



**HEART RHYTHM AND PACEMAKER SPECIALIST**

**25779 Kelly Rd, Suite C**

**Roseville, MI 48066**

**PH: 586-774-0700**

**FAX: 586-774-9841**

May 19, 2025

United States Nuclear Regulatory Commission

Region III, Materials Licensing Section

2056 Westings Ave., Suite 400

Naperville, IL 60563-2657

Close-out information for Heart Rhythm & Pacemaker Specialist, LLC, License # 21-32248-01.

To Whom It May Concern,

A close-out survey was performed on April 22, 2025 of our facility Heart Rhythm & Pacemaker Specialist, LLC, 25689 Kelly Road, Suite D, Roseville, MI 48066 and is enclosed for your review.

The last date of receipt and use of Tc-99m radioactive material at this site was June 5, 2024, for TI-201 2004. Those were the only radionuclides used at this facility. A current copy of the leak test results for the sealed sources used at our facility is enclosed for your review. Also the documentation for the disposal of our sealed sources to a waste contractor is enclosed. This facility is exempt from decommissioning due to low volumes and short physical half-lives of materials used.

We did not dispose of radioactive materials by release to sewers or incineration. In addition, there were no spills of any long-lived radioactive material or on-site burials of radioactive materials.

Cordially,

Dr. Sohail Hassan, CEO

HEART RHYTHM & PACEMAKER SPECIALIST, LLC

**RECEIVED**

**MAY 30 2025**

**HEART RHYTHM & PACEMAKER SPECIALIST, LLC****LICENSE #:21-32248-01****DATE:** 4/22/25**WELL COUNTER:** CAPRAC SN# 002308**MDA:** 30**SURVEY METER:** Ludlum 14C SN# 226161 **CK. VALUE:** 0.6mR/hr**CAL DATE:** 8/14/2024**PERFORMED BY:** Laura M. Luna, BS

	AREA	dpm	mR/h		AREA	dpm	mR/h
1	HL COUNTER	8	0.02	31	Stress Rm	14	0.02
2	HL COUNTER	8	0.02	32	Stress Rm	14	0.02
3	HL COUNTER	8	0.02	33	Stress Rm	0	0.02
4	RA STORAGE	8	0.02	34	Stress Rm	0	0.02
5	HL FLOOR	8	0.02	35			
6	HL FLOOR	8	0.02	36			
7	Imaging Rm	64	0.02	37			
8	Imaging Rm	64	0.02	38			
9	Imaging Rm	64	0.02	39			
10	Imaging Rm	64	0.02	40			
11	Imaging Rm	12	0.02	41			
12	Imaging Rm	12	0.02	42			
13	Imaging Rm	12	0.02	43			
14	Imaging Rm	12	0.02	44			
15	Imaging Rm	12	0.02	45			
16	Imaging Rm	0	0.02	46			
17	Imaging Rm	0	0.02	47			
18	Imaging Rm	0	0.02	48			
19	Imaging Rm	0	0.02	49			
20	Imaging Rm	24	0.02	50			
21	Imaging Rm	24	0.02	51			
22	Imaging Rm	24	0.02	52			
23	Imaging Rm	24	0.02	53			
24	Imaging Rm	24	0.02	54			
25	Stress Rm	0	0.02	55			
26	Stress Rm	0	0.02				
27	Stress Rm	0	0.02				
28	Stress Rm	0	0.02				
29	Stress Rm	0	0.02				
30	Stress Rm	0	0.02				

**ACTION LEVEL:** 200 dpm**EFFICIENCY (dpm/cpm):** 2.0 dpm**Background:** 272 cpm**NO EVIDENCE OF REMOVABLE CONTAMINATION**



**CERTIFICATE OF DISPOSITION  
OF MATERIALS**

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollections.Resource@nrc.gov, and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0028), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

<b>Licensee Name and Address</b> HEART RHYTHM & PACEMAKER SPECIALIST, LLC 25689 Kelly Road, Suite D Roseville, MI 48066	<b>License Number</b> 21-32248-01	<b>Expiration Date</b>  12/31/35
	<b>Docket Number</b>	

**A. LICENSE STATUS** (Check the appropriate box)

- This license has expired.  This license has not yet expired; please terminate it.

