

**STATE OF FLORIDA
DEPARTMENT OF HEALTH
BUREAU OF RADIATION CONTROL**

RADIOACTIVE MATERIALS LICENSE

Pursuant to Chapter 404, Florida Statutes, and Chapter 64E-5, Florida Administrative Code (F.A.C.), and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to receive, acquire, possess and transfer the radioactive material(s) designated below and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the state of Florida, Department of Health now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Name: PERMA-FIX OF FLORIDA, INC.</p>	<p>3. License Number: 2598-1 is hereby amended in its entirety with reference to correspondence dated November 9, 2021 and December 2, 2021.</p>
<p>2. Address: 1940 N.W. 67th Place Gainesville, FL 32653</p>	<p>4. Expiration Date: 2/28/2025 5. Category: 4B</p>

6. Radioactive Material (element and mass number)	7. Chemical And/Or Physical Form	8. Maximum Quantity Licensee May Possess At Any One Time
<p>A. Any radioactive material with Atomic Numbers 1 through 92 (except special nuclear material)</p> <p>B. Special nuclear material</p>	<p>A. Any form except gas</p> <p>B. Any form except gas</p>	<p>A. 80 curies</p> <p>B. 10 curies total. Uranium enriched in the isotope U-235 not to exceed 350 grams of U-235; U-233 not to exceed 200 grams; isotopes of plutonium not to exceed 200 grams. Any combination of the above not to exceed unity.</p>

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6. Radioactive Material (element and mass number)	7. Chemical And/Or Physical Form	8. Maximum Quantity Licensee May Possess At Any One Time
C. Transuranic (except special nuclear material)	C. Any form except gas	C. 1 curie total; not to exceed 100 nanocuries per gram of material for transuranic isotopes with a radiological half-life of 20 years or greater
D. Any radioactive material with Atomic Numbers 1 through 98 (except Cf-252)	D. Sealed sources	D. 20 curies total; not to exceed 50 millicuries each for sources with an Atomic Number greater than 83
E. Any radioactive material with atomic numbers 1 through 95	E. Any form except gas	E. 100 millicuries total; no single source to exceed 20 millicuries
F. Radioactive material distributed to a general licensee per 64E-5.206 (1) & (4), F.A.C.	F. Sealed sources	F. No single source to exceed that quantity authorized for the general license

9. Authorized Use

All materials shall be received, processed, and disposed in accordance with the provisions of 64 E.5, Florida Administrative Code, (F.A.C.) and the conditions contained in this license. The following authorizations shall be conducted in accordance with statements, representations, and procedures of the approved license and corresponding amendments.

- A. - C.
1. For receipt, storage, handling, consolidation, sorting and segregation, decontamination services; survey for release of potential contaminated materials, and repair of contaminated equipment;
 2. For processing of waste by treatment operations, compacting, sectioning, bulking, blending, neutralization, stabilization, drying, macro-encapsulation, reuse of contaminated equipment, containers, and packaging of these waste for transfer to authorized recipient or waste management or disposal facility;
 3. For research and development as defined in 64E-5.101, F.A.C., and as described in Condition 26.

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9. Authorized Use Continued:

- D. For receipt, storage, handling, consolidation, and repackaging of sealed sources for shipment to an authorized recipient or waste management or disposal facility.
- E. To be used as calibration and reference sources.
- F. To be used in devices approved for receipt under general license provisions as described in Items 6, 7 and 8.

CONDITIONS

- 10. The authorized place of use is the licensee's facility located at the address in Item 2.
- 11. Failure to comply with the provisions of this license is a felony of the third degree pursuant to section 404.161, Florida Statutes. Also, violations may warrant an administrative fine of up to \$1,000.00 per violation per day, pursuant to section 404.162, Florida Statutes.
- 12. A. Licensed material shall be used, at the facility listed in item 2 above and at temporary job sites, by or under the supervision and in the physical presence of, Mike Davis, Randy Self, Dwayne Singleton, Andy Owens, Kiara Ashford, Tom McCartt, Tom Yarbrough, John Baier, or other individuals who have successfully completed the licensee's training course as described in application dated May 29, 2015. The Licensee shall maintain training records for inspection by the department.
B. The radiation safety officer is Kiara Ashford.
- 13. The licensee shall comply with the provisions of Chapter 64E-5, F.A.C., Part IX, "Notices, Instructions and Reports to Workers; Inspections" and Part III, "Standards for Protection Against Radiation."
- 14. The licensee shall not transfer possession or control of radioactive material, or products containing radioactive material as a contaminant except:
 - A. By transfer to a specifically licensed recipient; or
 - B. As provided otherwise by specific provision of this license pursuant to the requirements of Chapter 64E-5, F.A.C.
- 15. Radioactive material transported on public thoroughfares shall be packaged, prepared for shipment, and transported in accordance with Title 49, Code of Federal Regulations and Chapter 64E-5, F.A.C.

