

NRC FORM 7  
(8-2011)  
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: 08/31/2012

**APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)**  
(See Instructions on Pages 4 and 5)

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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@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.

<b>PART A. FOR NRC USE ONLY</b>		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED: APR 23 2012
LICENSE NUMBER: XCOM1248	DOCKET NUMBER: 11006010	ADAMS ACCESSION NUMBER:	

**PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS**

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

1. NAME AND ADDRESS OF APPLICANT/LICENSEE ATI Wah Chang 1600 NE Old Salem Rd Albany, OR 97321	1a. NAME OF APPLICANT'S CONTACT Sheila K. Pershall	1b. APPLICANT'S REFERENCE NUMBER PO 20016547
	1c. PHONE NUMBER (541) 917-6712	1d. FAX NUMBER (541) 967-6990
	1e. E-MAIL ADDRESS sheila.pershall@atimetals.com	

2. TYPE OF ACTION REQUESTED (Check One)

EXPORT (Parts B, C, E)       IMPORT (Parts B, D, E)       AMENDMENT/RENEWAL Current License Number: \_\_\_\_\_

CONSENT REQUEST (Parts B, C) Current License Number: \_\_\_\_\_

3. CONTRACT NUMBER(S)	4. FIRST SHIPMENT DATE 8/1/2012	5. LAST SHIPMENT DATE 12/31/2014	6. PROPOSED EXPIRATION DATE 12/31/2014
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**PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, RENEWALS OR CONSENTS**

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

7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT	8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)	9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) FAE S.A. subsidiary of Conuar Combustibles Nuclear Argentinos S.A. Presbitero Gonzalez y Aragon 15 Centro Atomico Ezeiza Buenos Aries B1802AYA Argentina
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7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED	8a. INTERMEDIATE USE(S)	9a. ULTIMATE END USE(S) see page 3
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10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Zirconium 690 Nickel trex tube \$ [REDACTED]	10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 500 Kgs	10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)
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11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

APR 23 2012  
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NRC FORM 7  
(8-2011)  
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

<b>LICENSE NUMBER:</b> XCOM 1248	<b>DOCKET NUMBER:</b> 11006010	<b>ADAMS ACCESSION NUMBER:</b>	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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**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) <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
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**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 Sheila K. Pershall Export Administrator	18b. SIGNATURE - AUTHORIZED OFFICIAL <i>Sheila K Pershall</i>	18c. DATE <i>4/19/12</i>
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NRC FORM 7  
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10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XCOM1248	DOCKET NUMBER 11506010	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)  
To be used solely to develop manufacturing seamless tubes in this type of alloy. The end use of the material will be for heat exchanger tubing in steam generators.

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JC



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](http://www.wahchang.com)

April 19, 2012

Deputy Director  
Office of International Programs  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, Maryland 20852

Attached is a license application for export of Zirconium 690 Nickel tubes to Conuar Combustibles Nucleares Argentinos SA in Argentina. I have included a check for \$4,400, and end use statement, and their purchase order.

Please let me know if you have questions or need additional information. You can reach me by phone at 541-917-6712, email to [sheila.pershall@atimetals.com](mailto:sheila.pershall@atimetals.com), or by fax to 541-967-6990.

Sincerely,

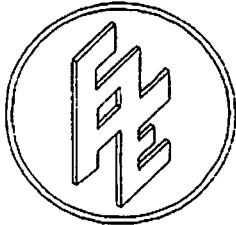
A handwritten signature in black ink that reads "Sheila Pershall". The signature is written in a cursive, flowing style.

Sheila Pershall  
Export Administrator

Attachments

XCOM1248

APR 23 2012  
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FAE S.A

Ezeiza, April 9, 2012.

END-USER STATEMENT

Exporter: ATI WAH CHANG  
1600 N.E. Old Salem Road  
Albany, Oregon 97321-D460  
United States

Importer: FAE S.A.  
EZEIZA, BUENOS AIRES-ARGENTINA

To be imported as per purchase order 20016547:

- 500 kg Alloy 690 hollow OD 42.16 mm WT 6.40 mm.

FAE S.A. confirm that the above material shall be used solely to develop manufacturing seamless tubes in this kind of alloy.

  
ENZO DURÍ  
Purchasing Manager

X CEM 1248

APR 23 2012  
Rec'd  
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Presbitero Juan Gonzalez y Aragon Nro.15  
(B1802AYA) Partido de Ezeiza  
Pcia. Buenos Aires - Argentina  
Phone 54-11-6326-1300 Fax 54-11-6326-1492



FAE S.A.

