

## U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 03

**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.

03121  
 Licensee

574560  
 In accordance with **letter dated**  
**January 26, 2011,**

1. CRD & Associates, Inc.

3. License number 24-24559-02 is **renewed** in its entirety to read as follows:

2. **10735 Lambert International Boulevard**  
**P.O. Box 10348 / Lambert Field**  
**St. Louis, MO 63145**

4. **Expiration date July 31, 2021**

5. Docket No. 030-35629  
 Reference No. 030-22312

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 registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license.

A. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State.  
**Total activity allowed 55 millicuries.**

B. Americium-241

B. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified

B. No single source to exceed the maximum activity specified in the certificate of registration issued by NRC or an Agreement State.  
**Total activity allowed 250 millicuries.**

9. Authorized Use:

A. and B. To be used in CPN International, Inc. MC Series, **Humboldt** Scientific Model 5001 and/or Troxler Electronic Labs, Inc. 3400 Series surface moisture/density gauges.

**CONDITIONS**

10. Licensed material may be used and stored at **10735 Lambert International Boulevard**, St. Louis, Missouri and 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.

11. The Radiation **Safety** Officer for the activities authorized by this license is Carl W. Rapp.

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12. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in Item 8 of Application dated January 24, 2001.
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 NRC 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 NRC 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. **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.**
- D. The licensee is authorized to collect leak test samples for analysis by **Humboldt Scientific, Inc., Troxler Electronic Labs, Inc. or CPN International, Inc.** or tests for leakage and/or contamination shall 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. **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. A minimum of two independent physical controls that form tangible barriers to secure portable gauges from unauthorized removal whenever the portable gauge is not under the control and constant surveillance of the licensee are required.**
16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
17. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
18. Any cleaning, maintenance or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

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19. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC 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 Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
20. 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 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 **January 26, 2001 (with attachments)**

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date **JUL 15 2011**By   
Michael G. Herr, CHP  
Materials Licensing Branch  
Region III