

NUCLEAR REGULATORY COMMISSION
MATERIALS LICENSE
Supplementary Sheet

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License Number 29-15364-01

Docket or
Reference No. _____

Amendment No. 18

Isomedix, Inc.
80 South Jefferson Road
Whippany, New Jersey 07981

In accordance with letter dated March 28, 1980, License Number 29-15364-01
is amended as follows:

Condition 14. is amended to read:

14. Except as specifically provided otherwise by this license, the license 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 September 12, 1972; letters dated September 7, 1972, January 5, 1973, May 14, 1973, and January 11, 1974; application dated June 24, 1974, as amended June 28, 1974, July 1, 1974, and July 3, 1974; application dated August 8, 1974; letters dated November 15, 1974, December 6, 1974, January 21, 1975, February 5, 1975, June 6, 1975, August 25, 1975, and April 5, 1976; applications dated May 24, 1977, August 26, 1977, November 28, 1977, and February 8, 1978; and letters dated March 28, 1980 and April 9, 1980. 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.

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For the U. S. Nuclear Regulatory Commission
~~Original Signed~~

by PAUL E. GILMAN
Material Licensing Branch

Division of Fuel Cycle and
Material Safety
Washington, D.C. 20555

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U. S. NUCLEAR REGULATORY COMMISSION
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Amendment No. 19

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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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.

<p align="center">Licensee:</p> <p>1. Inomedix, Inc.</p> <p>2. 80 South Jefferson Road Whippany, New Jersey 07981</p>		<p>In accordance with application dated June 29, 1979</p> <p>3. License number 29-15364-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date May 31, 1985</p> <p>5. Docket or Reference No.</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cobalt 60</p> <p>B. Cobalt 60</p> <p>C. Cesium 137</p> <p>D. Cobalt 60</p> <p>E. Cobalt 60</p> <p>F. Cobalt 60</p> <p>G. Cesium 137</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources (AECL Model C-188 Types 1, 2, 3 or 4)</p> <p>B. Sealed sources (Neutron Products, Inc. Models 12CC5 or 24CC5)</p> <p>C. Sealed sources (Oak Ridge National Laboratory Model RAMCO-50-ORNL or Special Form)</p> <p>D. Sealed sources (General Electric Co. Model GE-P-84 or Neutron Products Inc. Model 12CC5 or 24CC5)</p> <p>E. Sealed sources (Brookhaven National Lab.)</p> <p>F. Sealed source (Tracerlab)</p> <p>G. Sealed sources (Tracerlab)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 12,000 curies per source</p> <p>B. Not to exceed 10,000 curies per source</p> <p>C. 950 curies total</p> <p>D. Not to exceed 1,000 curies per source</p> <p>E. Not to exceed 400 curies per source</p> <p>F. Not to exceed 10 microcuries per source</p> <p>G. Not to exceed 50 microcuries per source</p>	

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MATERIALS LICENSE

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Supplementary Sheet

License Number 29-15364-01

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Amendment No. 19

9. Authorized use

- A. and B. For use in an irradiator for the processing or irradiation of materials, excluding explosives, flammables and corrosive materials.
- C. For storage and/or possession; loading into or removal from irradiators; operational testing of irradiators; and for distribution in Gammacell 10 or Gammacell 1000 Irradiators to persons authorized to receive the licensed material pursuant to terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or an Agreement State.
- D. and E. For storage only.
- F. and G. For use in the testing and calibration of instruments.

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities at 25 Eastmans Road, Parsippany, New Jersey.
- 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, individuals designated by the licensee's Radiation Safety Officers, George R. Dietz or Charles Ronk.
- 13. A. Each sealed source containing licensed material 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.

B. The test shall be capable of detecting the presence of 0.05 microcurie of contamination on the test sample. The test samples shall be taken from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.

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MATERIALS LICENSE

Supplementary Sheet

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13. continued

- C. If the test reveals the presence of 0.05 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, Office of Inspection and Enforcement, 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.
14. After any change in the irradiator shielding or after any increase in irradiator loading, a radiation survey shall be conducted to determine the radiation level in areas outside the irradiation room. A detailed report of the results of the surveys shall be sent to the Nuclear Regulatory Commission, Division of Fuel Cycle and Material Safety, Material Licensing Branch, Washington, D. C. 20555, not later than thirty (30) days following the change. A copy of such report shall also be sent to U. S. Regulatory Commission, Region I, Office of Inspection and Enforcement, 631 Park Avenue, King of Prussia, Pennsylvania 19406.
15. 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 June 29, 1979 and letters dated November 27, 1979, March 28, 1980 and April 9, 1980. 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.

JUN 17 1980

Date _____

For the U. S. Nuclear Regulatory Commission

PAUL R. GULIN

Material Licensing Branch

by _____

Division of Fuel Cycle and
Material Safety
Washington, D.C. 20555

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

29-15364-01

Docket or Reference number

030-08985

Amendment No. 20

Isomedix Inc.
80 South Jefferson Road
Whippany, New Jersey 07981

"OFFICIAL RECORD COPY"

In accordance with letters dated July 31, 1984, and August 2, 1984, License Number 29-15364-01 is amended as follows:

Conditions 6., 7., 8. are amended to add:

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|---|--|--|
| 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 |
| H. Cobalt 60 | H. Sealed sources (Neutron Products, Inc. Models 310-14-E or 450-14-D) | H. Not to exceed 12,000 curies per source |

Condition 9. is amended to add:

9. Authorized use

- H. For use in an irradiator for the processing or irradiation of materials, excluding explosives, flammables and corrosive materials.

Condition 12. is amended to read:

12. Licensed material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Officers, George R. Dietz or Jonathan Young.

Condition 15. is amended to read:

15. 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 June 29, 1979, and letters dated November 27, 1979, March 28, 1980, April 9, 1980, July 31, 1984, and August 2, 1984. 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 07 SEP 1984

Original Signed By:

By John E. Glenn

Nuclear Materials and Safeguards Branch
Region I

King of Prussia, Pennsylvania 19406

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