


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)							
PART A. FOR NRC USE ONLY			<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC			DATE RECEIVED AUG 26 2013 JC	
LICENSE NUMBER XS0U8830			DOCKET NUMBER 11006120			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 Cotter Corporation 7800 East Dorado Place Suite 210 Englewood, Colorado 80111			1a. NAME OF APPLICANT'S CONTACT Ken Mushinski		1b. APPLICANT'S REFERENCE NUMBER KJM13-012		
			1c. PHONE NUMBER (858) 455-3275		1d. FAX NUMBER (858) 455-3660		
			1e. E-MAIL ADDRESS Ken.Mushinski@cotterusa.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) TBD		4. FIRST SHIPMENT DATE 01/02/2014		5. LAST SHIPMENT DATE 03/31/2015		6. PROPOSED EXPIRATION DATE 04/30/2015	
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			8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)			9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) Dalian V Mineral Co., Ltd ATTN: David W. Jiang and Xiaochun 80 Sec E, Bld A, 28-7, Xinghai Square, Dalian 116021 China	
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED			8a. INTERMEDIATE USE(S)			9a. ULTIMATE END USE(S) None. See page 3.	
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Sources material incidental to Caldasite ore. Caldasite is a hard rock zirconium ore. The primary constituents of the ore are ZrO2 plus HfO2 (~61%), SiO (~20%) and an average natural uranium concentration of ~0.25% U3O8 and ~0.07% Th.				10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) 34,000 KG natural uranium plus 11,200 thousand KG of Th (contained in 16,000,000 KGs of ore).		10b. MAX ENRICHMENT OR WGT %	10c. MAX ISOTOPE WGT (KG)
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) N/A						AUG 26 2013 JC	

NRC FORM 7
(11-2012)
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XSOU 8830	DOCKET NUMBER 1100 6120	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 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 Ken Mushinski President, Cotter Corporation	18b. SIGNATURE -- AUTHORIZED OFFICIAL 	18c. DATE 21 Aug 2013

AUG 26 2013
JC

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

LICENSE NUMBER XSOU 8830	DOCKET NUMBER 11006120	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)

Item 9a ULTIMATE END USE(S):

There is no end use for the incidental source material being exported. The source material in this export is incidental to the export of ZrO₂. The caldasite ore is being exported for recovery of the contained zirconium; not for the incidental source material. ZrO₂ represents ~ 61% of the ore by weight and source material constitutes only ~0.32% by weight of the ore (~ 0.25 % uranium plus ~ 0.07% Thorium). The end use of the recovered zirconium is in various commercial, non-nuclear products; primarily in the paper industry, ceramic glazes, foundry liners, and antiperspirants.

AUG 26 2013



August 22, 2013
KJM13-012

VIA OVERNIGHT DELIVERY

Office of International Programs
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, Maryland 20852
ATTN: Jennifer Tobin

XSOU 8830

AUG 26 2013
JC
IM/EX 11006120

Subject: **Application for License to Export Source Material Incidental to Caldasite Ore (Zirconium Ore) to China for Recovery of Zirconium for use in Non-nuclear Commercial End Uses**

Dear Ms. Tobin:

Enclosed, please find a completed NRC Form 7 for the export of 16,000 tonnes of Caldasite ore containing incidental source material (natural uranium and thorium) to China. Also enclosed with this letter is a check in the amount of \$2,700 to cover the fee associated with this application.

Caldasite is hardrock zirconium ore (~61% $ZrO_2 + HfO_2$) which also contains naturally occurring uranium and thorium. Thus, this zirconium ore meets the definition of "source material." The end use of the caldasite ore is the recovery of the contained zirconium for use in non-nuclear products such as antiperspirants, printing ink, ceramic glazes, foundry liners, etc.

If you should have questions or require additional information, please don't hesitate to contact me at (858) 455-3275 or Ken.Mushinski@cotterusa.com.

Very truly yours,

Ken Mushinski, President
Cotter Corporation (N.S.L.)

Enclosures: 1) NRC FORM 7
2) Check No. 236987 for \$2,700