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NRC FORM 7 (05-2022) **10 CFR 110**

U. S. NUCLEAR REGULATORY COMMISSION

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

(See Instructions on Pages 4 and 5)

APPROVED BY OMB: NO. 3150-0027 **EXPIRES: 05/31/2025**

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PART A. FOR NRC USE ONLY

[X] Public **OR** [ ] Non-Public

Date Received: 09/15/22 JMS

License Number: XB1361

Docket Number: 11006451

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
Eckert & Ziegler Isotope Products
24937 Avenue Tibbitts
Valencia CA 91355
USA

1a. Name of Applicant's Contact: Ms. Gurpreet Hayhre

1b. Applicant's Reference Number: Russia / 23Aug22

1c. Office Telephone Number: 661 257 8317

1d. Office Facsimile Telephone Number: 661 257 8308

1e. Applicant's E-mail Address: gurpreet.hayhre@ezag.com

2. Type of Action Requested

[✓] Export (Parts B, C, E) [ ] Amendment/Renewal Current License Number:

[ ] Import (Parts B, D, E) [ ] Consent Request (Parts B, C) Current License Number:

3. Contract Number(s): N/A

4. First Shipment Date:

5. Last Shipment Date:

6. Proposed Expiration Date:

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 U. S. Suppliers and/or other U. S. Parties to the Export
Eckert & Ziegler Isotope Products
24937 Avenue Tibbitts
Valencia CA 91355
USA

8. Name(s)/Address(es) of Intermediate Foreign Consignee(s)
International Freight Forwarder:

Borchardt Logistics GmbH
Fasanenweg 7 c
65451 Kelsterbach
Germany

9. Name(s)/Address(es) of Ultimate Foreign Consignee(s)
Please refer to page 3 for all ultimate foreign consignee information.

7a. Function(s) Performed/Service(s) Provided: Manufacturer and exporter

8a. Intermediate Use(s): Sources will be shipped to Borchardt Logistics, who will then ship to Russia.

9a. Ultimate End Use(s): Medical use: calibration of PET / CT scanners

10. Description of Radioactive Materials, Sealed Sources, Nuclear Facilities, Equipment, or Components; for Nuclear Equipment include Total Dollar Value of Equipment for Export	10a. Maximum Total Volume/ Element WGT (KG), or Total Activity (TBq)	10b. Max Enrichment or WGT%	10c. Max Isotope WGT (KG)
a) EG-0320 is a phantom source containing containing Ge-68 x5 (each source 0.000055 TBq) b) HEGL-0140 is a line source containing Ge-68 c) HEGL-0132 is line source containing Ge-68 d) EG-0321-SET consists of 3 spheres filled with Ge-68 e) MRVQC is a foam phantom w/5 spheres filled w/Ge-68 f) VQC-068 is a foam phantom w/5 spheres filled w/ Ge-68 x2 (each source 0.0000035 TBq) g) HEGL-0139 is a line source containing Ge-68 x4	a) 0.000275 TBq b) 0.00001 TBq c) 0.000055 TBq d) 0.0000007 TBq e) 0.0000035 TBq f) 0.0000070 TBq g) 0.000074 TBq (each source 0.0000185 TBq)	N/A	N/A

11. Foreign origin or obligations by country and, if known, by percentage of maximum total volume (leave blank for byproduct licenses)

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(05-2022)
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

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

License Number	Docket Number	Adams Accession Number	
XB1361	11006451		[X] Public **OR** [ ] 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 Foreign Parties to Import	13. Name(s)/Address(es) of Foreign or U. S. Intermediate Consignee(s)	14. Name(s)/Address(es) of Ultimate U. S. Consignee(s)
N/A	N/A	N/A

12a. NRC Export License Number(s) (if applicable)	13a. License Number(s) / Expiration Date(s)	14a. License Number(s) / Expiration Date(s)
N/A	N/A	N/A
	13b. Intermediate Use(s)	14b. Ultimate End Use(s)
	N/A	N/A

15. Description of Radioactive Materials, Sealed Sources, Nuclear Facilities	15a. Maximum Total Volume/ Element WGT (KG), or Total Activity (TBq)	15b. Max Enrichment or WGT%	15c. Max Isotope WGT (KG)
N/A	N/A	N/A	N/A

16. Foreign obligations (By country and by Percentage of Maximum Total Volume)
N/A

PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR CONSENT REQUEST(S)
(If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

17. Additional Information provided on pages 3, 4, and/or separate sheets?	17a. Copies of Recipient's Authorizations Provided?
[✓] Yes [ ] No	[ ] Yes [ ] No

18. Certification:
I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title10, 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	18b. Signature -- Authorized Official	18c. Date
Frida Tan Director of Quality Operations	DocuSigned by: Frida Tan 0083F2B2FA72434...	September 15, 2022 | 11:14:0

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NRC FORM 7
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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	Docket Number	Adams Accession Number	
XB1361	11006451		[X] Public **OR** [ ] Non-Public

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

Block 8:
Borchardt Logistics GmbH will ship the sources to our Russian Importer / Distributor:
BEBIG ISOTOPEN LLC
Dorozhnaya str., 8, bld, 1, 117545, Moscow, Russia

