

IMPORT AND EXPORT LICENSE

NRC FORM 250P (12/05)



United States of America
 Nuclear Regulatory Commission
 Washington, D.C. 20555

NRC LICENSE NO.: CBP6-3

LICENSE EXPIRES: October 1, 2007

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Pursuant to the Atomic Energy Act of 1954, as amended, and the regulations issued by the Nuclear Regulatory Commission (NRC) pursuant thereto, and in reliance on statements and representations heretofore made by the applicant/licensee, this license is hereby issued authorizing the licensee to import and/or export the byproduct materials 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 style="text-align: center;">LICENSEE</p> <p>Alpha - Omega Services, Inc. 9156 Rose Street ATTN: Cary Hedger Bellflower, California 90706</p> <p><small>APPLICANT'S REFERENCE: Application dtd 6/6/07</small></p>	<p style="text-align: center;">ULTIMATE FOREIGN CONSIGNEE(S)</p> <p style="text-align: center;">Listed on Page 3.</p>
<p style="text-align: center;">INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES) AND/OR IN THE U.S.</p> <p style="text-align: center;">NONE</p>	<p style="text-align: center;">OTHER PARTY(IES) TO IMPORT AND/OR EXPORT</p> <p style="text-align: center;">Listed on pages 3 and 4.</p>

COUNTRY(IES) OF ULTIMATE DESTINATION: Canada, Japan, and United States.

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

Import (maximum activity per shipment 244.44 TBq) and export (maximum activity per shipment 122.2 TBq) of Category 1 quantities of Cobalt-60, contained in sealed sources used in medical teletherapy devices, are authorized from and to MDS Nordion in Canada.

Import (maximum activity per shipment 44.4 TBq) and export (maximum activity per shipment 44.4 TBq) of Category 2 quantities of Iridium-192, contained in sealed sources used in medical brachytherapy devices, are authorized from and to Japan Radioisotope Association in Japan. Licensee is exempt from submitting information required by 10 CFR §110.32(d) and "pertinent documentation" required by 10 CFR §110.32(h) with its application for named and unnamed recipients {ultimate foreign consignee(s)} in foreign countries, until 24 hours prior to shipment. Licensee is responsible for compliance with all applicable import, export, and other domestic regulatory requirements, including all terms and conditions of domestic materials license(s).

License expiration date is based on October 1, 2007 expiration date of the State of California, Health and Human Services Agency, Radioactive Material License 3925-19, Amendment Number 28.

Licensee is responsible for ensuring that all end users of Cobalt-60 sources and Iridium-192 sources have obtained and hold valid and appropriate material possession licenses prior to receipt of any sealed sources containing radioactive material(s).

This license is amended to correct the address for Intermountain Medical Center, as 'Other Party(ies) to Import and/or Export.'

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.

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 Act, now or hereafter in effect and to all valid rules and regulations of NRC.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW
 BY AUTHORIZED NRC REPRESENTATIVE

Stephen Dembek

NAME AND TITLE: Stephen Dembek
 Acting Deputy Director
 Office of International Programs

DATE OF ISSUANCE: July 3, 2007

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

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

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.

ULTIMATE FOREIGN CONSIGNEE(S):

For import and export of 10 CFR §110 Appendix P Category 1 quantities of Cobalt-60:

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

For import and export of 10 CFR §110 Appendix P Category 2 quantities of Iridium-192:

Japan Radioisotope Association (JRIA)
28-45, Honkomagome 2-Chome, Bunkyo-ku
Tokyo 113-8941

OTHER PARTY(IES) TO IMPORT AND/OR EXPORT

1. Alpha-Omega Services, Inc.
1282 Starks Road
Edgerly, Louisiana 70668
2. Bryan Medical Center West
2300 South 16th Street
Lincoln, Nebraska 68506
3. Caelian Medical, LLC
800 Century Drive
Mechanicsburg, Pennsylvania 17055
4. Cedars-Sinai Hospital
San Vicente Blvd Suite L-2000
Los Angeles, California 90048
5. Central Mississippi Medical Center
1850 Chadwick Drive
Jackson, Mississippi 39204
6. Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, Ohio 44195
7. Cooper University Hospital
Three Cooper Plaza
Camden, New Jersey 08103
8. Froedtert Memorial Lutheran Hospital
9200 Wisconsin Avenue
Milwaukee, Wisconsin 53226
9. HealthSouth Doctors Hospital
5000 University Drive
Coral Gables, Florida 33146
10. Hoag Memorial Hospital Presbyterian
301 Newport Blvd.
Newport Beach, California 92658
11. Intermountain Medical Center
5121 South Cottonwood Drive
Salt Lake City, Utah 84157
12. Medical College of Georgia
1455 Laney Walker Blvd.
Augusta, Georgia 30912
13. Mid Michigan Medical Center
4005 Orchard Drive
Midland, Michigan 48670
14. Neurologic & Orthopedic of Chicago
4501 N. Winchester
Chicago, Illinois 60640

OTHER PARTY(IES) TO IMPORT AND/OR EXPORT

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| 15. Puerto Rico Medical Center
Intersection Moncillaos Ward
Rio Piedras
San Juan, Puerto Rico 00922 | 22. University of Virginia
Primary Care Center Bldg
1143 Lee Street & Park Place
Charlottesville, Virginia 22904-4322 |
| 16. Riverside Regional Medical Center
500 J Clyde Morris Blvd
Newport News, Virginia 23601 | 23. Wake Forest University School of Medicine
And NC Baptist Hospital
Medical Center Blvd
Winston-Salem, North Carolina 27157 |
| 17. Skyline Medical Center
3444 Dickerson Pike
Nashville, Tennessee 37207 | 24. Washington Hospital
2000 Mowry Avenue
Fremont, California 94538 |
| 18. St. Joseph Hospital
611 St. Joseph Avenue
Marshfield, Wisconsin 54449 | 25. Washington University School of Medicine
Barnes-Jewish Hospital CAM Bldg.
4540 Forest Park Parkway
St. Louis, Missouri 63108 |
| 19. St. Luke's Medical Center
2900 West Oklahoma Avenue
Milwaukee, Wisconsin 53201 | 26. West Virginia University Hospital
One Medical Center Drive
Morgantown, West Virginia 26506 |
| 20. St. Mary's Hospital
1216 SW 2 nd Street
Rochester, Minnesota 55902 | 27. Yale - New Haven Hospital
Radiosurgery Center
40 Temple Street
New Haven, Connecticut 06510 |
| 21. University of Pittsburgh Hospital
130 Desoto Street
Pittsburgh, Pennsylvania 15261 | |

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