

NATIONAL DIAGNOSTIC SERVICES, LLC

39595 W. Ten Mile Road – Suite 102, Novi, MI 48375

Phone: 248-476-6980 Fax: 248-476-7462

**March 30, 2016****UNITED STATES NUCLEAR REGULATORY COMMISSION**

Region III, Materials Licensing Section

2443 Warrenville Road

Suite 210

Lisle, IL 60532-4352

Re: National Diagnostic Services, LLC
Amendment of NRC License No. 21-32432-01
Termination of License and Close out survey

Dear Sir/Madam:

We wish to provide the following information, in an effort to terminate our NRC license.

Item #1: Please find the enclosed NRC-314 form for your review.

Item #2: Please find the enclosed closeout survey for the following locations of use on our license.

*39595 West Ten Mile Road
Suite 102
Novi, Michigan*

*39475 Lewis Drive
Suite 200
Novi, Michigan*

Please note the following:

- A close-out survey and wipe test were performed for both locations. The data is enclosed for your review.
- A map of the area(s) noted above keyed to the survey and wipe test data.
- The following radionuclide(s) (Sealed) Co-57, Ba-133 and Cs-137 and Unsealed Tc99m were used at these locations.
- All residual byproduct material to include waste was fully decayed in storage and disposed, returned to supplier or transferred to an Authorized Waste Broker.
- A copy of the sealed source leak test results for the sealed sources used at our facility are enclosed for your review.

RECEIVED MAR 30 2016

NATIONAL DIAGNOSTIC SERVICES, LLC

39595 W. Ten Mile Road - Suite 102, Novi, MI 48375

Phone: 248-476-6980 Fax: 248-476-7462



This facility is exempt from decommissioning due to low volumes and short physical half-lives of materials used. We did not dispose of radioactive materials by release to sewers or incineration. In addition, there were no spills of any long-lived radioactive material or on-site burials of radioactive materials.



If you have any questions, please contact our RSO / physicist, James M. Botti, MS by phone at (734) 662-3197 or by email at jbotti@mpcphysics.com.

Respectfully Yours,

A handwritten signature in black ink, appearing to read "MK", is positioned above the printed name.

Michael Ketslakh
President and Owner

Enclosures

NRC FORM 314 (02-2014) 10 CFR 30.38(j)(1); 40.42(j)(1); 70.38(j)(1); and 72.54(k)(9)(1)(1)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3150-0028		EXPIRES: 02/28/2017	
 CERTIFICATE OF DISPOSITION OF MATERIALS		Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollections.Resource@nrc.gov , and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), 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.					
		LICENSEE NAME AND ADDRESS		LICENSE NUMBER		DOCKET NUMBER	
		National Diagnostic Service, LLC 39595 West Ten Mile Road, Suite 102 Novi, MI 48375		21-32432-01			
		LICENSE EXPIRATION DATE		04/30/2023			
A. LICENSE STATUS (Check the appropriate box)							
<input type="checkbox"/> This license has expired. <input checked="" type="checkbox"/> This license has not yet expired; please terminate it.							
B. DISPOSAL OF RADIOACTIVE MATERIAL (Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)							
The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:							
<input type="checkbox"/> 1. No radioactive materials have ever been procured or possessed by the licensee under this license.							
<input checked="" type="checkbox"/> 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:							
<input type="checkbox"/> a. Transfer of radioactive materials to the licensee listed below:							
<input checked="" type="checkbox"/> b. Disposal of radioactive materials:							
<input checked="" type="checkbox"/> 1. Directly by the licensee:							
Decayed to Waste and Returned to Unit Dose Pharmacy							
<input type="checkbox"/> 2. By licensed disposal site:							
<input checked="" type="checkbox"/> 3. By waste contractor:							
All sources were transferred for disposal by Chase Environmental Group for final disposal to the Texas Low Level Radioactive Waste Disposal Compact Commission. See Manifest.							
<input checked="" type="checkbox"/> c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.							
C. SURVEYS PERFORMED AND REPORTED							
<input checked="" type="checkbox"/> 1. A radiation survey was conducted by the licensee. The survey confirms:							
<input checked="" type="checkbox"/> a. the absence of licensed radioactive materials							
<input checked="" type="checkbox"/> b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.							
<input checked="" type="checkbox"/> 2. A copy of the radiation survey results:							
<input checked="" type="checkbox"/> a. is attached; or <input type="checkbox"/> b. is not attached (Provide explanation); or <input type="checkbox"/> c. was forwarded to NRC on: _____ Date _____							
<input type="checkbox"/> 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and							
<input type="checkbox"/> a. The results of the latest leak test are attached; and/or <input type="checkbox"/> b. No leaking sources have ever been identified.							
The person to be contacted regarding the information provided on this form:							
NAME		TITLE		TELEPHONE (include Area Code)		E-MAIL ADDRESS	
James M. Botti, MS		Radiation Safety Officer		(734) 662-3197		jbotti@mpcphysics.com	
Mail all future correspondence regarding this license to: 39595 West Ten Mile Road Suite 102 Novi, MI 48375							
C. CERTIFYING OFFICIAL							
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT							
PRINTED NAME AND TITLE				SIGNATURE		DATE	
Michael Ketlash, President						03/29/16	
WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.							

