

<b>NRC FORM 7</b> (5-2003) 10 CFR 110		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>		APPROVED BY OMB: NO. 3150-0027		EXPIRES: 05/31/2006		
<p style="text-align: center;"><b>APPLICATION FOR LICENSE TO EXPORT NUCLEAR MATERIAL AND EQUIPMENT</b></p> <p style="text-align: center;">(See Instructions on Reverse)</p>								
1. APPLICANT'S USE		a. DATE OF APPLICATION <b>October 19/05</b>		b. APPLICANT'S REFERENCE		2. NRC USE		
						a. DOCKET NUMBER <b>CBP 0003</b>		
3. APPLICANT'S NAME AND ADDRESS								
a. NAME <b>MDS Nordion</b>								
b. STREET ADDRESS (Facility Site) <b>447 March Road</b>								
c. CITY <b>Ottawa</b>		d. STATE <b>Ontario</b>		e. ZIP CODE <b>K2K 1P7</b>		4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier)		
f. TELEPHONE NUMBER <b>(613) 592-3400</b>		g. FAX <b>(613) 592-2006</b>		h. E-MAIL <b>MarcAndre.Charette@mndinc.com</b>		a. NAME <b>Various sites, please see Application</b>		
5. FIRST SHIPMENT SCHEDULED <b>Dec 28 / 05</b>		6. FINAL SHIPMENT SCHEDULED <b>Ongoing</b>		7. APPLICANT'S CONTRACTUAL DELIVERY DATE <b>May</b>		b. STREET ADDRESS <b>Application</b>		
						c. CITY <b>Application</b>		
						d. STATE <b>Application</b>		
						e. ZIP CODE <b>Application</b>		
8. PROPOSED LICENSE EXPIRATION DATE <b>Dec 31 / 2010</b>		9. CONTRACT NO.						
10. ULTIMATE FOREIGN CONSIGNEE								
a. NAME <b>MDS Nordion</b>								
b. STREET ADDRESS (Facility Site) <b>447 March Road</b>								
c. CITY <b>Ottawa</b>				d. COUNTRY <b>Canada</b>				
11. ULTIMATE END USE (Include plant or facility name) <b>MDS Nordion manufactures the sealed sources and devices and will accept return sources from customers for inspections, disposal, recycling</b>								
11a. DATE REQUIRED <b>as needed</b>								
12. INTERMEDIATE FOREIGN CONSIGNEE								
a. NAME								
b. STREET ADDRESS (Facility Site)								
c. CITY				d. COUNTRY				
13. INTERMEDIATE END USE								
13a. DATE REQUIRED								
14. INTERMEDIATE FOREIGN CONSIGNEE								
a. NAME								
b. STREET ADDRESS (Facility Site)								
c. CITY				d. COUNTRY				
15. INTERMEDIATE END USE								
15a. DATE REQUIRED								
16. COM CODE		17. DESCRIPTION (Include chemical and physical form of nuclear material; give dollar value of nuclear equipment and components)			18. MAX. ELEMENT WEIGHT		19. MAX. WT. %	
		<b>Cobalt 60 Element</b>						
							20. MAX. ISOTOPE WEIGHT <b>per package Multiple shipments and packages</b>	
							21. UNIT	
22. FOREIGN OBLIGATIONS BY COUNTRY AND PERCENTAGE (Use separate sheet if necessary)								
<b>N/A</b>								
23. ADDITIONAL INFORMATION ON CONSIGNEES, END USES, AND PRODUCT DESCRIPTION (Use separate sheet if necessary)								
<b>Please see attached application.</b>								
24. The applicant certifies that this application is prepared in conformity with Title 10, Code of Federal Regulations; and that all information in this application is correct to the best of his/her knowledge.								
25. AUTHORIZED OFFICIAL				SIGNATURE <b>Marc-André Charette</b>		b. TITLE <b>Manager, Regulatory Affairs</b>		

## **Application for License to Export and Import Byproduct Material**

### **Background**

MDS Nordion is the importer and exporter of over 70% of the high activity sealed sources used in Irradiators entering or leaving the United States. High activity Cobalt 60 sealed sources are used by the gamma processing industry for the sterilization of medical disposables, food and consumer products. The demand for sterile products never ceases. It has been estimated that some 80% of all surgeon's gloves have been sterilized using gamma irradiation technology. The healthcare community and society at large depend on the sterilizing applications of cobalt-60 to prevent the spread of infection and disease. Cobalt-60 is used to sterilize some 45% of the disposable medical supplies and a vast array of consumer products.

