

Saint Francis Regional Cancer Center
Radiation Oncology Department
94 Woodland Street
Hartford, CT 06105
Tel 860-714-4568
Fax 860-714-8019

Q-3

06-00854-03
03001246

Date: Sept. 5, 2007
To: Monica Orendi NRC
Fax # 610 337-5269
From: Dr. Ellen Wilcox
Of pages including cover page 7

Message:

The attached is wipe tests
and proof of receipt of Cesium
sources by ADCO.

Items 27+28 on wipe test list.

Sincerely

Ellen Wilcox



PS other items will follow.

Joseph Colasanto, M.D.

Bruce Kaplan, M.D.

Richard Shumway, M.D.

Eric van Rooy, M.D.

140736

NMSS/RGN1 MATERIALS-002

St Francis Hospital
114 Woodland St. Hartford, Ct. 06105

Source Disposal Wipe Test

The sources listed below were wipe tested, and transferred to ADCO Services, Inc. 17650 Duvan Drive Tinley Park, Il. 604771 for final disposal

Disposal Date : 5/24/2007

				Current Activity (uCi)	Original Activity (uCi)	Date of Original Activity	Elapsed Time (Days)	DIMENSIONS INCHES		Bkg= 138 CPM
Source Type	Radionuclide	Identifier							DESCRIPTION	Disposal Wipe test (DPM)
1 Vial-Calibration	Co-57	A-7746 2		0.9184	5920	1/1/1998	3430	3.5X1.25X1.25	PLASTIC VIAL	0
2 Rod	Cs 137	Mod 184642		0.0440	0.1	4/1/1971		4.75X0.6X0.6	PLASTIC ROD	0
3 Vial-Calibration	Co-57	3247/516		0.0779	5940.00	5/11/1995	4396	3.5X1.25X1.25	PLASTIC VIAL	0
4 Vial-Calibration	Co-57	S8221036-05		0.0146	5820.00	8/3/1993	5042	3.5X1.25X1.25	PLASTIC VIAL	0
5 Rod	Cs 137	162068		0.5000				3X0.5X0.5	PLASTIC ROD+BUTTON	0
6 Vial Calibration	Co-57	S206059-078		0.0043	5900.00	9/16/1991	5729	3.5X1.25X1.25	PLASTIC VIAL	4
7 Vial-Calibration	Co-57	2060686B-35		3.1800	5400.00	7/11/1986	7622	3.5X1.25X1.25	PLASTIC VIAL	0
8 Vial-Calibration	Co-57	2061282B-02		1.1100	4980.00	1/5/1983	8905	3.5X1.25X1.25	PLASTIC VIAL	0
9 Vial-Calibration	Co-57	S206024046		0.0001	5200.00	4/21/1988	6972	3.5X1.25X1.25	PLASTIC VIAL	9
10 Vial-Calibration	Co-57	206048A-19		9.29*10-8	5400.00	4/5/1980	9910	4.5X2X2	LEAD CONTAINER	0
11 Vial-Calibration	Co-57	S206043-089		0.0005	5700.00	12/12/1989	6372	3.5X1.25X1.25	PLASTIC VIAL	0
12 Rod	Cs 137			0.0450	0.10	12/3/1975		2.25X0.6X0.6	PLASTIC ROD	9
13 Button	Cs 137			0.5000	0.80			1X1X0.2	PLASTIC BUTTON	0
14 Vial-Calibration	Cs-137	8834AZ-1		5.8900	12	1/1/1976	11466	3.75X2X2	LEAD CONTAINER	0
15 Vial-Calibration	Co-60	90231182A2		4.3300	91	1/12/1983	8898	3.5X1.25X1.25	PLASTIC VIAL	4
16 Rod-Calibration	Ge/Ga 68	1379		4.7150	6700	2/8/1999	3027	14.25X2.25X2.25	METAL+LEAD	26
17 Rod-Calibration	Ge/Ga 68	1379		0.5431	500	2/1/2000	2669	10.5X2.25X2.25	METAL+LEAD	13
18 Sheet Source	Co-57	S391387-03		0.1901	5000.00	6/30/1996	3980	22X22	PLASTIC+LEAD	0
19 Sheet Source	Co-57	S391323-04		0.0293	5000	6/30/1994	4711	21.5X21.5	PLASTIC,LEAD,WOOD	22
20 Vial-Calibration	Co-60	35402279426		1.3400	52	2/2/1979	10338	3.5X1.25X1.25	PLASTIC VIAL	0
21 Vial-Calibration	Cs-137	BC-78		11.0600	22	1/31/1977	11070	4.5X2X2	LEAD CONTAINER	22

