

3. OTHER

Signed SC
Date 4/1/97

APR 0 3 1997

Log Mail # III
Remitter
Check No. 28431
Amount $440
Fee Category (7C) 2B
Type of Fee AMD
Date Check Rec'd 4/1/97
Date Completed
By: SC

MISSION HEALTH

Providence Cancer Center

22301 Foster Winter Drive
First Floor
Southfield, MI 48075-3707
Phone: (810) 424-3321
FAX: (810) 424-7443

February 28, 1997

U.S. Nuclear Regulatory Commission, Region III
ATTN: Nuclear Materials Licensing
801 Warrenville Road
Lisle, IL 60532-4351

REF: Materials License #21-20632-01

SUBJECT: Request for materials license amendment (Expedite)

Dear Sir:

I have just recently become aware that a license amendment was required to move an HDR unit to an adjacent shielded room. To continue patient care with the least interruption, I request that this license amendment be expedited. A check to cover the fee is being prepared and will be sent as soon as possible.

The room currently housing the High Dose Rate Afterloader is scheduled for remodeling. The unit will be moved from room #101 to room #102, which currently houses a Clinac 1800 accelerator and is more heavily shielded. Modifications to the original license application are attached, including shielding calculations for the new room.

In addition, we request that the license be amended to allow use of a source activity up to 12 Ci. A copy of the registry certificate provided by the equipment manufacturer is enclosed.

Thank you for your help with this matter.

Sincerely,

Peter L. Roberson, Ph.D.
Chief Physicist

Enclosures

97 MAR 12 AM 9:16

PM: 3-4-97

RECEIVED
MAR 05 1997
REGION III
302390

MAR 05 1997

V. Facilities

A. Treatment room

Room identification: Room 102 (18 MV accelerator room)

The High Dose Rate (HDR) afterloader will be used in the accelerator room designated for an 18 MV linear accelerator. It will share space with the currently installed Clinac 1800 linear accelerator. Scale drawings are attached. The room borders the exterior on two walls and the ceiling, the accelerator console area, the other accelerator room, and earth beneath the floor. All exterior walls are considered unrestricted areas for the purposes of shielding calculations. The positioning of the door and the conduits were designed for a linear accelerator. Shielding calculations are attached.

C. Continuous viewing and intercom system

An intercom and viewing system will be used at all times. Listed below are the primary and backup systems. If neither the primary nor backup system is operational, the HDR afterloader will not be used.

1. Primary intercom and viewing system
   - intercom: Executone Aiphone model LAF-3A
   - viewing: ½" Solid State CCD Camera (Burle model TC650EA)
     9" monochrome monitor (Burle model TC1909)
     Zoom, pan and tilt with remote control
2. Backup intercom and viewing system
   - intercom: Executone model 701 RKK
   - viewing: Camera system currently installed with camera (RCA model TC15018) and monochrome monitor (RCA model TC1910A).

D. Security

The door access to room 102, housing the HDR afterloader, will be key locked when the room is not in use for patient treatment, source calibration or housekeeping. Only properly trained authorized personnel will be allowed access to the room.

An electrical interlock system is installed in the room, which will trigger a source return to a safe condition when the door is opened. If the interlock system malfunctions, the HDR afterloader will be locked in the "off" position, except as may be necessary for testing the interlock system, until the interlock system is shown to be functioning properly.

The HDR afterloader will share room 102 with a Varian Clinac 1800 accelerator. The console keys for the HDR afterloader and the Clinac 1800 accelerator will be locked together, preventing both units from being activated at once. When not in use for either the HDR afterloader or the Clinac accelerator operation, the console keys will be stored in a locked location.

RADIATION SHIELDING CALCULATIONS

DEVICE: High Dose Rate Remote Afterloader

Room: 18 MVAccelerator Room, Rm. 102
Provex Building
22301 Foster Winter Drive
Southfield, Michigan

By: Peter L. Roberson, Ph.D.
February 1997

INTRODUCTION

The 18 MV accelerator room currently houses a Clinac 1800 linear accelerator with photon beams of 6 MV and 18 MV. The room is shielded for an 18 MV photon beam. Facility drawings showing the wall layout and elevation are attached.

SHIELDING DATA REFERENCE

NCRP Report No. 49, "Structural Shielding Design and Evaluation for Medical Use of X-Rays and Gamma Rays of Energies up to 10 MEV", 1976.