NRC FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER NAME AND FACILITY Chase Environmental Group, Inc. 11450 Waterson Court Louisville, KY 40299		SHIPPER ID # N/A <input checked="" type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		6. HAZARDOUS MATERIALS PAGE 1 OF 1 OF 1 PAGE(S) OF 1 PAGE(S) OF 1 PAGE(S) OF 1 PAGE(S)		8. Manifest Number (Use this number on all continuation pages) AL-2016-075	
9. EMERGENCY TELEPHONE NUMBER (INCLUDE AREA CODE) 800-424-8300		7. PERMIT NUMBER T-KY003-L18		8. CONSIGNEE NAME AND FACILITY ADDRESS Alaron Corporation 2138 State Route 18 Wampum, PA 16157		Contact Mike Offord Telephone Number (include area code) 724-535-5777		Date 3-17-16	
ORGANIZATION CHEMTREC WSDS #: CHEN01RAD Customer #: 4395		9. CARRIER NAME AND ADDRESS SJ Transportation Co., Inc. PO Box 169 Woodstown, NJ 08098		EPA ID # NJD071628878		SIGNATURE <i>[Signature]</i>		10. Certification This is to certify that the waste named herein is acceptable for disposal, use properly classified, packaged, marked, and labeled, and is in proper condition for transportation according to the applicable regulations of the Department of Transportation and the Comaration.	
11. IS THIS WASTE RADIOACTIVE? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		12. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 1		13. CARRIER NAME AND ADDRESS Kevin Elder Woodstown, NJ 08098		TELEPHONE # 859-760-2741		DATE 3-16-16	
14. EPA MANIFEST NUMBER N/A		15. DOT LABEL "RADIOACTIVE" Yellow-II		16. PHYSICAL AND CHEMICAL FORM Solid/Oxide		17. HAZARDOUS MATERIALS 8e-133; Cs-137		18. TOTAL PACKAGE ACTIVITY IN MBq 2.31E+01	
19. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number, and any additional information)		20. DOT LABEL "RADIOACTIVE" Yellow-II		21. PHYSICAL AND CHEMICAL FORM Solid/Oxide		22. HAZARDOUS MATERIALS 8e-133; Cs-137		23. TOTAL PACKAGE ACTIVITY IN MBq 2.31E+01	
UN2815 Radioactive material, Type A package, 7 One drum with 6-vials for disposal		Yellow-II		Solid/Oxide		8e-133; Cs-137		2.31E+01	
RECEIVED MAR 17 2016		ALARON CORPORATION 16-042		Generator Certification Statement: The constituents of the waste manifested herein are known to the generator. There are no EPA RCRA, pathogenic or other hazards present other than those specifically listed on the Form 541.		SIGNATURE <i>[Signature]</i>		DATE 3-16-16	

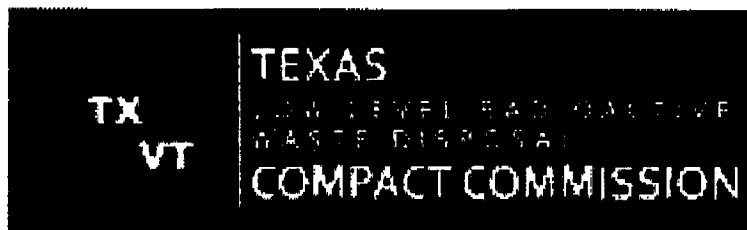
CONSIGNEE ORIGINAL (MUST ACCOMPANY WASTE IN TRANSIT)

NRC FORM 542 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST			1. WASTE COLLECTOR/PROCESSOR				2. MANIFEST NUMBER			
U.S. NUCLEAR REGULATORY COMMISSION			NAME Chase Environmental Group, Inc.		SHIPPER USE ONLY		AL-2016-075			
IDENTIFICATION NUMBER T-KY003-L18			SHIPPING DATE 3/3/2016				PAGE 1 OF 1 PAGE(S)			
MANIFEST INDEX AND REGIONAL COMPACT TABULATION List all original "PROCESSED WASTE" before "COLLECTED WASTE"										
C GENERATOR IDENTIFICATION NUMBER	D GENERATOR NAME PERMIT NUMBER AND TELEPHONE NUMBER	E GENERATOR FACILITY ADDRESS	F WASTE DESCRIPTION VOLUME [m3]	G WASTE DESCRIPTION PERCENTAGE [m3]	H WASTE CODE	I WASTE DATE	J1. AS PROCESSED/COLLECTED TOTAL			
							A SOURCE MATERIAL (kg)	B. SNM (g)	C ACTIVITY (MBq)	D. VOLUME (m3)
1590	National Diagnostic Services 248-476-6980 x590	39596 W. Ten Mile Road, Suite 102 Novi, MI 48375	0.038	NA	C	MI	0.00E+00	NP	2.31E+01	0.038
TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A)							0.000	0.000	2.31E+01	0.038

