



**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 FOIA, Library, and Information Collections Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to [Infocollections.Resource@nrc.gov](mailto:Infocollections.Resource@nrc.gov), and the OMB Reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0120), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

**INSTRUCTIONS: SEE THE CURRENT VOLUMES OF THE NUREG-1556 TECHNICAL REPORT SERIES ("CONSOLIDATED GUIDANCE ABOUT MATERIALS LICENSES") FOR DETAILED INSTRUCTIONS FOR COMPLETING THIS FORM: <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>. SEND ONE COPY OF THE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

MATERIALS SAFETY AND TRIBAL LIAISON BRANCH  
 DIVISION OF MATERIALS SAFETY, SECURITY, STATE AND TRIBAL PROGRAMS  
 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, 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 RADIOLOGICAL SAFETY AND SECURITY  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
 475 ALLENDALE ROAD, SUITE 102  
 KING OF PRUSSIA, PA 19406-1415  
[R1DRSSMail.Resource@nrc.gov](mailto:R1DRSSMail.Resource@nrc.gov)

\*Note: The preferred method to submit NRC Form 313 is email. Any other document (e.g., financial assurance documents) should be sent via mail.

**IF YOU ARE LOCATED IN:**

**ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:**

MATERIALS LICENSING BRANCH  
 DIVISION OF RADIOLOGICAL SAFETY AND SECURITY  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
 2056 WESTINGS AVENUE, SUITE 400  
 NAPERVILLE, IL 60563-2657  
[R3-DRSSMAIL.Resource@nrc.gov](mailto:R3-DRSSMAIL.Resource@nrc.gov)

\*Note: The preferred method to submit NRC Form 313 is email. Any other document (e.g., financial assurance documents) should be sent via mail.

**IF YOU ARE LOCATED IN:**

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:**

MATERIALS LICENSING BRANCH  
 DIVISION OF RADIOLOGICAL SAFETY AND SECURITY  
 U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
 1600 E. LAMAR BOULEVARD  
 ARLINGTON, TX 76011-4511  
[R4licensing@nrc.gov](mailto:R4licensing@nrc.gov)

\*Note: The preferred method to submit NRC Form 313 is email. Any other document (e.g., financial assurance documents) should be sent via mail.

**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 52-19064-01
- C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

Jaca & Sierra Engineering, PSC  
 PO Box 363116  
 San Juan, PR 00936-3116

**3. LIST ADDRESS AND/OR TEMPORARY JOB SITE (TJS) ADDRESS, WHERE LICENSED MATERIALS WILL BE USED OR POSSESSED**

Jaca & Sierra Engineering, PSC  
 Road 850 Km 0.2  
 Las Cuevas Ward  
 Trujillo Alto, PR 00976

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

Luis O. Sierra Perez

**BUSINESS TELEPHONE NUMBER**

787-761-2570

**BUSINESS CELLULAR TELEPHONE NUMBER**

787-391-2300

**BUSINESS E-MAIL ADDRESS**

[luis@jacasierra.com](mailto:luis@jacasierra.com)

**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 APPLICABLE LICENSING GUIDANCE.**

**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 AND 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 (Fees required only for new applications, with few exceptions\*)**

(See 10 CFR 170 and Section 170.31)

\*Amendments/Renewals that increase the scope of the existing license to a new or higher fee category will require a fee.

FEE CATEGORY

AMOUNT ENCLOSED \$

**PER THE DEBT COLLECTION IMPROVEMENT ACT OF 1996 (PUBLIC LAW 104-134), YOU ARE REQUIRED TO PROVIDE YOUR TAXPAYER IDENTIFICATION NUMBER. PROVIDE THIS INFORMATION BY COMPLETING NRC FORM 531: <https://www.nrc.gov/reading-rm/doc-collections/forms/nrc531info.html>. FAX THE COMPLETED NRC FORM 531 TO (301) 415-6725.**

**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, 37, 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**

Luis O. Sierra Perez, RSO

**SIGNATURE**

**DATE**

**FOR NRC USE ONLY**

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



June 10, 2025

Randolph C. Ragland, Jr., CHP  
Senior Health Physicist  
U.S. Nuclear Regulatory Commission, Region I  
Division of Radiological Safety and Security  
475 Allendale Road, Suite 102  
King of Prussia, PA 19426

