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Detroit Medical Center

March 20, 2019

Anthony Tedeschi, MD
Chief Executive Officer

Detroit Market Office
3880 John R
Detroit, MI 48201-2018

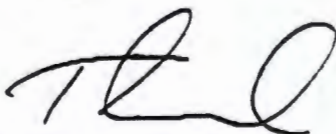
UNITES STATES NUCLEAR REGULATORY COMMISSION
Region III, Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: Amendment to License No. 21-04172-02

1. Please remove 10 CFR 35.500 from the license. All sources were removed from this location on 06/22/2016. Please find the enclosed low-level radioactive waste manifest for your review.
2. Please remove Phosphorus-32 from the license. All waste was decayed to background and was disposed on 02/21/2011.

Thank you for your cooperation with this matter. If you have any question please contact our physicist, Michelle Kritzman, at (734) 662-3197 or by email at mkritzman@mpcphysics.com

Sincerely,



Anthony Tedeschi, MD
Chief Executive Officer
Detroit Medical Center

RECEIVED APR 11 2019

(Estimated burden per response to comply with this information collection request. All estimates for a 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 this form estimate to the Records and Information Services Branch (1 & F13), U.S. Nuclear Regulatory Commission, Washington, DC 20545-0001, or by Internet e-mail to: records@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, A-505-3024, 11155th St., Office of Management and Budget, Washington, DC 20503, if a new or revised information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor it, and a person is not required to respond to the information collection.

HRC FORM 540 (8-2010) U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		1. SHIPPER - NAME AND FACILITY VNS Harper Medical Hospital Nuclear Medicine, 3550 John R Street Detroit, MI 48201		SHIPMENT ID NUMBER 0615VNS9		7. FORM 540 AND 541A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A 1 PAGE(S) FORM 541 AND 541A NONE PAGE(S) ADDITIONAL INFORMATION NONE PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 0615VNS9	
1. EMERGENCY TELEPHONE NUMBER (include Area Code) (313) 770-1120 ORGANIZATION Economics, Inc.		USER FACILITY NUMBER 0615VNS9		SHIPMENT NUMBER 0615VNS9		X GENERATOR TYPE (Specify) M		9. CONSIGNEE - Name and Facility Address Perma-Fix of Florida Operated By Perma-Fix 1340 NW 67th Place Gainesville, FL 32653	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		5. CARRIER - Name and Address Economics, Inc. 1350 Bear Creek Road Oak Ridge, TN 37830		TRUCK #: TRAILER #: EPA ID NUMBER TN0802115493		CONTACT Russes Magarity Telephone Number (include Area Code) (313) 715-2722	
4. DOES EPA REGULATED WASTE REQUIRE A MANIFEST ACCOMPANY THIS SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If "Yes", provide Manifest Number:		EPA MANIFEST NUMBER 91674562 J/A		6. SIGNATURE - Authorized carrier acknowledging waste receipt <i>John McCornick</i> DATE: 6-22-16		DATE 6/22/16		10. CERTIFICATION This is to certify that the low-level waste material is properly classified, packaged, marked and labeled and is 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 in a proper condition for transportation and control in accordance with the requirements of 10 CFR Parts 29 and 31 or equivalent state regulation.	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number, and any additional information) UN3321, WASTE RADIOACTIVE MATERIAL, LOW SPECIFIC ACTIVITY (LSA-II), 7, (5 1) 1 - 5 GAL PLASTIC PAIL		12. DOT LABEL "RADIOACTIVE" NA		13. TRANSPORT INDEX NA		14. PHYSICAL AND CHEMICAL FORM SOLID/SLURRIES		15. INDIVIDUAL RADIOACTIVITIES TB-232: U-238	
						16. TOTAL PACKAGE ACTIVITY 1500E-03 (10541E-05)		17. LSA/SCO CLASS LSA-II	
						18. TOTAL WEIGHT OR VOLUME (Use appropriate units) 0.71 B* 10.00 lb		19. IDENTIFICATION NUMBER OF PACKAGE VNS-02 (16-001453)	
FOR CONSIGNEE USE ONLY				20. Generator Certification Statement A) Radioactive Materials: Certification is hereby made that the 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 its Agreement State regulatory agency and with the current version of the 48 CFR Federal Acquisition Regulation (FAR) Part 101-11.6.					
				B) Material Strength: Generator hereby certifies that the Radioactive Material (RAM) is in accordance with the requirements of 10 CFR 29.21.					
				C) Data: Generator hereby certifies and warrants that all data set forth in this (LSA/FORM LOW-LEVEL RADIOACTIVE WASTE) (PART 7) is true and correct to the best of its knowledge and all applicable governmental laws, rules, regulations and any regulatory agency's requirements.					
				D) RESPECTFUL REMARKS: Generator hereby certifies that this manifest does not contain any information that is prohibited by 10 CFR 171.16.					
				<i>Richard W. Jernell</i> Date: 6/22/16		<i>[Signature]</i> Date: 6/22/16			

