

OFFICIAL USE ONLY – SECURITY-RELATED INFORMATION

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

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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 U.S. Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee

1. Pennsylvania State University

3. License Number: SNM-95, Amendment 5

2. University Park, Pennsylvania 16802

4. Expiration Date: April 24, 2028

5. Docket No.: 70-113

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. Uranium enriched in the
U-235 isotope

A. Any

A.

B. Uranium 233

B. Any

B.

C. Plutonium 239

C. Encapsulated Pu-Be
sources

C.

D. Plutonium 239

D. Plated alpha sources
or fission foils

D.

E. Fission product samples

E. Non-dispersible solid
or liquid

E.

F. Plutonium 238
Plutonium 240

F. Sealed source or fully
encapsulated

F.

G. Plutonium 242

G. Sealed source or fully
encapsulated

G.

Documents transmitted herewith contain Sensitive Security Related Information. When separated from Enclosures 1 and 3, the transmittal letter, this enclosure and enclosure 4 are decontrolled.

Enclosure 2

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
SNM-95, Amendment 5

Docket or Reference Number
70-113

SAFETY CONDITIONS

- S-1. Authorized Use: For use in accordance with statements, representations, and conditions in the license application dated September 23, 2013; August 1, 2014; August 26, 2014; November 5, 2014; March 3, 2015; June 17, 2015; June 18, 2015; August 5, 2015; September 28, 2015; September 30, 2015; April 28, 2016; December 9, 2016; October 25, 2019; December 12, 2019; September 18, 2020, January 3, 2022, April 19, 2024, October 24, 2024, July 23, 2025, and June 23, 2025.
- S-2. Authorized Place of Use: The materials specified in Conditions 6 shall be used at the [REDACTED], the [REDACTED], and the [REDACTED] located at University Park, Pennsylvania. The authorized examinations and tests may be performed in the [REDACTED], the [REDACTED], and the [REDACTED]. The materials specified in Conditions 6.C and 6.D shall be used in locations specified in the application.
- S-3. Notwithstanding the requirements in 10 CFR Part 30, Appendix E, Section II.C.(2), The Pennsylvania State University shall demonstrate its continued eligibility to use the self-guarantee within 180 days of the close of the fiscal year. This exemption remains in effect until either: (i) The Pennsylvania State University ceases to use a self-guarantee; (ii) The Pennsylvania State University fails to qualify for a self-guarantee; or (iii) the NRC's regulations in 10 CFR Part 30, Appendix E, Section II.C.(2) are revised. If the submittal is sent by mail, The Pennsylvania State University is to use first class or overnight mail, postmarked no later than the date corresponding to the 180-day milestone.
- S-4. The authorizations to use the radioactive materials, issued by the University Isotopes Committee, shall be granted for a three-year period. For continuing work, a new request is to be approved by the University Isotopes Committee prior to the expiration of an existing authorization.
- S-5. Insertion of source or special nuclear material (SNM) covered by this license into a nuclear reactor is not authorized.
- S-6. Suitable clothing (lab coats, gloves, etc.) specific to the job shall be required for work with unencapsulated SNM. Hands, feet, and clothing, shall be monitored when leaving an area where the material is used. Except by approval of the University Health Physicist, persons shall not exit an area if personal clothing and/or skin are contaminated above background levels.
- S-7. The maximum "start-up" or "driving force" used in conjunction with the subcritical assembly shall not exceed that of a 5 curie Pu-Be neutron source.
- S-8. Surface contamination surveys in laboratories shall be conducted daily when unencapsulated SNM or spent fuel samples are used. Routine radiation surveys shall be conducted monthly in areas where radioactive materials are used and/or stored.

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- S-9. Release of equipment, facilities, or packages, to the unrestricted area or to uncontrolled areas onsite shall be in accordance, "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source or Special Nuclear Material," dated April 1993.
- S-10. Sealed plutonium sources shall be subject to the leak testing and actions specified in the attached, "License Condition for Leak Testing Sealed Plutonium Sources," dated April 1993.
- S-11. Plutonium alpha sources shall be subject to the actions specified in the attached, "License Condition for Plutonium Alpha Sources," dated April 1993.
- S-12. The licensee shall comply with 10 CFR Part 71 for packaging and transportation of radioactive material.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

DATED: See signature date

By:

Tekia Govan, Acting Branch
Chief
Fuel Facility Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

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