

Northern Michigan Regional HOSPITAL

Facsimile
Radiation Oncology
416 Connable Avenue
Petoskey, MI 49770
Ddryden@northernhealth.org

Date: 4-23-2008 From: Dan Dryden, MS, DABR
 To: Jim Mullaver Phone: 231.487.4264
 Phone: 623-214-5213 Fax: 231.487.7840
 Fax: 630-829-9873 Pages: 10 (Including Cover Sheet)

Re: ① Cs-137 Source Removal
② Cs-137 Sources Remaining @ NMRH
③ ADLO removal sheets

Urgent For Review Please Comment Please Reply

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Providing healthcare as we expect for our own family.

LO 6-7-06

06-0181S

ADCO SERVICES, INC. RADIOACTIVE EST ER		5. SHIPPER - NAME AND FACILITY NORTHERN MICHIGAN HOSPITAL FOR THE ACCOUNT OF ADCO SERVICES, INC. 416 CONNABLE AVENUE PETOSKY, MI 49770			SHIPMENT I.D. NUMBER 61215		7. FORM 540 AND 540A PAGE 1 OF 1 PAGE(S) FORM 541 AND 541A 2 PAGE(S) FORM 542 AND 542A None PAGE(S) ADDITIONAL INFORMATION None PAGE(S)			8. MANIFEST NUMBER (Use this number on all continuation pages) 06-0181 S		
SC PERMIT NA		SHIPMENT NUMBER 06-0181 S		<input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		9. CONSIGNEE - Name and Facility Address ADCO SERVICES, INC. 17650 DUVAN DRIVE TINLEY PARK, IL 604771			CONTACT LEN WARBIANY/FACILITY MGR TELEPHONE NUMBER (include Area Code) 708-429-3013			
CONTACT DAN DRYDEN-RSO		TELEPHONE NUMBER (include Area Code) 231-487-4209			EPA I.D. NUMBER ILD 047267364			SIGNATURE - Authorized consignee acknowledging waste receipt DATE				
6. CARRIER - Name and Address ADCOM EXPRESS, INC. 17650 DUVAN DRIVE TINLEY PARK, IL 60477		SHIPPING DATE 6/7/06		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 are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.			AUTHORIZED SIGNATURE [Signature]			TITLE R.S.O.		
11. NUMBER OF PAGES IDENTIFIED IN THIS MANIFEST =====> 4		CONTACT BOB BASSETT		TELEPHONE NUMBER (include Area Code) 708-429-3013		DATE 6/7/06			DATE 6/7/06			
NONE REQUIRED		SIGNATURE -- Authorized carrier acknowledging waste receipt [Signature]		DATE 6/7/06		AUTHORIZED SIGNATURE [Signature]			TITLE R.S.O.			
11. NUMBER OF PAGES IDENTIFIED IN THIS MANIFEST	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES			16. TOTAL PACKAGE ACTIVITY		17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME	19. IDENTIFICATION NUMBER OF PACKAGE	
	YELLOW II	1	Solid SEALED SOURCE	Co-57	Cs-137	Ge-68	2.2677E+03	6.1290E+01	NA	25. LBS; 1.4 FT3	06-0181-01	
	YELLOW II	1	Solid SEALED SOURCES	Cs-137			2.2635E+04	6.1175E+02	NA	25. LBS; 1.4 FT3	06-0181-02	
	YELLOW II	1	Solid SEALED SOURCES	Cs-137			2.0354E+04	5.5010E+02	NA	25. LBS; 1.4 FT3	06-0181-03	
JN 2915 (CS-	YELLOW II	3	Solid SEALED SOURCE	Cs-137			4.4400E+04	1.2000E+03	NA	25. LBS; 1.4 FT3	06-0181-04	
20. Check appropriate items <input checked="" type="checkbox"/> Customer represents and warrants that all data set forth in this Uniform Low-Level Radioactive Manifest is true and correct in all respects. <input type="checkbox"/> Packages listed as "Limited Quantity of Radioactive Material" on this manifest conform to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package-limited quantity of material UN2910. <input type="checkbox"/> Packages listed as "NON-REGULATED MATERIAL" on this manifest are classified in accordance with 49 CFR 173.403 (Definition of Radioactive Material). These Materials must still be disposed of at a licensed facility.												