Request For Shipment of Sealed Sources to Alaron

WI-YE-1109-051.1

1. Radionuclide		Multiple See Attached					
2. Total activity Specify Units (TBq or Ci) to right		See Attached					
3. Reference date for activity (date manufactured) mm/dd/yyyy		See Attached					
4. Decay corrected activity on shipment date		See Attached					
5. Source manufacturer (if known)		See Attached					
6. Source Serial No. / Model No. / Device License No.		See Attached					
7. Physical Dimensions of Source Specify Units (cm or in) to right		E-vial					
8. Source mounted in equipment? If yes, attach drawings / photograph or manufacturer & model no.		NO					
9. Date of most recent leak test (attach copy of results) mm/dd/yyyy							
10. Source damaged, discolored, leaking, or contaminated? If yes, attach detail		NO					
11. Does source have special form approval? If yes, supply copy of certificate		NO					
12. Shipper name & address Chase Environmental Group 109 Flint Road Oak Ridge, TN 37830		13. Shipper contact person Janet Baker Telephone 865-250-4563		14. Delivering carrier SJ Transportation Co., Inc.			
		15. Shipment Date mm/dd/yyyy 03/03/2016		16. Estimated delivery date mm/dd/yyyy			
17. Source owner company name and address (at source location) National Diagnostic Services 38595 W. Ten Mile Road, Suite 102 Novi, MI 48375		18. Contact person (at source location) Jennifer McEvers Telephone 248-478-8980 x550		19. Number of packages 1 Total weight lbs			
		Comments					
20. I attest that the above is complete and accurate							
<u>Jennifer McEvers</u> Printed name of Shipper or Source Owner		<u>[Signature]</u> Signature of Shipper or Source Owner		<u>3-16-16</u> Date			
<u>[Signature]</u> Chase approval signature		<u>3-16-14</u> Date		<u>[Signature]</u> Alaron approval signature		<u> </u> Date	

**GENERATOR AUTHORIZATION**DATE: 3-16-14NAME OF ORIGINAL GENERATOR: National Diagnostic Services, Inc.

Authorizes

NAME OF BROKER/PROCESSOR: Alaron Corporation

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 GENERATOR
REPRESENTATIVE:Jennifer McEvers

(PRINT NAME)

TITLE:

Operations & Recruiting

(PRINT TITLE)

MAILING ADDRESS:

39595 W. Ten Mile RdSuite 102Novi, MI 48375

SIGNATURE:

Jennifer McEvers



Scaled Source Leak Test

Licensee: National Diagnostic Services, LLCDate: 02/05/16Performed by: James Botti

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial #2	220.9 uCi	09/01/07	Envision	RV-137-200U	1218-91-17
Current Activity: 181.7 uCi						
Cs-137	Vial #3	250 uCi	04/01/81	Envision	CDC.VI	3121MA
Current Activity: 111.7 uCi						
Cs-137	Vial #4	202 uCi	09/01/88	Envision	NES-358	S35600915
Current Activity: 107.1 uCi						
Cs-137	Vial #5	192 uCi	03/23/84	Envision	NES-358	S3560384A33
Current Activity: 91.88 uCi						
Cs-137	Vial #6	173 uCi	01/27/86	Envision	Syncor	212003
Current Activity: 86.4 uCi						
Ba-133	Vial	276 uCi	10/13/87	Envision	NES-358	S358002-36
Current Activity: 42.69 uCi						

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed.

Well Counter: Captus 3000

Nuclide	MDA	Background
Cs-137	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	53 counts/1 min

RADIATION SAFETY OFFICER: _____

**Sealed Source Inventory**Licensee: National Diagnostic Services, LLCDate: 02/10/16Performed by: James Botti

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Vial #2	220.9 uCi	09/01/07	Envision	RV-137-200U	1218-91-17
		Current Activity: 181.7 uCi	Returned to Manufacturer			
Cs-137	Vial #3	250 uCi	04/01/81	Envision	CDC.VI	3121MA
		Current Activity: 111.7 uCi	Returned to Manufacturer			
Cs-137	Vial #4	202 uCi	09/01/88	Envision	NES-356	S35600915
		Current Activity: 107.1 uCi	Returned to Manufacturer			
Cs-137	Vial #5	192 uCi	03/23/84	Envision	NES-356	S3560384A33
		Current Activity: 91.88 uCi	Returned to Manufacturer			
Cs-137	Vial #6	173 uCi	01/27/86	Envision	Syncoor	212003
		Current Activity: 86.4 uCi	Returned to Manufacturer			
Ba-133	Vial	276 uCi	10/13/87	Envision	NES-358	S358002-36
		Current Activity: 42.69 uCi	Returned to Manufacturer			

SEALED SOURCE AMBIENT EXPOSURE SURVEY

Meter:

Max Reading

RADIATION SAFETY OFFICER: _____

NATIONAL DIAGNOSTIC SERVICES

39595 W. Ten Mile Road, Suite 102

Novi, MI 48375

Phone: (248)476-6980 Fax: (248)476-7462

Fax

To: Tammy Tomczak From: Jennifer McEvers
Fax: 630.515.1078 Date: 3.30.16
Phone: _____ Pages: 11 - including cover
Re: National Diagnostic Services NRC License Termination

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Tammy: Please see enclosed for
NRC License Termination Information. Please
let us know if anything further is needed
at this time.

Many Thanks!

