U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 18

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	In accordance with the letter dated January 27, 2009,
1. Department of the Army Commander U.S. Army Aberdeen Test Center 2. 400 Colleran Road Aberdeen Proving Ground, Maryland 21005-5059	3. License number SNM-1649 is amended in its entirety to read as follows: 4. Expiration date September 30, 2013 5. Docket No. 030-02302 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. Plutonium 239	A. Metal (encapsulated fission foils and plated track etch detectors)	A. Not to exceed 2 grams per source and 11 grams total
B. Uranium 235	B. Metal (sealed in fission chambers, plated track etch detectors, and encapsulated intrinsic thermocouple)	B. Not to exceed 2 grams per source and 25 grams total
C. Uranium 235	C. Liquid (dissolved in nitric acid and sealed in a glass ampoule)	C. 100 milligrams

9. Authorized use:

A. and B. Research and development as defined in 10 CFR 30.4.
C. In Perkin Elmer Model No. ELAN 9000 Inductively Coupled Plasma Mass Spectrometer for analysis of uranium materials by isotope dilution mass spectroscopy.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at U.S. Army Aberdeen Proving Ground, Aberdeen Proving Ground, Maryland.

11. A. Licensed material shall only be used by, or under the supervision of, individuals designated, in writing, by the Radiation Safety Committee. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number
SNM-1649

Docket or Reference Number
030-02302

Amendment No. 18

B. The Radiation Safety Officer for this license is Gurvis Davis.

12. This license does not authorize the insertion of these materials into any nuclear reactor.

13. The licensee shall conduct a physical inventory every six 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. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.

14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

15. Notwithstanding the requirements of License Condition16, the licensee is authorized to make program changes and changes to operating and emergency procedures specifically identified in the letter dated August 20, 2003, which were previously approved by the U.S. Nuclear Regulatory Commission and incorporated into the license without prior Commission approval as long as:

A. The proposed revision is documented, reviewed, and approved by the licensee management and Radiation Safety Officer in accordance with established procedures prior to implementation.

B. The revised program is in accordance with regulatory requirements, will not change the license conditions, and will not decrease the effectiveness of the Radiation Safety Program.

C. The licensee's staff is trained in the revised procedures prior to implementation.

D. The licensee's audit program evaluates the effectiveness of the change and its implementation.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number
SNM-1649

Docket or Reference Number
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Amendment No. 18

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 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. Letter dated April 30, 2001 (ML011310530)
B. Letter dated August 20, 2003 (ML032330423)
C. Electronic mail dated September 8, 2003 (ML032521309)

For the U.S. Nuclear Regulatory Commission

Date March 16, 2009

By ***Original signed by Elizabeth Ullrich***

Elizabeth Ullrich
Commercial and R&D Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406