

MATERIALS LICENSE

Amendment No. 10

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

1. John Carroll University
Chemistry Department
2. North Park and Miramar Blvd.
Cleveland, OH 44118

In accordance with letter dated
November 29, 1984

3. License number 34-07198-03 is amended in
its entirety to read as follows:

4. Expiration date June 30, 1990

5. Docket or
Reference No. 030-00914

6. Byproduct, source, and/or
special nuclear material

- A. Carbon-14
- B. Sulfur-35
- C. Phosphorus-32
- D. Hydrogen-3

7. Chemical and/or physical
form

- A. Any
- B. Any
- C. Any
- D. Any

8. Maximum amount that licensee
may possess at any one time
under this license

- A. 50 millicuries
- B. 50 millicuries
- C. 50 millicuries
- D. 50 millicuries

9. Authorized Use

A. through D. Laboratory research and teaching and training students.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at
North Park and Miramar Blvd., Cleveland, Ohio.
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 listed in Item 6 above is authorized for use by, or under the
supervision of, the following individual(s) for the materials and uses indicated:

Fenton D. Moore, Ph.D.

All

Robert C. Bohinski, Ph.D.

All

Nicky Ray Baumgartner, Ph.D.

Carbon-14
Sulfur-35
Hydrogen-3

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

34-07198-03

Docket or Reference number

030-00914

Amendment No. 10

13. The licensee shall not use licensed material in or on human beings or in field applications where activity is released except as provided otherwise by specific condition of this license.
14. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days for decay-in-storage before disposal in ordinary trash provided:
 - A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of ten (10) half-lives.
 - B. Prior to disposal as normal waste, radioactive waste shall be monitored to determine that its radioactivity cannot be distinguished from background with typical low-level laboratory survey instruments. All radiation labels will be removed or obliterated.
15. 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 applications dated May 24, 1978 and May 4, 1979; and letter dated November 30, 1979. 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 June 4, 1985

Original Signed
By Evelyn R. Matson
Materials Licensing Section, Region III

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