NRC FORM 313 (4-2004) 10 CFR 30, 32, 33, 34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2006

Estimated burden per response to comply with this mandatory collection request: 7 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 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to 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 ASSISTANT/SECTARY
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

LL31028
03036898
022015

(29-31028-01)

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.

RECEIVED
MAR 29 P12:55

1. THIS IS AN APPLICATION FOR (Check appropriate item)
   - [x] A. NEW LICENSE
   - [ ] B. AMENDMENT TO LICENSE NUMBER _____
   - [ ] C. RENEWAL OF LICENSE NUMBER _____

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

Lawrence Antonucci, M.D. FACC
416 Route 24
Suite E
Chester, New Jersey 07930

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

415 Route 24
Suite E
Chester, New Jersey 07930

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Lawrence Antonucci, M.D.

TELEPHONE NUMBER

(201) 879-1500

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 $

12. 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	SIGNATURE	DATE
Lawrence Antonucci, M.D. Owner		3/1/2005

FOR NRC USE ONLY

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

NRC FORM 313 (4-2004) PRINTED ON RECYCLED PAPER

136681

NMSS/RGNI MATERIALS-002

ITEM 5: RADIOACTIVE MATERIAL

Byproduct Material	Chemical/Physical Form	Maximum Amount
Any byproduct material permitted by 10 CFR 35.100	Any	As needed
Any byproduct material permitted by 10 CFR 35.200	Any	As needed

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

10 CFR 35.100	Medical Use of Unsealed Byproduct Material for Uptake, Dilution, and Excretion Studies for Which a Written Directive is Not Required
10 CFR 35.200	Medical Use of Unsealed Byproduct Material for Imaging and Localization Studies for Which a Written Directive is Not Required

Lawrence Antonucci,M.D **ATT 7**

ITEM 7 - Individual Responsible For Radiation Safety

Dr Rose Mary McGeady, M.D. is the Radiation Safety Officer for this license. We will contract an outside consulting Physicist, who will assist her in radiation safety duties, as needed.

Authorized Users	Material
Rose Mary McGeady , M.D.	**10 CFR 35.100 , 10 CFR 35.200**

Dr. McGeady was an Authorized User on:

NRC License Number: 29 – 28656 –01
New Brunswick Cardiology Group, P.A.

New Jersey License : New Brunswick Cardiology Group, P.A.

Lawrence Antonucci, M.D. ATT. 8

MODEL PROGRAM For Radiation Safety Training

Personnel will be instructed:

1. Before assuming duties with, or in the vicinity of, radioactive materials.
2. During annual refresher training.
3. Whenever there is a significant change in duties, regulations, or the terms of the license.

Instruction for individuals in attendance will include the following subjects:

1. Applicable regulations and license conditions.
2. Areas where radioactive material is used or stored.
3. Potential hazards associated with radioactive material in each area where the employees will work.
4. Appropriate radiation safety procedures.
5. Licensee's in-house work rules.
6. Each individual's obligation to report unsafe conditions to the Radiation Safety Officer.
7. Appropriate response to emergencies or unsafe conditions.
8. Worker's right to be informed of occupational radiation exposure and bioassay results.
9. Locations where the licensee has posted or made available notices, copies of pertinent regulations, and copies of pertinent licenses and license conditions (including applications and applicable correspondence), as required by 10 CFR Part 19.
10 Question and answer period.

The following will be trained initially, and then annually:

Nuclear Medicine Techs
EKG Techs
Nurses

Lawrence Antonucci, M.D.

ITEM 9

Radiation Monitoring Instruments

(A) Radiation Survey Instruments will be calibrated yearly by a qualified person to perform such calibrations. (We will send out our meter to our radiopharmaceutical vendor, who sends it to a calibration laboratory that meet the requirements in 10 CFR 20.1501 and of 10 CFR 35.61.)
(B) Radiation Well Counter will be calibrated yearly by our consulting physicist, who will follow nationally recognized standards or the Manufacturers recommendations.

The Survey meter is a Ludlum 14 with a 44-9 GM Pancake Probe. This unit will be used for Daily package surveys of incoming packages, daily area surveys, daily monitoring of hands and feet, and for monitoring waste prior to disposal.

The Well Counter is a Capintec CRC 15 W with a Capintec Well. This unit will be used for daily wiping of Incoming and outgoing radioactive packages, and for weekly area wipe testing for contamination.

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.

Dose Calibrator

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

Gamma Camera

We will perform all Quality Control and Calibrations that are in accordance with nationally recognized standards and manufacturers recommendations.

Attachment 9A
Facilities and Equipment

Hot Lab:

The hot lab is the location where radiopharmaceuticals are stored, prepared and dispensed. Lead bricks or lead lined storage modules are used to provide shielding where necessary. The hot lab has an "L" block present. Additional lead shielding is used around the "L" block where necessary. Absorbent, plastic backed paper is used to line the counter tops where radioactive material is used.

DOT shipping containers for the transport of . unit doses provide significant shielding. These will be used for storage of patient doses until their use unless a suitable alternative exists.

Storage of Radioactive Material and Waste:

Lead lined (1/8 inch) disposal cans are present in the hot lab areas for the storage of radio-

active waste. Lead lined (1/8 inch), or equivalent, storage modules are present for the storage of radioactive material.

