



January 30th, 2023

U.S. Nuclear Regulatory Commission
Region III
Radiation Protection Section
2443 Warrenville RD., Suite 210
Lisle, IL 60532-4352

Re: Digirad Imaging Solutions, Inc. RML number 10-29283-02

Dear Radiation Licensing Regulator:

We, Digirad Imaging Solutions, Inc., wish to amend our NRC Radioactive Material License number, 10-29283-02 to conduct the following:

- **Remove** a facility location under Condition 10.A at 5365 W. Minnesota St., Indianapolis, Indiana, 46241

The last date of service from this location was January 13th, 2023. All unsealed radioactive material, consisting of unit doses of Tc-99m, have been removed and returned to the pharmacy. The sealed sources at this location were removed for temporary storage at the Digirad hub location at 8150 W. 185th St, Suite L, Tinley Park, IL, as listed on the IL License IL-02163-01, until being returned for disposal to the manufacturer. All radioactive waste has been removed and decayed to background before being disposed of. There is no longer any radioactive material remaining at this location. Please find attached the following:

- Decommissioning survey results
- Meter calibration certificate for the meter used in the decommissioning survey
- Most recent sealed source leak tests
 - Sources 2235-175 and 2133-082 were removed from service to be returned in June – however, the former tech at this location did not mail them back, and the temp who took over at this site did not have them leak tested again in September, as they were in storage, while management believed them to be returned to the manufacturer. Upon decommissioning, it was discovered that this was not the case, and the sources were transferred to our Tinley Park location where they will be leak tested again prior to returning them to the manufacturer. As such, the last leak tests attached are from March 2022.
- Sealed source transfer form

We would like to expedite this request. If you have questions, please feel free to contact me at 713-376-1892, or stephanie.blanton@digirad.com.

Thank you,

Stephanie Blanton
Corporate Radiation Safety Officer
Digirad Imaging Solutions, Inc.

RECEIVED FEB 02 2023

Data Entry Worksheet for Decommissioning

Site **Indianapolis Hub**

Licensee Digirad Imaging Solutions
1048 Industrial Court, Suite E
Suwanee, GA 30024

Survey Probe **Ludlum: 44-9** Serial Number: 184630

Survey Meter **Ludlum: 14C** Serial Number: 180589

Wipe Test probe **Ludlum: 44-3** Serial Number: 204107

Survey Meter QC **Battery = good**

44-9 Check Source reading: 1.1 mR/hr

44-3 Check Source reading: 20k cpm

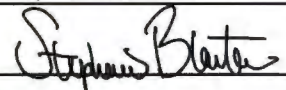
Background reading: 210 cpm

Performed by: (technologist) **Greg Young**

Performed on: (date) **1/18/2023**

Counted on: (date) **1/18/2023**

Reviewed: Stephanie Blanton, RSO 1/18/23

Signature: 

Wipe Number	Location (Building, Floor, Room)	Wipe (cpm)	Wipe - BKG (cpm)	Wipe (dpm)	Survey Meter mR/hr
BKG		210			
1	Hot Lab Outside Door Handle	220	10	138.9	0.02
2	Hot Lab Inside Door Handle	220	10	138.9	0.03
3	Hot Lab Floor, Waste storage area	215	5	69.4	0.03
4	Hot Lab Floor, Co57 Source storage area	220	10	138.9	0.02
5	Hot Lab Floor for Dose delivery area	225	15	208.3	0.02
6	Hot Lab Counter Area 1	215	5	69.4	0.03
7	Hot Lab Counter Area 2	215	5	69.4	0.02
8	Hot Lab Counter Area 3	215	5	69.4	0.02
9	Hot Lab Counter Area 4	215	5	69.4	0.02
10	Hot Lab Floor Area	220	10	138.9	0.03
11	Hot Lab Floor Area	220	10	138.9	0.03
12	Hot Lab Floor Area	220	10	138.9	0.03
13	Hot Lab Floor Area	220	10	138.9	0.03
14	Hot Lab Floor Area	220	10	138.9	0.03



