

♥ **The ALARA Group**  
**Accreditation, Licensing, and Radiological Associates**  
**Specialists in Cardiovascular Laboratory Accreditation**

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Br. 2

November 21, 2006

Licensing Assistance Team  
Division Of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King Of Prussia, Pa 19406-1415

03037319

Re: Request for an Amendment to Radioactive Materials License #37-31179-01

To Whom It May Concern:

Enclosed please find an original and one copy of a request for an amendment to radioactive materials license #37-31179-01.

We would like to add Joel S. Raichlen, MD, as an Authorized User for the uses described herein. An application to amend the PA license accordingly has also been forwarded to the PA DEP. Dr. Raichlen is presently an AU for 35.200 and 35.100 on NRC Materials License #31-30666-01, expiration date April 30, 2016, and on PA #0846, exp. date November 30, 2015.

The person to be contacted regarding this application is Jeffrey Mandler, President, Cardiovascular Solutions. He can be reached at (610) 296-1176. Please inform Mr. Mandler of the amendment fee and it will be forwarded without delay. Thank you for evaluating this amendment request. Your usual timely attention to these matters is always appreciated.

Cordially,



Kevin F. Smith, MPH, PhD  
Document Preparer  
Senior Specialist, The ALARA Group  
Consultant Radiation Health Physicist, Cardiovascular Solutions, Inc.

2006 NOV 28 AM 10:31

RECEIVED  
REGION I

Cc: Jeffrey Mandler, President, Cardiovascular Solutions  
File

Enclosures

139778  
NMSS/RGNI MATERIALS-002

**NRC FORM 313**  
(10-2005)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

**U.S. NUCLEAR REGULATORY COMMISSION**

**APPROVED BY OMB; NO. 3150-0120**

**EXPIRES: 10/31/2008**

Estimated burden per response to comply with this mandatory collection request: 4.4 hours. Submittal 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 and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects@nrc.gov](mailto:infocollects@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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.

**APPLICATION FOR MATERIAL LICENSE**

**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.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

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 BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-4005

**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.**

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE  
 B. AMENDMENT TO LICENSE NUMBER 37-31179-01  
 C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

Riaz Baqir, MD  
Cardiovascular Solutions Inc.  
20 Mystic Lane, Second Floor  
Malvern, Pa 19355

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

1015 Chestnut Street  
Jefferson Building, Suite 1400  
Philadelphia, PA, 19107

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Jeffrey Mandler, Administration

TELEPHONE NUMBER

(610) 296-1176

**SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.**

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY \_\_\_\_\_ AMOUNT ENCLOSED \$ \_\_\_\_\_

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

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, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 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.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

Jeffrey Mandler, President, Cardiovascular Solutions, Inc

SIGNATURE



DATE

11-20-06

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

**ITEM 5: RADIOACTIVE MATERIAL**

<u>Byproduct Material</u>	<u>Chemical/Physical Form</u>	<u>Maximum Amount</u>
Any byproduct material permitted by 10 CFR 35.200	Any	As needed
Licensee will obtain unit doses of Tc-99m.		
Cesium-137 in sealed source will be used.		(<200 uCi, 7.4mBq).
Others (presently regulated by PA DEP):		
Licensee will occasionally obtain unit doses of Tl-201.		As needed
Co-57 in sealed source will be used.		(10mCi/370mBq)

**ITEM 6: PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED**

10 CFR 35.200 Medical Use of Unsealed Byproduct Material for Imaging and Localization Studies for Which a Written Directive is Not Required.

The applicant will use unit doses of Tc-99m cardiac imaging compounds for planar and SPECT myocardial perfusion imaging both at rest and after exercise/pharmacological stress.

Cesium-137 in sealed source will be used for dose calibrator quality assurance testing

Others:

Licensee will occasionally obtain unit doses of Tl-201 for planar and SPECT myocardial perfusion imaging.

Co-57 in sealed source will be used for gamma camera quality control.

Co-57 in sealed source will be used for dose calibrator quality assurance testing.

**FOR RADIATION SAFETY PROGRAM  
AND THEIR TRAINING AND EXPERIENCE**

**Item 7: Authorized User**

Joel S. Raichlen, MD

Dr. Raichlen is presently listed as an authorized user for 10 CFR 35.200 on NRC license #: 31-30666-01 and on PA #0846.

This is to acknowledge the receipt of your letter/application dated

11/21/2006 11/28/2006, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment 37-31179-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 139779.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.