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16. The licensee shall assure that each sealed source is tested for leakage or contamination and follow the appropriate actions as required by section 64E.5.1303, F.A.C. Licensed material shall be tested at least every 6 months. The test sample (smear) shall be taken by the licensee using an approved leak test kit. Analysis of the test sample shall be performed by individuals who are licensed by the department, NRC, agreement state, or licensing state to provide these services. The licensee is required to retain leak test records containing the manufacturer's name, model and serial number of each sealed source tested, identity of each sealed source radionuclide and its estimated activity, the measured activity of each test sample expressed in microcuries, the date of the test and signature of the radiation safety officer or designee. The records shall be maintained for 3 years for inspection by the department.
17. The licensee shall conduct a physical inventory and inspection at least every 12 months to account for all sealed sources received and possessed under this license as required by section 64E-5.1304, F.A.C. Inventory records shall be maintained for 3 years from the date of the inventory for inspection by the department, and shall include the manufacturer's name, model and serial numbers of each sealed source, the identity of each sealed source radionuclide and its estimated activity, the location of each sealed source, the date of the inventory and the signature of the radiation safety officer or designee.
18. The licensee shall notify the Bureau of Radiation Control at least 48 hours in advance of shipping its low-level radioactive waste to a commercial treatment, storage or disposal facility. Notification shall consist of either calling (407) 297-2095 or writing the Bureau of Radiation Control, Department of Health, Post Office Box 680069, Orlando, Florida 32868-0069.
19. Licensed material described in items 6, 7, 8 and 9 Subitems A through E, shall not be stored at the licensee's facility located at the address in Item 2, for a period greater than 3 years from the date of receipt. The licensee must maintain records of receipt and disposal, including dates, activities, and isotopes for inspection by the department.
20. The licensee shall notify the department within 48 hours of discovery of customers who submit radioactive materials not in conformance with Condition 21. This 48-hour notification may be by telephone. The notification shall include the generator's name, address, license number, isotopes, concentrations or activities, and dates and description of materials submitted. The notification shall be made in writing to the department within 30 days of discovery of the materials submitted to the licensee.
21. A. Specific activity for material described in Items 6, 7, 8 and 9, Subitems A-C are determined by calculation or sample analysis and averaged over the entire weight of the package.
- B. Radium 226 sealed sources authorized under 6, 7, 8, and 9, Subitem D must be leak tested within 30 days of shipment.

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22. A. In lieu of the bonding methods described in 64E-5.217, F.A.C., the licensee is considered to have satisfied the financial assurance requirements for this license provided: the licensee maintains the Insurance Certificate to Demonstrate Financial Assurance for Closure and Post Closure for Perma-Fix of Florida, Inc. FL 980711071 as described in The Agreement by and Between The Department of Environmental Protection, The Florida Department of Health, (formerly The Florida Department of Health and Rehabilitative Services), and Perma-Fix of Florida, Inc. dated August 14, 1995, signed by Robert Foster, President, Perma-Fix Environmental Services, Inc., the Certificate of Liability Insurance, dated August 28, 2014, and the correspondence between Perma-Fix of Florida, Inc. and the Florida Department of Environmental Protection dated September 15, 2014, signed by Edgar Echevarria, Environmental Specialist II, Hazardous Waste Regulation Section.
- B. Pursuant to 64E-5.217(1)(d), F.A.C., the department may re-evaluate, at any time, the adequacy of an existing bond or guaranty and may require an adjustment by either increasing or decreasing the amount of the bond or guaranty required.
23. The licensee shall comply with section 64E-5.1308, F.A.C., listing additional requirements for device(s) received under general license provisions as described in Items 6, 7, 8 and 9. The licensee shall conduct a physical inventory and inspection at least every 12 months to account for all sealed sources received and possessed under this license as required in section 64E-5.1304, F.A.C. Inventory records shall be maintained for 3 years from the date of the inventory for inspection by the department, and shall include the manufacturer's name, model and serial numbers of each sealed source, the identity of each sealed source radionuclide and its estimated activity, the location of each sealed source, the date of the inventory and the signature of the radiation safety officer of designee.
24. The licensee may dispose of any radioactive material which is not a sealed source with a physical half-life of less than 120 days by decay in storage provided all of the following are met:
- A. Radioactive material to be disposed is held for decay in storage a minimum of 10 half-lives.
- B. 1. The radioactive material is monitored at the container surface before disposal as ordinary trash and its radioactivity cannot be distinguished from the background radiation level in a low background radiation area with an appropriate radiation survey instrument set on its most sensitive scale and with no interposed shielding;
2. Radioactive materials contained in liquid scintillation media is to be sampled according to established procedures and disposed as non-regulated material as described in paragraph 64E-5.331(1)(a), F.A.C.

