

U.S. NUCLEAR REGULATORY COMMISSION

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, 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.

03611

318761

Licensee

In accordance with letter dated **January 19, 2010**,
3. License number 24-32439-01 is amended in its entirety to read as follows:
4. Expiration date April 30, 2014
5. Docket No. 030-36482
Reference No. 030-05069, 030-30241

- 1. Pharmacia Corporation
Wholly Owned Subsidiary of Pfizer, Inc.
- 2. Mail Zone BB5G
700 Chesterfield Parkway West
Chesterfield, MO 63017-1732

<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material with Atomic Numbers 1-83; inclusive</p> <p>B. Nickel-63</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p> <p>B. Foil or plated source (registered pursuant to 10 CFR 32.210 or an Agreement State)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 100 millicuries of each radionuclide; total possession limit not to exceed 5 curies; except as listed below: Hydrogen-3 25 curies Carbon-14 5 curies Phosphorus-32 3 curies Sulfur-35 5 curies Phosphorus-33 2 curies Iodine-125 500 millicuries</p> <p>B. No single source to exceed 15 millicuries; 30 sources total</p>
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9. **Authorized use:**
- A. and B. **Decommissioning activities only as described in letter dated March 1, 2010.**

CONDITIONS

- 10. A. Licensed material may be used **as authorized in Item 9** only at 700 Chesterfield Parkway North, St.Louis, Missouri.
- B. Licensed material listed in Item 6.C. may be used **as authorized in Item 9** only at the facilities located at 700 Chesterfield Parkway North, Building AA, Room AA052, St. Louis, Missouri.

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11. The Radiation Safety Officer for the this license is **Timothy Popp**.
12. Licensed material shall be used by, or under the supervision of, individuals designated by the Radiation Safety Officer, **Timothy Popp**.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- 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 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 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 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 transferred 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.
- F. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.

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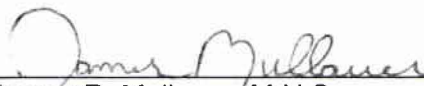
- G. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
 15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license.
 16. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
 17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
 18. Maintenance, repair, cleaning, replacement, and disposal of foils contained in detector cells shall be performed only by the device manufacturer or other persons specifically authorized by the Commission or an Agreement State to perform such services.
 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. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate survey meter 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.
 - B. A record of each 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.
 20. Licensed material shall not be used in or on human beings except as provided otherwise by specific condition of this license.
 21. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
 22. In addition to the possession limits in Item 8., the licensee shall further restrict the possession of unsealed byproduct material to quantities less than 10^5 of the applicable limits in Appendix B of 10 CFR Part 30, as specified in 10 CFR 30.35(d).

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23. 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 U.S. 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. Application dated October 1, 2003 (with attachments); and
- B. Letters dated January 13, 2004, December 2, 2008, and April 1, 2009, with attached "Newstead Avenue Site, Decommissioning Final Status Report", **two letters dated March 1, 2010, and March 22, 2010.**

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAR 29 2010By 
James R. Mullauer, M.H.S.
Materials Licensing Branch
Region III