Jennifer McEvers

248. 476. 6980 x590

jmcEvers@ndswellness.com

This facsimile may contain "Protected Health Information" (PHI) or other information which is a) Protected from disclosure by the Health Insurance Portability and Accountability Act (HIPPA), b) Legally privileged, proprietary in nature, confidential, and otherwise protected by law from disclosure, except as designated by the patient and /or legal representative(s); c) Intended for the use of the addressee, or the personnel responsible for delivering this to the addressee(s). You are hereby notified that reading, copying, or distributing this facsimile to unauthorized parties is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone at the above number, and return the original message to us at the above listed address via the U.S. Postal Service.

Close-out Survey

Date performed: August 25, 2015

Performed by: Ernie Bidwell, CNMT

Comments: Sealed sources and radioactive trash were removed from these areas prior to survey and wipe testing.

Instruments

Wipe tests analyzed with a Caprac Well Counter #001409

Instrument: Well Counter

Radionuclide:	<u>Cs-137</u>	MDA for Cs-137	<u>128m's</u>
Date completed:	<u>12/21/12</u>	Conversion factor:	<u>3.83 dpm/dpm</u>

Area survey performed with the following survey meter:

Manufacturer:	<u>Ludlum</u>
Type:	<u>GM</u>
Model Number:	<u>14C</u>
Serial Number:	<u>189207</u>
Probe Model:	<u>End Window</u>
Calibration Date:	<u>01/08/15</u>

Radionuclides Used

Unsealed

Tc99m

Sealed

Co-57, Cs-137, Ba-133

Last date of byproduct radiopharmaceutical use:

August 17, 2015

Visual Check: The area was checked to ensure that all sealed sources and radioactive waste had been removed. No evidence of radioactive material was noted.

Sealed Source Leak Testing: Sealed Source Leak tests demonstrated no removable contamination.

Leaking Sources: There is no history of leaking sources at this facility.

Radiation Level Survey: No area within the department demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

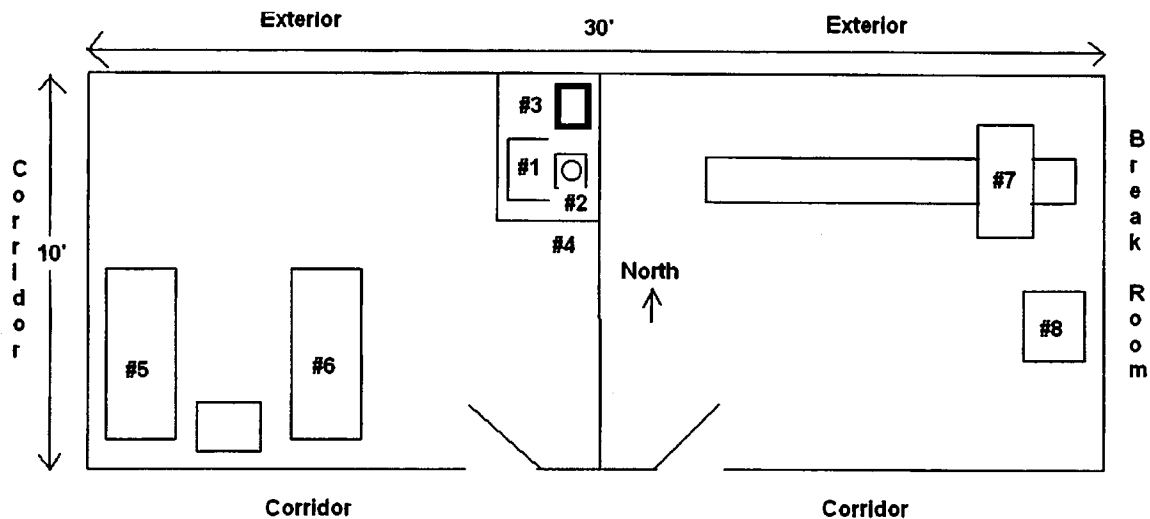
Removable Contamination: No area within the department demonstrated removable contamination excess of 12 dpm.

Background: 112 cpm

Area	Result in dpms
#1 Dose Prep	82
#2 Dose Calibrator	82
#3 Waste Storage	82
#4 Package Reciept	82
#5 Patient Prep	82
#6 Treadmill	82
#7 Camera / Floor	82
#8 Processing /Floor	82
#9 Trash	82
#10 Door Knobs, Phones, ect.	82

Maximum removable contamination = 82 dpm

Conclusion: No radioactive materials remain in this area. No removable contamination is present.



- #1. Dose prep area
- #2. Dose Calibrator
- #3. Shielded Waste Storage
- #4. Package Receipt
- #5. Patient Prep Area
- #6. Treadmill

- #7. Gamma Camera
- #8. Camera Acquisition and Processing

**National Diagnostics Trailer
39595 West Ten Mile Road, Suite 102, Novi, MI Base location.
Close-out Survey**

Date performed: June 26, 2014

Performed by: Matt Byrd, CNMT

Comments: Sealed sources and radioactive trash were removed from these areas prior to survey and wipe testing.