22	Transmission Srcs	Cs 137	HEG 2150-5411		30000.00	9/21/1998		3.5x4.5x5	Depleted U	13
23	with Depleted Uranium		HEG 2150-5410		30000.00	9/21/1998		3.5x4.5x5	Depleted U	0
	Shielding									
24	Rod Source	Co-60	B904	0.5900	2.2	6/1/1979	10219	5X0.6X0.6	PLASTIC ROD	0
25	4 Rod Sources	Unk/Mn54/Na22/Co60						Ea= 5X0.6X0.6	PLASTIC RODS	0
26	Contaminated Lead Vial	Unknown	0.4mR @ surface					4X2.5X2.5	LEAD CONTAINER	0
27	2.5mm spheres	Cs-137	15 spheres	13.3mCi	20,000	3/1/1989	6658	lead cyl 4x15 in lead cyl 6x10 in	metal metal	0
28	2.5mm spheres	Cs-137	10 spheres	16.7mCi	24000	3/9/1991	5920			30
29	Button sources	Cs-137	3 Sources	6.58	10	May-88		1X1X0.25	PLASTIC BUTTONS	9
	A,B,and C									
30	1oz Vial	Uranium Acetate						3.25X1.75X1.75	GLASS	0
31	Rod	Co-60		0.003	0.124	3/2/1979		5X0.5X0.5	PLASTIC ROD	0
32	Rod	I-129		0.85	0.85	2/6/1979		5X0.5X0.5	PLASTIC ROD	0
33	Button	I-129		0.1	0.1			0.5X0.25X0.25	PLASTIC BUTTON	0
34	Rod	Cs-137	A54	0.1				5X0.6X0.6	PLASTIC ROD	0
35	Vial-Calibration	Co-57	157825	2.1	5000	3/1/1986		3.5X1.25X1.25	PLASTIC VIAL	4
36	Radium Plaque	Radium	6x4x1 mm					6.25X2.75X2.75	GLASS	0
37	Uranyl Nitrate	2 -1oz. Vials						3.5X1.5X1.5	2 GLASS VIALS	26
38	Lead Vial	Unknown	10mR @ surface			8/20/1999		5X3.5X3.5	PLASTIC+LEAD	17
39	Therapy seeds	Radium	12 seeds.					5X3.25X3.25	LEAD	0

R. V. Vasquez 5/24/07
BW 6/20/07

**ADCO****Services, Inc.**

05-29-07

Mr. Robert Varsanik
St. Francis Hospital
114 Woodland Street
Hartford, CT 06105

Dear Mr. Varsanik,

In compliance with the requirements of 10 CFR 20, Appendix G, Section III, C.1 the attached signed shipping manifest copies are your notice of receipt and acceptance of the radioactive materials specified on the manifest. Adco does not issue Certificates of Destruction or Disposal.

Manifest Number
07-0155SB

Date Received
5/29/2007

Sincerely,

Len Warbiany
Facility Manager

FORM 540 (10-96)

FORM 541										ADCO SERVICES, INC.				1. MANIFEST TOTALS				2. MANIFEST NUMBER		
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST										SPECIAL NUCLEAR MATERIAL (grams)				07-0155 SB						
CONTAINER AND WASTE DESCRIPTION										U-233 U-235 Pu TOTAL				3. PAGE 1 OF 2 PAGE(S)						
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste										NP NP NP NP				4. SHIPPER NAME						
										ACTIVITY				ST. FRANCIS HOSPITAL/FOR T						
										C-14 Tc-99 I-129 SOURCE				SHIPMENT ID NUMBER						
										ALL NUCLIDES TRITIUM				61356						
										MBq 3.3315E+03 NP NP NP 3.5150E-02 (KGS) NA										
										mCi 9.0042E+01 NP NP NP 9.5000E-04 (LBS) NA										
DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION
5. CONTAINER IDENTIFICATION NUMBER / SC PERMIT	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (lb)	9. SURFACE RADIATION LEVEL mSv/hr mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT			16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
											RADIONUCLIDES MBq mCi									
07-0155-01/NA 114 WOODLAND STREET HARTFORD, CT 06105	4	0.0396	11.3398	0.1	NP	NP	36-H	0.0396	100	SEALED SOURCES/NP	0.00	Co-57	5.4679E-02	1.4778E-03	AU					
		1.4000	25.0000	4.0	NP	NP		1.4000				Co-57	4.6398E-03	1.2540E-04						
												Co-57	8.6950E-04	2.3500E-05						
												Co-57	1.6910E-04	4.3000E-06						
												Co-57	1.1766E-01	3.1800E-03						
												Co-57	4.1070E-02	1.1100E-03						
												Co-57	7.4000E-06	2.0000E-07						
												Co-57	3.3300E-09	9.0000E-11						
												Co-57	2.9600E-05	8.0000E-07						
												Co-57	7.7700E-02	2.1000E-03						
												Co-60	1.6021E-01	4.3300E-03						
												Co-60	4.9580E-02	1.3400E-03						
												Co-60	2.1830E-02	5.9000E-04						
												Co-60	1.1100E-04	3.0000E-06						
												Cs-137	1.6280E-03	4.4000E-05						
												Cs-137	1.8500E-02	5.0000E-04						
												Cs-137	1.6650E-03	4.5000E-05						
												Cs-137	1.8500E-02	5.0000E-04						
												Cs-137	2.1793E-01	5.8900E-03						
												Cs-137	4.0922E-01	1.1060E-02						
												Cs-137	2.4346E-01	6.5800E-03						
												Cs-137	3.7000E-03	1.0000E-04						
												Ga-68	1.7448E-02	4.7150E-04						
												Ga-68	3.2331E-02	8.7380E-04						
												I-129	3.1450E-02	8.5000E-04						
												I-129	3.7000E-03	1.0000E-04						
												Na-22	3.7000E-03	1.0000E-04						
												Ra-226	0.0000E+00	0.0000E+00						
												Subtotal	1.5318E+00	4.1399E-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	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in Item 6, or additional page.
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