Block 9: Ultimate consignees:

1. Dmitry Rogachev National Medical Research Center of Pediatric Hematology, Oncology and Immunology
   1, Samory Mashella str.
   117997, Moscow, Russia
   EG-0320 x1 and VQC-068 x1 used for calibrating the GE Healthcare Discovery System

2. Regional Clinical Hospital
   Kalinin Str., 40
   628012, Khanty-Mansiysk, Russia
   HEGL-0132 x1 used for calibrating the GE Healthcare Discovery System

3. The Federal State-Financed Institution Federal Siberian Research Clinical Centre under the Federal Medical Biological Agency (FSFI FSRCC FMBA of Russia)
   Kolomenskaya, str., 26
   660037 Krasnoyarsk, Russia
   HEGL-0140 x1 used for calibrating the GE Healthcare Discovery System

4. GE Healthcare LLC
   Presnenskaya str, 10A
   123112, Moscow, Russia
   EG-0320 x1, EG-0321-SET x1 and MRVQC x1 used for calibrating the GE Healthcare Discovery System

5. Yadernie medicinskie technologii LLC,
   Erichnaya 2,
   Astrakhan 414004, Russia
   EG-0320 x1 used for calibrating the GE Healthcare Discovery System

6. Interregional Medical Center for Early Diagnosis and Treatment of Oncological Disease LLC,
   Ostuzheva Str. 31,
   Voronezh 394033, Russia
   EG-0320 x1 and VQC-068 x1 used for calibrating the GE Healthcare Discovery System

7. Almazov National Medical Research Centre,
   Akkuratova, 2,
   St. Petersburg 197341, Russia
   HEGL-0139 x1 used for calibrating the GE Healthcare Discovery System

8. National Medical Research Center of Oncology named after N.N. Blokhin of the MoH of the Russian Federation
   Kashirskoe shosse, 24,
   Moscow 115478, Russia
   HEGL-0139 x3 used for calibrating the GE Healthcare Discovery System

9. Republican Clinical Oncology Dispensary named after prof. M.Z. Sigal
   Siberian tract str., 29,
   Kazan 420029, Russia
   EG-0320 x1 used for calibrating the GE Healthcare Discovery System

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Please note further details of the sources mentioned in Section 10:

a) EG-0320 (drawing 1948) is an annulus phantom source made of ABS (plastic) which contains Ge-68 with a length of 11.79" and an overall diameter of 5.39". This source is registered under SS & DR no. CA-0406-S-184-S

b) HEGL-0140 (drawing 3429) is a stainless steel line source containing Ge-68 with a rod assembly length of 8.5" and an overall diameter of 0.16”. The total length of the rod and handle is 11.54”. This source is registered under SS & DR no. CA-0406-S-185-S.

c) HEGL-0132 (drawing 3429) is a stainless steel line source containing Ge-68 with a rod assembly length of 8.5" and an overall diameter of 0.16". The total length of the rod and handle is 11.54”. This source is registered under SS & DR no. CA-0406-S-185-S.

d) EG-0321-SET (drawing 1943) consists of 3 plastic spheres filled with Ge-68. Each sphere has an overall diameter of 0.748". This source is registered under SS & DR no. CA-0406-S-148-S.

e) MRVQC-068 is a foam phantom consisting of 5 plastic spheres filled with Ge-68. Each sphere has an overall diameter of 0.748". This source is registered under SS & DR no. CA-0406-S-148-S.

f) VQC-068 (drawing 1943) is a phantom source made of foam containing 5 plastic spheres filled with Ge-68. Each sphere has an overall diameter of 0.748". This source is registered under SS & DR no. CA-0406-S-148-S.

g) HEGL-0139 (drawing 3429) is a stainless steel line source containing Ge-68 with a rod assembly length of 8.5" and an overall diameter of 0.16”. The total length of the rod and handle is 11.54”. This source is registered under SS &DR no. CA-0406-S-185-S

Eckert & Ziegler
Isotope Products

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

www.ezag.com

28th August 2022

Deputy Director,
Office of International Programs,
U.S. Nuclear Regulatory Commission,
Washington, DC 20555-0001

Re: Export license request for export to Russia

Dear Deputy Director,

Please find enclosed our NRC Form 7 license application for the export of medical sources containing Ge-68 to Russia. This combines the application submitted on 20th July 2022, titled "Export License Russia / 11Jul22" and the second application submitted on 10th August 2022, titled "Export License Russia / 01Aug22", as per the NRC Sr. Licensing Officer's request. This combined application does not include three of the end users which were present in the second application as the Russian distributor purchased comparable sources from another company due to the delay but did solicit sources for three further end users.

The sources would be manufactured by us, Eckert & Ziegler Isotope Products, under CA Radioactive Materials License no. 6795-19. Bebig Isotopen is the Russian distributor who holds the import license and four end users who would take possession of the sources to calibrate PET / CT scanners.

Sincerely,

Ms. Gurpreet Hayhre,
Regulatory Affairs Officer

Enclosures: NRC Form 7 (4 pages)
End Use Statements (9)
Bebig Isotopen Import Licenses (in Russian and translated into English)