

MATERIALS LICENSE

Amendment No. 02

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); and to import such byproduct and source material. 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. Fischer Technology, Inc.
2. 750 Marshall Phelps Road
Windsor, Connecticut 06095

In accordance with application dated
February 15, 1984
3. License number 06-19165-01 is amended in its
entirety to read as follows:

4. Expiration date September 30, 1990

5. Docket or
Reference No. 030-170736. Byproduct, source, and/or
special nuclear material7. Chemical and/or physical
form8. Maximum amount that licensee
may possess at any one time
under this license

A. Promethium 147

A. Sealed source (Fischer
Model C7.1.1 or Isotopes
Products Model TCB-1)A. Not to exceed 900
microcuries per source

B. Thallium 204

B. Sealed source (Fischer
Model C7.1.2 or Isotopes
Products Model TCB-1)B. Not to exceed 150
microcuries per source

C. Strontium 90

C. Sealed source (Fischer
Model C7.1.4 or Isotopes
Products Model TCB-1)C. Not to exceed 25
microcuries per source

D. Ruthenium 106

D. Sealed source (Fischer
Model C7.1.5 or Isotopes
Products Model TCB-1)D. Not to exceed 20
microcuries per source

E. Bismuth 210

E. Sealed source (Fischer
Model C7.1.3 or Isotopes
Products Model TCB-1)E. Not to exceed 150
microcuries per source

F. Cadmium 109

F. Sealed source (Fischer
Model C7.1.0 or Isotopes
Products Model TCB-1)F. Not to exceed 600
microcuries per source

9. Authorized use

A. through F. For use and/or possession incident to:

- (1) Installation, assembly, manufacture, repair or storage of the Fischer Technology gauging devices.
- (2) Instruction and training of individuals in the use of Fischer Technology devices.
- (3) Demonstration of backscatter measurement techniques.
- (4) Collection of samples for leak testing and/or analysis for leakage or contamination of the customer's sealed sources.
- (5) Distribution of Fischer Technology devices to persons authorized to receive the licensed material pursuant to the terms and conditions of a specific license issued by the Nuclear Regulatory Commission or an Agreement State.

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number:

06-19165-01

Docket or Reference number

030-17073

Amendment No. 02

(continued)

CONDITIONS

10. Licensed material may be used at the licensee's facility located at 750 Marshall Phelps Road, Windsor, Connecticut, and at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
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, Helmut Fischer, Robert Christensen or Andrew Soncha.
13. A. (1) 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.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- (3) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- 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 5 days of the test with the U. S. Nuclear Regulatory Commission, Region I, 631 Park Avenue, King of Prussia, Pennsylvania 19406, 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.

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(continued)

CONDITIONS

14. Sealed sources containing licensed material shall not be opened.
15. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Commission, and shall include the quantities and kinds of licensed material, location of sealed sources and the date of the inventory.
16. 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 February 15, 1984, and letters dated June 28, 1985, and August 9, 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

Date

AUG 29 1985

Original Signed By:

Jack Davis

By

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