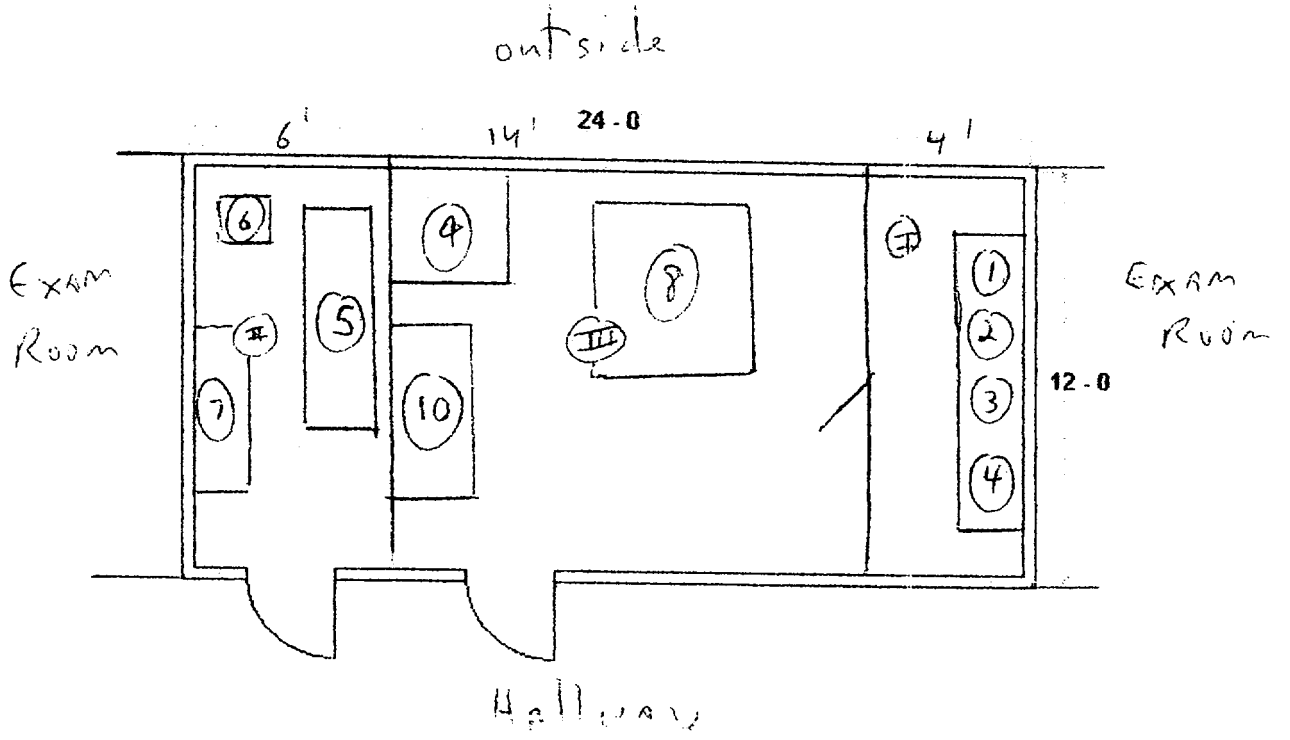
Additional Safety Equipment:

The following safety equipment is also present for use at the licensee's facility and at locations where radiopharmaceuticals are used.

syringe shields	syringe carriers
disposable protective gloves	absorbent pads
remote handling devices	lead equivalent L-block
lead shields for vial storage	lead bricks (as needed)
lead lined storage modules	lab coats

ATT 9B

Lawrence Antonucci, M.D.
415 Route 24 , Suite E
Chester, New Jersey 07930



I Hot Lab
I I Stress Room
I I I Imaging Room

1 Lead Lined Radioactive Storage (1/8" Pb)
2 Lead L – Block (1" Pb)
3 Work Area
4 Lead Lined Waste Storage (1/8" Pb)

5 Treadmill
6 EKG Workstation
7 Patient Table

8 Imaging Chair / Camera
9 Camera / Computer Control
10 Work Area

Lawrence Antonucci, M.D.

Item 10

Occupational Dose

We will provide dosimetry that meets the requirements listed under criteria in NUREG 1556 , volume 9 " Consolidated Guidance about Materials License: Program Specific Guidance about Medicla Use Licensees."

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.

Safe Use of Unsealed Licensed Material

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

Spill Procedure

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

Item 11

Waste Management

We have developed and will implement and maintain written 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 to 10 CFR Part 20 and 10 CFR 35.92.

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

3/2/2005, and to inform you that the initial processing which includes an administrative review has been performed.

New License Application (03036898)

☒ 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** 136681.
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

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 02201
Status Code: 3
Fee Category: _____
Exp. Date: 0
Fee Comments: _____
Decom Fin Assur Reqd: _

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
   Applicant/Licensee: ANTONUCCI, LAWRENCE, M.D., FACC
   Received Date: 20050329
   Docket No: 3036898
   Control No.: 136681
   License No.: 29-31028-01
   Action Type: New Licensee

2. FEE ATTACHED
   Amount: /
   Check No.: /

3. COMMENTS
   No check received w/application

   Signed [signature]
   Date 3/30/2005

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

1. Fee Category and Amount: _____

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

3. OTHER _____
   _____

   Signed _____
   Date _____