Estimated burden per response to comply with this information collection request: 3.3 hours. This burden estimate is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste.

NRC FORM 541 (9-2010)		U.S. NUCLEAR REGULATORY COMMISSION				I. MANIFEST TOTALS			SPECIAL NUCLEAR MATERIAL (grams)		II. MANIFEST NUMBER	
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION						NUMBER OF PACKAGE W DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	U-233	U-235	PLU	TOTAL
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste						1	0.7063 b3	4.64	NP	NP	NP	NP
						ALL PACKAGES	1	0.7063 b3	4.64	NP	NP	NP
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste						1	0.7063 b3	4.64	NP	NP	NP	NP

DEPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER						18. WASTE CLASSIFICATION A3 - Class A A4 - Class A A5 - Class A B - Class B C - Class C	
1. CONTAINER IDENTIFICATION NUMBER (See Note 1)	2. CONTAINER DESCRIPTION (See Note 1)	3. WASTE AND CONTAINER WEIGHT a. Waste b. Container	4. SURFACE RADIATION LEVEL a. Waste b. Container	5. SURFACE CONTAMINATION a. Alpha b. Beta-Gamma	6. WASTE DESCRIPTION (See Note 2)	7. APPROXIMATE WASTE VOLUME(S) IN CONTAINER a. m ³ b. gal	8. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	9. CHEMICAL DESCRIPTION a. CHEMICAL FORM b. CHELATING AGENT	10. WEIGHT IN RELATIVE AGENT % > 8.1%	11. RADIOLOGICAL DESCRIPTION a. RADIONUCLIDES b. RADIATION DOSE RATE	12. MATERIAL RADIONUCLIDES AND ACTIVITY AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIOLOGICAL PERCENT		
19-00438 (N-5-32)	3	0.7063 b3 1.000	4.64 0.5	< 0.025 0.0000334	28	0.7063	SUB	SOLID ORANGE SLIP	NP	74-272 14-206	1.000E-03 [2.647E-04 %] 1.000E-04 [1.310E-09 %] 1.000E-03 [2.647E-04 %]	2.722E-09 1.551E-05 4.654E-05 [2.647E-04 %]	AJ
Origin: M MMS HealthCare Hospital Nuclear Medicine, 7770 Johns R Road Detroit, MI 48203 Package Total 0.7063 b3 1.000													

