

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.

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| <p>Licensee</p> <p>1. Sterigenics International LLC</p> <p>2. 10811 Withers Cove Park Drive Charlotte, North Carolina 28278</p> | <p>In accordance with letter dated March 30, 2015</p> <p>3. License number 32-31005-01E is amended in its entirety to read as follows:</p> <p>4. Expiration date May 31, 2019</p> <p>5. Docket No. 030-37764 Reference No.</p> |
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| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with Atomic Nos. 3 through 92</p> | <p>7. Chemical and/or physical form</p> <p>A. Irradiated processed gemstones</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not applicable (See Condition 10)</p> |
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9. Authorized use:

In accordance with 10 CFR 32.11, "Introduction of byproduct material in exempt concentrations into products or materials, and transfer of ownership or possession: Requirements for license," the licensee is authorized to distribute processed gemstones containing byproduct material as listed in License Conditions 6 and 7, not to exceed concentrations as specified in 10 CFR 30.70, Schedule A and containing radionuclides not appearing in 10 CFR 30.70 at concentrations up to those specified in the application, applying NOTE 2 of 10 CFR 30.70," to persons exempt from the requirements for a license under 10 CFR 30.14, or equivalent regulations of any Agreement State.

CONDITIONS

- 10. This license does not authorize possession or use of licensed material.
- 11. Licensed material shall be distributed only from the licensee's facility located at 7695 Formula Place, San Diego, California 92121.
- 12. The licensee shall submit periodic material transfer reports as specified in 10 CFR 32.12.
- 13. Notwithstanding the requirements of 10 CFR 32.11(c), the licensee may distribute processed gemstones for the purpose of being worn by human beings. These may contain radionuclides that do not appear in 10 CFR 30.70 at concentrations up to those specified in the application, applying NOTE 2 of 10 CFR 30.70.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
32-31005-01E

Docket or Reference Number
030-37764

Amendment No. 04

14. The licensee shall not accept any material unless it is accompanied by documentation indicating that the material has been analyzed and found to contain less than exempt concentrations as specified in 10 CFR 30.14 and 30.70, and in accordance with NOTE 2 to 10 CFR 30.70. The licensee shall ensure that the measurement process was adequate to measure radioactivity below the exempt concentrations. The licensee shall perform periodic confirmatory measurements, as approved, of the material received to ensure the regulatory requirements are met.
15. The licensee shall evaluate any gemstones that the licensee has determined are below the exempt concentrations, and have subsequently been irradiated with an accelerator, using appropriate instrumentation and following appropriate procedures to ensure that any induced radionuclides do not exceed the concentration limits specified in 10 CFR 30.70, Schedule A, and the approved derived concentration limits for radionuclides not appearing in 10 CFR 30.70.
16. 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 May 27, 2008 (ML081610729);
 - B. Letter dated September 18, 2008 (ML082820164);
 - C. Letter dated February 6, 2009 (ML091350474);
 - D. Letter dated April 7, 2009 (ML091350475);
 - E. Letter dated January 19, 2010 (ML100900148);
 - F. Letter dated June 7, 2010 (ML101730151);
 - G. Letter dated July 13, 2010 (ML102090583);
 - H. Letter dated August 24, 2010 (ML102520340);
 - J. Letter dated February 22, 2011 (ML110540682).

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Date June 18, 2015

By _____
Shirley S. Xu
Materials Safety License Branch
Division of Material Safety, State, Tribal and
Rulemaking Program
Office of Nuclear Material Safety and Safeguards
Washington, DC 20555