

EXPORT/IMPORT LICENSE

NRC FORM 250P (12/05)

United States of America
U.S. Nuclear Regulatory Commission

NRC LICENSE NO.: IBP0036

LICENSE EXPIRES: April 30, 2007

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EXPORT/IMPORT LICENSEE

PharmaFrontiers Corp.
2635 North Crescent Ridge Drive
The Woodlands, TX 77381

ATTN: Donna R. Rill

APPLICANT'S REF. NO.: Application dtd. 02/20/06

ULTIMATE FOREIGN CONSIGNEE(S)

NONE

INTERMEDIATE CONSIGNEE(S) IN FOREIGN
COUNTRY(IES) AND/OR IN THE U.S.

NONE

OTHER PARTY(IES) TO EXPORT/IMPORT

MDS Nordion
447 March Road
Ottawa, Ontario K2K 1X8
Canada

COUNTRY(IES) OF ULTIMATE DESTINATION: United States of America.

DESCRIPTION OF 10 CFR PART 110, APPENDIX P, BYPRODUCT MATERIALS TO BE EXPORTED AND/OR IMPORTED
(NOTE: SEE PAGE 2 FOR DEFINITIONS OF CATEGORY 1 AND CATEGORY 2)

Category 2 quantities of Cs-137 contained in sealed sources used in self-shielded Gammacell 3000 for medical and non-medical purposes.


This license authorizes import only. Licensee is responsible for compliance with all applicable export, import, and/or other domestic regulatory requirements, including all terms and conditions of domestic materials license(s).

////////////////////////////////////END////////////////////////////////////

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THIS LICENSE IS INVALID UNLESS SIGNED BELOW
BY AUTHORIZED NRC REPRESENTATIVE


NAME AND TITLE: Margaret M. Doane, Deputy Director
Office of International Programs

DATE OF ISSUANCE: March 21, 2006

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Table 1: Appendix P to Part 110—Category 1 and Category 2 Radioactive Material Threshold Limits

| Radioactive Material | Category 1 | | Category 2 | |
|----------------------------|------------------------|-----------------------------|------------------------|-----------------------------|
| | Terabequerels (TBq) | Curies (Ci) ¹ | Terabequerels (TBq) | Curies (Ci) ¹ |
| Americium-241 | 60 | 1,600 | 0.6 | 16 |
| Americium-241/Be | 60 | 1,600 | 0.6 | 16 |
| Californium-252 | 20 | 540 | 0.2 | 5.4 |
| Curium-244 | 50 | 1,400 | 0.5 | 14 |
| Cobalt-60 | 30 | 810 | 0.3 | 8.1 |
| Cesium-137 | 100 | 2,700 | 1.0 | 27 |
| Gadolinium-153 | 1,000 | 27,000 | 10.0 | 270 |
| Iridium-192 | 80 | 2,200 | 0.8 | 22 |
| Plutonium-238 ² | 60 | 1,600 | 0.6 | 16 |
| Plutonium-239/Be2 | 60 | 1,600 | 0.6 | 16 |
| Promethium-147 | 40,000 | 1,100,000 | 400 | 11,000 |
| Selenium-75 | 200 | 5,400 | 2.0 | 54 |
| Strontium-90 (Y-90) | 1,000 | 27,000 | 10.0 | 270 |
| Thulium-170 | 20,000 | 540,000 | 200 | 5,400 |
| Ytterbium-169 | 300 | 8,100 | 3.0 | 81 |

Calculation of Shipments Containing Multiple Sources or Radionuclides:

The "sum of fractions" methodology for evaluating combinations of radionuclides being transported, is to be used when import or export shipments contain multiple sources or multiple radionuclides. The threshold limit values used in a sum of the fractions calculation must be the metric values (i.e., TBq).

I. If multiple sources and/or multiple radionuclides are present in an import or export shipment, the sum of the fractions of the activity of each radionuclides must be determined to verify the shipment is less than the Category 1 or 2 limits of Table 1, as appropriate. If the calculated sum of the fractions ratio, using the following equation, is greater than or equal to 1.0, then the import or export shipment exceeds the threshold limits of Table 1 and the applicable security provisions of this part apply.

II. Use the equation below to calculate the sum of the fractions ratio by inserting the actual activity of the applicable radionuclides or of the individual sources (of the same radionuclides) in the numerator of the equation and the corresponding threshold activity limit from the Table 1 in the denominator of the equation. Ensure the numerator and denominator values are in the same units and all calculations must be performed using the TBq (i.e., metric) values of Table 1.

R1 = activity for radionuclides or source number 1

R2 = activity for radionuclides or source number 2

RN = activity for radionuclides or source number n

AR1 = activity limit for radionuclides or source number 1

AR2 = activity limit for radionuclides or source number 2

ARN = activity limit for radionuclides or source number n

$$\sum_1^n \left[\frac{R_1}{AR_1} + \frac{R_2}{AR_2} + \frac{R_n}{AR_n} \right] \geq 1$$

NOTIFICATIONS: The notifications required by 10 CFR 110.50(b)(4) are to be emailed to hoo1@nrc.gov (preferred method) or faxed to 301-816-5151. In the subject line of the email or on the fax cover page include: "10 CFR 110.50(b)(4) Notification." To contact someone in the Operations Center, use the same e-mail address or call 301-816-5100. The contact information is current at the time of license issuance. Difficulties notifying the U.S. Nuclear Regulatory Commission must be promptly reported to the Office of International Programs' Import/Export licensing staff.

¹ The values to be used to determine whether a license is required are given in TBq. Curie (Ci) values are provided for practical usefulness only and are rounded after conversion.

² The limits for Pu-238 and Pu-239/Be in this table apply for imports to the U.S. The limits for exports of Pu-238 and Pu-239/Be can be found in § 110.21.