Pág N° 1 / 1

Presbítero Juan González y Aragón Nro: 15  
(1802) Partido de EZEIZA - Buenos Aires  
Tel.: 54-11-6326-1300 FAX: 54-11-6326-1492  
C.U.I.T. 30-61047750-6

**PURCHASE ORDER Nro: 20016547**

Date: 09/04/2012

Purchaser: DURÍ

Vendor: 20010 ATI WAH CHANG

Address: 0-P.O.BOX 460

CT - (97321) - U S A

Payment Terms: To see the text

Item	Code	Description	Unit	Qty	Unit Price
1	G-3900-00	HOLLOW 42 16 X 6.4 MM ALLOY 690	KG	500.00	
UNS N06690, ACCORDING TO ASTM B829 AND ET-439-IF COLD DRAWN TUBE PICKLED - ANNEALED DIAMETER 42.16 MM - AVERAGE WALL 6.40 MM - MINIMUM LENGTH 3000 MM ENDS SHALL BE SQUARE AND FREE FROM BURRS			DELIVERY DATE: 31/08/2012		

Prices: In US Dollar Incoterm: CPT Buenos Aires Port

TOTAL PRICE:

**OTHER TERMS**

- Specification ET 439 IF Release a.
- Prices: Fixed in USD, CPT Buenos Aires Port
- Delivery date in FOB condition: August 31,2012
- Payment terms: 90 days from invoice date.

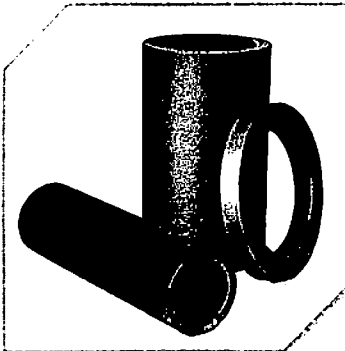
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APR 23 2012  
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# ATI 690™ ALLOY TREX

## Product Sheet



ATI 690™ Alloy TREX produced in various sizes from tube hollows

### Standard Size of TREX

50.8 mm OD x 4.75 mm WT  
(2.0" OD x 0.187" WT)

Other sizes are available upon request.

### Grain Size of TREX

ASTM Standard 4.0 or finer  
(ASTM E 112)

ATI 690™ Alloy Tube Reduced Extrusion (TREX) is available in varying lengths, outer diameter (OD), and wall thickness (WT). This nickel alloy material is manufactured to, and intended to be used in the production of nuclear grade tube meeting the requirements outlined in this specification for ASTM B-163 and EPRI Guidelines for PWR Steam Generator Tubing.

### Melt Practice

Material will be melted by VIM and ESR processes.

### Typical Chemistry

Element	Composition (wt. %)	Element	Composition (wt. %)
Nickel, min	58.00	Sulfur, max	0.002
Chromium	28.50 to 31.00	Phosphorus, max	0.015
Iron	9.00 to 11.00	Copper, max	0.05
Carbon	0.015 to 0.025	Cobalt, max	0.014
Aluminum, max	0.40	Nitrogen, max	0.030
Titanium, max	0.35	Boron, max	0.002
Manganese, max	0.50	Nb + Ta, max	0.1
Silicon, max	0.50	Molybdenum, max	0.1

### Dimensional Tolerances

Outside Diameter	± 1.5%
Wall Thickness	± 12.5%
Eccentricity	± 7.5%
Straightness	2.5 mm/m (0.030 in/ft)

XCOM1248

### Welding

Weld repairs are prohibited.

### QUALITY TESTING

#### Tensile

One sample per lot would be randomly selected for room temperature tensile testing. Tensile Strength [MPa or Ksi], Yield Strength (at 0.2% Offset) [MPa or Ksi], and Elongation % will be reported for information only.

#### Hardness

One bulk material Rockwell B hardness value would be provided for each lot for information only.

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# ATI 690™ ALLOY TREX

## Product Sheet

### Ultrasonic

All TREX product would be ultrasonically inspected by a method and standard mutually agreed upon.

### Microcleanliness

Microcleanliness testing and rating would be performed on ATI 690™ TREX in accordance with ASTM E45 procedure, Method A.

### FINAL PRODUCT

#### Thermal Treatment

TREX product is provided in the fully annealed condition, unless otherwise requested.

#### Finish Condition

Both lead and tail ends would be cropped, squared, and de-burred. The TREX product would be supplied in a clean, descaled, and pickled condition free of oxides, and foreign material. The TREX product will be free of injurious external and internal imperfections, cracks, laps, and folds.

#### Surface Roughness

TREX product would have a surface roughness of 3.2µm Ra (125 micro inches) or better for both ID and OD. Defects up to 0.25mm (0.010 inches) in depth are acceptable, but will be minimized.

#### Product Marking

Unless otherwise agreed to between manufacturer and purchaser, each length of TREX product would be legibly marked with ATI Wah Chang as the manufacturer, ATI 690™ Alloy, specification number, lot number, and unique tube number.

#### Packaging and Package Marking

The tube would be packaged in accordance with the manufacturer's standard practice unless otherwise agreed upon between the manufacturer and the purchaser and so stated in the purchase order.

XCOM1248

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APR 23 2012  
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Inclusion	Thin	Thick
A	1	0.5
B	3.0	1
C	0.5	0.5
D	1.5	1
Titanium carbides and titanium nitrides		
Inclusion	Thin	Thick
B	3	3
D	4	3