

CORRECTED COPY

MATERIALS LICENSE

Amendment No. 33

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.

OFFICIAL RECORD COPY

Licensee

1. Pfizer, Inc.
Central Research
2. Eastern Point Road
Groton, Connecticut 06340-5196

In accordance with the letter dated
February 11, 1997,

3. License Number 06-05869-01 is amended in
its entirety to read as follows:

4. Expiration Date September 30, 2004

5. Docket or
Reference No. 030-03790

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. Any byproduct material with
atomic numbers 1 through 83

- A. Any

- A. Not to exceed
300 millicuries
per radionuclide and 20
curies total

- B. Hydrogen 3
 - C. Carbon 14
 - D. Phosphorus 32
 - E. Phosphorus 33
 - F. Sulfur 35
 - G. Calcium 45
 - H. Chromium 51
 - I. Rubidium 86
 - J. Yttrium 90
 - K. Iodine 125
 - L. Iodine 131
 - M. Nickel 63

- B. Any
 - C. Any
 - D. Any
 - E. Any
 - F. Any
 - G. Any
 - H. Any
 - I. Any
 - J. Any
 - K. Any
 - L. Any
 - M. Plated sources or foils

- B. 500 curies
 - C. 50 curies
 - D. 5 curies
 - E. 5 curies
 - F. 5 curies
 - G. 1 curie
 - H. 1 curie
 - I. 1 curie
 - J. 2 curies
 - K. 5 curies
 - L. 1 curie
 - M. Not to exceed 15
millicuries per source
and 1 curie total
 - N. Not to exceed 20
microcuries per source
and 40 microcuries total

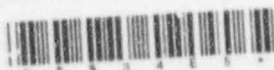
- N. Californium 252

- N. Sealed sources
(Isotope Products
Laboratories Model
FF252/SK362)

9. Authorized use

- A. through L. Research and development as defined in 10 CFR 30.4; animal studies.
 - M. In electron capture detector cells which are distributed under a specific license issued by the U.S. Nuclear Regulatory Commission or Agreement State.
 - N. For use in a BioIon Model 20 Mass Spectrometer

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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License Number

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Docket or Reference Number

030-03790

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CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at Eastern Point Road, Groton, Connecticut.
11. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, John Stam, Ph.D., Chairperson.
B. The Radiation Safety Officer for this license is Joseph M. Merenda.
12. Licensed material shall not be used in or on human beings.
13. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
E. Sealed sources and detector cells need not be leak tested if:
 - (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

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- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
16. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
17. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
18. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
19. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash, provided:
- A. Waste to be disposed of in this manner shall be held for decay a minimum of ten half-lives.
- B. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- C. A record of each such disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.

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20. Radioactive waste generated shall be stored in accordance with the statements, representations, and procedures included with the waste storage plan described in the licensee's letters dated July 30, 1992, March 26, 1993 and January 6, 1995.
21. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Letter dated July 30, 1992
 - B. Letter dated March 26, 1993
 - C. Application dated August 2, 1993
 - D. Letter dated July 15, 1994
 - E. Letter dated August 9, 1994
 - F. Letter dated September 12, 1994
 - G. Letter dated September 14, 1994
 - H. Letter dated January 6, 1995
 - I. Letter dated February 11, 1997
 - J. Letter dated March 12, 1997

Date APR 30 1997

For the U.S. Nuclear Regulatory Commission

ORIGINAL SIGNED BY:

JOHN D. KINNEMAN

By

Nuclear Materials Safety Branch
Region I

King of Prussia, Pennsylvania 19406