

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, 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. Air Products and Chemicals, Inc.	3. License number	37-05105-08
2. P. O. Box 538 Allentown, Pennsylvania 18105	4. Expiration date	May 31, 1990
	5. Docket or Reference No.	030-22270
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. Hydrogen 3	A. Any	A. 50 millicuries
B. Carbon 14	B. Any	B. 50 millicuries
C. Phosphorus 32	C. Any	C. 25 millicuries
9. Authorized use		
A. through C. For use in conducting <u>in vitro</u> laboratory studies.		

CONDITIONS

10. Licensed material shall be used only at the licensee's facility located at the R&D Laboratory #1, Route 222, Trexlertown, Pennsylvania.
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, Eugene I. Handwerk, or individuals who have completed the training program described in the licensee's application dated November 21, 1984.
13. Licensed material shall not be used in or on human beings or in products distributed to the public.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

37-05105-08

Docket or Reference number

030-22270

(Continued)

CONDITIONS

14. 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 November 21, 1985, and letter dated April 22, 1985 with attachments. 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:

Jack Davis

By

Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406

Date MAY 06 1985