



**Lakeland HealthCare**  
Medical Excellence. Compassionate Care.



04/05/2016

ATTN:

Nuclear Regulatory Commission  
Region III, Materials Licensing Branch  
2443 Warrenville Rd., Ste. #210  
Lisle, IL 60532-4352

RE: Amendment to NRC License No. 21-04177-01, Lakeland Medical Center.

Please amend the following items:

Please remove Srinivasan Dhatreecharan, M.D. from our license as an Authorized User. Also, please remove item(s) 6 I., 7.I., and 8.I. from amendment license No. 96. for Gadolinium-153 permitted by 10 CFR 35.500. The sources have been removed from the property and properly disposed. Attached is the paperwork associated with the removal.

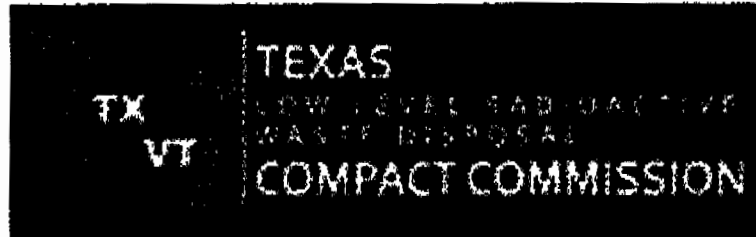
If there are any questions, please contact me at 269-985-4593, or by fax at 269-982-4937.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Sieffert'.

David E. Sieffert, M.S., DABR  
Medical Physicist  
Radiation Safety Officer  
Lakeland Medical Center  
1234 Napier Ave.  
St. Joseph, MI 49085  
E-mail: dsieffert@lakelandhealth.org

RECEIVED APR 08 2016

**GENERATOR AUTHORIZATION**Date 7/30/15

Lakeland authorizes RAM Services, Inc. of Two Rivers, Wisconsin (State of Wisconsin, radioactive materials license 071-1234-01) and/or Veolia ES Alaron, LLC of Wampum, PA (State of Pennsylvania, radioactive materials license PA-0678) to be our Broker and/or Processor for disposal of our radioactive material and/or sealed sources into the State of Texas Compact Disposal Facility in Andrews, Texas, operated by Waste Control Specialists, LLC. By signing this Generator Authorization, the Generator is also verifying that there is no waste of international origin contained in this shipment.

NAME OF AUTHORIZED  
ORIGINAL GENERATORREPRESENTATIVE: Shellee Gynn csmt/RT(N)TITLE: Lead Nuclear Medicine Technologist

MAILING

ADDRESS: 1234 Napier Ave, St. Joseph MO 64508SIGNATURE: Shellee Gynn csmt/RT(N)

2015-068

FCPV 507-9403

FORM 542		ADCO SERVICES, INC.		1. WASTE COLLECTOR/PROCESSOR						2. MANIFEST NUMBER					
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST				NAME		SHIPPER USE ONLY				15-000 R					
				LAKELAND HEALTH											
MANIFEST INDEX AND REGIONAL COMPACT TABULATION				IDENTIFICATION NUMBER		3. PAGE 1 OF 1 PAGE(S)									
				T-LL003-L15											
List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators.				SHIPPING DATE		7/15/2015									
9. SC TRANSPORT PERMIT NUMBER	8. GENERATOR NAME AND TELEPHONE NUMBER	7. GENERATOR FACILITY ADDRESS	6A. WASTE DESCRIPTION (NOMENCLATURE)	5. PREPROCESSED WASTE (OR MATERIAL) VOLUME (M3) (M2)	4. MANIFEST NUMBER(S) UNDER WHICH WASTE (OR MATERIAL) RECEIVED AND DATE OF RECEIPT	3. WASTE CODE P = PROCESSED C = COLLECTED	2. ORIGINATING COMPACT REGION OR STATE	11. AS PROCESSED/COLLECTED TOTAL							
								A. SOURCE MATERIAL (1g) (B) (2g)	B. SNM (1000) (10000)	C. ACTIVITY (MBq) (MCi)	D. VOLUME (L) (G)	E. WEIGHT (KG) (LB)	F. MAXIMUM RADIATION LEVEL (mR/hr) (mSv/hr)		
03140 38	LAKELAND HEALTH 269-315-3637	#FOR THE ACCT OF ADCO SERVICES 1214 NAPER AVENUE ST. JOSEPH, MO 64504	SEALED SOURCE/DEVICE		15-000 R Received: 07/06/2015	C		0.0001E+00 0.0001E+00 0.0001E+00	1.1840E-04 1.1840E-04	0.0000	1.4300	30	0.0000E+00		
TOTALS OF ALL PAGES (FORMS 542 AND 542A)								0.0001E+00 0.0001E+00 0.0001E+00	1.1840E-04 1.1840E-04	0.0000	1.4300	30.0000	N/A		

