Yale *Environmental Health & Safety*

135 College Street, Suite 100
New Haven CT 06510-2483
T 203 785-3550 F 203 785-7588
www.yale.edu/ehs

May 25, 2011

MS16
J-6

Mr. Dennis Lawyer
Mail Control # 575063
USNRC Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Re: NRC Request for Additional Information Concerning Application for Amendment to Yale University Licenses, Control # 575063

03000582

Dear Mr. Lawyer:

This is a response to your email dated May 24, 2011 in which you requested additional information regarding the request to remove a cesium 137 source line item (6.11) from Yale University NRC License # 06-00183-03.

Enclosed you will find written confirmation from the receiving vendor that the source has indeed been transferred. In addition leak test results for the last leak test performed on this source are as follows:

> Leak test was performed on May 21, 2010 and no counts above background were detected. Result recorded as < 0.005 uCi.

If you have any further questions on this matter, please contact me at 203.737.2140 or tammy.stemen@yale.edu. Thank you for your timely assistance.

Sincerely,

Tammy Stemen, CHP
Radiation Safety Officer
Yale University

575063

REC'D IN LAT MAY 26 2011

NMSS/RGN1 MATERIALS-002

Bionomics

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

August 27, 2010

Mr. James Watkins
Yale University
Environmental, Health & Safety
268 Whitney Ave.
New Haven, CT 06511

RE: Barnwell Disposal Certificate

Dear Mr. James Watkins:

This is to certify that the following radioactive material picked at your facility on June 22, 2010, on manifest # 62210, container # YALE1, has been disposed of at the Barnwell Waste Management Facility in Barnwell, SC.

Please reference the following table for detailed disposal information of shipment.

Barnwell Manifest Number	Barnwell Container Number	Disposal Volume (m^3)	Barnwell Shipment Number	Barnwell Disposal Date
0810-13935	B10-3	0.60	0810-13935	08/18/2010

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

Thank you,

Rene Guy
Administrative Manager

Cc: File

Bionomics

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

June 28, 2010

Mr. James Watkins
Yale University
Environmental, Health & Safety
268 Whitney Ave.
New Haven, CT 06511

Dear Mr. James Watkins:

As required by 10 CFR Part 20 (Appendix G), this letter is notification that Bionomics, Inc. has received the shipment recently picked up at your facility on June 22, 2010. Attached you will find a copy of your NRC Form 540, 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,

Rene Guy
Administrative Manager

Cc: File BIO-06-10

NRC FORM 540 — BIONOMICS, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER

1. EMERGENCY TELEPHONE NUMBER (Include Area Code)
(865) 220-8520

ORGANIZATION
BIONOMICS, INC.

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?
[X] YES [ ] NO

3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST: 1

4. DOES EPA REGULATED WASTE REQUIRED A MANIFEST ACCOMPANY THIS SHIPMENT? [ ] YES [X] NO
If "Yes" provide Manifest Number:

EPA MANIFEST NUMBER

5. SHIPPER - NAME AND FACILITY
Bionomics For:
Yale University
298 Whitney Ave.
New Haven, CT 06511

USER PERMIT NUMBER | SHIPMENT NUMBER

CONTACT
James Watkins

6. CARRIER - Name and Address
Bionomics Inc.
1550 Bear Creek Road
Oak Ridge, Tn. 37830

CONTACT
John McCormick

SIGNATURE - Authorized carrier acknowledging waste receipt

SHIPPER I.D. NUMBER: 50-06-10
[ ] COLLECTOR
[ ] PROCESSOR
[X] GENERATOR TYPE (Specify): 9A

TELEPHONE NUMBER (Including Area Code)
(203) 436-4234

EPA I.D. NUMBER
TND982116493

SHIPPING DATE
6-22-10

TELEPHONE NUMBER (Including Area Code)
(865) 220-8501

DATE
6-22-10

7. NRC FORM 540 AND 540A — PAGE 1 OF 1 PAGE(S)
NRC MANIFEST DATA: 1 PAGE(S)
NRC 540 AND 540A: 2 PAGE(S)
ADDITIONAL INFORMATION: 0 PAGE(S)

8. MANIFEST NUMBER (Use this number on all continuation pages)
62210

9. CONSIGNEE - Name and Facility Address
Bionomics Inc.
1550 Bear Creek Road
Oak Ridge, TN 37830

CONTACT
John McCormick

(865) 220-8501

SIGNATURE - Authorized consignee acknowledging waste receipt

DATE
6-25-10

10. CERTIFICATION

This is to certify that the hazardous 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 are in proper condition for transportation and packaged as described in accordance with the requirements of 10 CFR Parts 19 and 61, or equivalent state regulations.

AUTHORIZED SIGNATURE

TITLE: Waste Manager

DATE: 6-22-10

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN/ID number, and any additional information)	12. RCRA LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. REMOVAL RADIONUCLIDES			16. TOTAL PACKAGE ACTIVITY IN SI UNITS	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
UN2915,Radioactive Material,Type A Package,7	WHITE I	N/A	Solid / Oxides	^{137}Cs			129500MBq	NA	1.484m3	Yale 1

FOR CONSIGNEE USE ONLY

BIONOMICS, INC.

PN

NRC FORM 541 — BIONOMICS, INC.

UNIFORM LOW-LEVEL RADIOACTIVE MANIFEST WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS

Number of Packages/Disposal Containers	Net Volume (m3)	Net Weight (kg)	Special Nuclear Material (grams) U-233	U-235	Pu	Total
1	0.1	589.7	NP	NP	NP	NP

Activity (MBq) All Nuclides	Tritium	C-14	Tc-99	I-129	Source (kg)
129500	NP	NP	NP	NP	NP

2. Manifest Number: [illegible]

3. Page 1 of 1 Page(s)

4. Shipper Name: Yale University

Shipment ID Number:

DISPOSAL CONTAINER DESCRIPTION / WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

5. Container Identification Number / Generator ID Number	6. Container Description (See Note 1)	7. Volume (m3)	8. Waste and Container Weight (kg)	9. Surface Radiation Level (mSv/hr)	10. Surface Contamination (Bq/100 cm²) Alpha	Beta-Gamma	11. Waste Descriptor (See Note 2)	12. Approximate Waste Volume(s) in Container (m3)	13. Sorbent, Solidification, Stabilization Media (See Note 3)	14. Chemical Form / Chelating Agent	Weight % Chelating Agent if > 0.1%	15. Individual Radionuclides and Activity (MBq) and Container Total: or Container Total Activity and Radionuclide Percent		16. Waste Classification AS-Class A Stable, AU-Class A Unstable, B-Class B, C-Class C
Yale 1	~~10Other, Fiber Box~~ 4 Metal Box	1.484	589.7	0.0002	<3.34E-7	<1.87E-5	36 Sealed Source/Device	1.484	100	Oxides N/P	N/P	Cs137	129500	C

NOTE 1: Container Description Codes; For containers meeting ... approved standard ... [illegible]

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 Demineralizer; 10 Gas Cylinder; 11 Bulk, Unpackaged Waste; 12 Unpackaged Components; 13 High Integrity Container; 19 Other, Describe in Item 6, or additional page.

NOTE 1A: Process Type Codes Are Specific To Bionomics and Only Apply To How The Waste Will Be Processed / Handled By The Company. [illegible]

NOTE 2: Waste Descriptor Codes (Choose up to three predominant by volume.) [illegible]

NOTE 3: [illegible]