

LUDLUM MEASUREMENTS, INC.

501 OAK STREET
P.O. BOX 810
SWEETWATER, TEXAS 79556
WEBSITE: WWW.LUDLUMS.COM



**DESIGNER AND
MANUFACTURER
OF**

*Scientific and Industrial
Instruments*

800-622-0828(US & CANADA)

325-235-5494

325-235-4672(FAX)

E-mail:rharris@ludlums.com

January 25, 2005

Division of Industrial and Medical Nuclear Safety
Office of Nuclear Materials Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington DC 20555-0001

Docket No. 030-20785
License No. 42-21454-01E

Subject: License Renewal
Reference: NRC License 42-21454-01E

Dear Sirs;

This is in response to your letter dated December 27, 2004. The additional information you requested is below and numbered according to the numbering in your letter.

1. A copy of our current specific license issued by the State of Texas is enclosed as attachment 1.
2. Please disregard sections 8 and 10 of the letter dated 30 July 2004. The instruments containing check sources and counting standards are distributed to persons exempt from licensing requirements.
3. The list of isotopes that we request to redistribute are the isotopes listed in 10 CFR 30.71 Schedule B. The chemical and physical form is in accordance with 10 CFR 32.18(c). The maximum quantity for each type of check source, counting standard, survey, detection, and measuring instrument will not exceed the limits set forth in 10 CFR 30.71 Schedule B.
4. A current copy of our catalog is enclosed as attachment 2.
5. The method in which the check sources and counting standards are packaged and transferred is in accordance with 10 CFR 32.19 (b) (c) and (d). The number of check sources and counting standards that are distributed per transaction is in accordance with 10 CFR 32.19 (a).
6. The dose rate at the external surface of the outer package containing the check sources and counting standards to be transferred is in accordance with 10 CFR 32.19 (b).
7. The labeling on the immediate container of the check sources and counting standards to be transferred is in compliance with 10 CFR 32.19 (c) and (d). There is also a "One Moment Please" notice that is included with each transaction. A copy of this notice is enclosed as attachment 3.

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8. (a) A diagram of a check source holder illustrating the construction and an accompanying letter detailing the construction are enclosed as attachments 4 and 5.
(b) The drawing and letter described above in 8(a) details the method of mounting the check sources and counting standards into the source holder. The source holder is attached to the side of the can with 4 screws and loctite is used on all screws to ensure the screws stay in place. The source holder is firmly secured to the instrument and no periodic maintenance to the source holder is required or anticipated for routine use.
(c) The procedure for and results of prototype testing are enclosed as attachment 6.
(d) All products manufactured by Ludlum Measurements, Inc. are manufactured in accordance with a quality assurance program that complies with 10 CFR 50 Appendix B. An uncontrolled version of our current quality assurance manual is enclosed as attachment 7.
9. Drawings of the two labels used to identify the byproduct material into the check source holders are enclosed as attachments 8 and 9. Attachment 9 has Cs-137 printed as the isotope and attachment 8 has the isotope left blank to be filled in manually with a permanent marker.
10. (a) A record is kept on a computer program and a hard copy printed out of each source that is transferred. In this record is the name of the person or company, address of recipient, type of isotope, radioactive quantity of source, date of shipment, work order number, and any pertinent information necessary. Each record is kept on hand for at least 5 years.
(b) The filing of summary reports with the NRC is done within 30 days after the filing of the previous report every 5 years. This report states the total quantity of each isotope transferred under the exempt distribution license and is forwarded to the
Director of Nuclear Material Safety & Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555
(c) A record of the transaction is kept on file for 5 years, showing the company, company address, type of instrument, quantity of instrument and type of isotope and quantity of isotope (radioactive quantity and how many). This record is kept on a computer program and a hard copy is printed out.
11. A copy of the last report sent to the NRC is enclosed as attachment 10.
12. A copy of the document authorizing Rhonda Harris to make binding commitments and sign official documents on behalf of Ludlum Measurements, Inc. is enclosed as attachment 11.

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If you need any other information, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Rhonda Harris". The signature is written in a cursive, flowing style.

Rhonda Harris, RSO
Ludlum Measurements Inc.