

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. Bruker Detection Corporation 2. 40 Manning Road Billerica, Massachusetts 01821	In accordance with application dated July 19, 2012 3. License number 20-32465-02E is amended in its entirety to read as follows: 4. Expiration date January 31, 2017 5. Docket No. 030-37315 Reference No.
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6. Byproduct, source, and/or special nuclear material A. Nickel-63 B. Sodium-22 C. Cesium-137	7. Chemical and/or physical form A. Foil Sources (Eckert & Ziegler Isotope Products, Inc. Model NER-004 or NER-004P; QSA Global Model NBCD or NBC; RITVERC GmbH Model BNI 3.441) B-C. Solid Sealed Sources	8. Maximum amount that licensee may possess at any one time under this license A. Not applicable (See Condition 11) B-C. Not applicable (See Condition 11)
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9. Authorized use:
- A. Pursuant to 10 CFR Part 32.26, "Specific Domestic Licenses to Manufacture Or Transfer Certain Items Containing Byproduct Material," the licensee is authorized to distribute gas and aerosol detectors manufactured in accordance with NRC Registration No. NR-1101-D-102-E containing sealed sources as specified in Condition 10 of this license to persons exempt from the requirements for a license pursuant to 10 CFR Part 30.20, or equivalent provisions of the regulations of any Agreement State.
 - B-C. Pursuant to 10 CFR 32.18, "Manufacture, distribution and transfer of exempt quantities of byproduct material: Requirements for license," the licensee is authorized to distribute licensed materials to persons exempt from licensing pursuant to 10 CFR 30.18, or equivalent provisions of the regulations of any Agreement State.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
20-32465-02EDocket or Reference Number
030-37315

Amendment No. 5

CONDITIONS

10. The following smoke detector devices may be distributed pursuant to this license provided the amount of Nickel-63 contained in each device does not exceed the amounts specified in the following table:

<u>Device Model</u>	<u>Maximum Quantity Per Device</u>
RAID Series	2.7 millicuries (100 MBq)

11. This license does not authorize possession or use of licensed material.
12. The licensee may distribute only from its facilities located at 40 Manning Road, Billerica, Massachusetts.
13. The licensee shall file periodic reports as specified in 10 CFR Part 32.29(c).



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14. Except as specifically provided otherwise by 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 July 18, 2006 (w/encls.);
- B. Letter dated November 13, 2006;
- C. Letter dated December 21, 2006;
- D. Registration Certificate NR-1101-D-102-E;
- E. Letter dated April 20, 2007;
- F. Letter dated June 26, 2007;
- G. Letter dated October 11, 2007;
- H. Letter dated August 6, 2008 (w/encls.);
- I. Letter dated March 3, 2009;
- J. Letter dated October 15, 2009;
- K. Letter dated February 8, 2010;
- L. Letter dated April 3, 2012 (ML12103A348);
- M. Letter dated July 19, 2012 (ML12215A296).



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date August 15, 2012

By /RA/

Shirley S. Xu
Licensing Branch
Division of Materials Safety and State Agreements
Office of Federal and State Materials and
Environmental Management Programs
Washington, DC 20555