

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). 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. T Cell Sciences Incorporated

2. 38 Sidney Street
Cambridge, Massachusetts 02139

In accordance with letter dated
February 28, 1989,
3. License number 20-20783-02 is amended
in its entirety to read as follows:

4. Expiration date March 31, 1992

5. Docket or
Reference No. 030-29658

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. Cesium 137

A. Sealed source
(ORNL-RAMCO-50
or ISO-1000)

A. 600 Curies

9. Authorized use

A. For use in an AECL Gammacell 1000 Model A Irradiator for the irradiation of cells and animals.

CONDITIONS

10. Licensed material shall be used at 38 Sidney Street, Cambridge, Massachusetts.

11. A. Licensed Material shall be used by, or under the supervision and in the physical presence of, M. E. Snider, Ph.D. or S. Ip, Ph.D.

B. The Radiation Safety Officer for this license is Gerald R. Carson.

12. A(1) Any sealed source(s) or detector cell(s) specified in Item(s) 7.A. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source or detector cell received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.

(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source or detector cell is exempt from such leak tests when the source or detector cell contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.

B. Any sealed source or detector cell in storage and not being used need not be tested. When the source or detector cell is removed from storage for use or transfer to another person, it shall be tested before use or transfer.

OFFICIAL RECORD COPY ML 10

9003010375 890506
REG1 LIC30
20-20783-02

PDR

CA 4/1/89

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
20-20783-02

Docket or Reference number
030-29658

Amendment No. 02

(12. Continued)

CONDITIONS

- C. 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, the source or detector cell shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 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 involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. 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.
- 13. The licensee shall not perform repairs or alterations of the irradiator involving removal of shielding or access to the licensed material. Removal, replacement, and disposal of sealed sources in the irradiator shall be performed by a person specifically licensed by the Commission or an Agreement State to perform such services.
- 14. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
- 15. 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 regulation shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated December 8, 1986
 - B. Letter dated February 5, 1987
 - C. Letter dated October 26, 1988
 - D. Letter dated December 2, 1988
 - E. Letter dated February 28, 1989

Date MAY 06 1989

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

MAY 06 1989

License No. 20-20783-02
Docket No. 030-29658
Control No. 110373

T Cell Sciences, Incorporated
ATTN: Stephen H. Ip, Ph.D.
38 Sidney Street
Cambridge, Massachusetts 02139-4135

Gentlemen:

Please find enclosed an amendment to your NRC Material License.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the Region I Material Licensing Section, (215) 337-5239, so that we can provide appropriate corrections and answers.

Based on the results of the closeout report dated April 25, 1989 the facilities at 840 Memorial Drive are hereby released for unrestricted use.

Please be advised that you must conduct your program involving licensed radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, please note the items in the enclosed, "Requirements for Materials Licensees."

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, the NRC expects licensees to pay meticulous attention to detail and to achieve the high standard of compliance which the NRC expects of its licensees.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program safely and in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in prompt and vigorous enforcement action against you. This could include issuance of a notice of violation, or in case of serious violations, an imposition of a civil penalty or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

OFFICIAL RECORD COPY

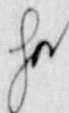
ML 20-20783-02/LTR - 0001.0.0
04/27/89

ML 10

We wish you success in operating a safe and effective licensed program.

Sincerely,

Original Signed By:
Laurence F. Friedman, Ph.D.



John D. Kinneman, Chief
Nuclear Materials Safety Section B
Division of Radiation Safety
and Safeguards

Enclosures:

1. Amendment No. 02
2. Requirements for Materials Licensees
3. NRC Forms 3 and 313

DBSS:RI
Wallace/tlm/pmb

5/2/89

DBSS:RI
Kinneman

6/5/89