

NRC FORM 7 (8-2010) 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, OR RENEWAL (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 Records and FOIA/Privacy 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 OCT 15 2010 <i>Rec'd JC</i>			
LICENSE NUMBER XCOM1215		DOCKET NUMBER 11005893		ADAMS ACCESSION NUMBER			
PART B. TO BE COMPLETED FOR ALL 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.)							
1. NAME AND ADDRESS OF APPLICANT/LICENSEE Brush Wellman Inc. 14710 W. Portage River South Rd. Elmore, OH 43416		1a. NAME OF APPLICANT'S CONTACT Robyn Sautter		1b. APPLICANT'S REFERENCE NUMBER 295436			
		1c. PHONE NUMBER (419) 862-4127		1d. FAX NUMBER (419) 862-4174			
		1e. E-MAIL ADDRESS robyn_sautter@brushwellman.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 Existing License Number: _____							
3. CONTRACT NUMBER(S) 419429		4. FIRST SHIPMENT DATE 02/25/2011		5. LAST SHIPMENT DATE 07/31/2011		6. PROPOSED EXPIRATION DATE 12/31/2012	
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 Edlow International Company 1666 Connecticut Ave NW Suite 201 Washington, DC 20009		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) NTP Logistics, a NECSA subsidiary Unit 27 Villa Valencia Office Park Cnr Anemoon & Monument Road Glen Maris Kempton Park South Africa		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) South African Nuclear Energy Corporation (NECSA) Building 1800 (PO Box 582) Pelindaba 0001 Pretoria South Africa Contact: Wessel Strydom Phone: +27 12 305 5581 E-mail: wessel.strydom@necsa.co.za			
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Courier/Freight Forwarder		8a. INTERMEDIATE USE(S) Courier/Freight Forwarder		9a. ULTIMATE END USE(S) Be Reflector Elements			
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Component: Be Reflector Elements & Plugs Quantity: 10 Solid Be Elements 10 Hollow Be Elements 100 Be Element Plugs Total Dollar Value: [REDACTED]		10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) N/A		10b. MAX ENRICHMENT OR WGT % N/A		10c. MAX ISOTOPE WGT (KG) N/A	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME) N/A							
OCT 15 2010 <i>Rec'd JC</i>							

NRC FORM 7
(8-2010)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XCOM1215	DOCKET NUMBER 11005893	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
-----------------------------------	----------------------------------	------------------------	---

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, OR RENEWALS

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 Robyn L. Sautter Int'l Sales Coordinator/Export Compliance Officer	18b. SIGNATURE -- AUTHORIZED OFFICIAL 	18c. DATE 10/12/2010

OCT 15 2010

need
JC

NRC FORM 7
(8-2010)
10 CFR 110

U.S. NUCLEAR REGULATORY COMMISSION

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

LICENSE NUMBER XCOM1215	DOCKET NUMBER 11005893	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
----------------------------	---------------------------	------------------------	---

ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

Additional Contact for Technical Questions

Block 1a: Christopher Dorn

Block 1c: 510-415-9747

Block 1d: 909-982-4477

Block 1e: Christopher_dorn@brushwellman.com

Block 10:

Function: The Beryllium components will be used to replace the original Beryllium reflectors in the SAFARI-1 research reactor. The replacement of these components is a normal maintenance exercise to ensure optimal operation of the reactor.

Block 17:

1. A copy of the customer supplied end use statement is attached.
2. A copy of the signed nuclear end use certification is attached.
3. A copy of the customer's purchase order is attached.

OCT 15 2010

BRUSH ENGINEERED MATERIALS

Brush Wellman Inc.
14710 W. Portage River South Rd.
Elmore Ohio 43416
419-862-4127
www.berylliumproducts.com

Customer End-Use Statement

Purchase Order Number	419429
-----------------------	--------

Description & Quantity of Brush Wellman Product(s)
10 x Solid Beryllium reflector elements, 8.68 kg/element 10 x Hollow Beryllium reflector elements and, 5.64 kg/element 100 x Beryllium plugs to fit in hollow reflectors, 0.2 kg/plug.