ASSUMPTIONS

Maximum activity of ^{192}Ir unshielded in room = 12 Ci
Specific Gamma-Ray Constant = 0.466 $Rm^2Ci^{-1}hr^{-1}$
TVL = 14.7 cm concrete
No exposure reduction due to patient shielding
Workload = 1 hr/day x 5 days/week x 52 weeks/yr = 260 hrs/yr
Occupancy factors = 1
Conversion of exposure to dose of 1 rem/R
All areas external to the room are limited by 100 mrem/yr and a maximum dose rate of 2 mrem/hr.

NARRATIVE

The treatment table is positioned as shown on the floor layout. When not in use, the trolley is stored along the West wall.

Transmission dose calculations were performed for the secondary barriers (thinnest sections). There is earth below the room and no structure above the room. There is a parking lot on two sides, an accelerator room on one side, and a console area plus passageway on the remaining side. The walls and ceiling provide sufficient shielding. Photons scattering through the maze must undergo at least two scattering events. Only one scattering was assumed for purposes of the calculation.

CALCULATIONS
CL1800 Room (room 102)

Primary: Annual exposure = 12 Ci x 0.466 $Rm^2Ci^{-1}hr^{-1}$ x 260 $hr\text{-}yr^{-1}$ x K/d^2
Instantaneous exposure = 12 Ci x 0.466 $Rm^2Ci^{-1}hr^{-1}$ x K/d^2

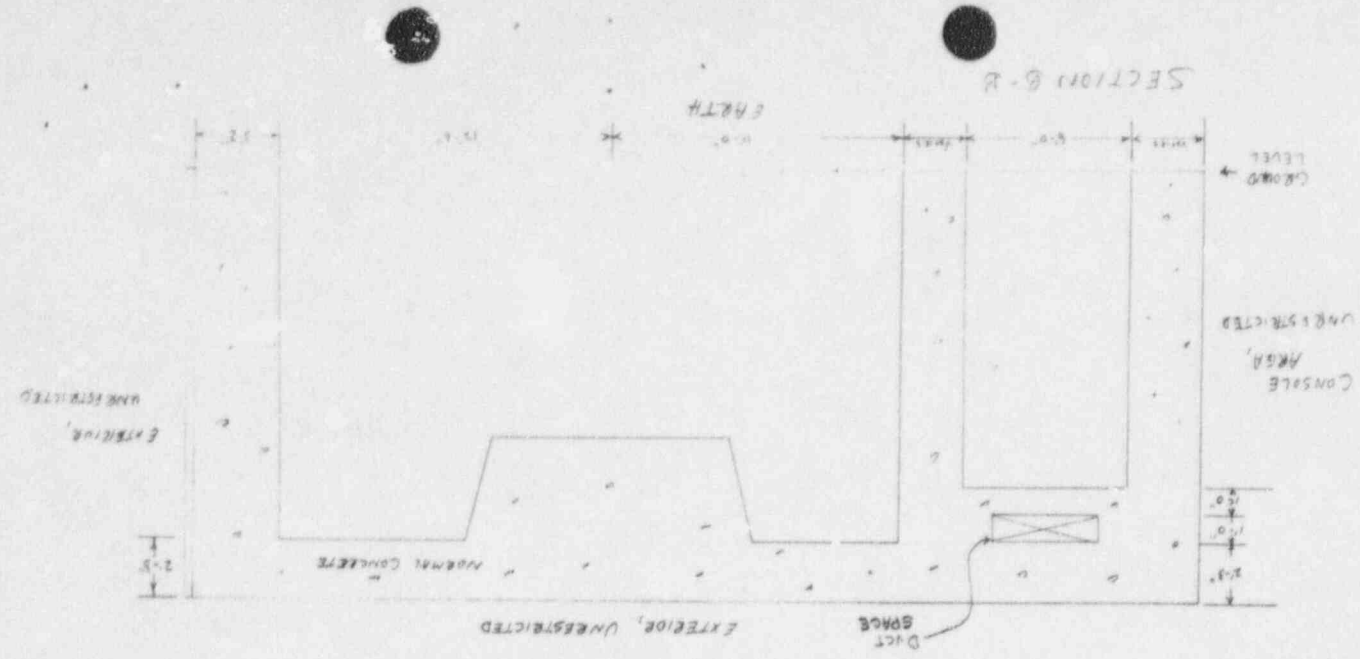
Secondary*: Annual exposure = 12 Ci x 0.466 $Rm^2Ci^{-1}hr^{-1}$ x 260 $hr\text{-}yr^{-1}$ x K x a x F/400/$(d_{sec})^2$/$(d_{sca})^2$