NOTE 1: Container Description Codes For codes which are required describe in required structure and package. The number code shall be followed by "CS". 1. Shielded Lead or Other 2. Shield Box 3. Plastic Drum or Pail 4. Metal Drum or Pail 5. Metal Tank or Tanker 6. Carboys, Tanks or Lines 7. Polyethylene Tank or Liner 8. Fiberglass Tank or Liner 9. Drum/Crate 10. Gas Cylinder 11. Bulk, Unshielded Slacks 12. Unshielded Containers 13. High Pressure Container 14. Other (Specify in Note 4 or additional page)	NOTE 2: Waste Disposal Codes (Choose up to three which pertain to the waste) 20. Chemical 21. Inorganic Am 22. Salt 23. Gas 24. Oil 25. Aqueous Sludge 26. Filter Media 27. Mechanical Waste 28. EPA or State Residue 29. Desiccant Residue 30. Cellulose-based Charge Waste 31. Antineoplastic Waste 32. Mixed or Unidentified Waste 33. Contaminated Equipment 34. Organic Liquid (except H ₂ O) 35. Gaseous or Liquid 36. Solid Residue 37. Paint or Plaster 38. Fibrous Matter (Unfired) 39. Composites Waste 40. Inorganic Waste 41. Animal Carcass 42. Biological Material (except virus or prion) 43. Activated Carbon 44. Other (Specify in Note 11 or additional page)	NOTE 3: Isotopes, Substances and Substances Weight Codes (Choose up to three which pertain to the waste. If a waste contains more than one isotope, the numerical code shall be followed by "a", "b", "c", etc. If a waste contains more than one substance, the numerical code shall be followed by "1", "2", "3", etc. Code U-235 and Pu-239 are required) Isotopes 01. U-235 02. U-238 03. Pu-239 04. Pu-240 05. Pu-241 06. Pu-242 07. Pu-243 08. Pu-244 09. Pu-245 10. Pu-246 11. Pu-247 12. Pu-248 13. Am-241 14. Am-242 15. Am-243 16. Am-244 17. Cm-247 18. Cm-248 19. Cm-249 20. Cm-250 21. Cm-251 22. Cm-252 23. Cm-253 24. Cm-254 25. Cm-255 26. Cm-256 27. Cm-257 28. Cm-258 29. Cm-259 30. Cm-260 31. Cm-261 32. Cm-262 33. Cm-263 34. Cm-264 35. Cm-265 36. Cm-266 37. Cm-267 38. Cm-268 39. Cm-269 40. Cm-270 41. Cm-271 42. Cm-272 43. Cm-273 44. Cm-274 45. Cm-275 46. Cm-276 47. Cm-277 48. Cm-278 49. Cm-279 50. Cm-280 51. Cm-281 52. Cm-282 53. Cm-283 54. Cm-284 55. Cm-285 56. Cm-286 57. Cm-287 58. Cm-288 59. Cm-289 60. Cm-290 61. Cm-291 62. Cm-292 63. Cm-293 64. Cm-294 65. Cm-295 66. Cm-296 67. Cm-297 68. Cm-298 69. Cm-299 70. Cm-300 71. Cm-301 72. Cm-302 73. Cm-303 74. Cm-304 75. Cm-305 76. Cm-306 77. Cm-307 78. Cm-308 79. Cm-309 80. Cm-310 81. Cm-311 82. Cm-312 83. Cm-313 84. Cm-314 85. Cm-315 86. Cm-316 87. Cm-317 88. Cm-318 89. Cm-319 90. Cm-320 91. Cm-321 92. Cm-322 93. Cm-323 94. Cm-324 95. Cm-325 96. Cm-326 97. Cm-327 98. Cm-328 99. Cm-329 100. Cm-330 Substances 01. Cesium 02. Cobalt 03. Europium 