Country of Ultimate Destination	South Africa
---------------------------------	--------------

Foreign End User Name	South African Nuclear Energy Corporation (NECSA)
Contact	Dr W J Strydom
Address	Building 1800 OR PO Box 582 Pelindaba
City/Country	Pretoria/ South Africa
Postal Code	0001
Telephone	+27 12 305 5581
Fax	+27 12 305 5956
E-Mail	wessel.strydom@necsa.co.za

Foreign Consignee Name (if different than end user)	
Contact	
Address	
City/Country	
Postal Code	
Telephone	
Fax	

BWI End Use 10.2008

OCT 15 2010

Read
JC

BRUSH

ENGINEERED MATERIALS

Brush Wellman Inc.
 14710 W. Portage River South Rd.
 Elmore Ohio 43416
 419-862-4127
 www.berylliumproducts.com

E-Mail	
--------	--

Foreign Intermediate Consignee (Distributor, etc.)	
Contact	
Address	
City/Country	
Postal Code	
Telephone	
Fax	
E-Mail	

U.S. Freight Forwarder and/or Consignor	Edlow International Company
Contact	Jack Edlow
Address	1666 Connecticut ave NW - suite 201
City/Country	Washington DC USA
Postal Code	DC 20009
Telephone	+1 202 483 4959
Fax	+1 202 483 4840
E-Mail	jedlow@edlow.com

<p>What does the End User Company manufacture, or what type of service do they provide? (Please be specific)</p> <p>The services/activities of NECSA can be divided in three main categories, mainly nuclear production of medical isotopes, manufacturing of chemical products and a research and development group supporting the previous mentioned groups.</p> <p>NECSA operates a 20 MW materials testing reactor, based on an Oak Ridge design since April 1965. The reactor, SAFARI-1, was primarily utilised for R&D purposes, ranging from material studies, radiography and diffraction. From mid 1990 the focus shifted to commercial applications, and today the reactor is to a great extent utilised for the production of medical isotopes and transmutation doped silicon to the international arena. NECSA is internationally regarded as one the top five suppliers of these products.</p>

Rec'd
 OCT 15 2010
 JC

BRUSH
ENGINEERED MATERIALS

Brush Wellman Inc.
14710 W. Portage River South Rd.
Elmore Ohio 43416
419-862-4127
www.berylliumproducts.com

**What is the purpose/end use for which this product/material will be used? Or, how will the information obtained by this product be used?
(Please be specific)**

The Beryllium components to be supplied will be used to replace the original Beryllium reflectors in the SAFARI-1 research reactor. The replacement of the said components can be regarded as a normal maintenance exercise to ensure that the reactor remains in an effective optimal operational condition.

Any additional information? Please provide any necessary additional information, including web pages from your company/end user company.

Background information on NECSA and its subsidiaries can be found from the following internet sites;
<http://www.necsa.co.za>
<http://www.ntp.co.za>

We the undersigned, certify that we will not divert, transship, or re-export the above mentioned products in contravention to US export laws and regulations and/or without obtaining requisite re-export licenses. We also certify that (a) the products will not be used, directly or indirectly, in any application involving missile technology, nuclear proliferation and chemical and biological weapons proliferation; and (b) the information we have provided is true and correct to the best of our knowledge.


Authorized Signature for Contact Person

Date: 8/10/2010

Title: CHIEF SCIENTIST

Company: NECSA.

Thank you for your time and effort taken with this end use information. It will greatly assist our export compliance efforts.

Please feel free to call me at 419-862-4127, or email me at robyn_sautter@brushwellman.com should you have any questions or comments.

Regards,

BWI End Use 10.2008

Rec'd
OCT 15 2010
Jc

BRUSH
ENGINEERED MATERIALS

Brush Wellman Inc.
14710 W. Portage River South Rd.
Elmore Ohio 43416
419-862-4127
www.berylliumproducts.com

Robyn L. Sautter
Brush Wellman, Beryllium Products

Rec'd
OCT 15 2010
JC

Research & Development – a division of Necsa

PO Box 582 | +27 12 305 5260 | dieter.tillwick@necsa.co.za
Pretoria 0001 | +27 12 305 5956 | www.necsa.co.za
South Africa



