

EXPIRES: 3/31/2012 .

NRC FORM 31	13 U.S.	. NUCLEAR REG	GULATORY COMMISS	SION A	PPROV	ED BY OMB: NO. 3	150-0120	0	EXP	IRES: 3/3	31/2012 .	
(3-2009) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40 APPLICATION FOR MATERIALS LICENSE						Estimated burden per response to comply with this mandatory collection request: 4.3 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 2055-0001, or by internet e-mail to infocollects.resource@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.						
INSTRUCTIO	NS: SEE THE A	PPROPRIATE L	ICENSE APPLICATION	ON GUID	DE FOR	DETAILED INST	RLCTIC	NS FOR COM	PLETING A BELOW.	PPLICA ⁻	TION.	
APPLICATION FOR	R DISTRIBUTION OF	EXEMPT PRODUCTS	S FILE APPLICATIONS WIT	H: IF	YOU AR	E LOCATED IN:						
ENVIRONMEN DIVISION OF I U.S. NUCLEAR	OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001					NDIANA, IOWA, MICHI ONS TO:		INESOTA, MISSOU	RI, OHIO, OR V	VISCONSIN	I, SEND	
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:						MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352						
IF YOU ARE LOCA	ATED IN:											
ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, 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:						ALASKA, ARIZONA, ARIZONSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, 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						NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 612 E. LAMAR BOULEVARD, SUITE 400 ARLINGTON, TX 76011-4125						
			LICATIONS TO THE U.S. NU LATORY COMMISSION JUR			ORY COMMISSION ON	LY IF THE	Y WISH TO POSSI	ESS AND USE I	LICENSED		
1. THIS IS AN APP	PLICATION FOR (Ch	eck appropriate item)	13029521	2.	NAME A	ND MAILING ADDRESS	OF APP	LICANT (Include ZI	P code)		\neg	
A. NE	W LICENSE		03029521		Cardiovascular Consultants of Southern DE, LLC							
B. AM	SENDMENT TO LICE	NSE NUMBER	07-27897-0	1	6704 I	Kings Highway	Lewes	s DE 19958		012		
✓ C. RENEWAL OF LICENSE NUMBER 07-27891-91										833	2	
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED						F PERSON TO BE CON	NTACTED	ABOUT THIS APP	LICATION	ψ	2\$	
1.Kings Highway Lewes DE 19958						Kimberly Robles						
2. 35141 Atlantic Ave #3 Millville DE 19967					TELEPH	ONE NUMBER				*	- -	
2. 33141 Au	iantic Ave #5	MINIVINE DE 1.	<i>)</i>		(302) 645-1233					₽	T	
								•		<u>8</u>		
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11* PAPER. THE TYPE AND SCOPE OF INFORMA' 5. RADIOACTIVE MATERIAL a. Element and mass number; b. chemical and/or physical form; and c. maiximum amount						6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.						
which will be possessed at any one time. 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 SHIP OF THE PROPERTY SHIP OF THE PROPERT							
13. CERTIFICATION THE APPLICATION THE APPLICAT	ON. (Must be complete	ted by applicant) THE	APPLICANT UNDERSTAND	S THAT A			ENTATIO	ENCLOSE	,	ARE BINDIN	1G	
THE APPLICAN CONFORMITY CORRECT TO	NT AND ANY OFFICI WITH TITLE 10, COI THE BEST OF THEII	AL EXECUTING THIS DE OF FEDERAL REG R KNOWLEDGE AND	CERTIFICATION ON BEHAL GULATIONS, PARTS 30, 32, 3 BELIEF.	LF OF THE 33, 34, 35,	APPLICA 36, 39, A	ANT, NAMED IN ITEM 2 ND 40, AND THAT ALL	, CERTIF INFORM	Y THAT THIS APPL ATION CONTANED	ICATION IS PR HEREIN IS TR	EPARED IN UE AND	1	
			1948 62 STAT. 749 MAKES I ES AS TO ANY MATTER WI				LFULLY F	FALSE STATEMENT	OR REPRESE	NTATION 7	го	
CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE Kimberly Robles Cardiac Testing Manager					GNATUR	1 .	\bigcirc	0.1.1.	DATE		、一	
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TYPE OF FEE	FEE LOG	FEE CATEGORY		NRC U CHECK N		COMMENTS						
			\$									
APPROVED BY				DATE								

576889 PRINTED ON RECYCLED PAPER NMSS/RGN1 MATERIALS-002

January 17, 2012

U.S. Nuclear Regulatory Commission Region 1 475 Allendale Road King of Prussia, Pa 19406-1415

To Whom it May Concern:

We, *Cardiovascular Consultants of Southern Delaware, LLC* wish to renew our radioactive materials license (07-27897-01) under the current NRC 10 CFR 35 regulations. Please find attached: our signed application form and this letter answering items 5-11.

Items 5 and 6: Radioactive Material and Use

We wish to be licensed for the following material categories and associated quantities.

 Any byproduct material permitted by 10 CFR 35.200 (use of unsealed byproduct material for imaging and localization studies for which a written directive is not required), in any chemical/physical form, and with quantities as needed.

Item 7: Radiation Safety Officer

 We wish to name Barry S. Denenberg, M.D. as our Radiation Safety Officer (RSO). Dr. Denenberg is currently our RSO.

