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|---|--|--|---|---|---|--|---|
| <b>NRC FORM 7</b><br>(11-2012)<br>10 CFR 110  |  |  <b>U. S. NUCLEAR REGULATORY COMMISSION</b> |   | <b>APPROVED BY OMB: NO. 3150-0027</b>   |   | <b>EXPIRES: (11/30/2015)</b>   |   |
| <p style="text-align: center;"><b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)</b><br/>         (See Instructions on Pages 4 and 5)</p>  |  |  |   |   |   |  |   |
| <b>PART A. FOR NRC USE ONLY</b>   |  |  | <input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC |   |   | DATE RECEIVED<br>8-22-13   |   |
| LICENSE NUMBER<br>PXB 178.00  |  |  | DOCKET NUMBER<br>11006117   |   |   | ADAMS ACCESSION NUMBER   |   |
| <p style="text-align: center;"><b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS</b><br/>         (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)</p>  |  |  |   |   |   |  |   |
| 1. NAME AND ADDRESS OF APPLICANT/LICENSEE<br>JL SHEPHERD & ASSOCIATES<br>1010 ARROYO AVE<br>SAN FERNANDO, CA 91340  |  |  | 1a. NAME OF APPLICANT'S CONTACT<br>JL Shepherd                                    |   | 1b. APPLICANT'S REFERENCE NUMBER<br>11768 |  |   |
|   |  |  | 1c. PHONE NUMBER<br>8188982361  |   | 1d. FAX NUMBER<br>8183618095              |  |   |
|   |  |  | 1e. E-MAIL ADDRESS<br>info@jlshepherd.com   |   |   |  |   |
| 2. TYPE OF ACTION REQUESTED (Check One)   |  |  |   |   |   |  |   |
| <input checked="" type="checkbox"/> EXPORT (Parts B, C, E)  |  | <input type="checkbox"/> IMPORT (Parts B, D, E)  |   | <input checked="" type="checkbox"/> AMENDMENT/RENEWAL Current License Number:                           |   | <input type="checkbox"/> CONSENT REQUEST (Parts B, C) Current License Number:  |   |
| PXB 109.1   |  |  |   |   |   |  |   |
| 3. CONTRACT NUMBER(S)<br>N/A  |  | 4. FIRST SHIPMENT DATE<br>3/1/14   |   | 5. LAST SHIPMENT DATE<br>3/1/16   |   | 6. PROPOSED EXPIRATION DATE<br>3/1/16  |   |
| <p style="text-align: center;"><b>PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS</b><br/>         (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)</p>   |  |  |   |   |   |  |   |
| 7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT<br>NONE  |  |  | 8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)<br>NONE             |   |   | 9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)<br>See attached list for both Category 1 and Category 2 shipments. |   |
| 7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED   |  |  | 8a. INTERMEDIATE USE(S)   |   |   | 9a. ULTIMATE END USE(S)  |   |
| 10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT<br><br>SPECIAL FORM Co-60 and Cs-137 sources. The maximum activity for Co-60 sources will be 20,000 Ci or $7.4 \times 10^{14}$ Bq per source and for Cs-137 will be 2,600 Ci or $9.62 \times 10^{13}$ Bq/source.<br><br>All source will be shipped in authorized type B(U) packages. |  |  |   | 10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)<br><br>See additional info in page 3. |   | 10b. MAX ENRICHMENT OR WGT %<br><br>N/A  | 10c. MAX ISOTOPE WGT (KG)<br><br>See additional info in page 3. |
| 11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)  |  |  |   |   |   |  |   |

and 8/22/13  
 JLS

NRC FORM 7  
(11-2012)  
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

**APPLICATION FOR NRC EXPORT OR IMPORT  
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

|                                     |                                  |                        |   |
|-------------------------------------|----------------------------------|------------------------|---|
| LICENSE NUMBER<br><b>PXB 178.00</b> | DOCKET NUMBER<br><b>11006117</b> | ADAMS ACCESSION NUMBER | <input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC |
|-------------------------------------|----------------------------------|------------------------|---|

