

**APPLICATION FOR LICENSE TO EXPORT
NUCLEAR MATERIAL AND EQUIPMENT**

Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the Records Management Branch (T-8 E8), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to Infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

(See Instructions on Reverse)

1. APPLICANT'S USE	a. DATE OF APPLICATION 02/23/06	b. APPLICANT'S REFERENCE	2. NRC USE	a. DOCKET NUMBER 1100 5605	b. LICENSE NUMBER XP001314
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3. APPLICANT'S NAME AND ADDRESS			4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier)		
a. NAME NSSI			a. NAME		
b. STREET ADDRESS (Facility Site) 5711 ETHERIDGE STREET			b. STREET ADDRESS		
c. CITY HOUSTON		d. STATE TX	e. ZIP CODE 77087		
f. TELEPHONE NUMBER 713-641-0391	g. FAX 713-641-6153	h. E-MAIL rdgallagher@nssihouston.com		c. CITY	
i. FIRST SHIPMENT SCHEDULED 05/01/06		j. FINAL SHIPMENT SCHEDULED 12/31/06		7. APPLICANT'S CONTRACTUAL DELIVERY DATE 01/01/2011*	8. PROPOSED LICENSE EXPIRATION DATE 05/01/06*
			9. CONTRACT NO. N/A		

10. ULTIMATE FOREIGN CONSIGNEE	
a. NAME ATTN: PEGGY HIRST RSO SHIELD SOURCE INCORPORATED	
b. STREET ADDRESS (Facility Site) RR#5 MUNICIPAL AIRPORT	
c. CITY PETERBOROUGH, ONTARIO	d. COUNTRY CANADA

11. ULTIMATE END USE (Include plant or facility name) RETURN OF MATERIAL TO ORIGINAL VENDOR	
11a. DATE REQUIRED	

12. INTERMEDIATE FOREIGN CONSIGNEE	
a. NAME NONE	
b. STREET ADDRESS (Facility Site)	
c. CITY	d. COUNTRY

13. INTERMEDIATE END USE NONE	
13a. DATE REQUIRED	

14. INTERMEDIATE FOREIGN CONSIGNEE	
a. NAME NONE	
b. STREET ADDRESS (Facility Site)	
c. CITY	d. COUNTRY

15. INTERMEDIATE END USE NONE	
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. %	20. MAX. ISOTOPE WEIGHT	21. UNIT
	HYDROGEN 3 (TRITIUM) ABSORBED ON DEPLETED URANIUM BED IN TYPE B (u) 3605D TRANSPORT CONTAINER <i>(5 grams/50,000 Ci per year for five years)</i>	5.08 GRAM	98%	5 GRAM	GRAM
		HYDROGEN GAS		3 (TRITIUM) GAS	

22. FOREIGN OBLIGATIONS BY COUNTRY AND PERCENTAGE (Use separate sheet if necessary)
NONE

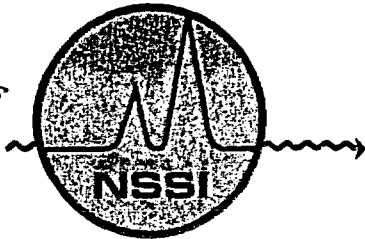
23. ADDITIONAL INFORMATION ON CONSIGNEES, END USES, AND PRODUCT DESCRIPTION (Use separate sheet if necessary)

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	a. SIGNATURE <i>[Signature]</i>	b. TITLE PRESIDENT NSSI
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* Per E-mail dated 3/16/2006



NSSI/SOURCES & SERVICES, INC.

P.O. BOX 34042 HOUSTON, TEXAS 77234
PH: (713) 641-0391 www.nssihouston.com FAX: (713) 641-6153

February 23, 2006

Attn: Steve Denbeck
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

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Dear Mr. Denbeck:

After discussing the Tritium importation from Canada with you, I spent some additional hours reading through 10CFR 110.

You had indicated that importation of the Tritium did not require a specific import permit as such import could be accomplished under the general licensure authorized by 110.20 and 110.27 for persons holding current specific licensure from NRC or an agreement state for the byproduct materials being imported.

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NSSI's application dated February 17, 2006 was for both import and export. The import was to be able to receive 50,000 curies of Tritium in not more than 6 shipments contained within Type B transport containers that have the Tritium absorbed on a depleted uranium Mark IV bed. The export was to allow the return of the transport container to Canada should NSSI not be able to remove the Tritium from the transport container in case of a mechanical malfunction and to be able to return the "empty" container after unloading the Tritium. (An "empty" container after unloading retains hundreds of Curies of Tritium).


