

CRITTENTON

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November 6, 2015

UNITED STATES NUCLEAR REGULATORY COMMISSION
Region III, Materials Licensing Section
Attention: Sara Forster
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Re: License No. 21-13562-01, Crittenton Hospital Medical Center.

Please remove the 9.45 uCi of Radium-226 from our license. This activity was removed from our facility on October 20, 2015. Please find the enclosed Waste Manifest for your review.

Please note, there was an error on Amendment No. 71 listing the Radium-226 source as Radium-223. The correct source is 9.45 uCi of Radium-226.

Thank you for your cooperation with this matter. If you have any questions or require additional information please contact our physicist, Michelle L. Kritzman, at (734) 662-3197.

Respectfully,



Michelle Hornberger
Chief Strategic Officer
Crittenton Hospital Medical Center
Rochester, Michigan

RECEIVED NOV 06 2015

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 Records and FOIA/Privacy Services Branch (T-5 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, NEOB-10202, (3150-0164), 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 EnergySolutions, Bear Creek Processing Operations UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY Crittenton Hospital Medical Center 1101 West University Drive/Warehouse Rochester, MI 48307		SHIPMENT ID NUMBER 102015CHMC COLLECTOR PROCESSOR		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) 102015CHMC							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (865) 220-8520		USER PERMIT NUMBER CONTACT Bill Bell		SHIPMENT NUMBER 102015CHMC		X GENERATOR TYPE (Specify) M		9. CONSIGNEE - Name and Facility Address EnergySolutions, Bear Creek Processing Operations Operated By EnergySolutions 1560 Bear Creek Road Oak Ridge, TN 37830		CONTACT Fred Schulz TELEPHONE NUMBER (Include Area Code) (865) 481-0222							
ORGANIZATION Bionomics, Inc. Attn: Emergency Duty Officer		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 TND982116493		SIGNATURE - Authorized consignee acknowledging waste receipt DATE 10/20/2015							
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		CONTACT John McCormick		TELEPHONE NUMBER (Include Area Code) 865-220-8501		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 81, or equivalent state regulation									
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		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
UN2810, Radioactive material, excepted package-limited quantity of material, 7 LEAD 1 - 30 GAL METAL DRUM		NA		NA		SOLID/OXIDES		RA-226		3.4985E-01 (9.4500E-03)		NA		4.01 ft ³ 50.00 lb		CHMC-01 (15-001701)	
FOR CONSIGNEE USE ONLY Tennessee "License For Delivery" No. _____ South Carolina Transport Permit No. _____ US Ecology Generator No. _____ US Ecology Permit No. _____				20. Generator Certification Statement A) Radioactive Materials: Certification is hereby made that this shipment of low-level radioactive waste has been prepared in accordance with a radioactive waste management program which has been approved by the Nuclear Regulatory Commission or an Agreement State regulatory agency and with the current revision of the site Material Acceptance Criteria. B) Hazardous Materials: Generator hereby certifies that this material does not contain a hazardous waste as defined in 40 CFR 261. C) Date: Generator hereby 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, regulations and site Radioactive Material Licenses. D) INFECTIOUS SUBSTANCE: Generator hereby certifies that this material does not contain an infectious substance as defined in 49CFR 173.134													
				W. L. Bell, Jr. <i>W. L. Bell, Jr.</i> 10/20/2015 Print Name Signature Date													

Estimated burden per response to comply with this information collection request: 3.3 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 estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to infocollect@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE03-10202, (3150-0165), 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		EnergySolutions, Bear Creek Processing Operations			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)				TOTAL	102016CHMC			
								U-233	U-235	Pu						
CONTAINER AND WASTE DESCRIPTION					1	m ³ ft ³	9.07 20.00	NP	NP	NP	NP	3. PAGE 1 OF 1 PAGE(S)				
					ACTIVITY (MBq/mCl) (LLD UNITS IN uCi/cc)	SOURCE										
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste					ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129		4. SHIPPER NAME				
					MBq	3.4965E-01	NP	NP	NP	NP	NP		NP			
					mCl	9.4500E-03	NP	NP	NP	NP	SHIPMENT ID NUMBER					
												102016CHMC				
DISPOSAL CONTAINER DESCRIPTION					WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER											
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR NUMBER	6. CONTAINER DESCRIPTION (See Note 1) PROCESS REQUESTED (See Note 1A) BURNAL/ DISPOSITION (See Note 2A)	7. VOLUME	8. WASTE AND CONTAINER WEIGHT	9. SURFACE RADIATION LEVEL	10. SURFACE CONTAMINATION		11. WASTE DESCRIPTOR (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION			16. WASTE CLASSIFICATION	
					ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
													RADIONUCLIDES	MBq	mCl	
# - Innerpack Container																
15-001701 (CHMC-01) 3215	4 O - RECYCLE O	0.1136 4.0100	22.68 50.00	< 1.0000E-05 < 1.0000E-03	< 3.3400E-07 < 2.0000E+01	< 1.8700E-05 < 1.0000E+03	59(LEAD)	0.1136 4.0100	100	SOLID OXIDES / NP	NP	RA-226	3.4965E-01	9.4500E-03	AU	
Sub Total													3.4965E-01	9.4500E-03		
Package Total													3.4965E-01	9.4500E-03		
Shipment Total													3.4965E-01	9.4500E-03		

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	8. Drum Refractor
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk Unpacked Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	18. Other. Describe in Item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

NOTE 1A: Process Requested

C. Compaction
SR. Steam Reforming
DL. Direct Incineration
SL. Sort & Incinerate
D. Decon
G. Green In Clean
BL. Metal Melt
T. Trans-Ship
LJ. Liquid for Incineration
OL. Oil for Incineration
O. Other (describe)

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

20. Charcoal	26. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Carbon Ion-exchange Media	39. Compatible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompatible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in Item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

NOTE 2A: Burial/Disposition Site

B. Barnwell Waste Management Facility
E. EnergySolutions / CBW
R. Richland, WA
PR. Process and Return
O. Other

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 "S" and the media vendor and brand name must also be identified in Item 13. Code 100=None Required

Solidification	94. Vinyl Ester Styrene
90. Cement	99. Other. Describe in Item 13, or additional page
91. Concrete (encapsulation)	100. None Required
92. Bitumen	
93. Vinyl Chloride	

Forster, Sara

From: Bill Bell <bbell@crittenton.com>
Sent: Friday, November 06, 2015 12:02 PM
To: Forster, Sara
Cc: Shelli Kritzman; Michelle Hornberger
Subject: [External_Sender] NRC License Amendment Information
Attachments: NRC Amendment Radium 226 Letter.pdf; Radium 226 Manifest.pdf

Importance: High

Good Afternoon Sara,

Attached are the documents for our NRC License Amendment of Radium 226.

Thank You for all of your assistance with all of the measures that had to be taken, to assure that our onsite Radium 226 was properly handled and disposed of.

You and your Family have a Joyful and Blessed Weekend

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-AF 11/9/2015