

NRC FORM 7

(11-2012)
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0027

EXPIRES: (11/30/2015)

**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.

PART A. FOR NRC USE ONLY		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED 9-8-14
LICENSE NUMBER X/001286	DOCKET NUMBER 11006171	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 Sciencetech, a business unit of Curtiss-Wright Flow Control Company 200 South Woodruff Idaho Falls, ID, 83401 USA		1a. NAME OF APPLICANT'S CONTACT Brian Dassatti		1b. APPLICANT'S REFERENCE NUMBER 37000-002
		1c. PHONE NUMBER (203) 448-3326		1d. FAX NUMBER (203) 448-3311
		1e. E-MAIL ADDRESS bdassatti@curtisswright.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 type="checkbox"/> AMENDMENT/RENEWAL Current License Number: <input type="checkbox"/> CONSENT REQUEST (Parts B, C) Current License Number:				
3. CONTRACT NUMBER(S) 14-PT-0075	4. FIRST SHIPMENT DATE 3/31/2015	5. LAST SHIPMENT DATE 12/31/2017	6. PROPOSED EXPIRATION DATE 12/31/2022	
PART C. TO BE COMPLETED FOR EXPORT 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.)				
7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT Sciencetech, a business unit of Curtiss-Wright Flow Control Company 44 Shelter Rock Road Danbury, CT, 06810 USA		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) Shanghai Electric Nuclear Power Equipment Co, Ltd. No.77 Cenglin Road, Lingang, Pudong New District, Shanghai 201306 Contact: Mr. JIN FENG T:0086-21-38220391 F:0086-21-38220115 M: 0086 13818229968 Email: jinfeng@shanghai-electric.com		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Shandong Nuclear Power Company Ltd. Haiyang Nuclear Power Plant, Haiyang, Shandong, 265116, China Contact: Mr. Huang Wei T:0086-576-81326392 F:0086-576-81326060 M: 0086 18653510597 Email: huangwei@sdnpc.com
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Design, manufacturing and testing		8a. INTERMEDIATE USE(S) None		9a. ULTIMATE END USE(S) Isolate flow into steam generator
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Two sets of SG channel head nozzle dams, control consoles, and ancillary equipment, spare parts, documents, FAT, and training for total dollar value of USD [REDACTED] Mechanical components comprised of aluminum, stainless steel and rubber. No source, special nuclear or byproduct materials or devices or radioactive waste.		10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) Not applicable	10b. MAX ENRICHMENT OR WGT % Not applicable	10c. MAX ISOTOPE WGT (KG) Not applicable
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) Not applicable				

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

LICENSE NUMBER <i>XL0m1286</i>	DOCKET NUMBER <i>11006171</i>	ADAMS ACCESSION NUMBER	<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) (if applicable)	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 <i>BRIAN DASSATTI DIVISION MANAGER</i>	18b. SIGNATURE -- AUTHORIZED OFFICIAL <i>Brian Dassatti</i>
18c. DATE <i>09/05/2014</i>	

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U. S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XCOM 1286	DOCKET NUMBER 11006171	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)

Description of Block 10.

The installation of nozzle dams allows the nuclear power plant to perform outage activities in parallel such as refueling and Steam Generator eddy current testing, thereby reducing the outage duration. Steam Generator nozzle dams are installed in the Hot Leg and Cold Leg nozzles of the Steam Generator. The nozzle dam isolates the Steam Generator from the primary loop by affecting a watertight seal between the wall of each nozzle and the nozzle dam. Nozzle dams only interface with the steam generator during an outage with scheduled SG inspection/maintenance and cannot remain installed during plant operation.

Two redundant, inflatable seals when inflated, establish a watertight seal between the nozzle dam and the nozzle wall of the steam generator. In the unlikely event that both inflatable seals lose air pressure, a mechanical or collapsible passive seal will prevent or limit the loss of primary fluid.

The Rotational Dam consists of two sections that when joined together by the pre-attached diaphragm seal form a circular structural member. The dam structure is supported by engagement of the nozzle dam support tabs to the nozzle cladding ring support tabs. The nozzle dams are simple in design, elegantly engineered and robust during installation.

The nozzle dams have been qualified by performing a structural analysis including a FEA/FEM and a qualification hydrostatic pressure test. The qualification dams were measured pre-and post- hydrostatic tests; the tests and was confirmed that there was no permanent deformation to the nozzle dams.

The SG nozzle dams are considered non safety-related.

Ancillary equipment such as SG nozzle dam support equipment and Manway Cover Handling devices are also part of the scope of supply. Spare parts will be provided. Technical documentation will be transmitted. Support services for factory acceptance testing and training may also be provided to support customer acceptance, warranty issues and training for successful use.

Rec'd 9-2-14
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