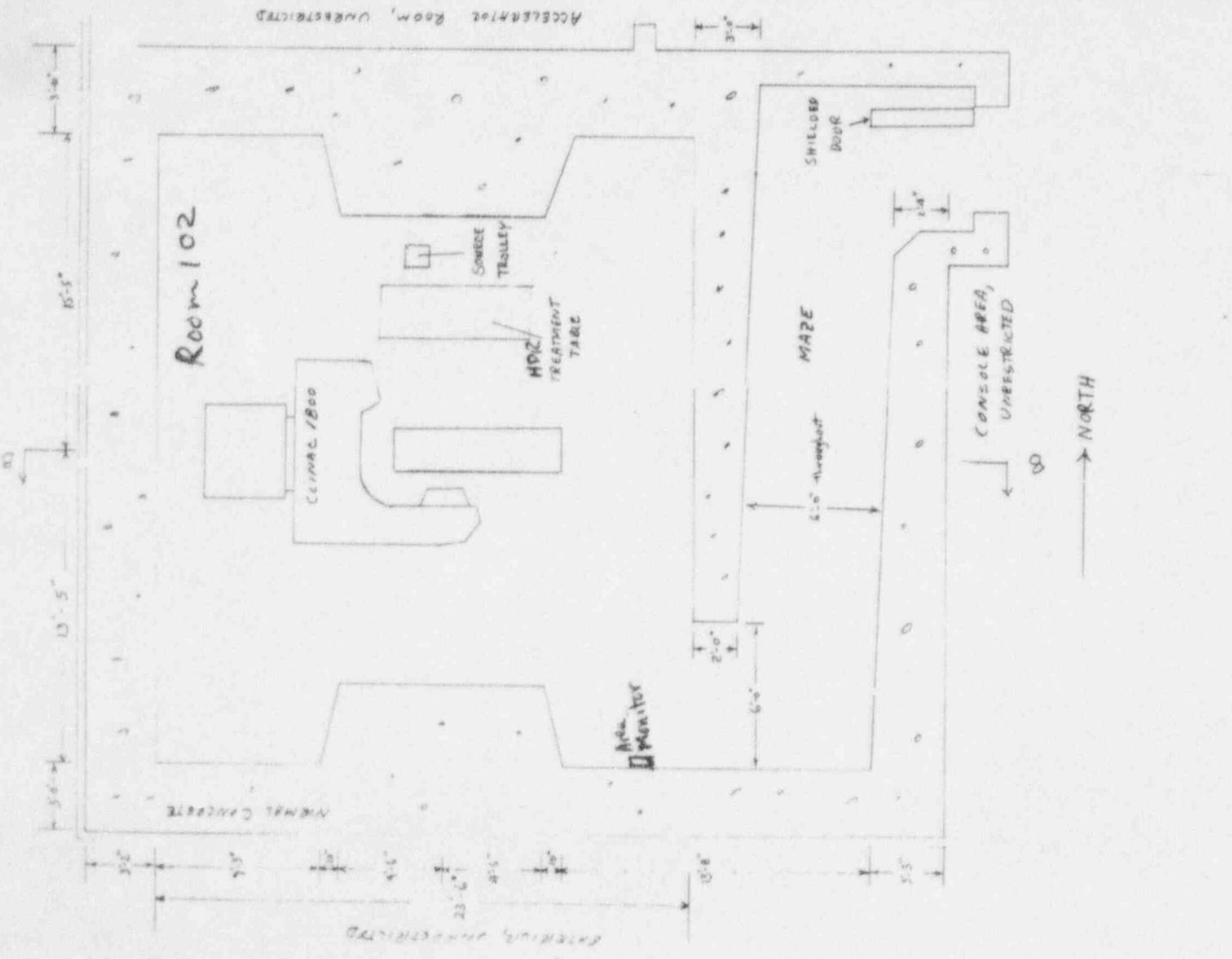
CALCULATION POINT	CONCRETE BARRIER THICKNESS	DISTANCE [d], m	NUMBER OF TVLs	TRANSMISSION FACTOR [K]	ANNUAL DOSE $mrem\text{-}yr^{-1}$	DOSE RATE $mrem\text{-}hr^{-1}$
North	3'-10" [1.17 m]	3.4	7.95	1.1×10^{-8}	1.5×10^{-3}	5.6×10^{-6}
West	3'-2" [0.97 m]	5.2	6.57	2.7×10^{-7}	1.5×10^{-2}	5.7×10^{-5}
South	3'-0" [0.91 m]	6.7	6.22	6.0×10^{-7}	1.9×10^{-2}	7.5×10^{-5}
East	4'-10" [1.47 m]	6.1	10.02	9.5×10^{-11}	3.7×10^{-6}	1.4×10^{-8}
Roof	2'-3" [0.69 m]	3.66	4.67	2.2×10^{-5}	2.4	9.0×10^{-3}
Door	6 mm lead	7.0,8.5*	0.3	0.5	1.4×10^{-2}	5.4×10^{-5}

