



SRI International
Menlo Park, CA

12 June 2013

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Licensing Assistance Team
Division of Nuclear Materials Safety
US Nuclear Regulatory Commission, NRC Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

Subject: Request for Amendment of Specific License NRC 29-31450-01: Add New User (Sixto Gonzalez)

Dear Sir:

SRI International currently holds NRC radioactive material license 29-31450-01 which allows for possession and use of a Carbon-14 sealed source at the Arecibo Observatory, Esperanza, Arecibo, Puerto Rico.

We hereby apply to add an additional person to use and supervise the use of licensed material. Please update Condition 11 of our license to add Dr. Sixto Gonzalez. Dr. Gonzalez is an experienced research scientist with many years of experience at the Arecibo Observatory. His statement of training and experience applicable to the safe use of licensed materials is attached.

If you need additional information, please feel free to contact our Radiation Safety Officer, Wesley R. Van Pelt at 201-446-3990 (cell), wes.vanpelt@sri.com.

Very truly yours,

Eric Winter, CIH
Director, Environmental Health & Safety
SRI International
333 Ravenswood Avenue
Menlo Park, California 94025-3493
(650) 859-2556

581171

NMSS/RGN1 MATERIALS-002

Cc

Wesley R. Van Pelt, PhD, CIH, CHP
SRI International
Radiation Safety Officer
Environmental Health & Safety Office
201 Washington Road
Princeton, NJ 08543-5300

Robert Kerr
Director, Arecibo Observatory
SRI International, Arecibo Observatory
HC 3 Box 53995
carr. 625 km 3.0 Bo. Esperanza
Arecibo, PR 00612

STATEMENT of TRAINING and EXPERIENCE FORM

(For person named on radioactive material license)

Name: **Sixto A. González**

Institution: Arecibo Observatory, Arecibo, PR

Title: Director for Space and Atmospheric Sciences

Highest Degree: Ph.D.

Subject/Major: Physics

Formal Courses on Radiation Safety and Radioisotope Technology:

Please list all educational and training courses which included principles and practices of radiation protection, radioactivity measurements, radiation monitoring techniques, and/or biological effects of radiation. (Include college courses, radiation safety training lectures, and short courses.)

Institution, city	Date / duration (hrs or days)	Name of course and short description
Arecibo Observatory, Arecibo, PR	9 April 2013 (1.5 hrs)	"Ionizing Radiation Safety - Radiation User Training", by Wesley R. Van Pelt, PhD, CHP, Radiation Safety Officer. Course includes: Background radiation (natural and man-made) Radiation and radioactivity Types of Decay Penetrating distances Beta particle ranges C-14 beta decay mode Radiation units of measure (R, rad, rem, Ci Bq, etc.) Half Life Carcinogenicity of radiation Linear non-threshold theory Radiation dose limits Internal radiation dose Annual limit on intake (ALI) Urine bioassay ALARA Lost, stolen or missing radioactivity Methods of protection (time, distance, shielding) Security Authorized users NRC license Sealed source leak testing Arecibo site sop for radiation use Radioactive waste disposal

Experience with radiation:

Please list all the different types of work you have done with radioisotopes or radiation.

Institution, city	Dates / duration	Radio-isotope(s)	Amount handled, microcuries	Type(s) of experiment or use
Arecibo Observatory, Arecibo, PR	2003 –2013	C-14	7,500 microcuries	Use of sealed source for scientific experiments. C-14 beta decay and phosphor in a sealed source creates a standard light calibration source.
Arecibo Observatory, Arecibo, PR	1993-2013	RF klystrons (UHF)	Klystrons producing x-rays running up to 100,000 volts.	Incoherent scatter radar studies of the Earth's upper atmosphere and Geospace environment.

This is to acknowledge the receipt of your letter application dated

06-12-13, and to inform you that the initial processing which includes an administrative review has been performed.

Amend: 29-31450-01
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** 581171.
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