

MEDICAL FACULTY ASSOCIATES

THE GEORGE WASHINGTON UNIVERSITY

August 28, 2014

U.S. Nuclear Regulatory Commission, Region I
Division of Nuclear Materials Safety
2100 Renaissance Blvd., Suite 100
King of Prussia, PA 19406-2713

Br. 1

03037218

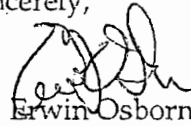
RE: Request amendment to NRC Radioactive Materials License No: 08-31160-01

To Whom It May Concern:

We wish to amend our radioactive materials license to change the Radiation Safety Officer to Mr. James Avery. Attached you will find Mr. Avery's qualifications. Mr. Avery is currently the Radiation Safety Officer for AMG Cardiovascular Consultants (MD-31-120-01).

Should you have any questions concerning this matter, please contact me at your convenience. (202)741-2669

Sincerely,



Erwin Osborne
Cardiology Administration Officer

REC'D IN LAT 8-28-14

DIVISION OF CARDIOLOGY
2150 PENNSYLVANIA AVENUE, NW, SUITE 4-414 • WASHINGTON, DC 20037 • 202-741-2323 • FAX 202-741-2324

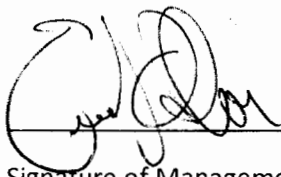
584727
NMSS/RGN1 MATERIALS-002

Memo To: Radiation Safety Officer

From: Erwin Osborne Cardiology Administration Officer

Subject: Delegation of Authority

James Avery, has been appointed Radiation Safety Officer and is responsible for ensuring the safe use of radiation. Mr. Avery is responsible for managing the Radiation Protection Program; identifying radiation protection problems; initiating, recommending, or providing corrective actions; verifying implementation of corrective actions; stopping unsafe activities; and ensuring compliance with regulations. Mr. Avery is hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of product material by employees who do not meet the necessary requirements, and shutting down operations when justified to maintain radiation safety: Mr. Avery is required to notify management if staff does not cooperate and does not address radiation safety issues. In addition, Mr. Avery is free to raise issues with the U.S. Nuclear Regulatory Commission, Region 5 Radiological Health Division at any time. It is estimated that Mr. Avery will spend two hours per week conducting radiation protection activities.

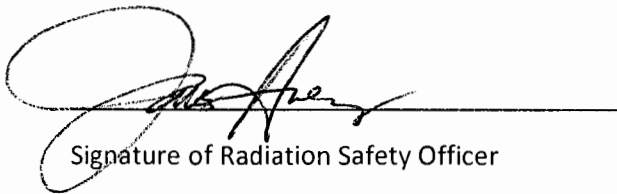


Signature of Management Representative

8/25/14

Date

I accept the above responsibilities,



Signature of Radiation Safety Officer

8/25/2014

Date



Department of the Environment

RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

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. The 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:

1. Name: Cardiovascular Consultants, P.A.	3. License No.: MD-31-300-01
2. Address: 7901 Maple Avenue Takoma Park, MD 20912	4. Amendment Number: 12; Code 02201
	5. Expiration Date: September 30, 2015

6. Radioactive material element & mass number:	7. Chemical and/or physical form:	8. Maximum amount of radioactivity which licensee may possess at any one time:
A. COMAR 26.12.01.01, Section G.100	A. Any prepared in accordance with COMAR 26.12.01. Section G.100	A. As needed
B. COMAR 26.12.01.01, Section G.200	B. Any prepared in accordance with COMAR 26.12.01.10 Section G.200	B. As needed
C. Cobalt-57	C. Sealed Sources	C. No source to exceed 20 millicuries

9. Authorized Use(s):

- A. Any uptake, dilution, or excretion procedure in COMAR 26.12.10.10, Section G.100
- B. Any uptake, dilution, or excretion procedure in COMAR 26.12.10.10, Section G.200
- C. Instrument calibration

10. The authorized place of use is the licensee's address stated in Item 2. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address.

