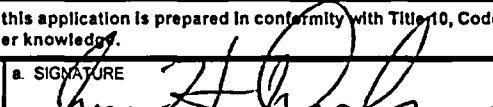


APPLICATION FOR LICENSE TO EXPORT NUCLEAR MATERIAL AND EQUIPMENT

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-6 E6), 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, NEOB-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 9/8/2005		b. APPLICANT'S REFERENCE 128098		2. NRC USE		a. DOCKET NUMBER 11 005577		b. LICENSE NUMBER XCOM1177	
3. APPLICANT'S NAME AND ADDRESS						4. SUPPLIER'S NAME AND ADDRESS (Complete if applicant is not supplier)					
a. NAME Wah Chang						a. NAME					
b. STREET ADDRESS (Facility Site) 1600 NE Old Salem Rd						b. STREET ADDRESS					
c. CITY Albany			d. STATE OR	e. ZIP CODE 97321		c. CITY			d. STATE	e. ZIP CODE	
f. TELEPHONE NUMBER (541) 926-4211		g. FAX (541) 926-6990		h. E-MAIL pat.skeahan@wa		c. CITY			d. STATE	e. ZIP CODE	
5. FIRST SHIPMENT SCHEDULED 02/01/2006		6. FINAL SHIPMENT SCHEDULED 12/15/2007		7. APPLICANT'S CONTRACTUAL DELIVERY DATE		8. PROPOSED LICENSE EXPIRATION DATE 12/30/2007		9. CONTRACT NO.			
10. ULTIMATE FOREIGN CONSIGNEE						11. ULTIMATE END USE (Include plant or facility name)					
a. NAME Qinshan Nuclear Power Plant, Phase 1						Fuel Bundles for Qinshan Nuclear Power Plant, Phase 1					
b. STREET ADDRESS (Facility Site) Haiyan County						11a. DATE REQUIRED					
c. CITY Zhejiang Province			d. COUNTRY China			13. INTERMEDIATE END USE					
12. INTERMEDIATE FOREIGN CONSIGNEE						Reduce Tubes for Fuel Cladding					
a. NAME Northwest Zircoccladding Co. Ltd.						13a. DATE REQUIRED					
b. STREET ADDRESS (Facility Site) No. 1 Taicheng Road, Shaanxi Province						15. INTERMEDIATE END USE					
c. CITY Baoji			d. COUNTRY China			Fuel Fabrication					
14. INTERMEDIATE FOREIGN CONSIGNEE						15a. DATE REQUIRED					
a. NAME Yibin Nuclear Fuel Component Factory											
b. STREET ADDRESS (Facility Site) Plant 812, Sichuan Province											
c. CITY Yibin			d. COUNTRY China								
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			
	Zircaloy 4 Trex \$1,740,000				30,000 Kgs.						
22. FOREIGN OBLIGATIONS BY COUNTRY AND PERCENTAGE (Use separate sheet if necessary)											
23. ADDITIONAL INFORMATION ON CONSIGNEES, END USES, AND PRODUCT DESCRIPTION (Use separate sheet if necessary) Wah Chang previously exported Zircaloy Trex to Northwest Zircoccladding for the same end use and end user on NRC XCOM1165. That license expired June 30, 2005.											
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 			b. TITLE Export Compliance Officer		

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Wah Chang
1600 NE Old Salem Road; P.O. Box 460, Albany, OR 97321-0460
Phone: (541) 926-4211 Fax: (541) 967-6990
Web site: www.wahchang.com

XCOM 1177
11005577

September 8, 2005

Deputy Director
Office of International Programs
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20555

Attached is a license application for export of Zirconium Trex tubes to Northwest Zircoclapping in China. I have included a check for \$2,400, an end use statement, a nuclear suppliers certification statement, and information on Yibin Nuclear Fuel Component Factory.

Please let me know if you have questions or need additional information. You can reach me by phone at 541-917-6712, Email to pat.skeahan@wahchang.com, or by Fax to 541-967-6990.

Sincerely,

Patricia Skeahan
Export Administrator

Attachments

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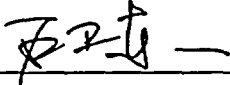
西北锆管有限责任公司

1. We certify that Zr-4 TREX which we imported from Wah Chang will be fabricated into cladding tubing. The final cladding tubing products will be only provided to Yibin Nuclear Fuel Element Plant and destined to Qinshan Nuclear Power Plant Phase I located in Haiyan County, Zhejiang Province, 314300 China.