Dear Sir or Madam:

Please find enclosed the Transfer of Control Application for License No. 52-19064-01 for the use and handling of radioactive materials. This document presents the required information for transfer control as per Appendix E of NUREG-1556 Volume 15, Rev.1. As part of the application for transfer of control, the supporting documentation is also submitted in the attached appendices. We want to confirm our interest to keep the authorization for use of the licensed materials at temporary job sites in areas where the NRC maintains jurisdiction.

If your need any further information, please feel free to contact me at 787-391-2300.

Sincerely,

Luis Sierra Pérez  
RSO

**Enclosures:**

*Appendix A: NRC Form 313 with Items 5 through 11*

*Appendix B: Radiation Safety Program*

*Appendix C: Most Recent Gauge Calibrations*

*Appendix D: Most Recent Leak Tests*

*Appendix E: Area Survey: Dosimetry Reports*

*Appendix F: Most Recent Training Records*

*Appendix G: Quality Control: Annual Audits*

*Appendix H: Quality Control: Emergency Procedures*

US Nuclear Regulatory Commission  
Amendment to License No. 52-19064-01  
June 10, 2025

### Information Needed for Transfer of Control

**NRC Region:** Region I  
**Contact:** Luis O. Sierra Perez  
**Telephone:** 787-391-2300  
**Email:** [luis@jacasierra.com](mailto:luis@jacasierra.com)

#### Control:

Luis O. Sierra Pérez, RSO, Senior Advisor

#### Transferee:

Manuel E. Candelario Cosme, President;  
Rommel Cintron Aponte, III, Member of Board of Directors;  
Javier E. Osorio Carrasquillo, Member of Board of Directors;  
Manuel E. Porrata Arbona, Member of Board of Directors

#### Transferor:

Luis O. Sierra Perez, RSO, Senior Advisor

**1. Describe any planned changes in the organization, including but not limited to, transfer of stocks or assets and mergers, change in members on Board of Directors, etc. Provide the new licensee name, mailing address, and contact information, including phone numbers. Clearly identify when the amendment request is due to a name change only.**

- The current RSO is planning retirement when the transfer of control application is approved by the Nuclear Regulatory Commission (NRC). On April 30, 2025 Mr. Luis O. Sierra Perez sold his 60% of Jaca & Sierra Engineering PSC stocks to current

owners. Table 1 details the change in ownership and the stocks distribution before and after April 30, 2025.

**Table 1: Jaca & Sierra Stock Distribution Changes.**

<b>Stock Ownership (before April 30, 2025)</b>	<b>Current Stocks Ownership (after April 30, 2025)</b>
Luis O. Sierra Perez – 60% of stocks	Manuel E. Candelario Cosme – 30% of stocks
Manuel E. Candelario Cosme – 16.5% of stocks	Rommel Cintron Aponte, III – 30% of stocks
Rommel Cintron Aponte, III – 16.5% of stocks	Javier E. Osorio Carrasquillo – 30% of stocks
Javier E. Osorio Carrasquillo – 7% of stocks	Manuel E. Porrata Arbona – 2.5% of Stocks
	Jaca & Sierra Engineering, PSC – 7.5% of stocks

- Similarly, Mr. Luis O. Sierra Perez will no longer be a member of the Board of Directors for Jaca & Sierra Engineering, PSC. However, the new Board of Director have designated via Corporate Resolution that Mr. Luis O. Sierra Perez will remain employed by the corporation and in full capacity of his RSO duties until the NRC approves the herein transfer of control and the new RSO is approved by the NRC. The change in the Board of Directors for Jaca & Sierra Engineering, PSC is presented in Table 2.

