

NRC FORM 7 10 CFR 110	U. S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB NO 3150-0027 <small>Estimated burden per response to comply with this mandatory collection request is 1 hour. This estimate is reviewed to ensure that the applicable statutory, regulatory, and policy requirements are satisfied. Send comments regarding burden estimate to the Information Management Branch (74-433) U.S. Nuclear Regulatory Commission, Washington, DC 20545, or by internet email to: info.comments@nrc.gov, and to the Office of Management and Information and Regulatory Affairs, NP-101232 (3150-0027), Office of Management and Budget, Washington, DC 20503. It is never used to impose or alter information collection requirements. Display all OMB control numbers. The "OMB" control number appears on any form that is required to respond to the information collection.</small>	EXPIRES (11/30/2015)
<b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)</b> (See Instructions on Pages 4 and 5)			
PART A. FOR NRC USE ONLY		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC	DATE RECEIVED SEP 01 2015 SF
LICENSE NUMBER XCOM1297	DOCKET NUMBER 11006212	ADAMS ACCESSION NUMBER MLI5245A239	
<b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS</b> (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 NDA Technologies Incorporated Suite 253, PMB A80 9550 S. Eastern Ave. Las Vegas, NV 89123		2. NAME OF APPLICANT'S CONTACT Luther Welsh, Jr.  3. PHONE NUMBER 5095549927  4. E-MAIL ADDRESS Luke.Welsh@gmail.com	5. APPLICANT LICENSE NUMBER NDA150831  6. FAX NUMBER 4082736707
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) 2015CJNF/NDA001I	4. FIRST SHIPMENT DATE 31 Oct 2015	5. LAST SHIPMENT DATE 31 Dec 2015	6. PROPOSED EXPIRATION DATE 31 Dec 2020
<b>PART C. TO BE COMPLETED FOR EXPORT LICENSES, AMENDMENTS, OR RENEWALS</b> (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 See Page 3		8. NAME(S), ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) None	
		9. NAME(S), ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) China Jiansheng Nuclear Fuel Co. Ltd. (CJNF) No. 1 Yingbin Rd, Yibin Xian, Yibin City, Sichuan PR China 64400  Mr LIU Wenyu +86 831 7028 534 cjnfliuwenyu@163.com	
13. FUNCTION(S) PERFORMED SERVICE(S) PROVIDED See Page 3		14. INTERMEDIATE USE(S) None	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS, FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Standard components (see Page 4) for equipment described in paragraph (b)(3)(iii) of Appendix O of CFR Part 110. Contract value \$. Please treat as confidential		11. MAX TOTAL VOLUME ELEMENT WGT (KG) OR TOTAL ACTIVITY (TBq) None	12. MAX ENRICHMENT OR WGT None
		13. MAX ISOTOPE WGT (KG) None	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) None			


NRC FORM 7  
 U.S. NUCLEAR REGULATORY COMMISSION  
**APPLICATION FOR NRC EXPORT OR IMPORT  
 LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)**

LICENSE NUMBER <b>XCOM1297</b>	DOCKET NUMBER <b>11006212</b>	ADAMS ACCESSION NUMBER <b>ML15245A239</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 EXPORT	13 NAME(S), ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14 NAME(S), ADDRESS(ES) OF ULTIMATE END CONSIGNEE(S)	
15a NRC EXPORT LICENSE NUMBER(S) 1600-1002	15b LICENSE NUMBER(S), EXPIRATION DATE(S)	15c LICENSE NUMBER(S), EXPIRATION DATE(S)	
	15d INTERMEDIATE USE(S)	15e ULTIMATE END USE(S)	
16 DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES	16a MAX TOTAL VOLUME ELEMENT (NOT KG) OR TOTAL ACTIVITY (TBq)	16b MAX ENRICHMENT OR ISOTOPE	16c MAX ISOTOPE (NOT KG)
17 FOREIGN DELIBERATIONS BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME			