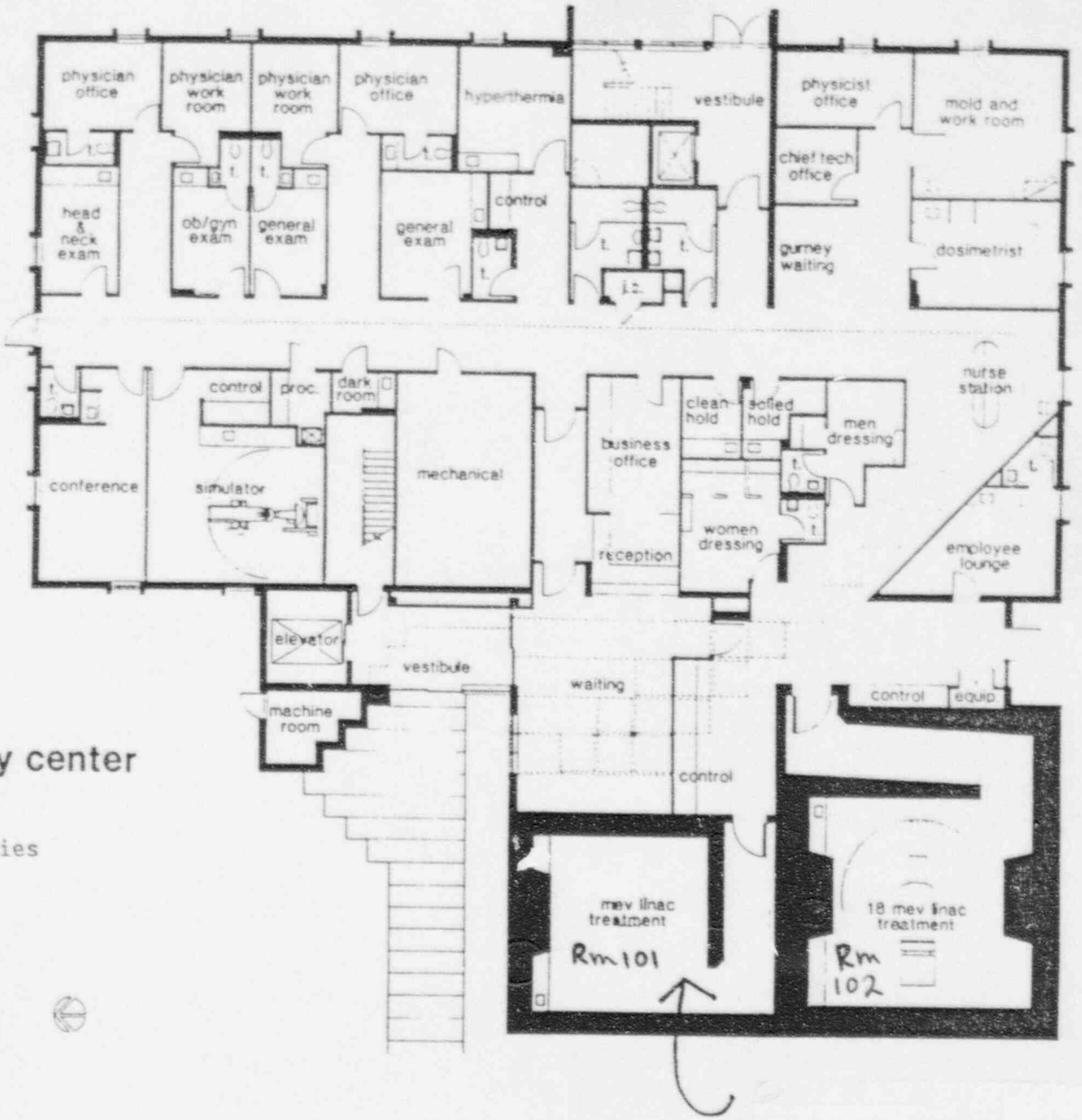
K = 10**(-t/TVL) TVL(Concrete) = 0.147 m TVL(lead) = 20 mm

