



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

October 1, 2008

Summit Engineering Corporation
ATTN: Nancy Lightfoot
Radiation Safety Officer
5405 Mae Anne Ave.
Reno, NV 89523

SUBJECT: CORRECTED COPY TO INITIAL NRC LICENSE NO. 27-29280-01

Dear Ms. Lightfoot,

Please find enclosed a corrected copy to your initial NRC License No. 27-29280-01. This corrected copy reflects the Humboldt Scientific Inc. Model No. 5001 portable gauging device in lieu of the incorrect model number 5100. In addition, the Sealed Source Device Registry (SSDR) was updated in April 2008. The revised SSDR reflects sealed source model numbers for each of the Humboldt Drawing Numbers authorized on your license. Therefore, I also updated your license to reflect these sealed source model numbers. The SSDR is enclosed for your reference. Please note that the SSDR revised the leak test frequency to 12 months for the Humboldt Scientific Inc. 5001 portable gauging device.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink that reads "Rachel S. Browder".

Rachel S. Browder, Health Physicist
Nuclear Materials Safety Branch B

Docket: 030-37584
License: 27-29280-01
Control: 471577

Enclosure: As stated

U.S. NUCLEAR REGULATORY COMMISSION

CORRECTED COPY

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. Summit Engineering Corporation	3. License number 27-29280-01
2. 5405 Mae Anne Avenue Reno, Nevada 89523	4. Expiration date January 31, 2018
	5. Docket No. 030-37584 Reference No.

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Cesium-137	A. Sealed sources (Humboldt Scientific, Inc. Drawing No. 2200064-1 which covers: AEA Technology/QSA Inc. Model No. CDC.800 series Isotope Product Laboratories Model No. HEG 137)	A. 25 millicuries total. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State.
B. Americium-241	B. Sealed neutron sources (Humboldt Scientific Inc. Drawing No. 2200067-1 which covers: AEA Technology/QSA Inc. Model No. AMN.V997, Isotope Product Laboratories Model No. Am1.NO2)	B. 100 millicuries total. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State.
C. Cesium-137	C. Sealed sources (QSA Global, Inc., Model No. CDC.W556; Isotope Product Laboratories Model No. HEG-137)	C. 20 millicuries total. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State.

9. Authorized use:	
A. and B.	In Humboldt Scientific, Inc. Model No. 5001 portable gauging devices for measuring physical properties of materials.
C.	In Troxler Electronic Laboratories, Model 4640 and 4640-B portable gauging devices for measuring physical properties of materials.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
27-29280-01Docket or Reference Number
030-37584**CORRECTED COPY**CONDITIONS

10. Licensed material may be used or stored at the licensee's facilities located at:
- A. Temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating 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 materials may be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application dated November 29, 2007.
12. The Radiation Safety Officer (RSO) for this license is Nancy Lightfoot.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by 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 U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- 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 microcuries (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcuries (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. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 612 East Lamar Blvd., Suite 400, Arlington, Texas 76011-4125, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.

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- E. Tests for leakage and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples but not perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- F. Records of leak tests results shall be kept in units of microcuries and shall be maintained for 3 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 6 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.
16. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from the U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Registration Certificates issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
17. 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, storage or when not under the direct surveillance of an authorized user.
18. 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 other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
19. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.
- B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U.S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent.

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20. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
21. 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 November 29, 2007



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: October 1, 2008By: *Rachel S. Browder*Rachel S. Browder, Health Physicist
Nuclear Materials Safety Branch B
Region IV
Arlington, Texas 76011-4125