

# Sierra Geotechnical Group

Geotechnical Consultant ° Concrete and Construction Material Testing

July 10, 2012

US Nuclear Regulatory Commission  
Region I, 475 Allendale Road  
King Prussia, Pennsylvania 19406-1415

Br 3  
03038446

2012 JUL 24 10:27am

RECEIVED  
REGION I

Re: No required NRC License due to closing operations

Attn; Dr. Sattar Lodghi  
NRC Inspector

As required we proceeded to sell our equipment to another license corporation. We are submitting required information for finalizing this procedure. Equipment was sell to Jaca & Sierra Testing Labs License # 52-19064-01. Sierra Geotechnical Group Inc. has license # 52-31439-01 but at the present not required since we don't have any equipment regulated by the NRC. Nevertheless leak test was performed and no result was been obtain at the present. We are waiting for the results.

Also an invoice was submitted but we understand that it will not apply.

Nevertheless we are submitting the available information.

If any doubt rises please notified the subscriber.

Respectfully submitted,  
**Sierra Geotechnical Group Inc.**

Carlos R Sierra, P.E.  
President

577987

**NMSS/RGN1 MATERIALS-002**



**Fiscal Year:**  
**Quarter Period:**

**10/01/2011 - 09/30/2012**  
**10/01/2011 - 09/30/2012**

**Vendor:**

SIERRA GEOTECHNICAL GROUP, INC.  
P.O. BOX 1570  
TRUJILLO ALTO, PR 00977-1570

**Remit To:**

Office of the Chief Financial Officer  
U.S. Nuclear Regulatory Commission  
P.O. Box 979051  
St. Louis, MO 63197

**Invoices for Period:**

<b>Invoice Number</b>	<b>Date</b>	<b>Due Date</b>	<b>Amount</b>	<b>Docket</b>
LFB 12-4032	May 1, 2012	May 31, 2012	\$4,800.00	03038446

If there are any questions, contact (301) 415-7554. For NRC debt collection procedures, including interest and penalty provisions, see 31 U.S.C. 3717, 4 CFR 101-105, AND 10 CFR 15. Additional terms and conditions are attached.

Make checks payable to The U.S. Nuclear Regulatory Commission. Interest will accrue from the invoice date at an annual rate of 1%. Interest will be waived if payment is received by the due date. Please reference the invoice number on the remittance.

(05-2012)  
10 CFR 30.36(j)(1); 40.42(j)(1);  
70.38(j)(1); and 72.54(k)(5)(1)(1)

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. 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, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), 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.

### CERTIFICATE OF DISPOSITION OF MATERIALS

LICENSEE NAME AND ADDRESS

Sienna Geotechnical Group Inc  
P.O. Box 1570  
Trujillo Alto PR. 00977-1570

LICENSE NUMBER

52-31439-01

DOCKET NUMBER

030-38446

LICENSE EXPIRATION DATE

MAY 31, 2021

#### A. LICENSE STATUS (Check the appropriate box)

- This license has expired.
- This license has not yet expired; please terminate it.

#### B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
  - a. Transfer of radioactive materials to the licensee listed below:  
Jaca & Sienna Testing Lab: TRANSFER date on June 26, 2012: contact Carlos Sienna Lic # 52-19064-01
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 3. By waste contractor:
  - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

#### C. SURVEYS PERFORMED AND REPORTED

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
  - a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date \_\_\_\_\_
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or  b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Carlos R Sienna	<i>[Signature]</i>	(987)470-2300	SiennaCarlos@Yahoo.com

Mail all future correspondence regarding this license to:  
P.O. Box 1570, Trujillo Alto PR. 00977-1570

#### C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
Carlos R Sienna President	<i>[Signature]</i>	10/30/2012

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 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.



June 26, 2012

**Sierra Geotechnical Group, Inc.**

PO Box 2439

Guaynabo, PR 00970-2439

Attention: Eng. Carlos R. Sierra, PE, RSO

**RE: License # 52-19064-01, C-300 nuclear gauges.**

Gentlemen,

We have purchased from Sierra Geotechnical Group, Inc., License Number **52-31439-01**, four (4) nuclear gauges. The gauges are manufactured by **Seaman Nuclear**; the model number is **C-300**; and its source is **Radium 226**. The serial numbers for said gauges are: **21194, 21272, 21206** and **21192**. Our license number with the NRC is **52-19064-01**.

If any doubt arises please contact us, thank you.

