

UNITED STATES
ATOMIC ENERGY COMMISSION

LICENSE AMENDMENT
FOR
DELIVERY OF RADIOACTIVE MATERIAL
TO A
CARRIER FOR TRANSPORT

Pursuant to the Atomic Energy Act of 1954 and Title 10, Chapter 1, Code of Federal Regulations, Part 30, "Rules of General Applicability to Licensing of Byproduct Material," Part 70, "Special Nuclear Material," as appropriate, and Part 71, "Packaging of Radioactive Material for Transport," the following amendment to the license identified below is hereby issued, authorizing the licensee to deliver radioactive material to a carrier for transport, and is subject to the conditions specified in that license and to the conditions specified below:

LICENSEE	
1. Name: Isomedix Incorporated	3. License No. <u>29-15364-01</u> Amendment No. <u>71-1</u>
2. Address: Post Office Box 177 Parsippany, New Jersey 07054	4. Package Identification No. USA/9013/B()L

CONDITIONS

5. (a) Packaging

(1) Model Number

521

(2) Description

The package is a cylindrical, steel-encased, lead filled, weldment consisting of two main units, the biological shield and a movable rotor. The main biological shield has a 5/8 inch outer carbon steel wall and a 3/8 inch thick inner stainless steel wall. A stationary center core is part of the main shield and is constructed of 3/8 inch thick stainless steel material. The movable rotor unit contains three specimen chambers spaced 120° apart. It consists of a 3/8 inch thick stainless steel housing filled with lead and

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5. (a) (2) Description
(Continued)

rotates around the center core. Within the main shield are three line sources, located 120° apart about the center of the irradiation position. The package is 36-1/2 inches in diameter by 40 inches long. The entire package is surrounded by a metal heat shield which is bolted to the shipping pallet.

(3) Drawings

The packaging is constructed in accordance with Radiation International, Inc., Drawing Nos.

80017, Rev. B	Irradiator
400229, Rev. C	Cover Assembly, Rotor Housing
400230, Rev. B	Housing, Rotor
400231, Rev. A	Rotor Assembly
400232, Rev. A	Base Assembly
400261, Rev. A	Irradiator Shipping Assembly
400265, Rev. A	Heat Shield

(b) Contents

(1) Type and form
of material

Doubly encapsulated, stainless steel, cylindrical, Cs-137 sources, as shown on Radiation International, Inc. Drawing No. 100591 (ORNL SK342).

(2) Maximum quantity
of material per
package

46,800 curies of Cs-137

6. The package authorized by this amendment is hereby approved for use under the general license provisions of Paragraph 71.12(b) of 10 CFR Part 71.

REFERENCES

Licensee's application dated January 14, 1974, requesting approval to deliver byproduct material to a carrier for transport in the Model 521 shipping container.

FOR THE U.S. ATOMIC ENERGY COMMISSION

Charles E. MacDonald
Charles E. MacDonald, Chief
Transportation Branch
Directorate of Licensing

Date of Amendment APR 13 1974