04/23/2008 WED 13:20 FAX 231 487 7840 RADIATION THERAPY

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002/010

ADCO 6-7-06

FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER ADCO SERVICES, INC.		5. SHIPPER -- NAME AND FACILITY NORTHERN MICHIGAN HOSPITAL FOR THE ACCOUNT OF ADCO SERVICES, INC. 416 CONNABLE AVENUE PETOSKY, MI 49770		SHIPMENT I.D. NUMBER 61215		7 FORM 540 AND 540A PAGE 1 OF 1 FORM 541 AND 541A 2 FORM 542 AND 542A None ADDITIONAL INFORMATION None					
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 1-800-535-5053		SC PERMIT NA		SHIPMENT NUMBER 06-0181 5		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) M					
ORGANIZATION INFO TRAC		CONTACT DAN DRYDEN-RSO		TELEPHONE NUMBER (Include Area Code) 231-487-4208		9. CONSIGNEE - Name and Facility Address ADCO SERVICES, INC. 17650 DUVAN DRIVE TINLEY PARK, IL 604771					
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 =====> 4		6. CARRIER -- Name and Address ADCOM EXPRESS, INC. 17650 DUVAN DRIVE TINLEY PARK, IL 60477		EPA I.D. NUMBER ILD 047287364					
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number =====>		EPA MANIFEST NUMBER NONE REQUIRED		CONTACT BOB BASSETT		TELEPHONE NUMBER (Include Area Code) 708-429-3013					
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		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		10. CER This is to certify that the herein-named materials are in proper condition for transportation according to the app. certifies that the materials are classified, packaged, marked, and disposed of as described in accordance with the requirements of 49 CFR 173.41.	
Radioactive material, Type A Package, 7., UN 2915		YELLOW II		.1		Solid SEALED SOURCE Co-57 Cs-137 Ge-68		2.2677E+03 6.1290E+01		NA	
Radioactive material, Type A Package, 7., UN 2915		YELLOW II		.61		Solid SEALED SOURCES Cs-137		2.2635E+04 6.1175E+02		NA	
Radioactive material, Type A Package, 7., UN 2915		YELLOW II		.1		Solid SEALED SOURCES Cs-137		2.0354E+04 5.5010E+02		NA	
RQ, Radioactive material, Type A Package, 7., UN 2915 (CS-137)		YELLOW II		.3		Solid SEALED SOURCE Cs-137		4.4400E+04 1.2000E+03		NA	
FOR CONSIGNEE USE ONLY						20. Check appropriate items: <input checked="" type="checkbox"/> Customer represents and warrants that all data set forth in this Uniform Low-Level Radioactive Manifest is true and correct. <input type="checkbox"/> Packages listed as "Limited Quantity of Radioactive Material" on this manifest conform to the conditions and limitations of 49 CFR 173.41, excepted package-limited quantity of material UN2910. <input type="checkbox"/> Packages listed as "NON-REGULATED MATERIAL" on this manifest are classified in accordance with 49 CFR 173.41 and will be disposed of at a licensed facility.					

2A

04/23/2008 WED 13:21 FAX 231 487 7840 RADIATION THERAPY 003/010

ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

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

NUMBER OF PACKAGES/DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	1. MANIFEST TOTALS				TOTAL
			SPECIAL NUCLEAR MATERIAL (grams)				
			U-233	U-235	Pu		
4	m3 0.1584	kg 45.3592	NP	NP	NP	NP	NP
	ft3 5.6000	lb 100.0000					
ACTIVITY							
ALL NUCLIDES		TRITIUM	C-14	Tc-99	I-129	SOURCE	
MBq 8.9657E+04		NP	NP	NP	NP	(kgs)	NA
mCi 2.4231E+03		NP	NP	NP	NP	(lbs)	NA

DISPOSAL CONTAINER DESCRIPTION

WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER

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		15. RADIATION
					ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%				
06-0181-01/NA 416 CONNABLE AVENUE PETOSKY, MI 49770	4	0.0396	11.3398	0.3	NP	NP	36-H	0.0396	100	SEALED SOURCE/NP	0.00	Co-57 Co-57 Co-57 Cs-137	INDIVIDUAL CONTAINERS
		1.4000	25.0000	3.0	NP	NP		1.4000					
06-0181-02/NA 416 CONNABLE AVENUE PETOSKY, MI 49770	19 TYPE A PACKAGE / 1.4 CU FT	0.0396	11.3398	1	NP	NP	36-H	0.0396	100	SEALED SOURCES/NP	0.00	Cs-137 Cs-137 Cs-137 Cs-137 Cs-137	RADIO
		1.4000	25.0000	10.0	NP	NP		1.4000					
													Total
													Total

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. Carbon 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 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: 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 Codes. (Choose up by volume.) For structural stability code must be follow vendor and brand in item 13. Code 1

90. Cement
91. Concrete
92. Bitumen
93. Vinyl Chloride

2A

04/23/2008 WED 13:23 FAX 231 487 7840 RADIATION THERAPY 004/010

ADCO SERVICES, INC.