Respectfully submitted,

**JACA & SIERRA TESTING LABORATORIES**

Carlos Sierra Del Llano. MSCE, PE

President, Radiation Safety Officer

U.S. NUCLEAR REGULATORY COMMISSION

**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, 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 byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Jaca &amp; Sierra Testing Laboratories, Inc.</p> <p>2. P. O. Box 363116 San Juan, Puerto Rico 00936</p>	<p>In accordance with the letter dated May 21, 2012,</p> <p>3. License number 52-19064-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date April 30, 2021</p> <hr/> <p>5. Docket No. 030-18917 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium 137</p> <p>B. Radium 226</p> <p>C. Americium 241</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (CPN International Model CPN-131)</p> <p>B. Sealed Sources (AEA Technology Models CDC.800, AMN.PE5, AMN.V997, RAN.C1; Gammatron Models GT-GHP, AN-HP; Isotopes Product Laboratories Models HEG-137, AM1.NO2; and Radium Chemical Company Drawing 21.94)</p> <p>C. Sealed Sources (CPN International Model CPN-131)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 200 millicuries total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear regulatory Commission or an Agreement State</p> <p>B. 27.5 millicuries total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p> <p>C. 1000 millicuries total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear regulatory Commission or an Agreement State</p>
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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
52-19064-01Docket or Reference Number  
030-18917

Amendment No. 08

## 9. Authorized use:

- A. and C. In CPN International Model MC Series portable gauging devices for measuring physical properties of materials.
- B. In Seaman Nuclear Corporation Model C-300 Series portable gauging devices for measuring physical properties of materials.

**CONDITIONS**

10. Licensed material may be used or stored at the licensee's facilities located at Carr 850, Km 0.2, Las Cuevas Ward, Trujillo Alto, Puerto Rico, and may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

11. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in the application dated April 7, 2011, and have been designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
12. The Radiation Safety Officer for this license is Carlos R. Sierra.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
52-19064-01Docket or Reference Number  
030-18917

Amendment No. 08

- C. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee, except as specifically authorized.
15. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
16. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport or storage, or when not under the direct surveillance of an authorized user.
17. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
52-19064-01Docket or Reference Number  
030-18917

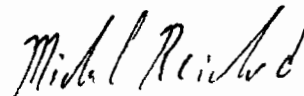
Amendment No. 08

19. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated April 7, 2011 (ML110970424)

For the U.S. Nuclear Regulatory Commission

Date June 18, 2012 By \_\_\_\_\_



Michael Reichard  
Materials Security and Industrial Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

Monday, June 18, 2012 15:12:23



U.S. NUCLEAR REGULATORY COMMISSION

**MATERIALS LICENSE**

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, 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 byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee  1. Sierra Geotechnical Group, Inc.  2. P.O. Box 1570 Trujillo Alto, Puerto Rico 00977-1570	3. License number 52-31439-01  4. Expiration date May 31, 2021  5. Docket No. 030-38446 Reference No.
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6. Byproduct, source, and/or special nuclear material  A. Radium 226	7. Chemical and/or physical form  A. Sealed Sources (QSA Global Model RAN.C1; Radium Chemical Co. DWG. 21.94)	8. Maximum amount that licensee may possess at any one time under this license  A. 22 millicuries total and no single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear regulatory Commission or an Agreement State
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9. Authorized use:  
 A. In Seaman Nuclear Corporation Model C-300 portable gauging devices for measuring physical properties of materials.

CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at Carr. 181 Km. 8.3, Bo. La Gloria, Trujillo Alto, Puerto Rico, and may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
52-31439-01Docket or Reference Number  
030-38446

11. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in the application dated May 3, 2011, and have been designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
12. The Radiation Safety Officer for this license is José J. Diaz.
13.
  - A. Sealed sources shall be tested for leakage and/or contamination at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
  - B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
  - C. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
  - D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
  - E. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
  - F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee, except as specifically authorized.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
52-31439-01Docket or Reference Number  
030-38446

15. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
16. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport or storage, or when not under the direct surveillance of an authorized user.
17. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated May 3, 2011 (ML11250440)


For the U.S. Nuclear Regulatory Commission

**Original signed by Sattar Lodhi, Ph.D.**Date May 11, 2011

By

Sattar Lodhi, Ph.D.  
Materials Security and Industrial Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

Wednesday, May 11, 2011 08:44:05

  
Sierra Geotechnical Group Inc.  
PO Box 1570  
Trujillo Alto, PR, 00977-1570



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63197

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Office of the Chief Financial Officer

U.S. Nuclear Regulatory Commission  
P.O. Box 979051  
St. Louis, MO 63197

**Check  
Rejection  
Notice**

Date 7-16-12

This check is being returned for the following reason:

- |                                       |  |
|---------------------------------------|--|
| <input type="checkbox"/> Signature    | <input type="checkbox"/> Payee               |
| <input type="checkbox"/> Post Dated   | <input type="checkbox"/> Guarantee Amount    |
| <input type="checkbox"/> Stale Date   | <input checked="" type="checkbox"/> No Check |
| <input type="checkbox"/> Paid in Full | <input type="checkbox"/> Other _____         |

I.D. No. 801

*forwarded to RI*

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

OFFICIAL BUSINESS

Sattar Lodhi, Ph.D  
Region 1

This is to acknowledge the receipt of your letter application dated

7-10-12, and to inform you that the initial processing which includes an administrative review has been performed.

*Termination: 52-31439-01*  
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

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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** 577987.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.