

September 28, 2009

Mr. John J. Miller
International Isotopes, Inc.
4137 Commerce Circle
Idaho Falls, ID 83401

SUBJECT: EXTENSION OF USE OF DOT SPECIFICATION 20WC-5 PACKAGE

Dear Mr. Miller:

As requested by your application dated August 03, 2009, and pursuant to 10 CFR Part 71, this letter constitutes authorization for the transport of Type B quantities of radioactive material in DOT Specification 20WC-5 packages with the following conditions:

1. All shipments must be made in accordance with DOT Special Permit No. DOT-SP 14728, dated May 26, 2009.
2. The packaging and contents are as described in International Isotopes, Inc., application dated August 03, 2009.
3. This authorization is to not exceed 16 shipments, and expires September 30, 2010.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

Steven L. Baggett, Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No.: 71-9345
TAC No.: L24360

Enclosure: Safety Evaluation Report

cc: R. Boyle, Department of Transportation

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SAFETY EVALUATION REPORT
DOCKET NO. 71-9345
DOT SPECIFICATION 20WC-5 PACKAGE
INTERNATIONAL ISOTOPES, INC.

SUMMARY

By application dated August 03, 2009, International Isotopes, Inc., requested authorization to use a DOT Specification 20WC-5 package beyond the package authorization expiration date of October 1, 2008.

Based on the statements and representations in the application dated August 03, 2009, the staff finds 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 were no longer authorized for use under the 10 CFR Part 71 general license after October 1, 2008.

In their application dated September 26, 2008, International Isotopes, Inc., requested authorization to use a DOT Specification 20WC-5 package beyond the expiration date of October 1, 2008. International Isotopes, Inc., supplied 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 October 20, 2008 [ML082940556], and by Special Permit issued by the Department of Transportation (DOT), DOT-SP 14728, dated October 7, 2008, allowing continued use of the packaging until September 30, 2009. International Isotopes, Inc., in the September 26, 2008, application, anticipated that the packaging which would replace the DOT Specification 20WC-5 packaging would be available for use prior to September 30, 2009.

EVALUATION

By application dated August 03, 2009, International Isotopes, Inc., requested authorization for an extension to their approval for use of the DOT Specification 20WC-5 package beyond the package authorization expiration date of October 1, 2008. The packaging design intended to replace the DOT Specification 20WC-5 packaging, was submitted to the NRC for review and approval under Docket No. 71-9316, by application dated June 19, 2009. International Isotopes, Inc., requested continued use of the DOT Specification 20WC-5 packaging until September 30, 2010, to support continued cobalt-60 source manufacturing activities until the replacement packaging is authorized and available for use.

DOT SPECIAL PERMIT

On May 26, 2009, the U.S. Department of Transportation issued Special Permit No. DOT-SP 14728, to International Isotopes, Inc., to authorize up to 16 exclusive use transports of cobalt-60 in DOT 20WC-5 Specification Packaging Serial No. 2228, containing DOT Specification 2R Serial No. INIS-2R-1 and the tungsten/lead shield insert referred to as the INIS-2 Isotope Transfer Container. This permit expires September 30, 2010.

CONDITIONS

Based on the statements and representations in the application, authorization is granted for the transport of Type B quantities of radioactive material by International Isotopes, Inc., using DOT Specification 20WC-5 package with the following conditions:

1. All shipments must be made in accordance with DOT Special Permit No. DOT-SP 14728, dated May 26, 2009.
2. The packaging and contents are as described in International Isotopes, Inc., application dated August 03, 2009.
3. This authorization is to not exceed 16 shipments, and expires September 30, 2010.

CONCLUSIONS

Based on the statements and representations in the International Isotopes, Inc., application dated August 3, 2009, the staff finds that the use by International Isotopes, Inc., of the DOT Specification 20WC-5 package meets the requirements of 10 CFR Part 71, subject to the conditions listed above.

Issued with letter to J. Miller,
dated September 28, 2009.