04. Gadolinium 05. Gold 06. Iridium 07. Lead 08. Lithium 09. Manganese 10. Neodymium 11. Nickel 12. Niobium 13. Osmium 14. Potassium 15. Radium 16. Rhenium 17. Rhodium 18. Ruthenium 19. Silver 20. Strontium 21. Tellurium 22. Thallium 23. Vanadium 24. Xenon 25. Yttrium 26. Zirconium 27. Barium 28. Bismuth 29. Boron 30. Cadmium 31. Calcium 32. Cerium 33. Chlorine 34. Chromium 35. Copper 36. Dysprosium 37. Erbium 38. Gallium 39. Germanium 40. Hafnium 41. Holmium 42. Indium 43. Iodine 44. Iron 45. Krypton 46. Lanthanum 47. Lanthanum 48. Lead 49. Lithium 50. Lutetium 51. Magnesium 52. Manganese 53. Manganese 54. Manganese 55. Manganese 56. Manganese 57. Manganese 58. Manganese 59. Manganese 60. Manganese 61. Manganese 62. Manganese 63. Manganese 64. Manganese 65. Manganese 66. Manganese 67. Manganese 68. Manganese 69. Manganese 70. Manganese 71. Manganese 72. Manganese 73. Manganese 74. Manganese 75. Manganese 76. Manganese 77. Manganese 78. Manganese 79. Manganese 80. Manganese 81. Manganese 82. Manganese 83. Manganese 84. Manganese 85. Manganese 86. Manganese 87. Manganese 88. Manganese 89. Manganese 90. Manganese 91. Manganese 92. Manganese 93. Manganese 94. Manganese 95. Manganese 96. Manganese 97. Manganese 98. Manganese 99. Manganese 100. Manganese 01. Vanadium 02. Vanadium 03. Vanadium 04. Vanadium 05. Vanadium 06. Vanadium 07. Vanadium 08. Vanadium 09. Vanadium 10. Vanadium 11. Vanadium 12. Vanadium 13. Vanadium 14. Vanadium 15. Vanadium 16. Vanadium 17. Vanadium 18. Vanadium 19. Vanadium 20. Vanadium 21. Vanadium 22. Vanadium 23. Vanadium 24. Vanadium 25. Vanadium 26. Vanadium 27. Vanadium 28. Vanadium 29. Vanadium 30. Vanadium 31. Vanadium 32. Vanadium 33. Vanadium 34. Vanadium 35. Vanadium 36. Vanadium 37. Vanadium 38. Vanadium 39. Vanadium 40. Vanadium 41. Vanadium 42. Vanadium 43. Vanadium 44. Vanadium 45. Vanadium 46. Vanadium 47. Vanadium 48. Vanadium 49. Vanadium 50. Vanadium 51. Vanadium 52. Vanadium 53. Vanadium 54. Vanadium 55. Vanadium 56. Vanadium 57. Vanadium 58. Vanadium 59. Vanadium 60. Vanadium 61. Vanadium 62. Vanadium 63. Vanadium 64. Vanadium 65. Vanadium 66. Vanadium 67. Vanadium 68. Vanadium 69. Vanadium 70. Vanadium 71. Vanadium 72. Vanadium 73. Vanadium 74. Vanadium 75. Vanadium 76. Vanadium 77. Vanadium 78. Vanadium 79. Vanadium 80. Vanadium 81. Vanadium 82. Vanadium 83. Vanadium 84. Vanadium 85. Vanadium 86. Vanadium 87. Vanadium 88. Vanadium 89. Vanadium 90. Vanadium 91. Vanadium 92. Vanadium 93. Vanadium 94. Vanadium 95. Vanadium 96. Vanadium 97. Vanadium 98. Vanadium 99. Vanadium 100. Vanadium
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NRC Form 541 (9-2010) - Indicate Cross Continuation