FORM 542 (06-03)

FORM 541 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

ADCO SERVICES, INC.

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

1. MANIFEST TOTALS

NUMBER OF PACKAGES/DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)			
			U-233	U-235	Pu	Tr
1	0.0395	13.6978	NP	NP	NP	NP
	1.4000	32.0000				

ACTIVITY

	ALL NUCLIDES	TRITIUM	C-14	Ti-99	I-129	Source (kg)
MSD	1.1840E-04	NP	NP	NP	NP	NA
nCi	3.2000E-06	NP	NP	NP	NP	NA

2. MANIFEST NUMBER: 15-0060 R

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME: LAKELAND HEALTH

SHIPMENT ID NUMBER: 62180

DISPOSAL CONTAINER DESCRIPTION

CONTAINER IDENTIFICATION NUMBER & C. TRANSPORT PERMIT NUMBER	CONTAINER DESCRIPTION (See Note 1 & Note 1A)	VOLUME (m <sup>3</sup> ) (1)	WASTE AND CONTAINER WEIGHT (kg) (2)	SURFACE RADIATION LEVEL (mSv/hr) (3)	SURFACE CONTAMINATION (Bq/cm <sup>2</sup> ) (4)		WASTE DESCRIPTION (See Note 2 & Note 2A)	APPROXIMATE WASTE VOLUME (m <sup>3</sup> ) IN CONTAINER (5)	SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	CHEMICAL FORM CHELATING AGENT	WEIGHT % CHELATING AGENT (If > 0.5%)	RADIOLOGICAL DESCRIPTION			18. WASTE CLASSIFICATION AS-CLASS A, B, or C
					ALPHA	BETA-GAMMA						INDIVIDUAL RADIONUCLIDES AND ACTIVITY (Bq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT	MSD	mCi	
15-0060-0162180	10.000000 PLASTIC CASE	0.0395	13.6978	4.3000E-04	NP	NP	30-H	0.0395	300	SEALED SOURCES/NP	0	Gd-153 6.2900E-05 Gd-153 5.5500E-05 Subtotal 1.1840E-04 Total 1.1840E-04	1.7000E-06 1.5000E-06 3.2000E-06 3.2000E-06	AU AU AU AU	
Shipment Totals		0.0395	13.6978									1.1840E-04	3.2000E-06		
		1.4000	32.0000												

NOTE 1: Container Description Codes. For combination waste requiring disposal in approved structural overpacks the numerical code must be followed by "OP."

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

NOTE 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal 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 "NONE" REQUIRED.

NOTE 4: Surface Specific Container Description Codes. (Choose one code as may be applicable.)

NOTE 5: Surface Specific Solidification and Stabilization Media Codes. (Choose one code as applicable.)

