

March 5, 2009

John J. Miller
Radiation Safety Officer
International Isotopes, Inc.
4137 Commerce Circle
Idaho Falls, ID 83401

SUBJECT: AUTHORIZATION FOR LIMITED SHIPMENTS IN THE MODEL
NO. 5979 PACKAGE, CERTIFICATE OF COMPLIANCE NO. 5979 –
REVISION 1

Dear Mr. Miller:

As requested by your application dated February 27, 2009, and pursuant to 10 CFR Part 71, Certificate of Compliance No. 5979, for the Model No. 5979 package, is amended to authorize the following limited shipments, subject to the conditions listed below.

1. Packaging. Model No. 5979 packagings, conforming to Alpha-Omega Services, Inc. (AOS), Drawing Nos.: 0094, Rev. 1; 0095, Rev. 0; 0096, Rev. 0; and 0097, Rev. 1.
2. Contents
 - (a) Type and form of material

Cobalt-60 as sealed sources that meet the requirements of special form radioactive material.
 - (b) Maximum quantity of material per package

7,000 curies and 110 watts decay heat.
3. The Model No. 5979 packagings are limited to Serial Nos. AOS I, and AOS II Cask/IIIA Overpack and Pallet.
4. Shipment must be by truck as exclusive use shipment.
5. For any package shipped under this approval that contains greater than a Type A quantity of radioactive material, the shipment must be subject to continuous and active monitoring.
6. In addition to the requirements of Subpart G of 10 CFR Part 71:
 - (a) Each package must meet the Maintenance Inspection Program, as provided in the AOS application dated February 9, 2009 [ADAMS Accession No. ML090570576]; and

- (b) The package must be prepared for shipment in accordance with the Operating Instructions, as provided in the AOS application dated February 9, 2009.
7. Authorization is for a maximum of 48 shipments, and expires October 31, 2010.

All other conditions of Certificate of Compliance No. 5979 remain the same. International Isotopes, Inc., has been issued a Quality Assurance Program Approval for Radioactive Material Packages No. 0929 under the provisions of 10 CFR Part 71.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Eric J. Benner, Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-5979
TAC No. L24317

Enclosure: Safety Evaluation Report

cc w/encl: R. Boyle, Department of Transportation

- (b) The package must be prepared for shipment in accordance with the Operating Instructions, as provided in the AOS application dated February 9, 2009.

7. Authorization is for a maximum of 48 shipments, and expires October 31, 2010.

All other conditions of Certificate of Compliance No. 5979 remain the same. International Isotopes, Inc., has been issued a Quality Assurance Program Approval for Radioactive Material Packages No. 0929 under the provisions of 10 CFR Part 71.

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**SAFETY EVALUATION REPORT
DOCKET NO. 71-5979
MODEL NO. 5979 PACKAGE
INTERNATIONAL ISOTOPES, INC.
AUTHORIZATION FOR LIMITED SHIPMENTS, REVISION 1**

SUMMARY

By application dated February 27, 2009, International Isotopes, Inc., requested a revision to the authorization for limited shipments in the Model No. 5979 packages beyond the package authorization expiration date of October 1, 2008.

Based on the statements and representations in the application, the staff agrees that the extension of use of the package, with the additional conditions stated below, meets the requirements of 10 CFR Part 71.

BACKGROUND

NRC amended the regulations in 10 CFR Part 71, effective October 1, 2004, to be compatible with the 1996 edition of the International Atomic Energy Agency (IAEA), "Regulations for the Safe Transport of Radioactive Material" (TS-R-1, as amended in 2000). As a result, certain transportation packages that are compatible to the IAEA 1967 edition will no longer be authorized for use under the 10 CFR Part 71 general license after October 1, 2008.

EVALUATION

By application dated December 22, 2008, International Isotopes, Inc., requested authorization to use Model No. 5979 packages beyond the package authorization expiration date of October 1, 2008. International Isotopes submitted supplemental information by email dated December 31, 2008. International Isotopes provided the information as described in U.S. Nuclear Regulatory Commission, Regulatory Issue Summary 2008-18, "Information on Requests for Extending Use of Expiring Transportation Packages." The package was authorized for transport by NRC letter dated January 6, 2009 [ML090080060], which amended Certificate of Compliance No. 5979, for the Model No. 5979 package, to authorize limited shipments beyond the package authorization expiration date of October 1, 2008.

International Isotopes, Inc., submitted a revision request on February 27, 2009, to further restrict the packaging serial numbers authorized for use, and to update the referenced package drawings, and operating and maintenance instructions. This revision is required to ensure use of the package conforms to changes initiated by the holder of Certificate of Compliance No. 5979, Alpha-Omega Services, Inc. (AOS).

CONDITIONS

Based on the statements and representations in the application, authorization is given for the transport of Type B quantities of radioactive material by International Isotopes Inc., using Model No. 5979 packages with the following conditions:

1. Packaging. Model No. 5979 packagings, conforming to Alpha-Omega Services, Inc. (AOS), Drawing Nos.: 0094, Rev. 1; 0095, Rev. 0; 0096, Rev. 0; and 0097, Rev. 1.
2. Contents
 - (a) Type and form of material

Cobalt-60 as sealed sources that meet the requirements of special form radioactive material.
 - (b) Maximum quantity of material per package

7,000 curies and 110 watts decay heat.
3. The Model No. 5979 packagings are limited to Serial Nos. AOS I, and AOS II Cask/IIIA Overpack and Pallet.
4. Shipment must be by truck as exclusive use shipment.
5. For any package shipped under this approval that contains greater than a Type A quantity of radioactive material, the shipment must be subject to continuous and active monitoring.
6. In addition to the requirements of Subpart G of 10 CFR Part 71:
 - (a) Each package must meet the Maintenance Inspection Program, as provided in the AOS application dated February 9, 2009 [ADAMS Accession No. ML090570576]; and
 - (b) The package must be prepared for shipment in accordance with the Operating Instructions, as provided in the AOS application dated February 9, 2009.
7. Authorization is for a maximum of 48 shipments, and expires October 31, 2010.

CONCLUSIONS

Based on the statements and representations in the International Isotopes Inc., application dated February 27, 2009, the staff agrees that the use by International Isotopes Inc., of the Model No. 5979 package meets the requirements of 10 CFR Part 71, subject to the conditions listed above.

Issued on 3/05/09.