Estimated burden per response to comply with this information collection is just 45 minutes. This uniform standard is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low level waste. Some comments regarding burden estimates in the Records and FOIA Privacy Services Branch (7-4737) U.S. Nuclear Regulatory Commission, Washington, DC 20542-0211, or by internet e-mail to info@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NRC-18011 (1112-0104), Office of Management and Budget, Washington, DC 20503. If it is ever used to request an information called on form not display a company and a GAO number, the MFC or any not control or appear, and a person is not required to respond to the information collection.

FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		Economic, Inc.		1. SHIPPER - NAME AND FACILITY Biomatic, Inc. for VHS Harper-N. 2nd Hospital Nuclear Medicine, 3530 John R Street Detroit, MI 48201		SHIPMENT ID NUMBER 0619VNSA COLLECTOR PROCESSOR		7. FORM 540 AND 541A FORM 541 AND 541A FORM 541 AND 541A 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) 0619VNSA					
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (959) 223-8320 ORGANIZATION Biomatic, Inc.		USER PERMIT NUMBER CONTACT Renee Hagarly		SHIPMENT NUMBER 0619VNSA		X GENERATOR TYPE (Spec./A) M TELEPHONE NUMBER (Include Area Code) (313) 745-7777		3. CONSIGNEE - Name and Facility Address Biomatic, Inc. Operated By Biomatic, Inc. 1550 Bear Creek Road Oak Ridge, TN 37839		CONTACT John McCormick TELEPHONE NUMBER (Include Area Code) (615) 270-8551		SIGNATURE - Authorized consignee acknowledging waste receipt					
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 2		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:		5. EPA MANIFEST NUMBER N/A		6. EPA ID NUMBER N/A		II. CERTIFICATION This is to certify that the low-level waste is properly classified, restricted, packaged, marked, and labeled and is in proper condition for transportation according to the applicable requirements of the Department of Transportation. This is to certify that the materials are contained, 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 regulations.		DATE 6-22-16					
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE" Yellow III		13. TRANSPORT INDEX 1.0		14. PHYSICAL AND CHEMICAL FORM SOLID OXIDES		15. INDIVIDUAL RADIONUCLIDES BA-133; CO-57; CS-137; EU-152; GD-153; I-129; NA-22		16. TOTAL PACKAGE ACTIVITY 1.8513E+01 (1.4833E+01) mCi		17. IASGCO CLASS NA		18. TOTAL WEIGHT OR VOLUME 1.35 lb 50.00 lb 1.41 lb 62.00 lb		19. IDENTIFICATION NUMBER OF PACKAGE VHS-01 (16-001193) VHS-03 (16-001502)	
UN2919, RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7 1 - 10 GAL METAL DRUM Non-Radioactive per DOT 1 - PLASTIC BOX		NA		NA		SOLID OXIDES		GD-153		1.337E+00 (1.6000E-02)		NA		62.00 lb (16-001502)			
FOR CONSIGNEE USE ONLY		Record Waste Description in duplicate Contamination or Leakage Detected Unacceptable Exposure Rates Detected Labels, Markings, etc. Inadequate Container Integrity Inadequate Other No Violations Detected on this Shipment		20. TERMS AND CONDITIONS A. MANIFESTOR RADIONUCLIDES: Consignor represents and warrants that this material is not a high-level waste as defined in 10 CFR 26.11 when the material is a radioactive waste that is exempt from regulation by a license and consignor's radioactive waste manifest, along with the appropriate identification of radioactive waste and its modification as required by 41 CFR 243.1. B. TITLE: Upon acceptance of the shipment by Energy Solutions, Inc. and all appropriate regulatory authorities, title to the waste material which conditions is transferred to Energy Solutions, Inc. and its successors. C. WASTE MATERIAL: Consignor represents and warrants that this material is not a high-level waste as defined in 10 CFR 26.11 when the material is a radioactive waste that is exempt from regulation by a license and consignor's radioactive waste manifest, along with the appropriate identification of radioactive waste and its modification as required by 41 CFR 243.1. D. IDENTIFICATION: Consignor agrees to indemnify Energy Solutions, Inc. to protect, defend, pay, and settle against all claims and liability whatsoever of such nature or kind as may be asserted against Energy Solutions, Inc. by any governmental agency having jurisdiction over such matters.													

Form 540 (10-96)

Modified Date: 06/22/2015 (11.4)

Estimated burden per response to comply with this information collection requirement is 30 hours. This burden estimate is required by AEC 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 Reports and Form Management Service Branch (15-573), U.S. Dept. of Regulatory Compliance, Washington, DC 20515-0001, or by Internet e-mail to: info@oia.dhs.gov, and to the Dept. Director, Office of Information and Regulatory Affairs, NEOD-1121, (7154) 041, Office of Management and Budget, Washington, DC 20503. If you need to report an information collection that does not display a currently valid OMB control number, the OMB may not conduct a survey, and a person will not be required to respond to the information collection.

FORM 541		Biometrics, Inc.		1. MANIFEST TOTALS						2. WASTE NUMBER		
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION				NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (g/gal)			GENYSA		
Add General and/or Regulatory Conditions (ARC) Requirements for Control, Transfer and Disposal of Radioactive Waste				7	m ³	3.27E+03	36.27	AP	LP	NP	PAGE 1 OF 1 PAGE(S)	
				3	g	2.77E+02	0.04					
				ALL NUCLEIDES		ACTIVITY (Bq/gal) (Lb/L) (Ci/gal)		SOURCE				
				17	MSE-11	AP	LP	NP	1.1E+02	NP	4. SHEET NAME Biometrics, Inc. to VNS Hospital SHIPMENT NUMBER	
				4	MSE-47	NP	NP	NP	1.1E+02	NP		
DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								
CONTAINER IDENTIFICATION NUMBER	CONTAINER DESCRIPTION (See Note 1 & 1A)	VOLUME	WASTE AND CONTAINER WEIGHT	SURFACE RADIATION LEVEL	SURFACE CONTAMINATION	PHYSICAL DESCRIPTION		CHEMICAL DESCRIPTION		RADIOLOGICAL DESCRIPTION		WASTE CLASSIFICATION
						ALPHA	BETA/GAMMA	WASTE DESCRIPTION (See Note 1 & Note 1A)	APPROXIMATE WASTE VOLUME (g/gal) IN CONTAINER	WASTE IDENTIFICATION NUMBER	WEIGHT % CHELATING AGENT IF > 1%	
<p>15-001457 (VNS-01) Origin: VNS Hospital VNS Hospital Nuclear Medicine, 3050 Johns Rd Coral Gables, FL 33134</p> <p>Package Total</p>												
<p>15-001502 (VNS-02) Origin: VNS Hospital Nuclear Medicine, 3050 Johns Rd Coral Gables, FL 33134</p> <p>Package Total</p>												
<p>Shipment Total</p>												

NOTE 1: Container Descriptions Codes. For container/manifest reporting of special or unusual structure or parts, the structural code must be followed by "OS".

