

EXPORT/IMPORT LICENSE

NRC FORM 250P (12/05)

United States of America
U.S. Nuclear Regulatory Commission

NRC LICENSE NO.: CBP0003-03

LICENSE EXPIRES: December 31, 2010

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Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the Nuclear Regulatory Commission issued pursuant thereto, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued to the licensee authorizing the import/export of the materials and/or production or utilization facilities listed below, subject to the terms and conditions herein. This license is only valid if the licensee maintains the requisite NRC or Agreement State domestic licenses.

<p align="center">EXPORT/IMPORT LICENSEE</p> <p>MDS Nordion 447 March Road Ottawa, Ontario K2K 1X8 Canada</p> <p>ATTN: Marc-Andre Charette</p> <p>APPLICANT'S REF. NO.: Application dtd 04/26/06</p>	<p align="center">ULTIMATE FOREIGN CONSIGNEE(S)</p> <p>MDS Nordion 447 March Road Ottawa, Ontario K2K 1X8 Canada</p>
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<p align="center">INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) AND/OR IN THE U.S.</p> <p align="center">NONE</p>	<p align="center">OTHER PARTY(IES) TO EXPORT/IMPORT</p> <p>For imports into the United States, parties to this license (recipients/ultimate consignees in the United States) are listed on Pages 3 - 4.</p>
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COUNTRY(IES) OF ULTIMATE DESTINATION: Canada and 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)

██████████ quantity of Co-60 contained in a sealed source used in irradiators by the gamma processing industry for the sterilization of medical disposables, food, and consumer products, is authorized for import and export from and to MDS Nordion (Canada).

MDS Nordion and each United States party (recipient or ultimate consignee) are responsible for compliance with all applicable import and other domestic regulatory requirements, including all terms and conditions of domestic materials licenses.

Licensee is exempt from the requirement in 10 CFR §110.53(a) to maintain an office within the United States.

NOTE: This license is amended to add 45) STERIS Isomedix Services, Lot 3, Macco Industrial Park, State Road 690, Km 1.7, Barrio Sabana Hoyos, Vega Alta, Puerto Rico, as 'Other Party(ies) to Export/Import'.

Neither this license or any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974.

This license is subject to the right of recapture or control by Section 108 of the Atomic Energy Act of 1954, as amended, and to all of the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the U.S. Nuclear Regulatory Commission.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW
BY AUTHORIZED NRC REPRESENTATIVE

Margaret M. Doane

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

DATE OF ISSUANCE: June 8, 2006

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/Be ²	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.

OTHER PARTY(IES) TO EXPORT/IMPORT:
(Name and Addresses of Consignees for Imports)

1. SteriGenics International
1700 North Airport Road
West Memphis, Arkansas 72301
2. General Electric Company, Vallecitos Nuclear Center
6705 Vallecitos Road
Pleasanton, CA 94586
3. SteriGenics International, Inc.
344 Bonnie Circle
Corona, CA 92880
4. SteriGenics International, Inc.
5900 Obata Way
Gilroy, CA 95020
5. SteriGenics International, Inc.
2311 Lincoln Avenue
Hayward, CA 94545
6. SteriGenics International, Inc.
1401 Morgan Circle
Tustin, CA 92680
7. STERIS Inc.
dba STERIS Isomedix Services
1000 S. Sarah Place
Ontario, CA 91764
8. Food Technology Service, Inc.
502 Prairie Mine Road
Mulberry, FL 33860
9. Tyco Healthcare Group, LP
Tyco/Healthcare/Kendall Division
2010 East International Speedway Blvd.
DeLand, FL 32724
10. Sterigenics U.S., Inc. (Location 1)
711 East Cooper Court
Schaumburg, IL 60173-4537

Sterigenics U.S., Inc. (Location 2)
1003 Lakeside Dr.
Gurnee, IL 60031-2489
11. STERIS Inc. (Location 1)
1880 Industrial Drive
Libertyville, IL 60048-2403

STERIS Inc. (Location 2)
2500 Commerce Drive
Libertyville, IL 60048-9439
12. STERIS Inc.
7823 Nagle Avenue
Morton Grove, IL 60053
13. Uniformed Services University of the Health Sciences
Armed Forces Radiobiology Research Institute
8901 Wisconsin Avenue
Bethesda, MD 20889-5603
14. Terumo Medical Corporation
950 Elkton Boulevard
Elkton, MD 21921
15. University of Massachusetts Lowell
600 Suffolk Street
Lowell, MA 01854
16. STERIS Isomedix Services
435 Whitney Street
Northborough, MA 01532
17. Becton, Dickinson and Company
1862, 10th Avenue
Columbus, NE 68601
18. Becton Dickinson and Company
1329 West Highway 6
Holdrege, NE 68949-0860
19. Becton Dickinson Infusion Therapy Systems, Inc.
150 South 1st Avenue
Broken Bow, NE 68822
20. Tyco Healthcare Group LP
1222 Sherwood Road
P.O. Box 1169
Norfolk, NE 68702-1169
21. Isomedix Operations, Inc.
STERIS Isomedix Services
9 Apollo Drive
Whippany, NJ 07981
22. Sterigenics East Corporation
108 Lake Denmark Road
Rockaway, NJ 07866-4317
23. Sterigenics East Corporation
75 Tilbury Road
Salem, NJ 08079