Cardinal Health Medical & Health Physics
 5840 F Street
 Omaha, Nebraska 68117
 Tel 402.734.8045
 Outside 800.553.4767
 Fax 402.553.3033

CERTIFICATE OF CALIBRATION


LICENSEE: Digirad Imaging Solutions; Indianapolis, IN

DATE: 9/21/2022

	INSTRUMENT	PROBE
Manufacturer:	Ludlum	Ludlum
Type:	Survey	G.M / NaI
Model:	14C	44-9 / 44-3
Serial No.:	180589	PR 184630 / PR 204107

Scale	Reference	As Found Value	Final Value	CORFAC (>10% <20%)
x 0.1	0.05	0.05	0.05	N/A
x 0.1	0.15	0.15	0.15	N/A
x 1	0.5	0.5	0.5	N/A
x 1	1.5	1.5	1.5	N/A
x 10	5	5	5	N/A
x 10	15	15	15	N/A
x 100	50	55	55	N/A
x 100	150	145	145	N/A
x 1000	500	500	500	N/A
x 1000	1500	1500	1500	N/A

REMARKS: x0.1 scale calibrated electronically with Ludium 500 Pulser #50796 (calibrated 1/23/22)

- 1) Calibration Geometry: 
- 2) Probe Window: **N/A**
- 3) Cs-137 Calibration Source **159.3 mCi** on **9/21/2022**
- 4) Readings in **mR/hr & cpm.**
- 5) A long lived check source (i.e. ¹³⁷Cs) should be available. This should be read immediately after receipt and again before each use. If any reading is greater than +/-20 percent, return for calibration. **Your check source (Cs137 SN 1311) reads: 1.1 mR/hr on x1 on contact with the cap off for 44-9, 20,000 cpm on x10 contact with the cap off for 44-3.**
- 6) Multiply ^{99m}Tc readings by: 1.0 for 44-9. This was derived using ^{99m}Tc and a relative intercomparison between your instrument and an energy independent instrument (MDH).
- 7) Each point is considered calibrated if the indicated exposure rate differs from the calculated exposure rate by not more than +/-10 percent. A correction factor is provided if the calibration point is greater than +/-10 percent but less than +/-20 percent. Instruments greater than +/-20 percent will be repaired or returned.
- 8) Next Calibration Due: **9/21/2023**

Calibrated by: Upendra Adhikari
 FOR: CARDINAL HEALTH 414, LLC, MEDICAL & HEALTH PHYSICS
 State of Nebraska Registry Number: 050

R.S.O.: _____



Cardinal Health Medical & Health Physics
5840 F Street
Omaha, Nebraska 68117
Tel 402.734.8045
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Plateau

HV	CPM
500	10
550	80
600	560
650	29,330
700	36,940
750	35,930
800	37,870
850	38,690
900	41,090
950	44,350
1000	57,020
1050	97,830
1100	160,030

As left plateau HV = 900 V

Efficiency

Isotope	Co-57
Serial number	2136-92-4
Activity, current, dpm	76,157.11
Counts/Minute	5,484.66
Efficiency @ contact	7.20%



Cardinal Health
 Medical & Health Physics Services
 5840 F Street
 Omaha, NE 68117
 402.734.8045 ext 6 tel
 402.553.3033 fax

CERTIFICATE OF LEAK TEST

DATE: 9/19/2022

LICENSEE: Digirad Indianapolis Hub, Indianapolis, IN

COUNTING INSTRUMENT: Cobra II Auto Gamma MCA

	SOURCE :	TYPE	SERIAL NO	MODEL NO	ORIGINAL ACTIVITY	CALIBRATION DATE	CURRENT ACTIVITY	RESULTS
1	Co-57	Flood	2249-029		10.00 mCi	8/1/2021	3.48 mCi	<0.005 μ Ci

COMMENT: Leak tests sample taken by Stephen McNichol. Next leak testing is due March 2023.