Regarding the control over the radiation safety program that will be delegated so that the RSO will be able to exercise authority over authorized users when confronted with radiation safety problems that require implementation of corrective actions.

- We have delegated Dr. Denenberg the duties and responsibilities of the Radiation Safety Officer as outlined in NUREG 1556 (final version).
- Dr. Denenberg will have the authority to meet these responsibilities, including prohibiting the use of byproduct material by employees who do not meet the necessary requirements and shutting down operations when justified by radiation safety.
- Dr. Denenberg will have the authority to raise issues with the Nuclear Regulatory Commission at any time.

Appoint an in-house representative who will serve as the point of contact during the RSO's absence. This person may be allowed to assist the consultant RSO with limited authority.

- Kimberly J. Robles, CNMT will be the point of contact during Dr. Denenberg's absence.
- Adam M. Henry of Keystone Physics LTD. will provide health physics consultant support to licensee.

Describe the overall availability of the RSO to respond to questions or operational issues that arise during the conduct of your radiation safety program and related regulatory requirements. Specify the maximum amount of time it will take the RSO to arrive at the facility in the event of an emergency that requires this presence.

- Dr. Denenberg will be available 24 hours a day, seven days a week via a pager and/or cellular phone to respond to any questions or to address any operational issues.
- The maximum amount of time it will take Dr. Denenberg to arrive at the facility in the event of a radiation emergency that requires his presence is 2.0 hours.

Our list of authorized users will be the same as they are currently listed.

Item 8: Safety Instructions for Individuals Working in or Frequenting Restricted Areas

 We will provide radiation safety instructions as required by 10 CFR 19.12 and 10 CFR 35.27 to those individuals working in restricted areas.

Item 9: Facilities and Equipment

• A diagram is enclosed that describes the facility and identifies activities conducted in all contiguous areas surrounding the area(s) of use.

Item 9: Radiation Monitoring Instruments

- Radiation monitoring equipment is as follows:
 - Ludlum 14 C radiation survey meters
 - Biodex Medical Systems, ATOMLAB 100 dose calibrator
 - Ludlum Model 2200 well counting system
- Radiation monitoring equipment will be calibrated by a qualified person authorized by the NRC to perform radiation survey meter calibrations. We have developed and will implement and maintain written survey meter calibration procedures in accordance with 10 CFR 20.1501 and 10 CFR35.61. We reserve the right to upgrade our survey instruments as necessary as long as they are adequate to measure the type and level of radiation for which they are used.

Item 9: Dose Calibrators and Other Equipment Used to Measure Dosages of Unsealed Byproduct Material

 Equipment used to measure dosages will be calibrated in accordance with nationally recognized standards or the manufacturer's instructions.

Attachment 9.4: Other Equipment and Facilities

Nuclear Medicine:

We have the following additional radiation safety equipment:

- 1. Lead-L-block
- 2. Lead-lined radioactive waste containers
- 3. Leaded syringe shields
- 4. Leaded syringe transport carrier
- 5. Leaded sealed source containers
- We will receive packages, prepare doses, store our sealed sources and store radioactive waste in the hot lab.

Item 10: Occupational Dose

Either we will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the requirements listed under "Criteria" in NUREG-1556 Vol. 9, Rev. 1, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Medical Use Licensees," dated May 2005.

Item 10: Area Surveys

 We have developed and will implement and maintain written procedures for area surveys in accordance with 10 CFR 20.1101 that meet the requirements of 10 CFR 20.1501, and 10 CFR 35.70.

Item 10: Safe Use of Unsealed Licensed Material

 We have developed and will implement and maintain written procedures for safe use of unsealed byproduct material that meet the requirements of 10 CFR 20.1101 and 10 CFR 20.1301.

Item 10: Spill Procedures

• We have developed and will implement and maintain written procedures for safe response to spills of radioactive material in accordance with 10 CFR 20.1101.

Item 10: Minimization of Contamination

 We will minimize potential contamination from radiopharmaceuticals with the following disposal and preventative measures. The radiopharmacy will pick up the majority of spent syringes on the days following use. All other contaminated waste including such items as vials, syringes, wipes, and swabs are kept until surveys are indistinguishable from background measurements and disposed as normal trash, or normal bio-waste. If a room is to be removed from licensed activities, a close-out final survey will be performed.

Item 11: Radioactive Waste Management

 We have developed and will implement and maintain written radioactive waste disposal procedures for licensed material in accordance with 10 CFR 20.1101, that also meet the requirements of the applicable section of Subpart K of 10 CFR 20 and 10 CFR 35.92.

Regards,

Robert W. Denenberg, M.D. Radiation Safety Officer

includes an administrative Renewal There were no administrative technical reviewer. Pleadomissions or require administrative	, and to inform you that the initial processing which review has been performed. (07-27897-01) trative omissions. Your application was assigned to a asse note that the technical review may identify additional ditional information. Iffice within 30 days of your receipt of this card						
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 When calling to inquire about this action, please refer to this control number. You may call us on (610) 337-5398, or 337-5260.							
NRC FORM 532 (RI) (6-96)	Sincerely, Licensing Assistance Team Leader						