**B. DISPOSAL OF RADIOACTIVE MATERIAL**

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
  - a. Transfer of radioactive materials to the licensee listed below:
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 3. By waste contractor:  
Bionomics
  - c. All radioactive materials have been removed, any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.
  - d. Acknowledgment of receipt of the material by transfer or by disposal site is attached:

**C. SURVEYS PERFORMED AND REPORTED**

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
  - a. is attached; or  b. is not attached (Provide explanation); or
  - c. was forwarded to the NRC

Email Address: \_\_\_\_\_ on: Date: \_\_\_\_\_
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or
  - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

Name	Title	Telephone Number (Include area code)	Email Address
Sarita Rao	Manager	734-658-7706	saritarao1@yahoo.com

Mail all future correspondence regarding this license to:  
Sohail Hassan, M.D., 25779 Kelly Rd., Ste C, Roseville, MI 48066

**C. CERTIFYING OFFICIAL**

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

<b>Printed Name and Title</b> Sohail Hassan, M.D.	<b>Signature of Certifying Official</b> 	<b>Date</b> 5/19/2025
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WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.



P.O. Box 817 – Kingston, TN 37763 – (865) 220-8501

APRIL 15, 2025

SARITA RAO

HEART RHYTHM AND PACEMAKER SPECIALISTS  
25689 KELLY RD, STE C  
ROSEVILLE, MI 48066

Sarita,

As required by 10 CFR Part 20 (Appendix G), this letter is a notification that Bionomics, Inc. has received the shipment recently picked up at your facility on **April 9, 2025**.

Attached you will find a copy of your NRC Form 540 –**0425HRPS-SS**. The only change from the original is in Item No. 9 “signature” which identifies that Bionomics, Inc. is acknowledging receipt of waste from your facility.

Please keep this with your original, as well as future disposal certifications.

If you have any questions please feel free to contact me at (865) 220-8501.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jerry Noll', written over a horizontal line.

Jerry Noll  
QA Manager

Cc: File BIO-4-25

APPROVED BY OMB: NO. 3160-0184  
EXPIRES: 01/31/2022

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the PCIA, Library, and Information Collections Branch (1-8 A188), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [infocoll@nrc.gov](mailto:infocoll@nrc.gov), and OMB Reviewer at: OMB Office of Information and Regulatory Affairs, (259-0184). Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, D.C. 20503; e-mail [elrs\\_submission@omb.eop.gov](mailto:elrs_submission@omb.eop.gov). The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting the collection displays a currently valid OMB control number.

<b>FORM 540</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER</b>		<b>Bionomics, Inc.</b> 5. SHIPPER - NAME AND FACILITY Heart Rhythm and Pacemaker Specialists 25689 Kelly Rd, Ste C Roseville, MI 48066		SHIPMENT ID NUMBER 0425OHMI COLLECTOR PROCESSOR X GENERATOR TYPE (Specify) M TELEPHONE NUMBER (Include Area Code) (734) 6567706		7. FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A NONE PAGE(S) FORM 542 AND 542A NONE PAGE(S) ADDITIONAL INFORMATION NONE PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 0425HRPS-SS											
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (800) 424-9300 ORGANIZATION CHEMTREC / CCN825454		USER PERMIT NUMBER T-TN006-J25 SHIPMENT NUMBER 0425HRPS-SS CONTACT Serita Rao		CONTACT John McCormick TELEPHONE NUMBER (Include Area Code) (865) 220-8501		9. CONSIGNEE - Name and Facility Address Bionomics, Inc. Operated By EnergySolutions, Inc. 1560 Bear Creek Road Oak Ridge, TN 37831		CONTACT John McCormick TELEPHONE NUMBER (Include Area Code) (865) 220-8501 DATE 9/15/25											
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		6. CARRIER - Name and Address Bionomics, Inc. 1560 Bear Creek Road Oak Ridge, TN 37830 CONTACT John McCormick SIGNATURE - Authorized carrier acknowledging waste receipt DATE 4-9-25		TRUCK #: TRAILER #: EPA ID NUMBER TND082116493 SHIPPING DATE 04/09/2025 TELEPHONE NUMBER (Include Area Code) 865-220-8501		10. CERTIFICATION This is to certify that the hereinafter described materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to applicable regulations of the Department of Transportation, the Commission, and equivalent state regulations. For materials that are transported to land disposal facility or waste collector, this certifies that the materials are classified per the applicable requirements of 10 CFR Part 81, meet the land disposal facility's waste acceptance criteria, and are in proper condition for disposal as described in accordance with the applicable requirements of 10 CFR Parts 20 and 81, or equivalent state regulations. A collector in signing this certification is certifying that nothing has been done to the collected waste which would invalidate the waste generator's certification. AUTHORIZED SIGNATURE TITLE DATE 4/9/25											
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "Yes", provide Manifest Number		EPA MANIFEST NUMBER N/A		11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information) UN2915, RADIOACTIVE MATERIAL, TYPE A PACKAGE NON-SPECIAL FORM, 7 SEALED SOURCES 1 - 5 GAL METAL PAIL		12. DOT LABEL "RADIOACTIVE" Yellow II		13. TRANSPORT INDEX 0.1		14. PHYSICAL AND CHEMICAL FORM SOLID/OXIDES		15. INDIVIDUAL RADIONUCLIDES BA-133; CS-137		16. TOTAL PACKAGE ACTIVITY MBq 6.1628E+00		17. TOTAL WEIGHT OR VOLUME (Use appropriate units) mCi (1.8656E-01) 0.88 lb 15.00 lb		18. IDENTIFICATION NUMBER OF PACKAGE HRPS-SS (25-000881)	
FOR CONSIGNEE USE ONLY <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment		19. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is (or) is not a hazardous waste as defined in 49 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the applicable hazardous materials notice and/or certification as required by 49 CFR 265.1. B. TITLE: Upon acceptance of the disposal site by EnergySolutions, Inc. and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall be transferred from Generator and be vested in EnergySolutions, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST are true and correct in all respects and in accordance with all applicable governmental laws, rules, and regulations and Bionomics of OH, Inc.'s facility license. D. INDORPORATION: Generator agrees to indemnify EnergySolutions, Inc., its officers, employees, and agents against all losses and liability whatsoever if such losses or liability result from the failure of the Waste Material to conform to all federal, state or local laws and regulations, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.																	