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

17a ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17b COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input type="checkbox"/> YES <input 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  Luther Welsh, Jr. President	18b SIGNATURE - AUTHORIZED OFFICIAL 	18c DATE  31 Aug 2015

Rec'd SEP 01 2015

NRC FORM 7  
10/2012  
REG-100-102

U. S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER <b>XCOM1297</b>	DOCKET NUMBER <b>11006212</b>	ADAMS ACCESSION NUMBER <b>ML5245A239</b>	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicant's block numbers from page 1 and/or page 2 for each entry)

**BLOCK 7**

(a) Mr. Craig DeVITO  
Surbore Inc.  
250 Nagareda Drive  
Gilroy, CA 95020  
<http://www.surbore.com/>

(b) Mr. Philip PARKHURST  
Proteus Inc.  
20 Senlac Hills Drive  
PO Box 747  
Chagrin Falls, Ohio 44022  
<http://proteus-pp.com/>

(c) Dr. Thomas GUETTINGER  
UniWest  
122 South 4th Avenue  
Pasco, WA 99301  
<http://www.uniwest.com/>

(d) Mr. Fritz ARLBERG  
Micro Design Labs LLC  
2942 N 24th Street, Suite #114-479  
Phoenix, AZ 85016  
<http://microdesignlabs.com/>

**BLOCK 7a**

- (a) Machine Shop (mechanical conveyor components)
- (b) Gamma radiation detectors (measure low enriched U235)
- (c) Eddy Current equipment (verify uniformity inside commercial fuel rod)
- (d) Gamma detector electronics

**BLOCK 9a**

Nondestructive inspection of manufacturing defects in commercial nuclear fuel rods. Components are unsuitable for MOX fuel because gamma detectors would saturate. This equipment is not part of the process control for the manufacturing of production fuel rods; it merely inspects the finished product.

Components were specifically designed for inspection of commercial fuel rods.

Components are NDA's standard "off the shelf" parts which are manufactured upon demand.

NDA supplied like components which are installed on the passive rod scanner at the Areva NP factory in Richland, WA, USA.

NRC FORM 7  
10/2012  
10 CFR 171.2

U. S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER <b>XCOM1297</b>	DOCKET NUMBER <b>11006212</b>	ADAMS ACCESSION NUMBER <b>ML19245A239</b>	<input checked="" type="checkbox"/> PUBLIC	OR	<input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicant's block numbers from page 1 and/or page 2 for each entry)

**BLOCK 10**

Equipment is a co-operative effort between NDA and CJNF.

NDA (USA) to supply some of the rod conveyor mechanical components (e.g. pulleys), gamma radiation detectors and electronics (verify low enriched U235 content), densitometer gamma radiation detector (e.g. measure rod lengths and gaps between U235 pellets), uniformity test equipment (identify broken U235 pellets inside rod), PC software, and consulting.

CJNF (China) to supply small radioactive sources (Cs137), scanner framework (extruded aluminum skeleton), sensors (e.g. proximity switches), densitometer housing, pneumatic controls, motors, power supplies, material handling system, and PLC software.

**ADDITIONAL INFORMATION**

Some NDA components use sub-components manufactured overseas, including:

1. (China) Photo Multiplier Tubes (PMTs) for gamma detectors
2. (China) Tungsten shields for gamma detectors
3. (China optional) Printed Circuit Boards (PCBs) for electronics
4. (Ukraine, China optional) Cesium Iodide (CsI) scintillation crystals for gamma detectors

The UniWest equipment is model US454, US454a, or equivalent.

See [http://www.uniwest.com/US-454A\\_US-454-P4.aspx](http://www.uniwest.com/US-454A_US-454-P4.aspx)

UniWest exports to China and throughout the world.

Proteus exports to China and throughout the world.

**URGENCY**

The components are for a passive rod scanner for CJNF's Factory 8 Line 2. This line must go into production in early 2016 to make fuel for Chinese power reactors coming on line. Assembly, testing, and qualification are time consuming. The mechanical parts are needed urgently, followed by the gamma radiation detectors.