

2001 NE PARVIN ROAD SUITE 100  
KC, MO 64116  
OFFICE # 816-452-2751  
FAX# 816-452-2329



R  
040-08853

# Fax

To: Sam Munday From: Judie Dameron

Fax: \_\_\_\_\_ Pages: TO FOLLOW 2

Phone: \_\_\_\_\_ Date: \_\_\_\_\_

Re: \_\_\_\_\_ CC: \_\_\_\_\_

- Urgent     For Review     Please Comment     Please Reply     Please Recycle

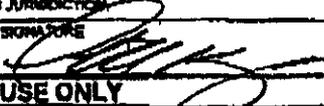
• Comments:

Item #7 - Requests - Martin Richman, M.S. 115 R50

\*\*\*\*\*  
 IF INCORRECT NUMBER OF DOCUMENTS ARE RECEIVED, CONTACT SENDER AT (816) 452-2751.  
 \*\*\*\*\*

314079

REC'D JAN 28 2005

<b>NRC FORM 313</b> <small>(9-2000)</small> <small>10 CFR 30, 32, 33, 34, 36, 38, 39, and 40</small>		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>		<b>APPROVED BY OMB: NO. 2180-0120</b>		<b>EXPIRES: 08/31/2002</b>	
<b>APPLICATION FOR MATERIAL LICENSE</b>				<small>Estimated burden per response to comply with this mandatory collection request: 7.4 hours. Submission of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-8 EF), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to <a href="mailto:bja1@nrc.gov">bja1@nrc.gov</a>, and to the Desk Officer, Office of Information and Regulatory Affairs, NEO-10212, (2150-0000), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.</small>			
<b>INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.</b>							
<b>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</b> DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001				<b>IF YOU ARE LOCATED IN:</b> ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:  MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION II 201 WARRENVILLE RD. LIBLE, IL 60522-4031			
<b>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</b> <b>IF YOU ARE LOCATED IN:</b> CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:  LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415				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:  NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-8264			
ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:  SAM NUUN ATLANTA FEDERAL CENTER U. S. NUCLEAR REGULATORY COMMISSION, REGION III 61 FORSYTH STREET, S.W., SUITE 23705 ATLANTA, GEORGIA 30303-6931				<b>PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.</b>			
<b>1. THIS IS AN APPLICATION FOR (Check appropriate form)</b> <input type="checkbox"/> A. NEW LICENSE <input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER _____ <input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>SUD-1442</u>		<b>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</b> Parvin Radiation Oncology Services & Equipment Parvin Medical Building 2001 NE Parvin Road, Kansas City, MO 64116					
<b>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</b>  Same as item 2		<b>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</b> Martin S. Richman <b>TELEPHONE NUMBER</b> 913 706 9200 816 691 5216					
<b>SUBMIT ITEMS 5 THROUGH 11 ON 6-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.</b>							
<b>5. RADIOACTIVE MATERIAL</b> a. Element and mass number, b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.				<b>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</b>			
<b>7. INDIVIDUALS RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</b>				<b>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREA.</b>			
<b>9. FACILITIES AND EQUIPMENT.</b>				<b>10. RADIATION SAFETY PROGRAM.</b>			
<b>11. WASTE MANAGEMENT.</b>				<b>12. LICENSE FEES (See 10 CFR 170 and Section 170.31)</b> FEE CATEGORY _____ AMOUNT ENCLOSED \$ _____			
<b>13. CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 38, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.</b>  <b>WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 26, 1948 (22 STAT. 749) 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 JURISDICTION.</b>							
<b>CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE</b> Scott Cozad, M.D.				<b>SIGNATURE</b> 		<b>DATE</b> 1/28/2005	
<b>FOR NRC USE ONLY</b>							
<b>TYPE OF FEE</b>		<b>FEE LOG</b>		<b>FEE CATEGORY</b>		<b>AMOUNT RECEIVED</b>	
						\$ _____	
<b>APPROVED BY</b>				<b>CHECK NUMBER</b>			
<b>DATE</b>				<b>COMMENTS</b>			

January 28, 2005

The following are responses to NRC form 313 items 5 to 11 and also a request to amend:

**Item 5. RADIOACTIVE MATERIAL**

- 5a. Uranium (depleted in uranium-235)
- 5b. The physical form is Cadmium plated metal
- 5c. The maximum amount is 105 kilograms

**Item 6. PURPOSE**

To be used as shielding in a Varian Clinac 6/100 medical linear accelerator.

**Item 7. INDIVIDUALS RESPONSIBLE FOR RADIOACTIVE PROGRAMS AND THEIR TRAINING AND EXPERIENCE.**

Scott Cozad, M.D  
Patrick W. Townsend, M.D.  
Kelly Rhodes-Stark, M.D.  
Martin S. Richman, M.S, Physicist

Dr. Cozad is currently on NRC license SUD-1442. Martin S Richman should be added to the license as an authorized user and Radiation Safety Officer. Credentials may be established by referencing license number 24-18628-01, North Kansas City Hospital, which lists Martin S. Richman as Intravascular Brachytherapy Physicist. Dr. Townsend and Dr. Rhodes-Stark are radiation oncologists and should be added to the license. Their credentials may be established by referencing the same license number 24-18628-01.

**Item 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.**

Not applicable

**Item 9. Facilities and Equipment.**

The Clinac 6/100 contains approximately 230 pound of depleted Uranium. This material is a by-product of the gaseous diffusion process where fissionable U-235 is extracted from natural Uranium. It consists of at least 99.7% U-238 and less than 0.3% U-235. Because the metal is highly reactive, each piece of depleted Uranium is Cadmium plated to prevent surface corrosion. Some medical linear accelerator components are manufactured with depleted Uranium alloy containing 0.75% titanium, which is identified by its metallic green surface. The alloy is stable and does not require plating. Each piece of depleted Uranium in the clinac 6/100 is stamped with the impression "Caution Radioactive Material - Depleted Uranium". Depleted Uranium is only mildly radioactive (specific activity of  $3.6 \times 10^{-7}$  Ci/g) and as shielding material presents no significant hazard.

**Item 10. RADIATION SAFETY PROGRAM**

Not Applicable.

**Item 11. WASTE MANAGEMENT**

Not Applicable.

**AMENDMENT REQUEST:**

Please remove Walter J. Kopecky as Radiation safety officer and add Martin S Richman to the license as an authorized user and Radiation Safety Officer. Credentials may be established by referencing license number 24-18628-01, North Kansas City Hospital, which lists Martin S. Richman as Intravascular Brachytherapy Physicist. Dr. Townsend and Dr. Rhodes-Stark are radiation oncologists and should be added to the license. Their credentials may be established by referencing the same license number, 24-18628-01.