APPROVED BY OMB: NO. 3150-0186  
 EXPRES: 01/31/2023

Estimated burden per response to comply with this information collection request: 2.5 hours. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimates to the FOIA, Library, and Information Collection Branch (T-4 A19B), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to [infocoll@nrc.gov](mailto:infocoll@nrc.gov), and the OMB reviewer at: OMB Office of Information and Regulatory Affairs, (7509-0126), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; e-mail: [omb\\_nrc@omb.eop.gov](mailto:omb_nrc@omb.eop.gov). The NRC may not contact or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

<b>FORM 541</b> <b>UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST</b> <b>CONTAINER AND WASTE DESCRIPTION</b> Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste		<b>Biowonics, Inc.</b>		<b>1. MANIFEST TOTALS</b>						<b>2. MANIFEST NUMBER</b> 0425HRP8-88 <b>3. PAGE 1 OF 1 PAGE(S)</b> <b>4. SHIPPER NAME</b> Heart Rhythm and Pacemaker Specialists <b>SHIPMENT ID NUMBER</b> 0425CF#A1											
		<b>NUMBER OF PACKAGES/ DISPOSAL CONTAINERS</b> 1		<b>NET WASTE VOLUME</b> m <sup>3</sup> 0.0193 kg ft <sup>3</sup> 0.6800 ton		<b>NET WASTE WEIGHT</b> 4.99 0.01		<b>SPECIAL NUCLEAR MATERIAL (grams)</b> U-235 U-238 Pu TOTAL NP NP NP NP		<b>SOURCE</b> To-40 I-129											
		<b>ALL NUCLIDES</b> MBq mCi 5.1628E+00 1.5656E-01		<b>ACTIVITY (MBq/mCi) (LLD UNITS IN uCi/cc)</b> TRITIUM C-14 NP NP NP NP																	
<b>5. DISPOSAL CONTAINER DESCRIPTION</b>		<b>7. VOLUME</b> m <sup>3</sup> ft <sup>3</sup>		<b>8. WASTE AND CONTAINER WEIGHT</b> kg ton		<b>10. SURFACE RADIATION LEVEL</b> mSv/hr mrem/hr		<b>11. SURFACE CONTAMINATION</b> MBq/100 cm <sup>2</sup> dpm/100 cm <sup>2</sup> ALPHA BETA-GAMMA		<b>12. WASTE DESCRIPTION</b> (See Note 2 & Note 2A)		<b>13. APPROXIMATE VOLUME(S) IN CONTAINER</b> m <sup>3</sup> ft <sup>3</sup>		<b>14. SOLIDIFICATION OR STABILIZATION MEDIA</b> (See Note 3)		<b>15. CHEMICAL DESCRIPTION</b> CHEMICAL FORM OR TINO AGENT WEIGHT % CHELATING AGENT IF > 0.1%		<b>16. RADIOLOGICAL DESCRIPTION</b> INDIVIDUAL RADIONUCLIDES AND ACTIVITY AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT RADIONUCLIDES uCi/m mCi mCi		<b>17. WASTE CLASSIFICATION</b> AS - Class A Stable (U - Class A Unstable B - Class B C - Class C	
# - Inventory in Container 25-000981 (HRP8-88) Origin: MI Heart Rhythm and Pacemaker Specialists 25688 Kelly Rd, Ste C Roseville, MI 48066 Package Total Shipment Total		4 0.0193 0.6800		6.90 0.01		4.99 0.01		0.01 < 0.01 < 0.000016 < 10		H 36 0.0193		100 0.6800		SOLID OXIDES / NP NP BA-133 CS-137 Sub Total 3.3363E+04 6.1628E+00 1.8566E-01		AU 9.3957E+01 2.3967E+04 4.4289E 1.1940E-01 6.1628E+00 1.8566E-01		1.8566E-01			