- 1. Wooden Box or Crate
- 2. Metal Box
- 3. Plastic Drum or Pail
- 4. Metal Drum or Pail
- 5. Metal Tank or Cask
- 6. Concrete Tank or Cask
- 7. Property Transfer to Other
- 8. Intermediate Tank or Cask
- 9. Drum/Box
- 10. Gas Cylinder
- 11. Drum, Unpacked Waste
- 12. Drum/Unpacked Components
- 13. High Pressure Container
- 14. Other, Describe in Note 1, or Additional page

NOTE 1A: Sub-Packaging Description Codes (Describe one each as they apply to each)

- A. Concrete
- B. Fiberglass
- C. Steel
- D. Other

NOTE 2: Waste Disposition Codes (Check 1 up to three which pertain to waste)

- 21. Control
- 22. Reprocess
- 23. Land
- 24. Gas
- 25. Oil
- 26. Aquatic Use
- 27. Paper Waste
- 28. Solid Nuclear Device
- 29. Part of Plant
- 30. Decommission Activity
- 31. Other In-situ Storage
- 32. Mixed (oil or water) storage
- 33. Other In-situ Storage
- 34. Other In-situ Storage
- 35. Other In-situ Storage
- 36. Other In-situ Storage
- 37. Other In-situ Storage
- 38. Other In-situ Storage
- 39. Other In-situ Storage
- 40. Other In-situ Storage
- 41. Other In-situ Storage
- 42. Other In-situ Storage
- 43. Other In-situ Storage
- 44. Other In-situ Storage
- 45. Other In-situ Storage
- 46. Other In-situ Storage
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- 86. Other In-situ Storage
- 87. Other In-situ Storage
- 88. Other In-situ Storage
- 89. Other In-situ Storage
- 90. Other In-situ Storage
- 91. Other In-situ Storage
- 92. Other In-situ Storage
- 93. Other In-situ Storage
- 94. Other In-situ Storage
- 95. Other In-situ Storage
- 96. Other In-situ Storage
- 97. Other In-situ Storage
- 98. Other In-situ Storage
- 99. Other In-situ Storage
- 00. Other In-situ Storage

NOTE 3A: Specific Waste Descriptions (Check all that apply)

- 1. Disposed
- 2. Salt
- 3. Combustible
- 4. Flammable
- 5. Acid
- 6. Alkaline
- 7. Toxic
- 8. Corrosive
- 9. Volatile
- 10. Other

NOTE 3B: Identification and Stabilization Matrix Codes (Check up to three when pertained to by column) For matrix meeting structural stability requirements, the structural code must be followed by "ST" and the matrix number and brand name must also be specified in Note 1B. Code 000000 is required.