*Intensity loss due to scattering from the wall was estimated using the value for Cs-137 from NCRP 49, where an area of scatter of 400 cm^2 was assumed. The area of scatter (F) was estimated as the open area of the maze hallway not blocked by the interior maze wall. Thus, a x F/400 = 0.0019 x 14,000/400 = 0.067 is the estimated intensity loss due to scattering from the far wall of the maze. It was conservatively assumed that there is a one-scatter path to the door.

*d_{sec}, d_{sca}


SECTION B-B
EARTH
CROWD LEVEL
CONSOLE AREA, UNRESTRICTED
EXTERIOR, UNRESTRICTED
DUCT SPACE
NORMAL CONCRETE
EXTERIOR, UNRESTRICTED


ACCELERATOR ROOM, UNRESTRICTED
ROOM 102
SHIELDED DOOR
SOURCE TROLLEY
HDR TREATMENT TABLE
MAZE
CEIMAC 1800
CONSOLE AREA, UNRESTRICTED
NORTH
NORMAL CONCRETE
EXTERIOR, UNRESTRICTED



providence hospital

radiation oncology center

southfield, michigan

Department of Facilities
Southfield, Michigan

0 5 10 15 25 35

T-150-R-13.11
Page 1 of 1

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE
(AMENDED IN ITS ENTIRETY)

NO: NR-726-D-101-S DATE: May 26, 1995

DEVICE TYPE: Brachytherapy HDR Remote Afterloader

MODEL: GammaMed 12it, GammaMed 12i

DISTRIBUTOR: Frank Barker Associates, Inc.
61 Newark Pompton Turnpike
P.O. Box 30
Pequannock, NJ 07440

MANUFACTURER: Isotopen-Technik Dr. Sauerwein, GmbH
Bergische Str. 16
D-5657 Haan, Germany

SEALED SOURCE MODEL DESIGNATION: RTS Models 721, 724

ISOTOPE:	MAXIMUM ACTIVITY:
Iridium-192	12 curies (444 GBq)
Depleted Uranium	26 lbs. (12 kg)

LEAK TEST FREQUENCY: 6 months

PRINCIPAL USE: (V) General Medical Use

CUSTOM DEVICE: YES _____ NO X

NRC FORM 577
(1-95)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

PROVIDENCE CANCER CENTER
ATTN: PETER L. ROBERSON, PH.D.
CHIEF PHYSICIST
22301 FOSTER WINTER DRIVE
FIRST FLOOR
SOUTHFIELD, MI 48075-3707

TYPE OF ACTION

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

REQUESTED DATE: 2-28-97

LICENSE NUMBER: 21-26632-01

CONTROL NUMBER: 302390

I. APPLICATION FEE DUE

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

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

FEE(s) DUE	$ 440.00
PAYMENT RECEIVED	$ 0.00
AMOUNT DUE	$ 440.00

☒ Your request was received without the prescribed application fee.

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

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

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

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

II. FEE NOT REQUIRED

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

- ☐ We received your Check No. _____ in payment of the fee.
- ☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____.
- ☐ Your request was combined, prior to review, with your _____ request, Control No. _____.

III. CHECK RETURNED

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

- ☐ INSUFFICIENT FUNDS
- ☐ ACCOUNT CLOSED
- ☐ OTHER

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

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

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

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

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section 1 of this form.

SIGNATURE -- LICENSE FEE ANALYST	LFDCB	LFDCB
SHIRLEY CRUTCHFIELD	3/13/97	

Distribution: OC/DAF/RF
Pending Fee File OC/DAF/SF(LF-3.2.7)
LFARB R/F (2) Region 3

DATE: Mar. 13 1997

NRC FORM 577 (1-95)

This form was electronically produced by Elite Federal Forms, Inc.

