



January 18, 2017

FED EX TRACKING NO.

Director of Office of Nuclear Material Safety and Safeguards
Attn: GLTS
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

7782 0087 8663

To Whom it may concern:

Obsolete equipment containing radioactive material has been shipped for disposal. In accordance with the requirements of 10 CFR 31.5, this letter serves to notify the US NRC that on January 12, 2017, the General Motors LLC – Bay City facility, located at 1001 Woodside Avenue, Bay City, MI 48708 shipped an Alnor Dew Pointer containing radioactive material (radium) offsite for disposal. All available information on the equipment is listed below:

- Isotope – radium
- Strength of radiation – $7e^{-3}$ mCi
- Model – unknown
- Serial No. – unknown
- Age – exact date unknown
- Contact of Manufacturer – Alnor is out of business

The equipment was transported for General Motors by Bionomics, Inc.:

Bionomics, Inc.
PO Box 817, Kingston, TN 37763
Phone (865) 220-8501
License number - R-73021-E25

The designated disposal facility is Waste Control Specialists, LLC, located in Andrews, TX, phone number (432) 523-4444.

A copy of the manifest, number 0117GM, is included as an attachment.

If you have any questions or require additional information, please contact me at (989) 239-8413.

Sincerely,

Lynn Porath, CHMM
Sr. Environmental Project Engineer

General Motors LLC
Bay City Components – 1001 Woodside Avenue.
Bay City, Michigan 48708 – mail code 486-100-210

Estimate burden estimate (U.S. Records and Privacy Services Branch (T-3 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to infocollections@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, HECB-10202, (316D-0164), 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.

FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		Bionomics, Inc.		5. SHIPPER - NAME AND FACILITY Bionomics, Inc. for General Motors LLC - Bay City Plant 1001 Woodside Ave. Bay City, MI 48708		SHIPMENT ID NUMBER 0117GM		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		PAGE 1 OF 1 PAGE(S) 1 PAGE(S) NONE PAGE(S) NONE PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 0117GM	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (800) 535-5053		USER PERMIT NUMBER		SHIPMENT NUMBER 0117GM		COLLECTOR PROCESSOR X GENERATOR TYPE (Specify) 1		9. CONSIGNEE - Name and Facility Address Bionomics, Inc. Operated By Bionomics, Inc. 1550 Bear Creek Road Oak Ridge, TN 37830		CONTACT John McCormick TELEPHONE NUMBER (Include Area Code) (865) 220-8501			
ORGANIZATION Infotrac Acc# 80016		CONTACT Lynn Porath		TELEPHONE NUMBER (Include Area Code) (989) 239-8413		SIGNATURE - Authorized consignee acknowledging waste receipt <i>Paul Nipper</i>		DATE 1-13-17					
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. 1550 Bear Creek Road Oak Ridge, TN 37830		Truck #: Trailer #:		EPA I.D. NUMBER TND82118493 SHIPPING DATE 1-12-17		10. CERTIFICATION This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and in proper condition for transportation and disposal in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulation.			
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes", provide Manifest Number →		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		EPA MANIFEST NUMBER N/A		CONTACT John McCormick		SIGNATURE - Authorized carrier acknowledging waste receipt <i>John McCormick</i>		DATE 1-12-17		AUTHORIZED SIGNATURE <i>John McCormick</i>	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS	
UN2915, RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7 SEALED SOURCES 1 - 10 GAL METAL DRUM		White I		NA		SOLID/OXIDES RA-226				2.5900E-01 (7.0000E-03)		NA	
										1.36 ft ³ 30.00 lb		18. TOTAL WEIGHT OR VOLUME (Use appropriate units) GM-01 (17-000001)	
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		20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is (or) is not hazardous waste as defined in 40 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 appropriate land-disposal restriction notice and/or certification as required by 40 CFR 268.1. B. TITLE: Upon acceptance at the disposal site by EnergySolutions, Inc. and all appropriate regulatory authorities, title to the Waste Material which conforms to Generator's representations herein shall thereupon transfer 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 Environmental of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify EnergySolutions, Inc., its officers, employees, and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to conform in all material respects to the data supplied on the UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									

to comply with this info. manifest is required by NRC, and State Agencies for the safe trans- disposal of low-level waste. Send comments regarding
 burden estimate to the Records and FOIA/Privacy Service Branch, (P-15 F82), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOP-10202, (3150-0166),
 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.

