


NRC FORM 7 (07-2019) 10 CFR 110		U. S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0027	EXPIRES: 02/28/2022	
 <b>APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S)</b> <i>(See Instructions on Pages 4 and 5)</i>		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 estimates to the Information Services Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to <a href="mailto:Infocollects.Resource@nrc.gov">Infocollects.Resource@nrc.gov</a> , 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.				
		<b>PART A. FOR NRC USE ONLY</b>		<input checked="" type="checkbox"/> Public OR <input type="checkbox"/> Non-Public		Date Received <b>05/04/2020 JMS</b>
License Number <b>XW027</b>		Docket Number <b>11006380</b>		Adams Accession Number:		
<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  <b>Perma-Fix Northwest Richland, Inc.            2025 Battelle Blvd.            Richland, WA 99354</b>		1a. Name of Applicant's Contact  <b>Richard Grondin</b>		1b. Applicant's Reference Number  <b>NA</b>		
		1c. Office Telephone Number  <b>(509) 375-7026</b>		1d. Office Facsimile Telephone Number  <b>(509) 375-0613</b>		
		1e. Applicant's E-mail Address  <b>rgrondin@Perma-Fix.com</b>				
2. Type of Action Requested (Check one)		<input checked="" type="checkbox"/> Export (Parts B, C, E)		<input type="checkbox"/> Amendment/Renewal Current License Number:		
		<input type="checkbox"/> Import (Parts B, D, E)		<input type="checkbox"/> Consent Request (Parts B, C) Current License Number:		
3. Contract Number(s)			4. First Shipment Date <b>09/01/2020</b>	5. Last Shipment Date <b>09/01/2024</b>	6. Proposed Expiration Date <b>09/01/2025</b>	
<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 U. S. Suppliers and/or other U. S. Parties to the Export  <b>Diversified Scientific Services, Inc.            657 Gallaher Rd.            Kingston, TN 37763</b>  Contact person: Kenyon Mee Contact phone: (865) 376-8713 Contact email: <a href="mailto:kmee@perma-fix.com">kmee@perma-fix.com</a>		8. Name(s)/Address(es) of Intermediate Foreign Consignee(s)  <b>NA</b>		9. Name(s)/Address(es) of Ultimate Foreign Consignee(s)  <b>Eckert &amp; Ziegler Nuclitec GmbH            Gieselweg 1            38110 Braunschweig, Germany</b>  Contact person: Dr. Sebastian Reuther Contact phone: +45 5307 932-529 Contact email: <a href="mailto:Sebastian_reuther@ezag.com">Sebastian_reuther@ezag.com</a>		
7a. Function(s) Performed/Service(s) Provided <b>Waste treatment, then return Germany</b>		8a. Intermediate Use(s) <b>NA</b>		9a. Ultimate End Use(s) <b>Storage and disposal in Germany</b>		
10. Description of Radioactive Materials, Sealed Sources, Nuclear Facilities, Equipment, or Components; for Nuclear Equipment include Total Dollar Value of Equipment for Export  <b>The waste consist of liquid, shredded and combustible material produced from research medical and other industries (excluding Nuclear power plants). Plastics, paper, wood, Personal Protective Equipment (PPE), glass will be present primarily contaminated with C14, H3,Cs137, Co60, Ni63, Ra226, Sr90.</b>			10a. Maximum Total Volume/Element WGT (KG), or Total Activity (TBq)  <b>the maximum volume will 20,000 Kg and 0.0153 TBq</b>	10b. Max Enrichment or WGT%  <b>No special nuclear material involved in this project</b>	10c. Max Isotope WGT (KG)  <b>No special nuclear material involved in this project.</b>	
11. Foreign origin (or obligations by country and, if known, by percentage of maximum total volume) <b>1 00 % of the incoming volume will come from Germany</b>						

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License Number <b>XW027</b>	Docket Number <b>11006380</b>	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 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)		
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. Maximum 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) (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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17a. Copies of Recipient's Authorizations Provided? <input type="checkbox"/> Yes <input type="checkbox"/> No		
18. Certification: <b>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.</b>				
18a. Print Name and Title of Authorized Official Richard Grondin, Vice President and General Manager of Perma-Fix Northwest Richland, Inc.	18b. Signature -- Authorized Official <b>Richard Grondin</b> Digitally signed by Richard Grondin Date: 2020.04.29 14:30:52 -07'00'		18c. Date 04/27/20	

**NRC FORM 7**  
(07-2019)  
10 CFR 110

U. S. NUCLEAR REGULATORY COMMISSION

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

License Number <b>XW027</b>	Docket Number <b>11006380</b>	Adams Accession Number	<input checked="" type="checkbox"/> Public <b>OR</b> <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)

Refer to attachment 1 for supplemental informations.