Just-in-time manufacturers of medical supplies depend upon a reliable supply of this radioisotope. Cobalt-60 is widely used to sterilize many of the products used in operating suites, hospitals and clinics worldwide, such as sutures, gloves, gowns, catheters and syringes. Gamma irradiation technology prevents disease as it virtually eliminates pathogens and bacteria that may cause infection or disease. Many products found on the shelves of pharmacies have been sterilized using this technology, such as contact lens solution and bandages, as well as cosmetics and hygiene products.

More than 50 irradiators, the facilities that provide the sterilizing process, have been installed in the United States. Every year, hundreds of millions of cubic meters of health care supplies are sterilized with gamma irradiation. There are only two foreign suppliers of Cobalt-60 and the United States depends on importers of this material.

MDS Nordion is requesting a broad scope specific license to allow multiple imports and of byproduct material, Cobalt 60, to multiple locations in the United States and exports to MDS Nordion location in Ottawa, Canada, for a period of at least five years.

### **Applicant's Name and Address**

Marc-Andre Charette  
MDS Nordion  
447 March Road  
Ottawa, Ontario  
K2K 1X8  
Canada  
Telephone: (613) 592-3400 ext. 2421  
Fax: (613) 592-2006  
Email: MarcAndre.Charette@mdsinc.com

## **Supplier's Name and Address**

### **Imports**

For imports the supplier is the same as the applicant, MDS Nordion.

### **Exports**

For export the various licensees listed in appendix A, may export sources back to MDS Nordion.

## **Country of Origin for Imports**

Cobalt 60 sealed sources are manufactured in Canada

## **Name and Addresses of Consignees for Imports**

Industrial Irradiator Sites, listed by States order.

1. SteriGenics International  
1700 North Airport Road  
West Memphis, Arkansas
2. General Electric Company, Vallecitos Nuclear Center  
6705 Vallecitos Road  
Pleasanton, CA
3. Sterigenics International, Inc.  
344 Bonnie Circle  
Corona, CA
4. Sterigenics International, Inc.  
5900 Obata Way  
Gilroy, CA, 95020
5. Sterigenics International, Inc.  
2311 Lincoln Avenue  
Hayward, CA
6. Sterigenics International, Inc.  
1401 Morgan Circle  
Tustin, CA
7. STERIS Inc.  
dba Steris Isomedix Services  
1000 S. Sarah Place  
Ontario, CA

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  
Location 2: 1003 Lakeside Dr.  
Gurnee, IL
11. STERIS, Inc.  
Location 1: 1880 Industrial Drive  
Libertyville, IL  
Location 2: 2500 Commerce Drive  
Libertyville, IL
12. Uniformed Services University of the Health Sciences  
Armed Forces Radiobiology Research Institute  
8901 Wisconsin Avenue  
Bethesda, Maryland
13. Terumo Medical Corporation  
950 Elkton Boulevard  
Elkton, Maryland, 21921
14. University of Massachusetts Lowell  
600 Suffolk Street  
Lowell, Massachusetts
15. STERIS Isomedix Services  
435 Whitney Street  
Northborough, Massachusetts
16. Becton Dickinson and Company  
1329 West Highway 6  
Holdrege, NE, 68949-0860
17. Becton Dickinson Infusion Therapy Systems Inc.  
150 South 1<sup>st</sup> Avenue  
Broken Bow, NE, 68822
18. Tyco Healthcare Group LP  
1222 Sherwood Road  
P.O. Box 1169  
Norfolk, NE, 68702-1169