**NOTE 1: Container Description Codes.** For containers/assets requiring disposal as approved structural supports, the material code must be followed by "OP".

1. Wooden Box or Crate	8. Drum/Barrel
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Disposed Waste
4. Metal Drum or Pail	12. Disposed Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	14. Other, Describe in Item 4, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

**NOTE 1A: Bulk Packaging Description Codes** (Choose one code as may be applicable.)

A. Concrete
B. Intermodal
C. End-Use
D. Bulk-Off
E. Other

**NOTE 2: Waste Descriptor Codes.** (Choose up to three which predominate by volume.)

20. Charcoal	28. Demolition Rubble	36. Responder Bottoms/Sludges/Contaminates
21. Incinerator Ash	29. Carbon Ion-Exchange Media	37. Carbon Ion-Exchange Media
22. Soil	30. Mixed Bed Ion-Exchange Media	38. Miscellaneous Trash
23. Slag	31. Organic Liquid (except oil)	39. Miscellaneous Equipment
24. Oil	32. Organic Liquid (except oil)	40. Organic Liquid (except oil)
25. Aqueous Liquid	33. Chemicals or Liquors	41. Biological Material (except animal carcass)
26. Filter Media	34. Solid Slimes/Sludges	42. Animal Carcass
27. Mechanical Filter	35. Paint or Poling	43. Animal Carcass
28. EPA or State Hazardous		44. Other, Describe in Item 12, or additional page

**NOTE 2A: Specific Waste Descriptions** (Choose all applicable codes.)

G. Discharged
H. Solid
I. Corrosible
J. Non-corrosible
K. Air Pollution Filter
L. Asbestos

**NOTE 3: Solidification and Stabilization Media Codes.** (Choose up to three which predominate by volume.) For media meeting disposal as approved structural support requirements, the material code must be followed by "OP" and the media vendor and brand name must also be identified in Item 14. Code 100=None Required

50. Cement	54. Vinyl Ester Resins
51. Concrete (precastation)	55. Other, Describe in Item 14, or additional page
52. Bitumen	100. None Required
53. Vinyl Chloride	



**Sealed Source Leak Test**

Licensee: Heart Rhythm & Pacemaker Specialist, LLC

Date: 03/18/25

Performed by: Lauren Eicher

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N - Manuf.	S/N
Cs-137	Vial	206 uCi	05/27/00	HOT LAB	NES 356	S356043-011
		Current Activity: 116.1uCi			DUPONT	
Ba-133	Vial	277 uCi	10/08/97	STORAGE	NES 358	S358023-049
		Current Activity: 45.428uCi			DUPONT	
Co-57	Flood	10 mCi	05/01/22	Hot Lab	PF16R-057-10M	2299-147
		Current Activity: 0.678mCi			E & Z	

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The leak test wipes were analyzed using instrumentation capable of detecting 185 Bq (0.005 uCi) radioactivity on the wipe.

**RADIATION SAFETY OFFICER:** 