RESEARCH AND DEVELOPMENT

NUCLEAR END USE CERTIFICATION STATEMENT

We hereby certify that the items to be exported or replicas thereof ("replicas" refers to items produced abroad based on physical examination of the item originally exported, matching it in all critical design and performance parameters) will not be used in:

1. Any nuclear explosive activities, including research on or development, design, manufacture, construction, testing or maintenance of any nuclear explosive device, or components or subsystems of such a device.
2. Unsafeguarded nuclear activities including research on, or development, design, manufacture, construction, operation or maintenance of any nuclear reactor, critical facility, facility for the fabrication of nuclear fuel, facility for the conversion of nuclear material from one chemical form to another, or separate storage installation, where there is no obligation to accept International Atomic Energy Agency (IAEA) safeguards at the relevant facility or installation when it contains any source or special fissionable material (regardless of whether or not it contains such material at the time of export), or where any such obligation is not met.
3. 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:
 - I. Facilities for the chemical processing of irradiated special nuclear or source material;
 - II. Facilities for the production of heavy water;
 - III. Facilities for the separation of isotopes of source and special nuclear material; or
 - IV. Facilities for the fabrication of nuclear reactor fuel containing plutonium.

And that written authorization will be obtained from the Bureau of Industry and Security (BIS) prior to re-exporting the items, unless they are destined to Canada or would be eligible for export from the United States to a new country of destination under NLR (No License Required) based on country chart under NP column 1 (Export Administration Regulations, Supplement No. 1 to part 738).

Ultimate Consignee & Purchaser

Company Name: South African Nuclear Energy Corporation (Necsa)

Address: P.O Box 582
Pretoria,
0001
South Africa

Typed or Printed Name of Company Official: Dr DL Tillwick

Signature of Company Official: *Dr DL Tillwick*

Title: Senior Manager: SAFARI-1 Research Reactor

Date: 2010-07-12

Rec'd
OCT 15 2010
JC

- ② **Directors** Mr EM Dipico (Chairperson), Adv N Shaik-Peremanov, Dr NM Bhengu, Prof T Majazi, Ms LN Noxaka REG. 2000/003735/06
Mr GP Tshelane, Mr LF Aphane, Mr AS Minty, Mr XM Mabhongo (alternate director to Mr AS Minty),
Dr RM Adam (CEO).
- ② **Company Secretary** Mr Aukney Mabunda



The South African Nuclear Energy (Pretoria) Limited
 P O Box 582 Pretoria 0001 Republic of South Africa
 Telephone: International: 27-12-305-4911
 Local: 012-305-4911
 Fax: International: 27-12-305-3111
 Local: 012-305-3111
 Reg. No. 2000/003735/06
 VAT Reg. No. 4950108064



PURCHASE ORDER NO: 419429

Revision No. 0
 Date 2010/09/29
 Order Type Regular Order
 Vendor ID EC-BRUS-001

NB: This order number must be quoted on all invoices and parcels

CONFIRMATION ORDER - AVOID DUPLICATION

TO: BRUSH WELLMAN INC 6070 PARKLANDS BOULEVARD MAYFIELD HEIGHTS OHIO 44124 0000 UNITED STATES ATTENTION : ROBYN SAUTTER Tel : (001) 419-8624 127 Fax : (001) 419-8624 174	SHIP TO: Necsa Eco-Industrial Park Pelindaba - Gate 3 Church Street Ext West PRETORIA SOUTH AFRICA Att : RECEIVING DEPOT BILL TO: Necsa Creditors Dept: Building P1200 P O Box 582 PRETORIA 0001 SOUTH AFRICA
--	--

QUOTE - 20046825

PAGE 1 of 1

FORWARD COVER - NECSA

INSURANCE NECSA EXPORT REQUIREMENTS - WJ STRYDOM

IMPORT/CLEARING AGENT: NTP LOGISTICS, ATT. BERT BEKKER, TEL.