ADIOACTIVE EST

DESCRIPTION

Requirements for Control, Transfer and Waste

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS		NET WASTE VOLUME	NET WASTE WEIGHT	1. MANIFEST TOTALS				2. MANIFEST NUMBER	
				SPECIAL NUCLEAR MATERIAL (grams)				06-0181 S	
				U-233	U-235	Pu	TOTAL	3. PAGE 1 OF 2 PAGE(S)	
4		m3 0.1584	kg 45.3592	NP	NP	NP	NP	4. SHIPPER NAME NORTHERN MICHIGAN HOSPIT	
		lit 5.6000	lb 100.0000					SHIPMENT ID NUMBER 61215	
		ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129	SOURCE		
MBq		8.9657E+04	NP	NP	NP	NP	(kgs)	NA	
mCi		2.4231E+03	NP	NP	NP	NP	(lbs)	NA	

VOLUME (m3) (lit)	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		15. RADIOLOGICAL DESCRIPTION				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
			ALPHA	BETA-GAMMA				CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
										RADIONUCLIDES				
0.0396	11.3398	0.03	NP	NP	36-H	0.0396	100	SEALED SOURCE/NP	0.00	Co-57	9.2500E+00	2.5000E-01	AU	
1.4000	25.0000	3.0	NP	NP		1.4000				Co-57	9.2408E+00	2.4975E-01		
										Co-57	3.7000E+00	1.0000E-01		
										Co-57	3.7000E+00	1.0000E-01		
										Cs-137	1.1100E+03	3.0000E+01		
										Ge-68	2.1830E+01	5.9000E-01		
										Subtotal	2.2677E+03	6.1290E+01		
										Total	2.2677E+03	6.1290E+01		
0.0396	11.3398	1	NP	NP	36-H	0.0396	100	SEALED SOURCES/NP	0.00	Cs-137	2.3958E+03	6.4750E+01	AU	
1.4000	25.0000	10.0	NP	NP		1.4000				Cs-137	2.3958E+03	6.4750E+01		
										Cs-137	2.3958E+03	6.4750E+01		
										Cs-137	2.3958E+03	6.4750E+01		
										Cs-137	2.3958E+03	6.4750E+01		
										Cs-137	2.3958E+03	6.4750E+01		
										Subtotal	2.2635E+04	6.1175E+02		
										Total	2.2635E+04	6.1175E+02		

Barnwell Specific Container Description
Choose one code as may be applicable.)

h Integrity Container - Poly
i Integrity Container - Poly with Steel Shell
j Integrity Drum Overpack - Poly
k Integrity Container - Stainless Steel
l Integrity Container - Fiberglass
m 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 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: 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.

Solidification
90. Cement
91 Concrete (encapsulation)
92. Bitumen
93. Vinyl Chloride

94. Vinyl Ester Styrene
99. Other. Describe in item 13, or additional page
100. None Required

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

M Wax Binder

2B

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

ADCO SERVICES, I

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DISPOSAL CONTAINER DESCRIPTION			CONTAINER AND WASTE DESCRIPTION (CONTINUATION)				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER					
5 CONTAINER IDENTIFICATION NUMBER / SC PERMIT	6 CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7 VOLUME (m ³) (ft ³)	8 WASTE AND CONTAINER WEIGHT (kg) (LB)	9 SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10 SURFACE CONTAMINATION (MBq/100 cm ²) (dpm/100 cm ²)		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12 APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m ³) (FT ³)	13 SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	14 CHEMICAL FORM/ CHELATING AGENT	15 WEIGHT % CHELATING AGENT IF > 0.1%	15 INDIVIDUAL CONTAINER
					ALPHA	BETA-GAMMA						
06-0181-03/NA 416 CONNABLE AVENUE PETOSKY, MI 49770	19 TYPE A PACKAGE / 1.4 CU FT	0.0396	11.3398	0.6	NP	NP	36-H	0.0396	100	SEALED SOURCE/NP	0.00	Cs-137
		1.4000	25.0000	6.0	NP	NP		1.4000				Cs-137
												Cs-137
												Cs-137
												Cs-137
												Cs-137
												Cs-137
												Subtotal
												Total
06-0181-04/NA 416 CONNABLE AVENUE PETOSKY, MI 49770	19 TYPE A PACKAGE / 1.4 CU FT	0.0396	11.3398	0.2	NP	NP	36-H	0.0396	100	SEALED SOURCE/NP	0.00	Cs-137
		1.4000	25.0000	2.0	NP	NP		1.4000				Subtotal
												Total
Shipment Totals		0.1584	45.3592									
		5.6000	100.0000									

FORM 541A (10-95)

3A

006/010

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

ADCO SERVICES, INC.