Instruments

Wipe tests analyzed with a CapRac Well Counter #001506

Radionuclide:	<u>Cs-137</u>	MDA for Cs-137	<u>156 dpm's</u>
Date completed:	<u>06/16/13</u>	Conversion factor:	<u>3.91 dpm/dpm</u>

Area survey performed with the following survey meter:

Manufacturer:	<u>Ludlum</u>
Type:	<u>GM</u>
Model Number:	<u>14C</u>
Serial Number:	<u>204725</u>
Probe Model:	<u>Side Window</u>
Annual Calibration Due:	<u>10/05/13/</u>

Battery check acceptable:	<u>YES</u>
Operational check acceptable:	<u>YES</u>
Constancy check acceptable:	<u>YES</u>
Current reading:	<u>1.2 mR/hr</u>

Unsealed

Tc99m

Sealed

Co-57, Cs-137, Ba-133

Last date of byproduct radiopharmaceutical use:

June 7, 2014

Visual Check: The area was checked to ensure that all sealed sources and radioactive waste had been removed. No evidence of radioactive material was noted.

Sealed Source Leak Testing: Sealed Source Leak tests demonstrated no removable contamination.

Leaking Sources: There is no history of leaking sources at this facility.

Radiation Level Survey: No area within the department demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Removable Contamination: No area within the trailer demonstrated removable contamination excess of 0 dpm's.

Background: 265 cpm

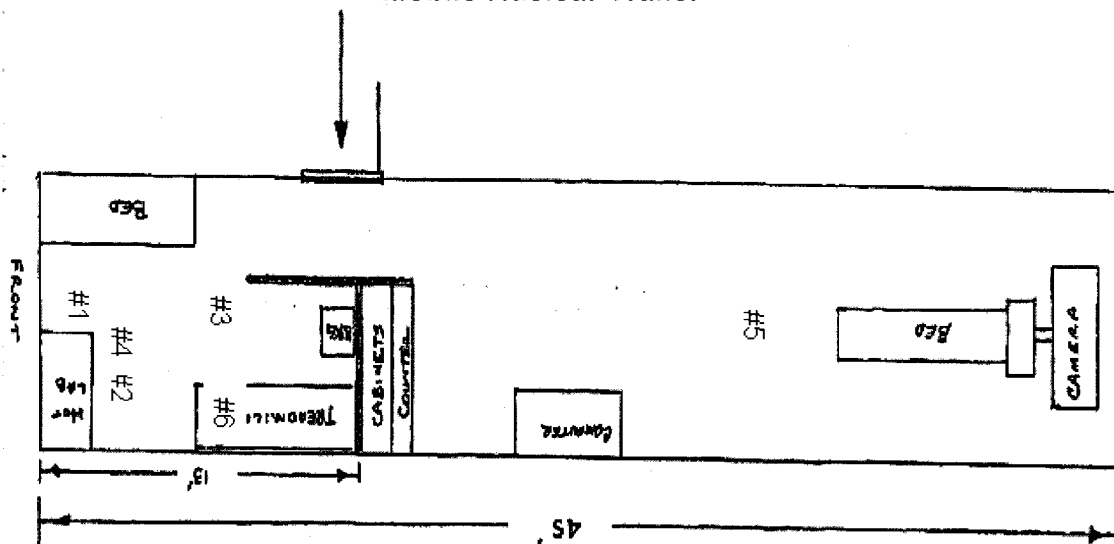
Area	Result in dpms
#1 Dose Prep	0
#2 Waste Storage	0
#3 Hot lab Floor	0
#4 Package Receipt	0
#5 Camera / Floor	0
#6 Treadmill /Floor	0
#7 Trash	0
#8 Door Knobs, Phones, ect.	0

Maximum removable contamination = 0 dpm

Conclusion: No radioactive materials remain in this area. No removable contamination is present.

39595 West Ten Mile Road, Suite 102, Novi, MI Base location.

**National Diagnostic Services
Mobile Nuclear Trailer**



1. Dose Prep
2. Waste Storage
3. Hot Lab Floor
4. Package Receipt / Floor
5. Camera / Floor
6. Treadmill/ Floor

ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)	National Diagnostic Services				
Radioactive Materials License Number	21-32432-01	Issued By?	NRC		
Address (Line 1)	39595 W. Ten Mile Rd., Suite 102				
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		

Source Manufacturer	ISOTOPE PRODUCTS LABORATORIES		
Source Dimensions (Attach drawing or picture if possible)	ROUND SOURCE - DIAMETER 48 cm	Approximate Weight (if known)	
Model	PF 18 C - 057 - 10		
Serial Number	1255-137		
Is Source Mounted In or On Equipment?	NO		
Is Removal Required?			
Is Source Damaged?	No		
Isotope	Co 57		
Activity (Original)	10 mCi		
Original Assay Date	11/01/07		
Date of Last Leak Test (Copy <u>MUST</u> accompany this form)	12/12/14		
Is Source "Special Form"?		Certification Number (if known)	

Please use one form for each source for which you are sending information. This form can either be emailed to: (jimp@adcoservices.com) or (wayne.adco@hotmail.com) or faxed to ADCO Services at (708-429-9759) to either Jim or Wayne. If you need assistance please call: (708) 429-1660.

Please fill in all areas of this form, without this information we may not be able to issue a quote for disposal.

Adco Services, Inc. cannot guarantee the acceptance of the described source for disposal.

FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)		National Diagnostic Services			
Radioactive Materials License Number		21-32432-01		Issued By?	NRC
Address (Line 1)		39595 W. Ten Mile Rd., Suite 102			
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		
Source Manufacturer		ISOTOPE PRODUCTS CARBONATOMES			
Source Dimensions (Attach drawing or picture if possible)		ROUND SOURCE - DIAMETER 48cm		Approximate Weight (if known)	
Model		PF 18C-057-10			
Serial Number		1154-092			
Is Source Mounted In or On Equipment?		NO			
Is Removal Required?					
Is Source Damaged?		NO			
Isotope		10mCi			
Activity (Original)		To 57			
Original Assay Date		03/01/06			
Date of Last Leak Test (Copy <u>MUST</u> accompany this form)		12/12/14			
Is Source "Special Form"?				Certification Number (if known)	

Please use one form for each source for which you are sending information. This form can either be emailed to: (jimp@adcoservices.com) or (wayne.adco@hotmail.com) or faxed to ADCO Services at (708-429-9759) to either Jim or Wayne. If you need assistance please call: (708) 429-1660.

Please fill in all areas of this form, without this information we may not be able to issue a quote for disposal.

Adco Services, Inc. cannot guarantee the acceptance of the described source for disposal.

FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)		National Diagnostic Services			
Radioactive Materials License Number		21-32432-01		Issued By?	NAC
Address (Line 1)		39595 W. Ten Mile Rd., Suite 102			
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		
Source Manufacturer		ISOTOPE PRODUCTS LABORATORIES			
Source Dimensions (Attach drawing or picture if possible)		ROUND SOURCE DIAMETER 48 cm		Approximate Weight (if known)	
Model		PF 18C-057-10			
Serial Number		1227-073			
Is Source Mounted In or On Equipment?		NO			
Is Removal Required?					
Is Source Damaged?		NO			
Isotope		Co 57			
Activity (Original)		10 mCi			
Original Assay Date		01/01/07			
Date of Last Leak Test (Copy MUST accompany this form)		12/12/14			
Is Source "Special Form"?				Certification Number (if known)	

Please use one form for each source for which you are sending information. This form can either be emailed to: (jimp@adcosservices.com) or (wayne.adco@hotmail.com) or faxed to ADCO Services at (708-429-9759) to either Jim or Wayne. If you need assistance please call: (708) 429-1660.

Please fill in all areas of this form, without this information we may not be able to issue a quote for disposal.

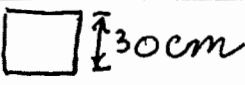
Adco Services, Inc. cannot guarantee the acceptance of the described source for disposal.

FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)		National Diagnostic Services			
Radioactive Materials License Number		21-32432-01		Issued By?	NRC
Address (Line 1)		39595 W. Ten Mile Rd., Suite 102			
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		
Source Manufacturer		ECKERT & ZIEGLER			
Source Dimensions (Attach drawing or picture if possible)		 30cm SQUARE		Approximate Weight (if known)	
Model		MED 3722			
Serial Number		1434-091			
Is Source Mounted In or On Equipment?		NO			
Is Removal Required?					
Is Source Damaged?		NO			
Isotope		Cs 57			
Activity (Original)		10 mCi			
Original Assay Date		05/01/10			
Date of Last Leak Test (Copy MUST accompany this form)		12/12/14			
Is Source "Special Form"?				Certification Number (if known)	

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FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)		National Diagnostic Services			
Radioactive Materials License Number		21-32432-01		Issued By?	NRC
Address (Line 1)		39595 W. Ten Mile Rd., Suite 102			
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		
Source Manufacturer		AMERSEAM			
Source Dimensions (Attach drawing or picture if possible)		VIAL - HEIGHT 2in		Approximate Weight (if known)	
Model		CDC.VI			
Serial Number		3121 MA			
Is Source Mounted In or On Equipment?		NO			
Is Removal Required?					
Is Source Damaged?		NO			
Isotope		Cs 137			
Activity (Original)		250 µCi			
Original Assay Date		04/01/1981			
Date of Last Leak Test (Copy <u>MUST</u> accompany this form)		12/12/14			
Is Source "Special Form"?				Certification Number (if known)	

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FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)		National Diagnostic Services			
Radioactive Materials License Number		21-32432-01		Issued By?	NRC
Address (Line 1)		39595 W. Ten Mile Rd., Suite 102			
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		
Source Manufacturer		DUPONT			
Source Dimensions (Attach drawing or picture if possible)		VIAL - HEIGHT 2cm		Approximate Weight (if known)	
Model		NES 356			
Serial Number		S 35600915			
Is Source Mounted In or On Equipment?		NO			
Is Removal Required?					
Is Source Damaged?		No			
Isotope		Cs 137			
Activity (Original)		202 μ Ci			
Original Assay Date		09/01/1988			
Date of Last Leak Test (Copy <u>MUST</u> accompany this form)		12/12/14			
Is Source "Special Form"?				Certification Number (if known)	

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FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)		National Diagnostic Services			
Radioactive Materials License Number		21-32432-01		Issued By?	NRC
Address (Line 1)		39595 W. Ten Mile Rd., Suite 102			
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		
Source Manufacturer		NEW ENGLAND NUCLEAR			
Source Dimensions (Attach drawing or picture if possible)		VIAL - HEIGHT 2 in		Approximate Weight (if known)	
Model		NES 356			
Serial Number		S35600915			
Is Source Mounted In or On Equipment?		NO			
Is Removal Required?					
Is Source Damaged?		No			
Isotope		Cs 137			
Activity (Original)		192 uCi			
Original Assay Date		03/23/84			
Date of Last Leak Test (Copy <u>MUST</u> accompany this form)		12/12/14			
Is Source "Special Form"?				Certification Number (if known)	