+27123085792, E-MAIL BERT@NTP.CO.ZA, MOBILE 0828043116

PAYMENT - 30 DAYS FROM DAY OF SHIPMENT

F.O.B. POINT	SHIP VIA	BUYER
		Hennie (Tel +27 012 305 5499)
ORDER DATE		TERMS
2010/09/29		30 DAYS NO DISCOUNT

LINE	PART NUMBER	DATE REQUIRED	UNITS	QUANTITY	PRICE	EXT. PRICE
1	1-111-11111 BE SOLID ASSEMBLY	2011/02/25	EACH	10.0000	[REDACTED]	[REDACTED]
2	1-111-11111 SERVICE FEE FOR ITEM 1	2011/02/25	EACH	1.0000	[REDACTED]	[REDACTED]
3	1-111-11111 BE HOLLOW ASSEMBLY	2011/02/25	EACH	10.0000	[REDACTED]	[REDACTED]
4	1-111-11111 SERVICE FEE FOR ITEM 3	2011/02/28	EACH	1.0000	[REDACTED]	[REDACTED]
5	1-111-11111 BE ELEMENT PLUG	2011/02/25	EACH	100.0000	[REDACTED]	[REDACTED]
6	1-111-11111 SERVICE FEE FOR BE ELEMENT PLUG	2011/02/25	EACH	1.0000	[REDACTED]	[REDACTED]

Rec'd
 OCT 15 2010
 JC

SUBJECT TO CONDITIONS OF PURCHASE

TOTAL EXCLUDING VAT

[REDACTED]

The South African Nuclear Energy Corporation Limited
 P O Box 582 Pretoria 0001 Republic of South Africa
 Telephone: International: 27-12-305 4911
 Local: 012-305-4911
 Fax: International: 27-12-305-3111
 Local: 012 305-3111
 Reg. No. 2000/003733/00
 VAT Reg. No. 4950106064



PURCHASE ORDER NO: 419429

Revision No. 0
 Date 2010/09/29
 Order Type Regular Order
 Vendor ID EC-BRUS-001

NOTE: THIS ORDER NUMBER MUST BE QUOTED ON ALL INVOICES AND PURCHASE CONFIRMATION ORDER - AVOID DUPLICATION

TO: BRITISH WELLMAN INC 6070 PARKLANDS BOULEVARD MAYFIELD HEIGHTS OHIO 44124 0000 UNITED STATES ATTENTION: ROBYN SAUTTER Tel: (001) 419-8624 127 Fax: (001) 419-8624 174	SHIP TO: Necsa Eco-Industrial Park Pelindaba - Gate 3 Church Street Ext West PRETORIA SOUTH AFRICA Alt: RECEIVING DEPOT
	BILL TO: Necsa Creditors Dept: Building P1200 P O Box 582 PRETORIA 0001 SOUTH AFRICA

QUOTE - 20046825
FORWARD COVER - NECSA
INSURANCE NECSA EXPORT REQUIREMENTS - WJ STRYDOM
IMPORT/CLEARING AGENT: NTP LOGISTICS, ATT. BERT BEKKER, TEL.
+27123086792. E-MAIL BERT@NTP.CO ZA. MOBILE 0828043118
PAYMENT - 30 DAYS FROM DAY OF SHIPMENT

PAGE 1 of 1

F.O.B. POINT	SHIP VIA	BUYER Hennie (Tel +27 012 305 5499)
ORDER DATE 2010/09/20	TERMS 30 DAYS NO DISCOUNT	

LINE	PART NUMBER	DATE REQUIRED	UNITS	QUANTITY	PRICE	EXT. PRICE
1	1-111-11111 DC SOLID ASSEMBLY	2011/02/25	EACH	10.0000	[REDACTED]	[REDACTED]
2	1-111-11111 SERVICE FEE FOR ITEM 1	2011/02/25	EACH	1.0000	[REDACTED]	[REDACTED]
3	1-111-11111 BE HOLLOW ASSEMBLY	2011/02/25	EACH	10.0000	[REDACTED]	[REDACTED]
4	1-111-11111 SERVICE FEE FOR ITEM 3	2011/02/20	EACH	1.0000	[REDACTED]	[REDACTED]
6	1-111-11111 BE ELEMENT PLUG	2011/02/25	EACH	100.0000	[REDACTED]	[REDACTED]
6	1-111-11111 SERVICE FEE FOR BE ELEMENT PLUG	2011/02/26	EACH	1.0000	[REDACTED]	[REDACTED]

Rec'd

OCT 15 2010
JC

SUBJECT TO CONDITIONS OF PURCHASE

TOTAL EXCLUDING VAT

[REDACTED]