2. We certify that items to be imported or replicas thereof, will not be used in nuclear explosive activities, unsafeguarded nuclear activities, or safeguarded and unsafeguarded nuclear fuel cycle activities, including research on or development, design, manufacture, construction, operation or maintenance of any of the following facilities, or components for such facilities:

- a. Facilities for the chemical processing of irradiated special nuclear or source material.
- b. Facilities for the production of heavy water.
- c. Facilities for the separation of isotopes of source and special nuclear material; or
- d. Facilities for the fabrication of nuclear reactor fuel containing

ULTIMATE CONSIGNEE AND PURCHASER:

Signature in ink: 
 (Signature of official of ultimate consignee and purchaser firm)

Type or print: Shi Wei Dong, Manager of Purchase and Sales
 (Name and title of official of ultimate consignee and purchaser firm)

Type or print: Northwest Zircocladding Co., Ltd.
 (Name of purchaser firm)

Date: 08/26/2005

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XCOM 1177

FORM BXA-711 FORM APPROVED: OMB NO. 0694-0088	U.S. DEPARTMENT OF COMMERCE Bureau of Export Administration <small>Information furnished herewith is subject to the provisions of Section 12(c) of the Export Administration Act of 1979, as amended, 50 U.S.C. app. 2411(c), and its unauthorized disclosure is prohibited by law.</small>	DATE RECEIVED (Leave Blank)
STATEMENT BY ULTIMATE CONSIGNEE AND PURCHASER		
1. ULTIMATE CONSIGNEE NORTHWEST ZIRCOCLADDING CO LTD. ADDRESS LINE 1 NO. 1 TAICHENG ROAD, BAOJI ADDRESS LINE 2 SHAANXI PROVINCE		CITY BAOJI COUNTRY P.R. CHINA POSTAL CODE 721074 TELEPHONE OR FAX 86-917 338888
2. DISPOSITION OR USE OF ITEMS BY ULTIMATE CONSIGNEE NAMED IN BLOCK 1 We certify that the items:		
A. <input type="checkbox"/> Will be used by us (as capital equipment) in the form in which received in a manufacturing process in the country named in Block 1 and will not be reexported or incorporated into an end product.		
B. <input checked="" type="checkbox"/> Will be processed or incorporated by us into the following product(s) <u>Zr4 TREX</u> to be manufactured in the country named in Block 1 for distribution in _____		
C. <input type="checkbox"/> Will be resold by us in the form in which received in the country named in Block 1 for use or consumption therein. The specific end-use by my customer will be _____		
D. <input type="checkbox"/> Will be reexported by us in the form in which received to _____		
E. <input type="checkbox"/> Other (describe fully) _____		
<small>NOTE: If BOX (D) is checked, acceptance of this form by the Bureau of Export Administration as a supporting document for license applications shall not be construed as an authorization to reexport the items to which the form applies unless specific approval has been obtained from the Bureau of Export Administration for such reexport.</small>		
3. NATURE OF BUSINESS OF ULTIMATE CONSIGNEE NAMED IN BLOCK 1		
A. The nature of our usual business is <u>PRODUCTION OF ZIRCONIUM FOR NUCLEAR APPLICATION</u>		
B. Our business relationship with the U.S. exporter is <u>BUYER AND SUPPLIER.</u> and we have had this business relationship for _____ year(s).		
4. ADDITIONAL INFORMATION <u>THE TREX WILL BE FABRICATED INTO CLADDING TUBING. THE CLADDING TUBING WILL BE PROVIDED TO YIBIN NUCLEAR FUEL ELEMENT PLANT AND DESTINATED TO QINSHAN NUCLEAR POWER PLANT PHASE I</u>		
5. ASSISTANCE IN PREPARING STATEMENT		
STATEMENT OF ULTIMATE CONSIGNEE AND PURCHASER We certify that all of the facts contained in this statement are true and correct to the best of our knowledge and we do not know of any additional facts which are inconsistent with the above statement. We shall promptly send a supplemental statement to the U.S. Exporter, disclosing any change of facts or intentions set forth in this statement which occurs after the statement has been prepared and forwarded. Except as specifically authorized by the U.S. Export Administration Regulations (15 CFR Parts 730-774), or by prior written approval of the Bureau of Export Administration, we will not reexport, resell, or otherwise dispose of any items approved on a license supported by this statement: (1) to any country not approved for export as brought to our attention by means of a bill of lading, commercial invoice, or any other means; or (2) to any person if we know that it will result directly or indirectly, in disposition of the items contrary to the representations made in this statement or contrary to Export Administration Regulations.		
6. SIGNATURE OF OFFICIAL OF ULTIMATE CONSIGNEE		7. NAME OF PURCHASER NORTHWEST ZIRCOCLADDING CO. LTD. SIGNATURE OF OFFICIAL OF PURCHASER <u>ZR4</u>
NAME OF OFFICIAL <u>ZR4</u>		NAME OF OFFICIAL <u>SHI WEI DONG</u>
TITLE OF OFFICIAL <u>MANAGER OF PURCHASE AND SALES</u>		TITLE OF OFFICIAL <u>MANAGER OF PURCHASE AND SALES</u>
DATE <u>08/26/2005</u>		DATE <u>08/26/2005</u>
CERTIFICATION FOR USE OF U.S. EXPORTER We certify that no corrections, additions, or alterations were made on this form by us after the form was signed by the (ultimate consignee)(purchaser).		
8. NAME OF EXPORTER		SIGNATURE OF PERSON AUTHORIZED TO CERTIFY FOR EXPORTER
NAME OF PERSON SIGNING THIS DOCUMENT		TITLE OF PERSON SIGNING THIS DOCUMENT
DATE		
We acknowledge that the making of any false statements or concealment of any material fact in connection with this statement may result in imprisonment or fine, or both and denial, in whole or in part, of participation in U.S. exports and reexports.		
<small>Public reporting burden for this collection of information is estimated to average 15 minutes per response plus one minute for recordkeeping, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to The Director of Administration, Room 3889, Bureau of Export Administration, U.S. Department of Commerce, Washington, D.C. 20530; and to the Office of Management and Budget Paperwork Reduction Project (0694-0021), Washington, D.C. 20503.</small>		
<small>Notwithstanding any other provision of law, no person is required to respond to nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number.</small>		