11. A. The radiation protection program shall be under the supervision of **James Avery**.

B. Radioactive material shall be used by or under the supervision of:

Authorized User	Material
Dennis Donohue, M.D.	COMAR 26.12.01.01, Sections G.100 & G.200, 6C
Keith N. Lindgren, M.D.	COMAR 26.12.01.01, Sections G.100 & G.200, 6C
Laurence R. Kelley, M.D.	COMAR 26.12.01.01, Sections G.100 & G.200, 6C

12. The licensee shall comply with all appropriate provisions of the Code of Maryland Regulations (COMAR) 26.12.01.01 "Regulations for Control of Ionizing Radiation," and shall possess a copy of these regulations.

Certificate of Training

Awarded To

James Avery

Recognizing completion of 40 hours of specialized instruction in

Radiation Safety Officer

March 7, 2014

Presented By

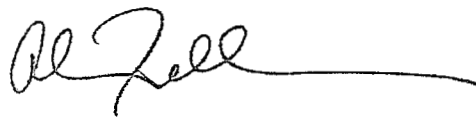
Dade Moeller Training Academy

438 N. Frederick Avenue, Suite 220, Gaithersburg, MD 20877

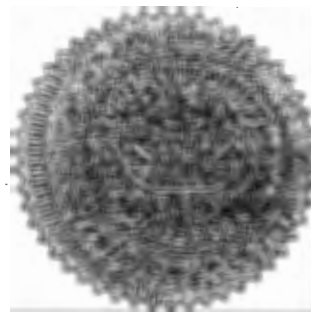
www.moellerinc.com/academy -- 301-990-6006

AAHP has awarded this course 32 Continuing Education Credits, 2011-00-0019

ABIH Diplomates can claim this course for 40 hours in the IH CM Area



Alan L. Fellman, PhD, CHP



REGISTRY OF RADIOLOGIC TECHNOLOGISTS®

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al.
ard



PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

THE AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS

ST. PAUL, MINNESOTA

Representative of
The American College of Radiology and
The American Society of Radiologic Technologists

HEREBY CERTIFIES THAT

James R. Avery

has pursued an approved educational program in Nuclear Medicine
Technology, has met certain standards and qualifications and has
passed the examinations conducted under authority of this Registry,
and is thus qualified as a

Nuclear Medicine Technologist

and by virtue of this certificate is authorized to use the title
Registered Technologist and its abbreviation R.T. (N) (ARRT) as long
as this certificate is in force as is indicated by the date appearing on
the seal hereon attached.

Certificate Number 322635

Jerry B Reid
EXECUTIVE DIRECTOR

THE AMERICAN REGISTRY OF
RADIOLOGIC TECHNOLOGISTS®
USE ORIGINAL CARD FOR VERIFICATION
Valid Thru End Of

I.D. Number 322635 MAR-2015

JAMES R AVERY, R.T.(N)(ARRT)

CE Biennium
03/01/2013
02/28/2015
Ein

<Status> In CE Compliance

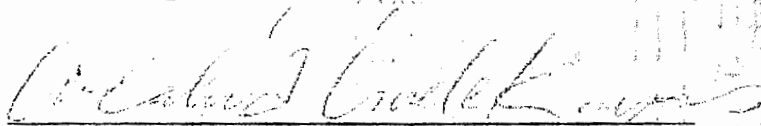
The Johns Hopkins Hospital
Nuclear Medicine Technology Program

presents this
Certificate

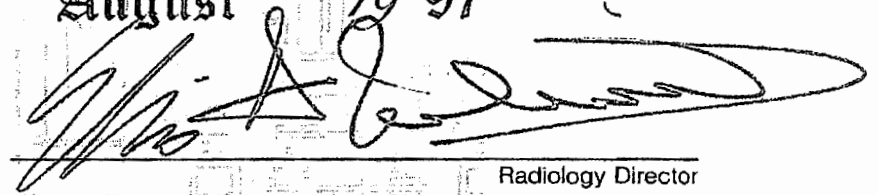
to

James R. Avery

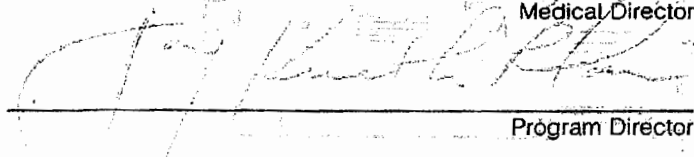
*for satisfactory completion of a twelve month program of technical
instruction and clinical practice in Nuclear Medicine Technology
given this 21st day of August 19 97*