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FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)		National Diagnostic Services			
Radioactive Materials License Number		21-32432-01		Issued By?	NRC
Address (Line 1)		39595 W. Ten Mile Rd., Suite 102			
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		
Source Manufacturer		DUPONT			
Source Dimensions (Attach drawing or picture if possible)		VIAL - HEIGHT 2 in		Approximate Weight (if known)	
Model		NES-358			
Serial Number		S 358 002-36			
Is Source Mounted In or On Equipment?		NO			
Is Removal Required?					
Is Source Damaged?		No			
Isotope		Po-210			
Activity (Original)		276 uCi			
Original Assay Date		10/13/1987			
Date of Last Leak Test (Copy <u>MUST</u> accompany this form)		12/12/14			
Is Source "Special Form"?				Certification Number (if known)	

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Please fill in all areas of this form, without this information we may not be able to issue a quote for disposal.

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FOR ADCO USE ONLY

Approval #		By		Date	
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ADCO SERVICES, INC. RADIOACTIVE SOURCE DISPOSAL INFORMATION FORM

HTTP://ADCOSERVICES.COM

Generator Name (Facility)	National Diagnostic Services				
Radioactive Materials License Number	21-32432-01	Issued By?	NRC		
Address (Line 1)	39595 W. Ten Mile Rd., Suite 102				
Address (Line 2)					
City	Novi	State	MI	Zip Code	48304
Contact Name	Andy Farah	Email	afarah@ndsexam.com		
Telephone	248-765-3996	Fax	248-476-7462		

Source Manufacturer	SYNCON		
Source Dimensions (Attach drawing or picture if possible)	NOIS - HEIGHT 8 in	Approximate Weight (if known)	
Model	SYNCON		
Serial Number	212003		
Is Source Mounted In or On Equipment?	NO		
Is Removal Required?			
Is Source Damaged?	NO		
Isotope	Cs 137		
Activity (Original)	173 uCi		
Original Assay Date	01/27/1986		
Date of Last Leak Test (Copy <u>MUST</u> accompany this form)	12/12/14		
Is Source "Special Form"?		Certification Number (if known)	

Please use one form for each source for which you are sending information. This form can either be emailed to: (jimp@adcosservices.com) or (wayne.adco@hotmail.com) or faxed to ADCO Services at (708-429-9759) to either Jim or Wayne. If you need assistance please call: (708) 429-1660.

Please fill in all areas of this form, without this information we may not be able to issue a quote for disposal.

Adco Services, Inc. cannot guarantee the acceptance of the described source for disposal.

FOR ADCO USE ONLY

Approval #		By		Date	
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Sealed Source Leak Test

Licensee: National Diagnostic Services, LLC

Date: 12/12/14

Performed by: James Botti




Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Vial #2	220.9 uCi	09/01/07	Envision	RV-137-200U	1218-91-17
Current Activity: 186.7 uCi						
Cs-137	Vial #3	250 uCi	04/01/81	Envision	CDC.VI	3121MA
Current Activity: 114.7 uCi						
Cs-137	Vial #4	202 uCi	09/01/88	Envision	NES-356	S35600915
Current Activity: 110.0 uCi						
Cs-137	Vial #5	192 uCi	03/23/84	Envision	NES-356	S3560384A33
Current Activity: 94.38 uCi						
Cs-137	Vial #6	173 uCi	01/27/86	Envision	Syncor	212003
Current Activity: 88.75 uCi						
Ba-133	Vial	276 uCi	10/13/87	Envision	NES-358	S358002-36
Current Activity: 46.1 uCi						
Co-57	Flood	10 mCi	05/01/10	National Diag	MED-3722	1434-091
Current Activity: 0.134 mCi						
Co-57	Flood	10 mCi	03/01/06	National Diag	PF18C-057-10	1154-092
Current Activity: 0.003 mCi						
Co-57	Flood	10 mCi	11/01/07	National Diag	PF18C-057-10	1255-137
Current Activity: 0.013 mCi						
Co-57	Flood	10 mCi	01/01/07	National Diag	PF18C-057-10	1227-073
Current Activity: 0.006 mCi						

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed.

Well Counter: Captus 3000

Nuclide	MDA	Background
Cs-137	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	53 counts/1 min