19. Isomedix Operations, Inc.  
STERIS Isomedix Services  
9 Apollo Drive  
Whippany, New Jersey
20. Sterigenics East Corporation  
108 Lake Denmark Road  
Rockaway, New Jersey
21. Sterigenics East Corporation  
75 Tilbury Road  
Salem, New Jersey
22. Ethicon Endo Surgery  
3801 University Blvd, SE  
Albuquerque, New Mexico, 87125
23. Sandia National Laboratories  
Operated for the U.S. Department of Energy by Sandia Corporation  
Albuquerque, New Mexico, 87185
24. Isomedix Operations, Inc.  
23 Elizabeth Drive  
Village of Chester, NY, 10918
25. Pall Corporation  
225 Marcus Boulevard  
Hauppauge, New York, 11788-3799
26. Hospira Incorporated  
Highway 301 North  
Rocky Mount, NC, 27802-2226
27. Sterigenics U.S., Inc.  
10811 Withers Cove Park Drive  
Charlotte, NC, 28273
28. Sterigenics East Corporation  
1148 Porter Avenue  
Haw River, NC, 27258
29. Sterigenics U.S., Inc.  
305 Enterprise Drive  
Westerville, OH

30. Isomedix Operations, Inc.  
4405 Marketing Place  
Hamilton/33 Industrial Park  
Groveport, OH
31. Bausch & Lomb  
8507 Pelham Road  
Greenville, SC, 29615
32. BD Vacutainer Systems  
1575 Airport Road  
Sumter, SC, 29153
33. STERIS, Isomedix Services  
2072 Southport Road  
Spartanburg, SC, 29306
34. 3M Company  
601 22<sup>nd</sup> Avenue So.  
Brookings, South Dakota, 57006
35. Cardinal Health 200 Inc.,  
Medical Products and Services Convertors Division  
One Butterfield Trail  
El Paso, TX, 79906
36. Sterigenics US Inc.  
Location 1: 3001 Wichita Court  
Fort Worth, TX  
Location 2: 3125 Wichita Court  
Fort Worth, TX
37. Isomedix Operations Inc.  
DBA Steris Isomedix Services  
Vista del Sol Industrial Park  
1435 Isomedix Place  
El Paso, TX
38. Molnlycke Health Care Inc.  
6300 North Desert Boulevard  
El Paso, TX, 79912
39. Tyco Healthcare – Kendall LP  
400 Maple Street  
Commerce, TX, 75428

40. Isomedix Operations, Inc.  
9120 South 150 East  
Sandy, Utah

41. Baxter Healthcare Corporation  
State Road 721, Km 0.3  
Aibonito, Puerto Rico

#### **Date of Proposed First and Last Shipments**

MDS Nordion is requesting a broad scope license to cover multiple shipments and destination for several years. The proposed first shipment is December 28, 2005 and shipments will be ongoing after that time. An expiry date of 5 years is requested.

#### **Description of the Material**

1. Maximum quantity of material (TBq) and its chemical and physical form.

Cobalt 60

Quantity: Maximum of [REDACTED] per package. Multiple shipments and packages.

Chemical Form: Element

Physical Form: [REDACTED]

2. Description of end use by all consignees.

- Used by the gamma processing industry for the sterilization of medical disposables, food and customer products.

#### **Imports Copies of Licensee's Authorization**

Please see Appendix A for copies of the irradiator licenses

#### **Exports Copy of MDS Nordion License**

Please find a copy of MDS Nordion license in Appendix B

1. Name of recipient

MDS Nordion

2. Recipient location

447 March Road

Ottawa, Ontario

Canada

3. Relevant radionuclides MDS Nordion is authorized to receive and possess

Cobalt 60

4. Use

MDS Nordion manufactures the sealed source and devices and will accept return sources from customers for inspection, disposal, recycling or reuse.

5. The expiration date of the MDS Nordion license.

October 31, 2015