



### Materials Inspection Record

1. Licensee Name: Bionomics, Inc.		2. Docket Number(s): 150-00041		3. License Number(s) TN-R-73021-E25	
4. Report Number(s): 2022-001			5. Date(s) of Inspection: March 3, 2022		
6. Inspector(s): Ryan Craffey		7. Program Code(s): 03226	8. Priority: 2	9. Inspection Guidance Used: IP 87125	
10. Licensee Contact Name(s): John McCormick - RSO		11. Licensee E-mail Address: jmccormick@bionomics-inc.com		12. Licensee Telephone Number(s): 865-220-8501	
13. Inspection Type: <input type="checkbox"/> Initial <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input checked="" type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced		14. Locations Inspected: <input type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input checked="" type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote		15. Next Inspection Date (MM/DD/YYYY): TBD <input type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input checked="" type="checkbox"/> No change	

16. Scope and Observations:

Bionomics was authorized by the State of Tennessee to perform a variety of waste handling and processing activities at its facility in Kingston, Tennessee, and at temporary job sites in State jurisdiction. The company performed work at temporary job sites in NRC jurisdiction under the terms of a reciprocity request filed in February 2022 for the remainder of the calendar year. The scope of this inspection was limited to an evaluation of waste handling activities (preparing and packaging of disused fixed gauges) at the site of the former Detroit Renewable Power station at 5700 Russell Street in Detroit, Michigan.

The inspector accompanied the licensee's field personnel to the job site in Detroit to observe the preparation and packaging of 29 generally licensed fixed gauges containing Cs-137 sealed sources that had already been removed from process equipment and secured in a locked and posted multi-modal container. The licensee's staff secured the shutter of each fixed gauge in the closed position (if not already locked closed) and packaged all 29 in a Type A container with due consideration for minimizing exposure rates outside the package and limiting the shifting of contents. The package was adequately labeled (as confirmed by independent surveys) and blocked and braced along with other waste containers in the licensee's vehicle. Radiation exposure rates exterior to the vehicle and in the passenger compartment were below regulatory limits to members of the public in unrestricted areas. The licensee's personnel used adequate dosimetry and calibrated and operable radiation detection instruments during this work, and were knowledgeable of radiation protection principles and regulatory requirements for radiation protection and transportation of hazardous material.

The inspector reviewed a selection of records including shipping papers and waste manifests. Following the inspection, the inspector also confirmed that the package containing the disused gauges was received without incident by the licensee at its facility in Tennessee, with an estimated burial date in August or September 2022 at an authorized disposal facility in Texas.

No violations of NRC requirements were identified as a result of this inspection.