

MATERIALS LICENSE

Amendment No. 07

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, 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.

<p>Licensee</p> <p>1. Wayne State University Health Physics-Radiation Control</p> <p>2. 645 Mullett Detroit, MI 48226</p>		<p>In accordance with application dated April 30, 1985</p> <p>3. License number 21-00741-10 is amended in its entirety to read as follows:</p>	
		<p>4. Expiration date</p>	<p>October 31, 1990</p>
		<p>5. Docket or Reference No.</p>	<p>030-06965</p>
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cobalt-60</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed source (Picker Corporation Model P-3802-A)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 511 curies</p>	
<p>9. Authorized Use</p> <p>A. To be used in an irradiator custom designed by UCLA for the irradiation of various materials, excluding explosives or highly inflammable materials.</p>			

CONDITIONS

10. Licensed material shall be used only at Wayne State University, Department of Chemistry, Chemistry Building, Room 70, Detroit, Michigan.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision of, Lawrence Marnett, Ph.D. or Richard D. Cummings.
13. A. Each sealed source containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.

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- B. The test shall be capable of detecting the presence of 0.05 microcurie of contamination on the test sample. The test samples shall be taken from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.05 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. Written instructions entitled "Instructions for Operating Cobalt-60 Source (UCLA Custom Made Irradiator)" enclosed as supplement #5 with letter dated August 15, 1972, shall be followed and a copy of these instructions shall be made available to each individual using or having responsibility for use of licensed material. Any changes in these instructions, other than personnel updates, shall have the prior approval of the Materials Licensing Section, Region III, U.S. Nuclear Regulatory Commission, 799 Roosevelt Road, Glen Ellyn, Illinois 60137.
15. This license does not authorize repairs or alterations of the irradiator involving removal of shielding or access to the licensed material except as provided otherwise by specific condition of this license. Removal, replacement and disposal of sealed sources shall be performed on the irradiator by persons specifically authorized by the Commission or an Agreement State to perform such activities.
16. After relocation or replacement of the irradiator or cobalt-60 source and prior to initiation of the irradiation program, a radiation survey shall be conducted to determine the maximum radiation levels in each area adjoining the irradiation room. A detailed report of the results of the surveys shall be sent to the Materials Licensing Section, Region III, U.S. Nuclear Regulatory Commission, Glen Ellyn, Illinois 60137, not later than thirty (30) days following installation of the source.

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17. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated April 30, 1985; and letters dated December 1, 1969, July 22, 1971 and August 15, 1972. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



For the U.S. Nuclear Regulatory Commission

Date NOV 1 - 1985

Original Signed
By B. J. Holt
Materials Licensing Section, Region III

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