2. MANIFEST NUMBER
06-0181 S

3. PAGE 2 OF 2 PAGE(S)

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DESCRIPTION	WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16 WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C			
	8 WASTE AND CONTAINER WEIGHT (kg) (LB)	9 SURFACE RADIATION LEVEL mSv/hr rem/hr	10 SURFACE CONTAMINATION MBq/100 cm ² dpm/100 cm ²		11 WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (FT ³)		13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	14. CHEMICAL DESCRIPTION			15. RADIOLOGICAL DESCRIPTION		
			ALPHA	BETA-GAMMA		CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF >0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT					
VOLUME (m ³) (ft ³)										RADIONUCLIDES				
											MBq	mCi		
0.0396	11.3398	0.6	NP	NP	36-H	0.0396	100	SEALED SOURCE/NP	0.00	Cs-137 Cs-137 Cs-137 Cs-137 Cs-137	9.6200E+02 9.5275E+02 9.5275E+02 4.5325E+02 9.8050E+02	2.6000E+01 2.5750E+01 2.5750E+01 1.2250E+01 2.6500E+01		AU
1.4000	25.0000	6.0	NP	NP		1.4000				Cs-137 Cs-137 Cs-137 Cs-137 Cs-137	9.9900E+02 9.8975E+02 4.9673E+02 4.9673E+02 9.2500E+02	2.7000E+01 2.6750E+01 1.3425E+01 1.3425E+01 2.5000E+01		
										Cs-137 Cs-137 Cs-137 Cs-137 Cs-137	9.2500E+02 9.2500E+02 9.2500E+02 9.2500E+02 9.2500E+02	2.5000E+01 2.5000E+01 2.5000E+01 2.5000E+01 2.5000E+01		
										Cs-137 Cs-137 Cs-137 Cs-137 Cs-137	9.2500E+02 9.2500E+02 9.2500E+02 9.2500E+02 9.2500E+02	2.5000E+01 2.5000E+01 2.5000E+01 2.5000E+01 2.5000E+01		
										Cs-137 Cs-137 Cs-137 Cs-137 Cs-137	9.2500E+02 9.2500E+02 9.2500E+02 9.2500E+02 3.8203E+03	2.5000E+01 2.5000E+01 2.5000E+01 2.5000E+01 1.0325E+02		
										Subtotal	2.0354E+04	5.5010E+02		
										Total	2.0354E+04	5.5010E+02		
0.0396	11.3398	0.2	NP	NP	36-H	0.0396	100	SEALED SOURCE/NP	0.00	Cs-137	4.4400E+04	1.2000E+03		AU
1.4000	25.0000	20.0	NP	NP		1.4000				Subtotal	4.4400E+04	1.2000E+03		
										Total	4.4400E+04	1.2000E+03		
0.1584	45.3592										8.9657E+04	2.4231E+03		
5.6000	100.0000													

