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52-25589-01  
03035990

Hospital Dr. Cayetano Coll y Toste  
Nuclear Medicine Division  
PO Box 659  
Arecibo, PR 00613

April, 24, 2012


Licensing Assistance Team  
Division of Nuclear Material Safety  
US Nuclear Regulatory Commission, Region 1  
475 Allendale Road  
King of Prussia, PA 19406-1415

RECEIVED  
REGION 1  
2012 MAY -1 PM 12:18

Subject: License Renewal Application

Enclosed please find a complete application for license renewal as required. If further information and clarification is needed, please contact us.

Sincerely,

  
Homar Pérez, MHSA  
Executive Director

577457  
NMSS/RGN1 MATERIALS-002

## NRC FORM 313

(1-2012)

10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

## U.S. NUCLEAR REGULATORY COMMISSION

## APPLICATION FOR MATERIALS LICENSE

APPROVED BY OMB: NO. 3150-0120

EXPIRES: (03/31/2012)

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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [Infocollects.Resource@nrc.gov](mailto: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.

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:

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

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

## IF YOU ARE LOCATED 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:

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, MISSISSIPPI, 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  
1600 E. LAMAR BOULEVARD  
ARLINGTON, TX 76011-4511

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☒ C. RENEWAL OF LICENSE NUMBER 52-25589-01

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

HOSPITAL DR. CAYETANO COLL Y TOSTE  
NUCLEAR MEDICINE DIVISION  
P.O BOX 659  
ARECIBO P.R 00613

## 3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

ROAD 129, KM 8.0, ARECIBO PR

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

HOMAR PÉREZ, MHSA, EXECUTIVE DIRECTOR

## TELEPHONE NUMBER

(787) 878-7272 Ext. 1154 & 1112

Fax (787) 650-7304

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

HOMAR PÉREZ, MHSA, EXECUTIVE DIRECTOR

SIGNATURE

DATE

APR 24 2012

## FOR NRC USE ONLY

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

APPROVED BY

DATE

Hospital Cayetano Coll y Toste  
Lic. No. 52-25589-01

License Renewal Application (cont.)

5- Radioactive Material

<u>Byproduct material</u>	<u>Chemical/physical form</u>	<u>Maximun amount</u>
Any byproduct material permitted by 10CFR35.100	any	as needed
Any byproduct material permitted by 10CFR35.200	any	as needed

6- Purpose for which Licensed Material will be used

10CFR35.100: Medical use of unsealed byproduct material for uptake, dilution, and excretion studies for which a written directive is not required.

10CFR35.200: Medical use of unsealed byproduct material for image and localization studies for which a written directive is not required.

7- Individual(s) responsible for Radiation Safety Program and their training and Experience.

Radiation Safety Officer (RSO)

Samuel Sostre, MD will be the Radiation Safety Officer for this License. Dr. Sostre is authorized user at the present time. The e-mail of Dr. Sostre is

[REDACTED]

Porfirio Toledo & Associates is a consulting company under contract with the Hospital to assist the RSO in radiation Safety matters.

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

Authorized users (AU'S)

Samuel Sostre , MD will continue as authorized user for this license.

The uses requested for Dr. Sostre are those specified in 10CFR35.100  
And 10CFR35.200.

Delete the names of Dr. José M. Díaz as RSO and AU, and also delete  
the name of María Acevedo Beltrán, MD. as AU.

8- Training for individuals working on Frequenting Restricted Areas

Training for this personnel will be designed and offered using Appendix J of  
NUREG-1556, Vol. 9 as guide. The group of works consist of nuclear  
medicine technologist, nurses, housekeeping personnel and members of  
the Radiation Safety Committee.

Nuclear medicine technologists

Before assuming duties and annual refresher course.

Nurses

Before assuming duties and annual refresher course.

Members of the Radiation Safety Committee (RSC)

Although it is not required to have a RSC, the Hospital will  
appoint a committee to meet annually. The training will  
consist of an orientation about all terms of license before  
assuming duties and annually afterwards.

All training will consist of orientations, (both individually or groups),  
lectures, demonstration and video tapes.

## 9- Facilities and Equipment

### Facility diagram for Nuclear Medicine Area

The facility diagrams is the same and under the same conditions as the current License.

### Radiation monitoring Instruments

"Radiation monitoring instruments will be calibrated by a person qualified to perform survey meter calibrations".

"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".

### Description of equipment

- 1- Ludlum  
Model 14C survey meter  
(1 unit)
- 2- Dose calibrator  
Atom Lab.100
- 3- Wipe test counter  
Nuclear Comp.  
Model 1051

### Dose calibration

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

## 10- Radiation Protection Program

### Safety procedures and instructions

N/A

#### 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 10CFR20 or we will provide dosimetry that meets the requirements listed under “criteria” in NUREG-1556, vol. 9, Revision 2, Consolidated Guidance About Materials Licenses: Program Specific Guidance About Medical Licenses”, dated January 2008.

#### Area Surveys

“We have developed and will implement and maintain written procedures for area surveys in accordance with 10CFR20.1101 that meets the requirements of 10CFR20.1501 and 10CFR35.70.

#### Safe use of Unsealed Licensed Material

“We have developed and will implement and maintain procedures for safe use of unsealed byproduct material that meet the requirement of 10CFR20.1101 and 10CFR20.1301.

#### Spill Procedures

“We have developed and will implement and maintain written procedures for safe response to spills of licensed material in accordance with 10CFR20.1101.

#### 11- Waste management

“We have developed and will implement and maintain written waste disposal procedures for licensed material in accordance with 10CFR20.1101 that also meet the requirements of the applicable section of Subpart K to 10CFR Part 20 and 10CFR35.92”.

This is to acknowledge the receipt of your letter application dated

4/24/12, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Renew (52-25589-01)  
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** 577457.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.