

MATERIALS LICENSE

Amendment No. 03

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.

Licensee		In accordance with letter dated June 17, 1985	
1. Troy School District		3. License number 21-16045-01 is amended in its entirety to read as follows:	
2. 4400 Livernois Troy, MI 48084		4. Expiration date	September 30, 1990
		5. Docket or Reference No.	030-10263
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. Cesium-137	A. Sealed source (RAMCO-50-ORNL)	A. 420 curies	
9. Authorized Use			
A. To be used in Radiation Machinery Corporation Gammator Model 50B irradiator (as manufactured by Isomedix, Inc., Parsippany, New Jersey) for educational demonstrations and laboratory experiments.			

CONDITIONS

10. Licensed material shall be used only at the Athens High School, 4333 J.R. Troy, 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. A. Licensed material shall be used by, or under the supervision of, John D. Acton, Barbara Berthelson, William G. Hull, Jr., James L. Feunner, Mark E. Stern or Doris W. Johannessen.
B. At least one individual named in Condition No. 12.A. shall be physically present at the authorized place of use whenever licensed material is being used.
C. The Radiation Protection Officer for the activities authorized by this license is Doris W. Johannessen.
13. Sealed sources containing licensed material shall not be opened or removed from Gammator 50B irradiator by the licensee.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

21-16045-01

Docket or Reference number

030-10263

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14. A. Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas 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.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. 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 0.005 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.
15. The procedures contained in Radiation Machinery Corporation instruction manual for the "Gammator 50" device shall be followed and a copy of this manual shall be made available to each person using or having responsibility for the use of licensed material.
16. 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 the manufacturer or by other persons specifically authorized by the Commission or an Agreement State to perform such activities.
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 July 17, 1979 and letter dated June 17, 1985. 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

Original Signed

By George M. McCann

Materials Licensing Section, Region III
COPYDate September 9, 1985