RADIATION SAFETY OFFICER: _____

FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		ADCO SERVICES, INC. NATIONAL DIAGNOSTIC SERVICES FOR THE ACCT OF ADCO SERVICES 38896 W. TEN MILE ROAD, STE 10 NOVI, MI 48204		SHIPPER ID NUMBER 62179 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> 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) 1 PAGE(S) None PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 15-0034 L	
1. EMERGENCY TELEPHONE NUMBER 248-765-3996 (Include Area Code)		TJL003-L15		SHIPMENT NUMBER 15-0034 L		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) TELEPHONE NUMBER (Include Area Code) 248-765-3996		9. CONSIGNEE - Name and Facility ENERGY SOLUTIONS BEAR CREEK OPERATIONS 1680 BEAR CREEK ROAD OAK RIDGE, TN 37830 SIGNATURE - Authorized representative (for manifest and 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 1		6. CARRIER - Name and Address Adcom Express, Inc. 17850 Duran Drive Tinley Park, IL 60477		EPA I.D. NUMBER ILD 047267384 SHIPPING DATE 09/29/2015		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.	
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number _____ <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		EPA MANIFEST NUMBER		CONTACT JAMES BELL SIGNATURE - Authorized person acknowledging waste receipt 		TELEPHONE (Include Area Code) 708-428-3012 Ext:16 DATE 6/23/15		AUTHORIZED SIGNATURE 	
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	
UN 2910, Radioactive material, excepted package-limited quantity of material, 7		NA		NA		SOLID INCINERABLE DRY WASTE		Co-57	
TOTAL PACKAGE ACTIVITY MBq		16. TOTAL WEIGHT OR VOLUME (Use appropriate units)		17. LBA/SCO CLASS		18. IDENTIFICATION NUMBER OF PACKAGE		19. 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.	
3.6286E+00		25 LBS; 4 FT3		NA		15-0034-01		09/29/2015	
FOR CONSIGNEE USE ONLY		20. Check appropriate items: Customer represents and warrants that all data set forth in this Uniform Low-Level Radioactive Manifest is true and correct in all respects. 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. 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.							

Taylor, Tiresha

From: Parker, Bryan
Sent: Wednesday, May 25, 2016 10:22 AM
To: Taylor, Tiresha
Subject: FW: RE: RE: Termination request for Lic #21-32432-01
Attachments: NDS-ADCO Radioactive Source Disposal.pdf; Hazardous Waste Haulers Disposal Receipt.xps

Hey Tiresha,

Could you please take the attached 2 documents and ADD them into ML16090A134?? They are attachments that were missing from the original.

Let me know if there are questions.

Thanks.
Bryan

From: Jennifer McEvers [mailto:JMcEvers@ndswellness.com]
Sent: Wednesday, May 25, 2016 10:35 AM
To: Parker, Bryan <Bryan.Parker@nrc.gov>; Jim Botti <jbotti@mpcphysics.com>
Subject: [External_Sender] RE: RE: Termination request for Lic #21-32432-01

Hi Bryan,

Hope all is well. The attached information I found in the company files dating back to 2015. Does this help?

Thank you for your time,

Jen

Jennifer McEvers
National Diagnostic Services
39595 W. Ten Mile Rd, Suite 102
Novi, MI, 48375
T 248.476.6980 x590
F 248.476.7462
Email: jmcevers@ndswellness.com
www.ndswellness.com



From: Parker, Bryan [<mailto:Bryan.Parker@nrc.gov>]
Sent: Wednesday, May 18, 2016 4:07 PM
To: Jennifer McEvers; Jim Botti
Subject: RE: RE: Termination request for Lic #21-32432-01

Thank you. I believe I have what I need now to proceed with the termination.

Bryan

Bryan A. Parker
Health Physicist
USNRC Region III
bryan.parker@nrc.gov
678-828-7050
630-515-1078 (fax)



From: Jennifer McEvers [<mailto:JMcEvers@ndswellness.com>]
Sent: Monday, May 16, 2016 11:11 AM
To: Jim Botti <jbotti@mpcphysics.com>; Parker, Bryan <Bryan.Parker@nrc.gov>
Subject: [External_Sender] RE: Termination request for Lic #21-32432-01

Hi Bryan,

Hope all is well. Looks like pages 3-6 were missing from the attached word document (Jim also sent a moment ago). Regarding the confirmation of receipt from the waste facility, we have the stamp from Alaron that it was received on 3-17-16 that is on page 1 of the attached PDF (also sent by Jim a moment ago).

Please let us know if any further information is needed at this time.

Thank you for your time,

Jen

Jennifer McEvers
National Diagnostic Services
39595 W. Ten Mile Rd, Suite 102
Novi, MI, 48375
T 248.476.6980 x590
F 248.476.7462
Email: jmcevers@ndswellness.com
www.ndswellness.com



From: Jim Botti [<mailto:jbotti@mpcphysics.com>]
Sent: Monday, May 16, 2016 10:23 AM
To: Parker, Bryan
Cc: Jennifer McEvers
Subject: RE: Termination request for Lic #21-32432-01

From: Parker, Bryan [<mailto:Bryan.Parker@nrc.gov>]
Sent: Thursday, May 12, 2016 4:03 PM
To: jbotti@mpcphysics.com
Subject: Termination request for Lic #21-32432-01

Hey Jim,

I'm working on the termination request for National Diagnostic Service Inc, NRC Lic. No. 21-32432-01 (Control No. 590514), and need some additional info:

- 1) Other than the waste manifest (attached to termination request) - did the licensee receive anything from the waste broker (Alaron Corp) and/or the disposal facility confirming receipt of the waste shipment in Texas?? If so, could you **provide a copy** of that to me for the record??
- 2) The letter dated 03/30/16 indicates closeout surveys, etc along with diagrams are attached, **but they are not**. Please submit that info as well.

If you have any questions, please let me know.

Thanks.
Bryan

Bryan A. Parker
Health Physicist
USNRC Region III
bryan.parker@nrc.gov
678-828-7050
630-515-1078 (fax)