Section 110.23 (6) limits export shipments to Canada under the general license provision to less than 40 Curies per item, less than 100 Curies per shipment, and less than 10,000 Curies per year. As NSSI would certainly be exporting greater than 40 curies as retained Tritium in each "empty" transport container returned to Canada, and potentially greater than 1000 Curies per shipment in case of the return of a full malfunctioning transport container and potentially greater than 10,000 Curies per year with the multiple shipments, it would appear that NSSI needs an export permit.

I have therefore attached a Form 7 to replace the letter application dated February 17, 2006. The Form 7 is requesting a permit for export only.

I am still not certain as to the fee that is due for this export permit. NSSI submitted a company check in the amount of \$1300.00 with the original application. Please utilize the same check as payment for this Form 7 export application. If the amount is incorrect, please advise.

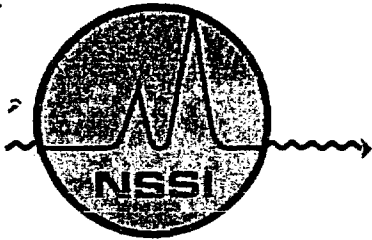
If I am in error in my interpretation of the regulations or you need additional information in order to proceed with issuance of an export permit, please advise at your earliest convenience. I can be reached at 713 641-0391.

Sincerely,


Robert D. Gallagher
President

RDG/vla
Ref. #0223602.let
Rdg 02236A1

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NSSI/SOURCES & SERVICES, INC.

P.O. BOX 34042 HOUSTON, TEXAS 77234
PH: (713) 641-0391 www.nssihouston.com FAX: (713) 641-6153

February 17, 2006

**Attn: Deputy Director
Office of International Programs
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001**

Dear Sir:

In accordance with the requirements of Title 10 of the Code of Federal Regulations, Chapter 1, Part 110, please accept this import/export license application for the importation/exportation of radioactive material.

The applicable fee for Commission review only appears to be \$1300.00. NSSI's company check #7655 in the amount of \$1,300.00 is attached.

In accordance with the requirements of 110.32, NSSI is providing the following information:

a. The applicant and importer/exporter of record will be:

**Name NSSI
Address 5711 Etheridge Street,
Houston, TX 77087
Tel 713 641-0391
Fax 713 641-6153
E rdgallagher@nssihouston.com**

b. The supplier will be:

**Name Attn: Peggy Hirst RSO
Company Shield Source Incorporated
Address RR#5 Municipal Airport
Peterborough, ON K9J6X6
Tel 705 743-6146
Fax 705 743-2942
Email phirst@shieldsource.com**

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- c. **The country of origin of the radioactive material is Canada. The Supplier is Shield Source Incorporated in Peterborough, Ontario Canada. The obligations attached to the material are as follows:**

The material:

- i) Shall be used exclusively for peaceful purposes and not for production of nuclear explosive devices.**
 - ii) Shall be used within the territory of the United States for processing and distribution to authorized users.**
 - iii) Shall not be used in any activity of nuclear fuel cycle not governed by IAEA safeguard provisions.**
 - iv) Shall not be copied, modified, re-exported or transferred to anybody without written permission of the Seller.**
- d. **There are no intermediaries involved with these shipments other than those providing transport related services.**
- e. **The initial 2006 shipment will be ready for shipment on May 1, 2006. The last shipment is scheduled to be before December 31, 2010.**
- f. **(1) The license application is for the importation of Hydrogen 3 (Tritium) absorbed on depleted uranium metal bed, comprised of pyrophoric uranium Mark IV, packaged in approved type B (u) 3605D container. A maximum of 6 shipments having a total quantity of 5 grams (50,000 Ci) to be shipped in compliance with Radioactive Material License L0-2991.**
The export application is for the return of the depleted uranium metal bed, Mark IV, packaged in approved type B (u) 3605D containers with a maximum of 6 shipments having a total quantity of 5 grams (50,000 Ci) in compliance with Radioactive Material License L0-2991.
- f. **(7) The end use of the Hydrogen 3 (Tritium) received will be for processing and distribution to authorized users for a myriad of uses ranging from labeling of organic compounds, and research and development.**

The date for the initial shipment is critical due to the limited availability of a transport container and of the Hydrogen 3 (Tritium) from Shield Source, the supplier. The other delivery dates are dependent on material and transport container availability from the supplier and may change to meet the purchaser's and/or supplier's requirements.

NSSI is permitted by the Texas Department of State Health Services for the possession of up to 9999 Curies of Hydrogen 3 (Tritium) in any form for processing and distribution to authorized recipients under Texas license L0-2991. The license is currently on timely renewal. A copy of the license and timely renewal letter are attached.

**NSSI would request that you review and issue the import license at your earliest convenience.
If you need any additional information or clarification, please contact me.**

Sincerely,


Robert D. Gallagher
President NSSI

RDG/vla
Ref. #0217605.let
Rdg 02176A5