APR 0 8 1997

Peter Roberson, Ph.D.
Providence Hospital
Radiation Oncology Department
22301 Foster Winter Drive
Southfield, MI 48075

Dear Dr. Roberson:

Enclosed is Amendment No. 01 to your NRC Material License No. 21-26632-01 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.

2. Notify NRC, in writing, within 30 days:

   a. When an authorized user or Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or

   b. When the mailing address listed on the license changes. (No fee is required if the location of byproduct material remains the same.)

302390

3. In accordance with 10 CFR 30.36(b) and/cr license condition, notify NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the licenso.

4. Request and obtain a license amendment before you:

   a. Receive or use byproduct material for a clinical procedure permitted under Part 35 but not permitted by your license issued pursuant to this Part;

   b. Permit anyone, except individuals described in 10 CFR 35.13(b), to work as an authorized user under the license;

   c. Change Radiation Safety Officers;

   d. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;

   e. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or

   f. Change ownership of your organization.

5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normaliy be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Statement of Policy and Procedure for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC

requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Original Signed By
Evelyn R. Matson
Nuclear Materials Licensing Branch

License No. 21-26632-01
Docket No. 030-33776

Enclosure: Amendment No. 01

DOCUMENT NAME: M:\03033776.CL7
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							
NAME	ERMatson:brt							
DATE	03/12 /97							

OFFICIAL RECORD COPY

UNITED STATES NUCLEAR REGULATORY COMMISSION
REGION III
CONVERSATION RECORD

(X) TELEPHONE (X) OUTGOING ( ) INCOMING ( ) CONVERSATION TIME: 2:30pm DATE: 3/24/97

NAME OF PERSON(S) CONTACTED: ORGANIZATION: TELEPHONE NO.:
Peter Roberson
Providence Hospital

SUBJECT:
Amendment request. Ltr dated 2/28/97

SUMMARY:

The NRC needs that following additional information:

During our conversation, you stated that the security measures for the HDR will change. Please describe the new security system that you will put into place.

In addition, we discussed the need to abide by License Conditions 14, 15, 16 during the relocation. Also, I explained the addition of two new conditions regarding compliance with 10 CFR 35.404 and 35.406. You stated that your procedures already contain these actions and the conditions will be met.

ACTION REQUIRED:
Please respond in writing within 15 days, provide two copies of your response and refer to Control No. 302390.

ACTION TAKEN:

NAME OF PERSON DOCUMENTING CONVERSATION SIGNATURE DATE
Evelyn R. Matson 3/24/97
630-829-9822

MISSION HEALTH

Providence Cancer Center

22301 Foster Winter Drive
First Floor
Southfield, MI 48075-3707
Phone: (810) 424-3321
FAX: (810) 424-7443

March 24, 1997

U.S. Nuclear Regulatory Commission, Region III
ATTN: Nuclear Materials Licensing
801 Warrenville Road
Lisle, IL 60532-4351

REF: Control # 302390
Materials License #21-26632-01

SUBJECT: Request for materials license amendment

Dear Sir:

We request a minor modification to the source security specifications as described in my letter of February 28, 1997. When not in use, the HDR afterloader will be locked into a wooden cabinet attached to the back wall and floor of the shielded treatment room. Only trained, authorized personnel will be allowed access to the key for the HDR security cabinet. The keys to the cabinet, HDR unit and console will be locked up when not in use.

We appreciate your prompt attention to this matter.

Sincerely,

Peter L. Roberson, Ph.D.
Chief Physicist

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

March 11, 1997

Peter L. Roberson, Ph.D.
Radiation Safety Officer
Providence Hospital
Radiation Oncology Department
22301 Foster Winter Drive
Southfield, MI 48075

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letter Dated 02/28/97)

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 X Amendment ___ Renewal

Administrative deficiencies were identified during this initial review as outlined below. However, it should be noted that a technical review may identify additional omissions in the submitted information.

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

Incomplete information is as follows: In order for us to complete your amendment request the required fee is necessary. Please contact our License Fee & Debt Collection Branch, as referenced below, to obtain the correct fee amount.

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. 302390
License No. 21-26632-01