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24. C. All radiation labels are removed or obliterated, unless specifically authorized in writing or license condition by the department;
- D. Each generator column is separated and monitored individually with all radiation shielding removed to ensure that its contents have decayed to background levels before disposal; and
- E. The licensee shall retain a record of each disposal for 3 years. The record shall include:
1. The date of the disposal;
 2. The date on which the radioactive material was placed in storage;
 3. The radionuclides disposed;
 4. The model and serial number of the radiation survey instrument used;
 5. The background dose rate;
 6. The radiation dose rate measured at the surface of each container; and
 7. The name of the individual who performed the disposal.
25. The licensee shall not aggregate or collocate radioactive materials in storage in excess of a total of 16 curies of Am-241 or Am-241:Be, 5.3 curies of Cf-252, 13.4 curies of Cm-244, 8.0 curies of Co-60, 26.9 curies of Cs-137, 269 curies of Gd-153, 19.9 curies of Ir-192, 10,810 curies of Pm-147, 15.9 curies of Pu-238, 15.9 curies of Pu-239:Be, 53.9 curies of Se-75, 269 curies of Sr-90 (Y-90), 5,404 curies of Tm-170, 10.7 curies of Ra-226, or 80.9 curies of Yb-169. If several radionuclides are aggregated, the sum of the ratios of the activity of each source, i of radionuclide, n , $A_{(i,n)}$, to the quantity of concern for radionuclide n , $Q_{(n)}$, listed for that radionuclide will equal or exceed one. $[(\text{aggregated source activity for radionuclide A}) \div (\text{quantity of concern for radionuclide A})] + [(\text{aggregated source activity for radionuclide B}) \div (\text{quantity of concern for radionuclide B})] + \text{etc.} \geq 1$.
26. A. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, 8 and 9 of this license in accordance with statements, representations and procedures contained in the licensee's application and attestation dated February 21, 2020 (CO to Kurt Fogleman 2/6/17), signed by Randy Self, Operations Manager.

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26. B. The licensee shall comply with all applicable requirements of Chapter 64E-5, Florida Administrative Code, and these regulations shall supersede the licensee's statements in applications or correspondence, unless the statements are more restrictive than the regulations.



For the Bureau of Radiation Control:

Issuance Date: DEC 08 2021



Giovanna Manning
Environmental Specialist III
4052 Bald Cypress Way – Bin C21
Tallahassee, FL 32399-1741
850-245-4545

A party whose substantial interest is affected by this order may petition for an administrative hearing pursuant to sections 120.569 and 120.57, Florida Statutes. Such proceedings are governed by Rule 28-106, Florida Administrative Code. A petition for administrative hearing must be in writing and must be received by the Agency Clerk for the Department, within twenty-one (21) days from the receipt of this order. The address of the Agency Clerk is: Agency Clerk, 4052 Bald Cypress Way, BIN # A02, Tallahassee, Florida 32399-1703. The Agency Clerk's facsimile number is 850-410-1448. A copy of the petition should also be sent to: Bureau Chief, Bureau of Radiation Control, 4052 Bald Cypress Way, BIN # C21, Tallahassee, FL 32399-1741. The Bureau Chief's facsimile number is 850-487-0435. Mediation is not available as an alternative remedy. Your failure to submit a petition for hearing within 21 days from receipt of this order will constitute a waiver of your right to an administrative hearing, and this order shall become a "final order." Should this order become a final order, a party who is adversely affected by it is entitled to judicial review pursuant to Section 120.68, Florida Statutes. Review proceedings are governed by the Florida Rules of Appellate Procedure. Such proceedings may be commenced by filing one copy of a Notice of Appeal with the Agency Clerk of the Department of Health and a second copy, accompanied by the filing fees required by law, with the Court of Appeal in the appropriate District Court. The notice must be filed within 30 days of rendition of the final order.

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