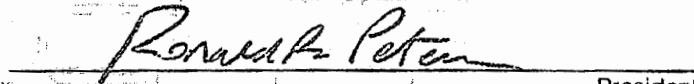
Medical Director



Radiology Director



Program Director



President

		LECTURE	LAB	CLINICAL
	Summer I			
NMED 201	Introduction to Medical Imaging: <ul style="list-style-type: none"> ◦ CPR/orientation ◦ Medical Ethics ◦ Patient Care ◦ Venipuncture 	83	10	
NMED 202 & NMED 207	Radiation Protection & Radiation Biology	10 16		
NMED 203	Introduction to NMED Procedures	18		
NMED 206	Clinical Practicum I (Summer/Fall)			751
	Fall I			
NMED 204	Nuclear Physics and Instrumentation	36		
NMED 205	Radiopharmacology	56	120	
	Winter			
NMED 208	Clinical Practicum II			428
NMED 210	Advanced Instrumentation	32		
NMED 211	Clinical Applications of Radionuclides	48		
	Spring/Summer II			
NMED 212	Clinical Practicum III			354
NMED 301	CT Principles & Instrumentation	20		
NMED 213	Clinical Practicum IV			476
	Summer/Fall II			
NMED 302	Cross-sectional Anatomy	20		
NMED 303	CT Protocols & Applications	20		
NMED 304	Clinical Practicum V			516
	Total Hours of Instruction	3,024 HOURS		

NRC FORM 313A (RSO)
(2-2007)

U.S. NUCLEAR REGULATORY COMMISSION

**RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE
AND PRECEPTOR ATTESTATION
[10 CFR 35.50]**

APPROVED BY OMB: NO. 3150-0120
EXPIRES: 10/31/2008

Name of Proposed Radiation Safety Officer

James Areny

Requested Authorization(s) The license authorizes the following medical uses (check all that apply):

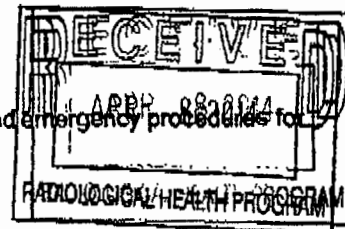
- 35.100 35.200 35.300 35.400 35.500 35.600 (remote afterloader)
 35.600 (teletherapy) 35.600 (gamma stereotactic radiosurgery) 35.1000 (_____)

PART I - TRAINING AND EXPERIENCE
(Select one of the four methods below)

*Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed. Provide dates, duration, and description of continuing education and experience related to the uses checked above.

1. Board Certification

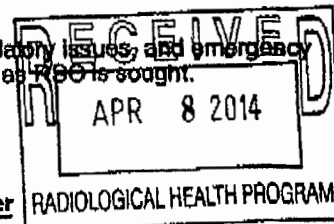
- a. Provide a copy of the board certification.
 b. Use Table 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
 c. Skip to and complete Part II Preceptor Attestation.



OR

2. Current Radiation Safety Officer Seeking Authorization to Be Recognized as a Radiation Safety Officer for the Additional Medical Uses Checked Above

- a. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for the additional types of medical use for which recognition as RSO is sought.
 b. Skip to and complete Part II Preceptor Attestation.



OR

3. Structured Educational Program for Proposed Radiation Safety Officer

a. Classroom and Laboratory Training

Description of Training	Location of Training	Clock Hours	Dates of Training*
Radiation physics and instrumentation	Johns Hopkins, Baltimore MD	36 HRS	Fall 1996
	"	32 HRS	Winter 1996
Radiation protection	Dade Moeller RSO Academy	6.5 HRS	MARCH 2014
	Johns Hopkins, Baltimore MD	10 HRS	AUG 1996
Mathematics pertaining to the use and measurement of radioactivity	Dade Moeller RSO Academy Gaithersburg, MD	6.5 HRS	MARCH 3, 2014
	Johns Hopkins, Baltimore, MD	36 HRS	Fall 1996
Radiation biology	Dade Moeller RSO Academy	11.5 HRS	MARCH 2014
	Johns Hopkins, Baltimore, MD	16 HRS	AUG - NOV, 1996
Radiation dosimetry	Dade Moeller RSO Academy Gaithersburg, MD	2.0 HRS	MARCH 2014
	Johns Hopkins Baltimore, MD	48 hrs	DEC 1996 - JAN 1997
	Dade Moeller RSO Academy	5.5 hrs	MARCH 2014
Total Hours of Training:			