FORM 541										Bionomics, Inc.		1. MANIFEST TOTALS										2. MANIFEST NUMBER							
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST										NUMBER OF PACKAGES/ DISPOSAL CONTAINERS		NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)										0117GM			
CONTAINER AND WASTE DESCRIPTION										1		m ³ ft ³		0.0385 kg 1.3600 ton		0.45 0.00		U-233 U-235 Pu TOTAL										NP NP NP NP	
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste										ALL NUCLIDES		MBq mCi		2.5000E-01 7.0000E-03		TRITIUM NP NP		C-14 Tc-99 I-129 NP NP NP										SOURCE	
DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION									
5. CONTAINER IDENTIFICATION NUMBER	6. CONTAINER DESCRIPTION (See Note 1 & 1A)	7. VOLUME m ³ ft ³	8. WASTE AND CONTAINER WEIGHT kg ton	9. SURFACE RADIATION LEVEL mSv/hr mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm ² dpm/100 cm ²	11. WASTE DESCRIPTION (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER m ³ ft ³	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION	15. RADIOLOGICAL DESCRIPTION	16. WASTE CLASSIFICATION																		
												INDIVIDUAL RADIONUCLIDES AND ACTIVITY AND CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT																	
												RADIONUCLIDES pCi/gm MBq mCi																	
17-000001 (GM-01)	4	0.0385	13.61	< 0.005	< 0.000000334	H 36	0.0385	100	SOLID OXIDES / NP	NP	RA-226	1.5432E+04	2.5900E-01	7.0000E-03	C														
Origin: MI		1.3600	0.02	< 0.5	< 20		1.3600				Sub Total	1.5432E+04	2.5900E-01	7.0000E-03															
General Motors LLC - Bay City Plant																													
1001 Woodside Ave																													
Bay City, MI 48708																													
Package Total												1.5432E+04	2.5900E-01	7.0000E-03															
Shipment Total		0.0385	13.61										2.5900E-01	7.0000E-03															
		1.3600	0.02																										

NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks, the numerical code must be followed by "OP."

- 1. Wooden Box or Crate
- 2. Metal Box
- 3. Plastic Drum or Pail
- 4. Metal Drum or Pail
- 5. Metal Tank or Liner
- 6. Concrete Tank or Liner
- 7. Polyethylene Tank or Liner
- 8. Fiberglass Tank or Liner
- 9. Drum/Container
- 10. Gas Cylinder
- 11. Bulk, Unpackaged Waste
- 12. Unpackaged Components
- 13. High Integrity Container
- 14. Other, Describe in Item 15, or additional page

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

- A. Gondola
- B. Intermediate
- C. End-dump
- D. Roll-off
- E. Searail

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

- 20. Charcoal
- 21. Incinerator Ash
- 22. Soil
- 23. Gas
- 24. Oil
- 25. Aqueous Liquid
- 26. Filter Media
- 27. Mechanical Filter
- 28. EPA or State Hazardous
- 29. Demolition Rubble
- 30. Cation Ion-exchange Media
- 31. Anion Ion-exchange Media
- 32. Mixed Bed Ion-exchange Media
- 33. Contaminated Equipment
- 34. Organic Liquid (except oil)
- 35. Glassware or Labware
- 36. Sealed Source/Device
- 37. Paint or Plating
- 38. Evaporator Bottoms/Sludges/ Concentrates
- 39. Compressible Trash
- 40. Noncompressible Trash
- 41. Animal Carcasses
- 42. Biological Material (except animal carcasses)
- 43. Activated Material
- 44. Other, Describe in Item 15, or additional page

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

- G. Gas/volatile
- H. Solid
- I. Combustible
- J. Non-combustible
- K. Air Filtration Filters
- L. Asbestos

NOTE 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "SS" and the media vendor and brand name must also be identified in Item 15. Code 100=None Required

- 50. Cement
- 51. Concrete (encapsulation)
- 52. Bitumen
- 53. Vinyl Chloride
- 54. Vinyl Ester Styrene
- 55. Other, Describe in Item 15, or additional page
- 100. None Required