Note 1A: Barnwell Specific Container Description Codes. (Choose one code as may be applicable.)

A High Integrity Container - Poly
B High Integrity Container - Poly with Steel Shell
C High Integrity Drum Overpack - Poly
D High Integrity Container - Stainless Steel
E High Integrity Container - Fiberglass
F Liner - Steel

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

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcasses)
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: Barnwell Specific Waste Descriptor Codes. (Choose all applicable codes.)

G Dewatered
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 "S" and the media vendor and brand name must also be identified in Item 13. Code 100=NONE REQUIRED.

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

Note 3A: Barnwell Specific Solidification and Stabilization Media Codes. (Choose this code if applicable)

M Wax Binder

FORM 541A

UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST

ADCO SERVICES, INC.

2. MANIFEST NUMBER
07-0155 SB

3. PAGE 2 OF 2 PAGE(S)

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER				RADIOLOGICAL DESCRIPTION				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C					
5. CONTAINER IDENTIFICATION NUMBER / SC PERMIT	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (R3)	8. WASTE AND CONTAINER WEIGHT (kg) (LB)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100 cm2)		11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	14. CHEMICAL DESCRIPTION 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			
					ALPHA	BETA-GAMMA		RADIONUCLIDES									
07-0155-02/NA 114 WOODLAND STREET HARTFORD, CT 06105	1	0.0566	11.3398	0.004	NP	NP	36-H	0.0566	100	FLOOD SOURCE/MP	0.00	Total	1.5318E+00	4.1399E-02			
		2.0000	25.0000	14	NP	NP	36-H	2.0000	100	FLOOD SOURCE/MP	0.00	Co-57	1.1315E-02	3.0580E-04	AU		
												Subtotal	1.1315E-02	3.0580E-04			
												Total	1.1315E-02	3.0580E-04			
07-0155-03/NA 114 WOODLAND STREET HARTFORD, CT 06105	1	0.0566	11.3398	0.007	NP	NP	36-H	0.0566	100	FLOOD SOURCE/MP	0.00	Co-57	1.7464E-03	4.7200E-05	AU		
		2.0000	25.0000	13	NP	NP	36-H	2.0000	100	FLOOD SOURCE/MP	0.00	Subtotal	1.7464E-03	4.7200E-05			
												Total	1.7464E-03	4.7200E-05			
07-0155-04/NA 114 WOODLAND STREET HARTFORD, CT 06105	4	0.0396	11.3398	0.45	NP	NP	36-H	0.0396	100	SEALED SOURCE/MP	0.00	Cs-137	1.1100E+03	3.0000E+01	AU		
		1.4000	25.0000	45.0	NP	NP	36-H	1.4000	100	SEALED SOURCE/MP	0.00	Subtotal	1.1100E+03	3.0000E+01			
												Total	1.1100E+03	3.0000E+01			
07-0155-05/NA 114 WOODLAND STREET HARTFORD, CT 06105	4	0.0396	11.3398	0.007	NP	NP	36-H	0.0396	100	SEALED SOURCE/MP	0.00	Cs-137	1.1100E+03	3.0000E+01	AU		
		1.4000	25.0000	0.7	NP	NP	36-H	1.4000	100	SEALED SOURCE/MP	0.00	Subtotal	1.1100E+03	3.0000E+01			
												Total	1.1100E+03	3.0000E+01			
07-0155-06/NA 114 WOODLAND STREET HARTFORD, CT 06105	4	0.0396	11.3398		NP	NP	36-H	0.0396	100	SEALED SOURCE/MP	0.00	Cs-137	4.9210E+02	1.3300E+01	AU		
		1.4000	25.0000		NP	NP	36-H	1.4000	100	SEALED SOURCE/MP	0.00	Subtotal	6.1790E+02	1.6700E+01			
												Total	1.1100E+03	3.0000E+01			
Shipment Totals		0.2716	68.0388										3.3315E+03	9.0042E+01			
		9.6000	150.0000														

FORM 541A (10-96)