NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

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. Purdue University	3. License Number SNM-142, Amendment 2
2. West Lafayette, Indiana 47907	4. Expiration Date August 31, 2009
	5. Docket No. 70-152 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. Uranium enriched in the U-235 isotope	A. SPERT fuel rods, enriched $\leq$ 4.8 w/o	
B. Uranium enriched in the U-235 isotope	B. Fuel rods, enriched $\leq$ 1.3 w/o	
C. Uranium enriched in the U-235 isotope	C. Solid helices, enriched $\leq$ 20 w/o	
D. Uranium enriched in the U-235 isotope	D. Solid discs, enriched $\leq$ 3 w/o	
E. Uranium enriched in the U-235 isotope	E. Samples, enriched $\leq$ 20 w/o	
F. Plutonium	F. Encapsulated PuBe neutron sources	
G. Natural Uranium	G. UO_2 pellets clad in aluminum	
H. Natural Uranium	H. Samples, any form	
I. Californium	I. 10 doubly encapsulated sources	

Enclosure 2

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
SNM-142

Docket or Reference Number
70-152

Amendment 2

J. Uranium 233	J. Calibration sources
K. Neptunium 237	K. Calibration sources
L. Plutonium 239	L. Calibration sources
M. Curium 244	M. Calibration sources
N. Uranium enriched in the isotope U-235	N. Solid, oxide or nitrate enriched ≤ 5 w/o in contaminated equipment

9. Authorized use: For use in accordance with statements, representations, and conditions specified in the license application dated May 4, 1999, and application dated August 28, 2000, and amendment application dated December 22, 2009.

10. Authorized place of use: The licencee's existing Purdue University Campus at West LaFayette, Indiana.

11. Notwithstanding Sections 6.0(c) and 9.1(b) of the application dated May 4, 1999, the licensee is required to have NRC approval by license amendment before using (e.g., moving) the SPERT fuel rods or californium sources.

12. Notwithstanding Section 8.5 of the application dated May 4, 1999, refresher training that covers radiation safety procedures shall be conducted on an annual basis (maximum interval 15 months) for all employees and students who use licensed material.

13. Release of equipment, facilities, or packages to the unrestricted area or to uncontrolled areas onsite shall be in accordance with the attached "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.

14. The licensee is hereby exempted from the requirements of 10 CFR 70.24 insofar as the Section applies to the stored material in the Duncan Annex.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
SNM-142

Docket or Reference Number
70-152

Amendment 2

15. As it pertains to License SNM-142, the licencee shall fully implement and maintain in effect all provisions of the approved 10 CFR 73.67 physical security plan, including changes and amendments made pursuant to 10 CFR 70.32(e) and 10 CFR 70.34. The approved physical security plan, which was submitted by letter dated May 15, 1987, consists of a document containing Safeguards Information entitled, "Security Plan for the Purdue University Reactor, the Fast Breeder Blanket Facility and the Nuclear Fuel Storage Areas," Revision 3, dated May 15, 1987."

FOR THE NUCLEAR REGULATORY COMMISSION

Date: 1/22/10

By: ***/RA/***
Michael D. Tschiltz, Deputy Director
Fuel Facility Licensing Directorate
Division of Fuel Cycle Safety
and Safeguards
Office of Nuclear Materials Safety
and Safeguards

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
SNM-142

Docket or Reference Number
70-152

Amendment 2