- 00. Control
- 01. Control
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Source ID	Material	Activity	Date	Activity	Form	Source Description
M-032	129I	2.00E-07		2.00E-07	Rod	
Tube	129I	1.15E-07		1.15E-07	Micromedic	
F-092	129I				Rod	
3580383AS1	133Ba	2.62E-04	3/29/1983	2.98E-05	NES-358	
022582-027	133Ba	1.00E-07	2/25/1982	1.06E-08	NES-138A	
Unk	137Cs	1.74E-04	12/12/1974	6.72E-05	NES-356	
125	137Cs	1.00E-05	5/1/2010	8.72E-06	Button	
162068	137Cs	1.00E-06		1.00E-06	Rod	
658-194	137Cs	1.00E-06		1.00E-06	Rod	
053183-003	137Cs	9.90E-07	5/31/1983	4.65E-07	NES-139A	
	137Cs	1.12E-07	10/5/1976	4.51E-08	Rod	
92280	137Cs	1.04E-07	9/22/1980	4.59E-08	NES-139S	
184010	137Cs	1.00E-07	4/1/1966	3.16E-08	Rod	
184642	137Cs	1.00E-07	4/1/1971	3.55E-08	Rod	
Y-76	137Cs			1.00E-06	Rod	
Red	152Eu	5.00E-07		5.00E-07	Mallinckrodt	X2 sources
923	153Gd	2.50E-01	3/7/2007	1.80E-05	NES8412	Line
924	153Gd	2.50E-01	3/7/2007	1.80E-05	NES8412	Line
77050A5	153Gd	2.00E-02	11/1/2004	1.23E-07	NES8426-28	Line
77050A6	153Gd	2.00E-02	11/1/2004	1.23E-07	NES8426-28	Line
77050A7	153Gd	2.00E-02	11/1/2004	1.23E-07	NES8426-28	Line
77050A8	153Gd	2.00E-02	11/1/2004	1.23E-07	NES8426-28	Line
77051B5	153Gd	2.00E-02	5/1/2004	7.25E-08	NES8426-28	Line
77051B6	153Gd	2.00E-02	5/1/2004	7.25E-08	NES8426-28	Line
77051B7	153Gd	2.00E-02	5/1/2004	7.25E-08	NES8426-28	Line
77051B8	153Gd	2.00E-02	5/1/2004	7.25E-08	NES8426-28	Line
77052C5	153Gd	2.00E-02	11/1/2003	4.29E-08	NES8426-28	Line
77052C6	153Gd	2.00E-02	11/1/2003	4.29E-08	NES8426-28	Line
77052C7	153Gd	2.00E-02	11/1/2003	4.29E-08	NES8426-28	Line
77052C8	153Gd	2.00E-02	11/1/2003	4.29E-08	NES8426-28	Line
77053D5	153Gd	2.00E-02	5/1/2003	2.53E-08	NES8426-28	Line
77053D6	153Gd	2.00E-02	5/1/2003	2.53E-08	NES8426-28	Line
77053D7	153Gd	2.00E-02	5/1/2003	2.53E-08	NES8426-28	Line
77053D8	153Gd	2.00E-02	5/1/2003	2.53E-08	NES8426-28	Line
770548E6	153Gd	2.00E-02	5/1/2002	8.86E-09	NES8426-28	Line
770548E6	153Gd	2.00E-02	5/1/2002	8.86E-09	NES8426-28	Line
770548E7	153Gd	2.00E-02	11/1/2002	1.50E-08	NES8426-28	Line
770548E8	153Gd	2.00E-02	11/1/2002	1.50E-08	NES8426-28	Line
77055F5	153Gd	2.00E-02	5/1/2002	8.86E-09	NES8426-28	Line
77055F6	153Gd	2.00E-02	5/1/2002	8.86E-09	NES8426-28	Line

✓ 77055F7	153Gd	2.00E-02	5/1/2002	8.86E-09	NES8426-28	Line
✓ 77055F8	153Gd	2.00E-02	5/1/2002	8.86E-09	NES8426-28	Line
✓ 77056G5	153Gd	2.00E-02	11/1/2001	5.26E-09	NES8426-28	Line
✓ 77056G6	153Gd	2.00E-02	11/1/2001	5.26E-09	NES8426-28	Line
✓ 77056G7	153Gd	2.00E-02	11/1/2001	5.26E-09	NES8426-28	Line
✓ 77056G8	153Gd	2.00E-02	11/1/2001	5.26E-09	NES8426-28	Line
✓ NEZ081	22Na	1.00E-04	4/28/1986	3.47E-08	Vial	
✓ Nitrate - 8170	232Th				Mallinckrodt	56.7g
✓ Thorotrast ThO2	232Th				Vial - Fellows	
✓ Acetate - 8632	238U				Mallinckrodt	9.5g
✓ C00226	238U				Nitrate - Bakers	100g
✓ 319-047-09	57Co	4.90E-03	8/12/1997	1.27E-10	NES-206	
✓ 1231-46-1	57Co	1.00E-04	6/1/2007	2.52E-08	Button	
✓ 1231-50-6	57Co	5.00E-05	6/1/2007	1.26E-08	Button	
57Co	5.80E-06	5/1/2011	4.93E-08	Button		
✓ Yellow	57Co	5.00E-06	6/1/2009	8.21E-09	Button	

Did Not Take ✓

✓ Purma Fix Drum # VHS-02

✓ 129I / Am 241 (mock 1-125)

0.000148

0.072 μCi no date Tube source.