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Yibin Fuel Plant (YFP)

OTHER NAMES: Also known as the Yibin Nuclear Fuel Element Plant, the Yibin Nuclear Fuel Component Factory, Nuclear Fuel Component Plant, Plant 812, Yibin Nuclear Fuels Factory

GENERAL MANAGER: Chen Baoshan

Located in Yibin, Sichuan Province (104.34E/28.46N). Civilian light water reactor (LWR) fuel element plant. Yibin is the only factory that produces fuel elements for Chinese civilian reactors and naval fuel for nuclear submarines.

Yibin's initial operation began in late 1984. The plant began commercial operation in 1987, and was completed in 1988. (According to the IAEA, start-up occurred in 1993.)

In April 1994, China began producing nuclear fuel at Yibin for China's Daya Bay nuclear power plant. French experts conducted project construction appraisal for the Yibin fuel element plant.

Yibin produces fuel and control rod assemblies for the 300 MWe Qinshan and 900 MWe Daya Bay pressurized water reactors (PWRs). The plant has a specially adapted AFA fuel line (Framatome's fuel design) which has produced reloads for the Daya Bay nuclear power plant. The plant is being backfitted to produce high burn-up fuel and is being expanded to produce PHWR and VVER fuel elements.

Yibin uses the PWR process and has a capacity of 150 tons of HM (150 tons of uranium) per year.

Yibin has also produced nuclear fuel for plutonium production reactors. The plant produced and processed weapons-grade plutonium, but reportedly does not currently handle highly-enriched uranium (HEU) or separated plutonium. Yibin possibly produced thermonuclear fuels (lithium deuteride and tritium).

Yibin was built as part of the "Third Line" to duplicate the Baotou facilities.

YIBIN NUCLEAR FUEL COMPONENT COMPANY

Subsidiary of Jianzhong Chemical Industry Corporation (JCIC).

[Sources: "Framatome Fuels Qinshan's Phase 2," *Nuclear Engineering International*, March 1996, p. 4; "Late News In Brief," *Nuclear News*, March 1995; *The Risk Report*, November 1995, pp. 3, 7; Richard W. Fieldhouse, *Chinese Nuclear Weapons*, pp. 11-12; Yan Kong, "China's Nuclear Bureaucracy," *Jane's Intelligence Review*, July 1993, pp. 324, 326 "World Nuclear Industry Handbook 1995," *Nuclear Engineering*

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International, p. 123; IAEA, *The Nuclear Fuel Cycle Information System: A Directory of Nuclear Fuel Cycle Facilities*, 1995 Edition, p. 111; Lisbeth Gronlund, David Wright, and Yong Liu, "China And A Fissile Material Production Cut-Off," *Survival*, Winter 1995-96, pp. 151; *Sichuan People's Radio Program* (Chengdu), 11 April 1994, in JPRS-TND-94-010, 5 May 1994, p. 1; "Late News In Brief," *Nuclear News*, March 1995; Qian Fuyuan, "Introduction to China's strategy on nuclear fuel development and cycle," *Nuclear Europe Worldscan*, November/December 1999, pp. 43, 57.]

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