April 27<sup>th</sup>, 2020

Mr. Stanley Freeman  
Office of International Programs  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike,  
Rockville, MD 20852

Subject: Application for a Specific License to Export Radioactive Waste to Germany

Dear Mr. Freeman,

Perma-Fix Northwest Richland, Inc. submits this application for a Specific License to export radioactively contaminated waste from the United States to Germany. The source of the waste is Eckert & Ziegler Nuclitec GmbH located in Braunschweig Germany. The incoming waste to the US mainly consists of DAW, contaminated PPE, paper, plastic, glass, liquid and combustible waste generated by medical and pharmaceutical research projects and other industries (excluding Nuclear Power Plants). The treated waste exported mainly consists of residual thermal treatment (ash) and some non-combustible metal.

The purpose of the export application is to allow treated waste that is attributable to the Germany source to be exported back to the country of origin, Germany, in appropriate shipping containers.

The primary facility that will receive, treat and export the treated waste will be Perma-Fix Northwest located in Richland, WA. Alternatively the Diversified Scientific Services located in Kingston, TN and the Perma-Fix of Florida located in Gainesville, FL are the two others Perma-Fix facilities that can process and export the treated waste. All three facilities possess State Radioactive Material Licenses.

The appropriate application is attached. If you need additional information, please feel free to call me at (509) 375-7026.



Sincerely,

A handwritten signature in black ink, appearing to read "R. Grondin", is written over a light blue horizontal line.

Richard Grondin  
Vice President Western Operations  
Perma-Fix Environmental Services Inc.  
2025 Battelle Blvd  
Richland, WA 99354  
[rgrondin@perma-fix.com](mailto:rgrondin@perma-fix.com)

Attachments:

- 1) Export application NRC Form 7
- 2) Supplemental information



Attachment 1: Supplemental information for PFNW Application to export treated radioactive waste to Germany (NRC Form 7)

a) Radioactive Material License of the parties involved:

**Perma-Fix Northwest** Radioactive Material License: WN-I0393-1, issued by the State of Washington Department of Health.

**Diversified Scientific Services** Radioactive Material License: R-73014-H24 issued by the Tennessee Department of Environment and Conservation, Division of Radiological Health.

**Perma-Fix of Florida** Material License: 2598-1 issued by the State of Florida Department of Health Bureau of Radiation Safety.

The activity level for all the radioactive contaminants for the waste exported under this license will not at any time exceed the PFNW, DSSI or PFF domestic possession limits as found in their State License.

b) Part c. 7. Name(s)/Address(es) of U.S. Supplier and/or other U.S. Parties to the export:

The primary facility for this project is Perma-Fix Northwest Richland, Inc. We want to add a Perma-Fix Facility to be parties of the export. This Facility may potentially receive waste for treatment and return to country of origin:

Perma-Fix of Florida, Inc.  
1940 N.W. 67<sup>th</sup> Place  
Gainesville, FL 32653  
Contact Person: Kevin Schmuggerow  
Contact Phone: (352) 373-6066  
Contact Email: kschmuggerow@perma-fix.com

c) Description of the waste included (NRC Form 7, Part C.10, 10a, 10b, 10c.):

Incoming to US:

The incoming waste to the US from Germany will mainly be in DAW, PPEs, paper, plastic, glass and liquid. The waste was generated by medical and pharmaceutical research projects and other industries (excluding Nuclear Power Plants).

The waste will be treated by thermal processing, stabilization/solidification. The maximum quantity imported will not exceed 125,000 Kg. The table below represents the expected isotopic activity of the waste imported in the US. No Special Nuclear Material will be present:



Radionuclides Incoming waste to US	Activity (TBq)
H3	0.0123
C14	0.00815
Cs137, Co60, Sr90, Ra226, Tc99, Fe55,	0.00040
Ni63	2.38
Total (not to exceed)	2.40

**Outgoing (exported):**

The waste stream exported to the consignee (Germany) will be a solid form and consist of residual ash and residual metal or non-combustible material that cannot be recycled. If any incoming waste is determined to be non-conforming and cannot be treated at either PFNW, DSSI or PFF, this waste stream may be returned in its original state or form. The final destination of the treated waste and/or any non-conforming waste will be the Eckert & Ziegler Facility, in Braunschweig, Germany for interim storage and/or final disposal.

The maximum quantity of waste returned or exported will not exceed 20,000 Kg since the treatment process involves thermal treatment and volume reduction. The maximum isotopic activity returned will be 0.0153 TBq.

**d) Route of Transit:**

The treated waste will be transported via highway from Richland, WA, Kinston, TN or Gainesville, FL to the Philadelphia port then place on a ship to Antwerp, Belgium. From Antwerp it will be transported by highways to Braunschweig, Germany for long term storage and/or disposal. The shipment exit point from the US will be the Port of Philadelphia.

The treated waste will be packaged, marked and labeled and placarded to meet the Department of Transportation requirements and regulations set forth in 10 CFR Part 71.