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Description of Experience	Location of Training/ License or Permit Number of Facility	Dates of Training*
Shipping, receiving, and performing related radiation surveys	UC MD-31-300-1 Cardiovascular # MD-31-120-1 Consultants, P.R.	2001-2014
Using and performing checks for proper operation of instruments used to determine the activity of dosages, survey meters, and instruments used to measure radionuclides		
Securing and controlling byproduct material		
Using administrative controls to avoid mistakes in administration of byproduct material		
Using procedures to prevent or minimize radioactive contamination and using proper decontamination procedures		
Using emergency procedures to control byproduct material		
Disposing of byproduct material		
Licensed Material Used (e.g., 35.100, 35.200, etc.)+ 35.100 + 35.200	✓	✓

* Choose all applicable sections of 10 CFR Part 35 to describe radioisotopes and quantities used: 35.100, 35.200, 35.300, 35.400, 35.500, 35.600 remote afterloader units, 35.600 teletherapy units, 35.600 gamma stereotactic radiosurgery units, emerging technologies (provide list of devices).

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

b. Supervised Radiation Safety Experience (continued)

(If more than one supervising individual is necessary to document supervised work experience, provide multiple copies of this section.)

Supervising Individual <i>Dennis J. Donohue, M.D.</i>	License/Permit Number listing supervising individual as a Radiation Safety Officer <i>MD-31-120-1 AND MD-31-300-1</i>
This license authorizes the following medical uses:	
<input checked="" type="checkbox"/> 35.100 <input checked="" type="checkbox"/> 35.200 <input type="checkbox"/> 35.300 <input type="checkbox"/> 35.400	
<input type="checkbox"/> 35.500 <input type="checkbox"/> 35.600 (remote afterloader) <input type="checkbox"/> 35.600 (teletherapy)	
<input type="checkbox"/> 35.600 (gamma stereotactic radiosurgery) <input type="checkbox"/> 35.1000 (_____)	

c. Describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.

Description of Training	Training Provided By	Dates of Training*
Radiation safety, regulatory issues, and emergency procedures for 35.100, 35.200, and 35.500 uses	<i>Johns Hopkins Baltimore MD University of MD Medical Center GW Hospital WASH. D.C. Hospital CVC Rockville & Takoma Park MD</i>	<i>1996-1997 1997-2000 2001-2004 2001-2014</i>
Radiation safety, regulatory issues, and emergency procedures for 35.300 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.400 uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - teletherapy uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - remote afterloader uses		
Radiation safety, regulatory issues, and emergency procedures for 35.600 - gamma stereotactic radiosurgery uses		
Radiation safety, regulatory issues, and emergency procedures for 35.1000, specify use(s):		

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

3. Structured Educational Program for Proposed Radiation Safety Officer (continued)

c. Training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license (continued)

<p>Supervising Individual <i>If training was provided by supervising RSO, AU, AMP, or ANP. (If more than one supervising individual is necessary to document supervised training, provide multiple copies of this page.)</i></p> <p style="font-size: 1.2em; font-family: cursive;">Dennis J. Donohue</p>	<p>License/Permit Number listing supervising individual</p> <p style="font-size: 1.2em; font-family: cursive;">MD-31-120-1 AND MD-31-300-1</p>												
<p>License/Permit lists supervising individual as:</p> <p> <input checked="" type="checkbox"/> Radiation Safety Officer <input type="checkbox"/> Authorized User <input type="checkbox"/> Authorized Nuclear Pharmacist <input type="checkbox"/> Authorized Medical Physicist </p> <p>Authorized as RSO, AU, ANP, or AMP for the following medical uses:</p> <table style="width: 100%; border: none;"> <tr> <td><input checked="" type="checkbox"/> 35.100</td> <td><input checked="" type="checkbox"/> 35.200</td> <td><input type="checkbox"/> 35.300</td> <td><input type="checkbox"/> 35.400</td> </tr> <tr> <td><input type="checkbox"/> 35.500</td> <td><input type="checkbox"/> 35.600 (remote afterloader)</td> <td colspan="2"><input type="checkbox"/> 35.600 (teletherapy)</td> </tr> <tr> <td><input type="checkbox"/> 35.800 (gamma stereotactic radiosurgery)</td> <td colspan="3"><input type="checkbox"/> 35.1000 (_____)</td> </tr> </table>		<input checked="" type="checkbox"/> 35.100	<input checked="" type="checkbox"/> 35.200	<input type="checkbox"/> 35.300	<input type="checkbox"/> 35.400	<input type="checkbox"/> 35.500	<input type="checkbox"/> 35.600 (remote afterloader)	<input type="checkbox"/> 35.600 (teletherapy)		<input type="checkbox"/> 35.800 (gamma stereotactic radiosurgery)	<input type="checkbox"/> 35.1000 (_____)		
<input checked="" type="checkbox"/> 35.100	<input checked="" type="checkbox"/> 35.200	<input type="checkbox"/> 35.300	<input type="checkbox"/> 35.400										
<input type="checkbox"/> 35.500	<input type="checkbox"/> 35.600 (remote afterloader)	<input type="checkbox"/> 35.600 (teletherapy)											
<input type="checkbox"/> 35.800 (gamma stereotactic radiosurgery)	<input type="checkbox"/> 35.1000 (_____)												