**PART D. TO BE COMPLETED FOR IMPORT LICENSES, AMENDMENTS, OR RENEWALS**

(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

|   |  |  |
|---|--|--|
| 12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT | 13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S) | 14. NAME(S) / ADDRESS(ES) OF ULTIMATE U. S. CONSIGNEE(S) |
|---|--|--|

|   |   |   |
|---|---|---|
| 12a. NRC EXPORT LICENSE NUMBER(S)<br><i>(if applicable)</i> | 13a. LICENSE NUMBER(S) / EXPIRATION DATE(S) | 14a. LICENSE NUMBER(S) / EXPIRATION DATE(S) |
|   | 13b. INTERMEDIATE USE(S)                    | 14b. ULTIMATE END USE(S)                    |

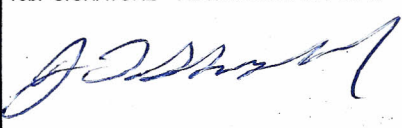
|  |   |                              |                           |
|--|---|------------------------------|---------------------------|
| 15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES | 15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) | 15b. MAX ENRICHMENT OR WGT % | 15c. MAX ISOTOPE WGT (KG) |
|--|---|------------------------------|---------------------------|

16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

**PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)**

|   |   |
|---|---|
| 17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | 17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|---|---|

**18. CERTIFICATION:** I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.

|  |   |                             |
|--|---|-----------------------------|
| 18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL<br>JL SHEPHERD, PRESIDENT | 18b. SIGNATURE -- AUTHORIZED OFFICIAL<br> | 18c. DATE<br><b>8/19/13</b> |
|--|---|-----------------------------|

*Handwritten initials and date:*  
MSP  
8/19/13

NRC FORM 7  
(11-2012)  
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR NRC EXPORT OR IMPORT  
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)

|                              |                          |                        |   |
|------------------------------|--------------------------|------------------------|---|
| LICENSE NUMBER<br>PXB 178.00 | DOCKET NUMBER<br>1100617 | ADAMS ACCESSION NUMBER | <input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC |
|------------------------------|--------------------------|------------------------|---|

ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

9.

Category 1 countries:

|             |              |
|-------------|--------------|
| Panama      | Argentina    |
| Guatemala   | Australia    |
| Chile       | Canada       |
| Singapore   | UK           |
| Malaysia    | Netherlands  |
| South Korea | Belgium      |
| Taiwan      | Germany      |
| China       | Austria      |
| Brazil      | Greece       |
| Sri Lanka   | South Africa |
| Turkey      |              |

Category 2 countries:

Spain  
Mexico  
Saudi Arabia  
Sweden

10a. Maximum activity per shipment for Category 1 Co-60 sources will be 40,000 Ci or  $14.8 \times 10^{14}$  Bq and for Category 2 Cs-137 sources 2,600 Ci or  $9.62 \times 10^{13}$  Bq.

10c. For 20,000 Ci or  $7.4 \times 10^{14}$  Bq Co-60 sources the maximum weight of the Co-60 will be 0.8 Kg and for 2,600 Ci. or  $9.62 \times 10^{13}$  Bq Cs-137 sources the maximum weight of Cs-137 will be 0.5 Kg.

Paul Jones  
JMS

# JL SHEPHERD & ASSOCIATES

1010 ARROYO AVE., SAN FERNANDO, CALIFORNIA 91340-1822

818-898-2361 FAX 818-361-8095

8/20/13

USNRC  
OFFICE of International Programs  
Mail Stop: 04E21  
11555 Rockville Pike  
Rockville MD 20852

Attn: Stephen Baker

Attached is our request for renewal/amendment of the J L Shepherd and Associates  
Export license PXB 109.1 as well as a check for \$5,500.00 as remittance.

Please call if we may provide additional information. We have listed the countries  
covered in our earlier correspondence eliminating Israel a named country.

Best regards,



J. L. Shepherd

*Rec'd 8-20-13  
JMS*