3B

04/23/2008 WED 13:28 FAX 231 487 7840 RADIATION THERAPY 007/010

Source Removal

Adco Services

Cs-137 SEALED SOURCE INVENTORY CHECK						
Source Location	#	M #	S #	Ave. Activity	Date =>	Inventory Results
Drawer E						
					mCi	
Red section 5 "Nuclear Assoc."	✓ 1	67-825		25.9 mgRaeq (1-4-80)	6.475 x 10 ¹	
	✓ 2	67-825		25.9 mgRaeq (1-4-80)	" "	
	✓ 3	67-825		25.9 mgRaeq (1-4-80)	" "	
	✓ 4	67-825		25.9 mgRaeq (1-4-80)	" "	
	✓ 5	67-825		25.9 mgRaeq (1-4-80)	" "	
	✓ 6	67-825		25.9 mgRaeq (1-4-80)	" "	
White section 4 "3M"	✓ 7	6503	1807	21.1 mgRaeq (10-9-81)	5.775	" "
	✓ 8	6503	1863	21.2 mgRaeq (10-9-81)	5.30	" "
Black section 3 "3M"	✓ 9	6502	2373	15.7 mgRaeq (10-9-81)	3.925	" "
	✓ 10	6502	2377	15.7 mgRaeq (10-9-81)	3.925	" "
	✓ 11	6502	2378	15.6 mgRaeq (10-9-81)	3.90	" "
Green section 2 "3M"	✓ 12	6501	4078	10.4 mgRaeq (10-9-81)	2.60	" "
	✓ 13	6501	4179	10.3 mgRaeq (10-9-81)	2.575	" "
	✓ 14	6501	4187	10.3 mgRaeq (10-9-81)	2.575	" "
Blue section 1 "3M"	✓ 15	6500	0815	4.9 mgRaeq (10-9-81)	1.225	" "
Total # =>						
Drawer C						
Lt Blue section 1 "3M"	✓ 8	6501	4672	10.6 mgRaeq (6-17-83)	2.65 x 10 ¹	
	✓ 9	6501	4673	10.8 mgRaeq (6-17-83)	2.70	" "
	✓ 10	6501	4674	10.7 mgRaeq (6-17-83)	2.675	" "
Total # =>						
Initials =>						

4

Source Removal Adco Services

Cs-137 SEALED SOURCE INVENTORY CHECK									
Source Location	#	M #	S #	Ave. Activity	<input checked="" type="checkbox"/>	Inventory Results			
Drawer F					MCi				
Silver section 1	✓ 5	6500	01839	5.37 mgRaeq (4-25-89)					
"3M"	✓ 6	6500	01840	5.37 mgRaeq (4-25-89)					
Total # =>									
Drawer D	✓ 1	67-601	G1-610	10.0 mgRaeq (12-11-79)		2.5	"		
	✓ 2	67-601	G1-620	10.0 mgRaeq (12-11-79)		2.5	"		
Cs-137	✓ 3	67-601	G1-630	10.0 mgRaeq (12-11-79)		2.5	"		
Micrad Sources	✓ 4	67-601	G1-640	10.0 mgRaeq (12-11-79)		2.5	"		
"Nuclear Assoc"	✓ 5	67-601	G1-650	10.0 mgRaeq (12-11-79)		2.5	"		
	✓ 6	67-601	G1-660	10.0 mgRaeq (12-11-79)		2.5	"		
	✓ 7	67-601	G1-670	10.0 mgRaeq (12-11-79)		2.5	"		
	✓ 8	67-601	G1-680	10.0 mgRaeq (12-11-79)		2.5	"		
	✓ 9	67-601	G1-690	10.0 mgRaeq (12-11-79)		2.5	"		
	✓ 10	67-601	G1-700	10.0 mgRaeq (12-11-79)		2.5	"		
Total # =>									
Drawer B									
Silver section 1	✓ 1	CDCS-K3	W2023	41.3 mgRaeq (12-16-88)					
"Amersham"									
Total # =>									
JC Shepard Calib Floor	✓ 1	28-6A	10109	1.2Ci 524mR/hr 2-17-84					
Total # =>									
Total # =>									
Initials =>									

(*) Sources Remaining in Inventory

Cs-137 SEALED SOURCE INVENTORY CHECK										
Source Location	#	M #	S #	Ave. Activity	Inventory Results					
Drawer F					Date =>	7/18/08				
Blue section 3 "Amersham"	1	CDCS J5	EM 761	27.46 mgRaeq (6-14-95)	✓					
	2	CDCS J5	EM 772	27.46 mgRaeq (6-14-95)	✓					
Green section 2 "Amersham"	3	CDCS J4	EB 460	22.41 mgRaeq (3-27-95)	✓					
	4	CDCS J4	EB 469	22.56 mgRaeq (3-27-95)	✓					
Total # =>					4					
Drawer C										
Orange section 3 "3M"	1	6503	2104	20.9 mgRaeq (6-17-83)	✓					
	2	6503	2111	20.8 mgRaeq (6-17-83)	✓					
	3	6503	2121	20.8 mgRaeq (6-17-83)	✓					
	4	6503	2127	20.8 mgRaeq (6-17-83)	✓					
Yellow section 2 "3M"	5	6502	3053	15.4 mgRaeq (6-17-83)	✓					
	6	6502	3054	15.5 mgRaeq (6-17-83)	✓					
	7	6502	3058	15.4 mgRaeq (6-17-83)	✓					
Total # =>					7					
Cs-137 Check Source	1	Nucleus	-----	1 microCi	✓					
Total # =>					1					
Total 0.577Ci					Initials =>	MP				