d. Skip to and complete Part II Preceptor Attestation.

OR

4. Authorized User, Authorized Medical Physicist, or Authorized Nuclear Pharmacist Identified on the licensee's license

- a. Provide license number.
- b. Use the table in section 3.c. to describe training in radiation safety, regulatory issues, and emergency procedures for all types of medical use on the license.
- c. Skip to and complete Part II Preceptor Attestation.

PART II - PRECEPTOR ATTESTATION

Note: This part must be completed by the individual's preceptor. The preceptor does not have to be the supervising individual as long as the preceptor provides, directs, or verifies training and experience required. If more than one preceptor is necessary to document experience, obtain a separate preceptor statement from each.

First Section

Check one of the following:

1. Board Certification

I attest that _____ has satisfactorily completed the requirements in
Name of Proposed Radiation Safety Officer
 10 CFR 35.50(a)(1)(i) and (a)(1)(ii); or 35.50 (a)(2)(i) and (a)(2)(ii); or 35.50(c)(1).

OR

2. Structured Educational Program for Proposed Radiation Safety Officers

I attest that James Avery has satisfactorily completed a structural educational
Name of Proposed Radiation Safety Officer
 program consisting of both 200 hours of classroom and laboratory training and one year of full-time radiation safety experience as required by 10 CFR 35.50(b)(1).

OR

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)

Preceptor Attestation (continued)

First Section (continued).

Check one of the following:

3. Additional Authorization as Radiation Safety Officer

I attest that _____ is an
Name of Proposed Radiation Safety Officer

- Authorized User Authorized Nuclear Pharmacist
- Authorized-Medical Physicist

identified on the Licensees license and has experience with the radiation safety aspects of similar type of use of byproduct material for which the individual has Radiation Safety Officer responsibilities

AND

Second Section

Complete for all (check all that apply):

I attest that James Avery has training in the radiation safety, regulatory issues, and
Name of Proposed Radiation Safety Officer

emergency procedures for the following types of use:

- 35.100
- 35.200
- 35.300 oral administration of less than or equal to 33 millicuries of sodium iodide I-131, for which a written directive is required
- 35.300 oral administration of greater than 33 millicuries of sodium iodide I-131
- 35.300 parenteral administration of any beta-emitter, or a photon-emitting radionuclide with a photon energy less than 150 keV for which a written directive is required
- 35.300 parenteral administration of any other radionuclide for which a written directive is required
- 35.400
- 35.500
- 35.600 remote afterloader units
- 35.600 teletherapy units
- 35.600 gamma stereotactic radiosurgery units
- 35.1000 emerging technologies, including:

RADIATION SAFETY OFFICER TRAINING AND EXPERIENCE AND PRECEPTOR ATTESTATION (continued)


AND

Third Section
Complete for ALL

I attest that James Avery has achieved a level of radiation safety knowledge
Name of Proposed Radiation Safety Officer
sufficient to function independently as a Radiation Safety Officer for a medical use licensee.

Fourth Section
Complete the following for Preceptor Attestation and signature

I am the Radiation Safety Officer for Cardiovascular Consultants, P.A.
Name of Facility
License/Permit Number: MD-31-120-1 AND MD-31-300-1

Name of Preceptor	Signature	Telephone Number	Date
Dennis J. Donohue	 M.D.	(301) 717-5152	4/4/14

This is to acknowledge the receipt of your letter application dated

8-28-14, and to inform you that the initial processing which includes an administrative review has been performed.

Amend: 08-31160-01
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

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 584727.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.