**Table 2: Jaca & Sierra Board of Directors Changes.**

<b>Board of Directors (before April 30, 2025)</b>	<b>Current Board of Directors (after April 30, 2025)</b>
Luis O. Sierra Perez – President	Manuel E. Candelario Cosme – President
Manuel E. Candelario Cosme – Secretary	Rommel Cintron Aponte, III – Secretary
Rommel Cintron Aponte, III – Treasurer	Javier E. Osorio Carrasquillo – Treasurer
Javier E. Osorio Carrasquillo – Member	Manuel E. Porrata Arbona – Member
Manuel E. Porrata Arbona – Member	---

- **Licensee Changes:**

<b>Current Licensee</b>	<b>New Licensee</b>
Luis O. Sierra Perez	Javier E. Osorio Carrasquillo
Mailing Address: PO Box 363116 San Juan, PR 00936-3116	Mailing Address: PO Box 363116 San Juan, PR 00936-3116
Contact Information: Phone: 787-391-2300 Email: <a href="mailto:luis@jacasierra.com">luis@jacasierra.com</a> Office: 787-761-2570	Contact Information: Phone: 787-662-3795 Email: <a href="mailto:osorio@jacasierra.com">osorio@jacasierra.com</a> Office: 787-761-2570

**2. Describe any changes in personnel or duties that relate to the licensed program. Include training and experience for new personnel and any changes in the training program.**

- Changes in personnel in and duties in the organization are presented in Table 3.

**Table 3: Changes in Personnel and Duties in the Organization.**

<b>Current RSO</b>	<b>New RSO</b>	<b>New RSO Alternate:</b>
Luis O. Sierra Perez	Javier E. Osorio Carrasquillo	Miguel A. Reyes Oquendo
Mailing Address: PO Box 363116 San Juan, PR 00936-3116	Mailing Address: PO Box 363116 San Juan, PR 00936-3116	Mailing Address: PO Box 363116 San Juan, PR 00936-3116
Contact Information: Phone: 787-391-2300 Email: <a href="mailto:luis@jacasierra.com">luis@jacasierra.com</a> Office: 787-761-2570	Contact Information: Phone: 787-662-3795 Email: <a href="mailto:osorio@jacasierra.com">osorio@jacasierra.com</a> Office: 787-761-2570	Contact Information: Phone: 787-228-0300 Email: <a href="mailto:reyes@jacasierra.com">reyes@jacasierra.com</a> Office: 787-761-2570
	<b>Most Recent Training:</b> <ul style="list-style-type: none"> <li>- APNGA Portable Nuclear Gauge Safety &amp; US DOT Hazmat Certification Class (04/29/2025)</li> <li>- APNGA Radiation Safety Officer Class (04/30/2025)</li> </ul>	<b>Most Recent Training:</b> <ul style="list-style-type: none"> <li>- APNGA Portable Nuclear Gauge Safety &amp; US DOT Hazmat Certification Class (04/30/2025)</li> <li>- APNGA Radiation Safety Officer Class (04/21/2025)</li> </ul>

Current RSO	New RSO	New RSO Alternate:
Luis O. Sierra Perez	Javier E. Osorio Carrasquillo	Miguel A. Reyes Oquendo
	- CRMI – Security for Hazardous Materials and HAZMAT for Radiation Certification (4/24/2021)	- APNGA Portable Nuclear Gauge Safety & US DOT Hazmat Certification Class (07/10/2022)
	<b>Experience:</b> - Worked as Laboratory Supervisor since June 2019.	<b>Experience:</b> - Worked as Laboratory Supervisor since 2023 - Worker as Field technician since 2022

**3. Describe any changes in the location, facilities, equipment, radiation safety program, use, possession, waste management, or other procedures that relate to the licensed program.**

- There will be no changes in location, facilities, equipment, use, waste management, or other procedures.
- There will be changes to the Radiation Safety Program. **The new Radiation Safety Program is presented in Appendix A of this document.**
- Similarly, there are changes in the possession of the sealed sources as some gauges have been decommissioned and new gauges were acquired.
- The following is based on Portable Gauge Licenses, NUREG 1556 Vol 1, Rev. 2 (June 2016), Appendix B. Table 4 presents the Materials to be Possessed and Proposed uses:

**Table 4: Materials to be Possessed and Proposed Uses.**

Radioisotope	Nominal Activity	Manufacturer	Quantity	Use as Listed on SSD Certificate	Other Uses Not Listed on SSD Certificate
Cs 137	370 MBq	Device manufacturer: CPN	Activity per source: 10 mCi	Yes. Specific description of	Not Applicable

Radioisotope	Nominal Activity	Manufacturer	Quantity	Use as Listed on SSD Certificate	Other Uses Not Listed on SSD Certificate
		Model(s): MC-1, MC-1 Elite, MC-3 Elite, and MC-1DR-P	Number of gauges: 12 gauges	the gauge use: Measuring physical properties of materials (density and moisture)	
Am 241:Be	185 GBq	Device manufacturer: CPN Model(s): MC-1, MC-3, MC-3 Elite MC-1DR-P	Activity per source: 50 mCi  Number of gauges: 12 gauges	Yes. Specific description of the gauge use: Measuring physical properties of materials (density and moisture)	Not Applicable
Ra 226:Be	166.5 MBq	Device manufacturer: Seaman Nuclear Corporation Model(s): C-300	Activity per source: 4.5 mCi  Number of gauges: 2 gauges	Yes. Specific description of the gauge use: Measuring physical properties of materials (density and moisture)	Not Applicable

4. Describe the status of the licensee’s facilities, equipment, and radiation safety program, including any known contamination and whether decontamination will occur prior to transfer. Include the status of calibrations, leak tests, area surveys, wipe tests, training, quality control, and related records.

- The status of facilities, equipment remains unchanged. As previously mentioned, the new radiation safety program is included in Appendix A. At the moment of this request no contamination is known. The control records are presented in the appendices of this document as detailed in Table 5. Appendix B of this document presents the most recent calibrations, leak tests, area surveys, training, and quality control records.

**Table 5: Control Records Appendices List**

Appendix A	NRC Form 313 with Items 5 through 11
Appendix B	Radiation Safety Program
Appendix C	Most Recent Gauge Calibrations
Appendix D	Most Recent Leak Tests
Appendix E	Area Survey: Dosimetry Reports
Appendix F	Most Recent Training Records
Appendix G	Quality Control: Annual Audits
Appendix H	Quality Control: Emergency Procedures

**5. If current decommissioning funding plans (DFP) will be changed as a result of the transfer, the revised DFP should be submitted. If other financial assurance documents will be changed as a result of the transfer, confirm that all financial assurance instruments associated with the license will be held in the transferee’s name before the license is transferred, and as required by 10 CFR 30.35(f), the licensee must, within 30 days, submit financial instruments reflecting such changes.**

- No changes

**6. Confirm that all records concerning the safe and effective decommissioning of the facility will be transferred to the transferee or to NRC, as appropriate. These records include documentation of surveys of ambient radiation levels and fixed and/or removable contamination, including methods and sensitivity.**

- All records will be transferred to Javier E. Osorio Carrasquillo and Miguel A. Reyes Oquendo and will be kept at the Jaca & Sierra Engineering, PSC facilities located in Road 850 Km 0.2, Las Cuevas Ward in Trujillo Alto, PR.
  
- 7. Confirm that both transferor and transferee agree to transferring control of the licensed material and activity, and the conditions of transfer, and that the transferee has been made aware of any open inspection items and its responsibility for possible resulting enforcement actions.**
  
- Both, Luis O. Sierra Perez, and Javier E. Osorio Carrasquillo, and Miguel A. Reyes Oquendo agree to transfer control of the licensed material activity, the conditions of transfer, and that Javier E. Osorio Carrasquillo and Miguel A. Reyes Oquendo have been made aware of any open inspection items and their responsibility for possible enforcement actions.
  
- 8. Confirm that the transferee will abide by all constraints, conditions, requirements, representations, and commitments of the transferor or that the transferee will submit a complete description of the proposed licensed program.**
  
- The transferees will abide by all constraints, conditions, requirements, representations and commitments of the transferor.
  
- 9. The transferee, in the case of fuel cycle facilities, shall provide documentation showing that it is financially qualified to conduct normal operations. The information can be in the form of income statements and balance sheet forecasts.**
  
- Not applicable to our materials license.