NOTE 6: Waste Error

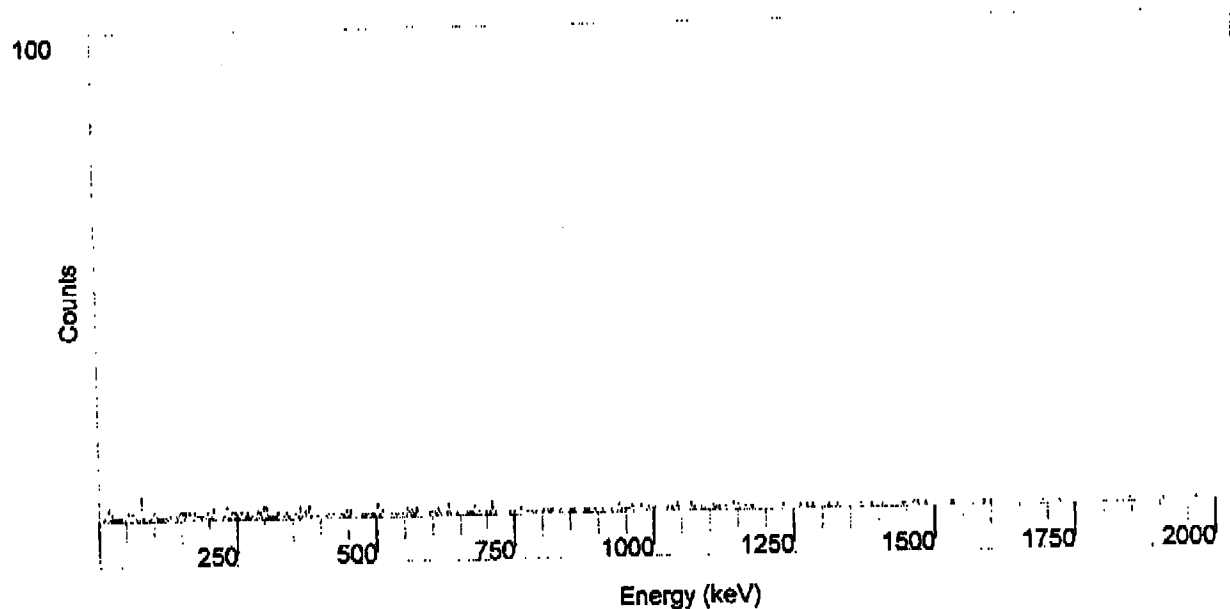
FORM 541 (05-09)

**UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST  
ISOTOPES REPORT****For Manifest # 15-0040 R  
ADCO SERVICES, INC.**

<b>Isotope</b>	<b>Total Activity</b>	
	<b>(MBq)</b>	<b>(mCi)</b>
<b>Cd-153</b>	<b>1.1840E-04</b>	<b>3.2000E-06</b>

**CAPTUS 3000 S/N: 901423**  
Lakeland Health Care-Nuclear Medicine  
1234 Napier Ave.  
St. Joseph, MI 49085

### Wipe Test Analysis

**General****Trigger Level: 2000 dpm    Counted For: 60.0 seconds**

Full Spectrum    Efficiency = 65%  
Background :    306.0 cpm  
Net Counts :    -8.000 cpm

Total Counts:    298.0 cpm  
Net Activity:    0.000 dpm

Energy (keV)	Net Counts (cpm)	Isotope	Activity (dpm)
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Lakeland Medical Center

1234 Napier Avenue

St. Joseph, MI 49085-2158

Lakeland Hospital, Niles

31 N. St. Joseph Avenue

Niles, MI 49120-2287

Lakeland Hospital, Watervliet

400 Medical Park Drive

Watervliet, MI 49098

Lakeland at Meadowbrook

2550 Meadowbrook Road

Benton Harbor, MI 49022

Pine Ridge: A Rehabilitation and Nursing Center

4368 Cleveland Avenue

Stevensville, MI 49127

Center for Outpatient Services

3900 Hollywood Road

St. Joseph, MI 49085

Other

## Fax Cover Sheet

To		From	
Name	NBC	Name	David Sieffert
Location	Region III	Location	Lakeland Medical Center
Phone		Phone	269-985-4593
Fax	630-515-1078	Fax	269-982-4937

## Message

ATTN:

materials Licensing Branch

## Notice

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## Transmission

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