REMARKS: The samples taken from each sealed source contained less than 0.005 microcuries of radioactive material. Each source meets the regulatory requirement for leak testing and scheduled testing.

PERFORMED BY:

For: Cardinal Health 414, LLC, Medical & Health Physics
 State of Nebraska Registry Number: 50

R.S.O.

Stephen Blanton



Cardinal Health
 Medical & Health Physics Services
 5840 F Street
 Omaha, NE 68117
 402.734.8045 ext 6 tel
 402.553.3033 fax

CERTIFICATE OF LEAK TEST

DATE: 10/26/2022

LICENSEE: Digirad Imaging Solutions Inc; Indianapolis IN

COUNTING INSTRUMENT: Cobra II Auto Gamma MCA

SOURCE	TYPE	SERIAL NO	MODEL NO	ORIGINAL ACTIVITY	CALIBRATION DATE	CURRENT ACTIVITY	RESULTS
1 Cs-137	Vial	S356041-078	NES356	213.00 μCi	10/11/1999	125.42 μCi	<0.005 μCi
2 Cs-137	Vial	9672	MED3550	217.10 μCi	6/1/2001	132.74 μCi	<0.005 μCi
3 Cs-137	Vial	65920	MED3550	219.30 μCi	7/1/2005	147.28 μCi	<0.005 μCi
4 TI-201	Phantom	2097		7570 μCi	10/27/2020	4.40E-69 μCi	<0.005 μCi

COMMENT: Next leak testing is due April 2023.

REMARKS: The samples taken from each sealed source contained less than 0.005 microcuries of radioactive material. Each source meets the regulatory requirement for leak testing and scheduled testing.

PERFORMED BY:

Traci M Jorgensen

For: Cardinal Health 414, LLC, Medical & Health Physics
 State of Nebraska Registry Number: 50

R.S.O.

Stephen Blantz



Cardinal Health
 Medical & Health Physics Services
 5840 F Street
 Omaha, NE 68117
 402.734.8045 ext 6 tel
 402.553.3033 fax

CERTIFICATE OF LEAK TEST

DATE: 3/1/2022

LICENSEE: Digirad Imaging Solutions Inc; Indianapolis IN

COUNTING INSTRUMENT: Cobra II Auto Gamma MCA

	SOURCE :	TYPE	SERIAL NO	MODEL NO	ORIGINAL ACTIVITY	CALIBRATION DATE	CURRENT ACTIVITY	RESULTS
1	Cs-137	Vial	S356041-078	NES356	213.00 μ Ci	10/11/1999	127.32 μ Ci	<0.005 μ Ci
2	Cs-137	Vial	9672	MED3550	217.10 μ Ci	6/1/2001	134.76 μ Ci	<0.005 μ Ci
3	Cs-137	Vial	65920	MED3550	219.30 μ Ci	7/1/2005	149.51 μ Ci	<0.005 μ Ci
4	Co-57	Flood	2249-029	MED374410M	10.00 mCi	7/29/2021	5.78 mCi	<0.005 μ Ci
5	Co-57	Flood	2133-082	MED374410M	10.00 mCi	11/1/2018	0.45 mCi	<0.005 μ Ci

COMMENT:

REMARKS: The samples taken from each sealed source contained less than 0.005 microcuries of radioactive material. Each source meets the regulatory requirement for leak testing and scheduled testing.

PERFORMED BY:

Traci M Jorgensen
 For: Cardinal Health 414, LLC, Medical & Health Physics
 State of Nebraska Registry Number: 50

R.S.O.

Stephen Blanton



Sealed Source Leak Test

HUB 2510 HOUSTON
1304 LANGHAM CREEK DR
HOUSTON, TX 77084-5042

Cardinal Health NPS HOUSTON
7859 ALMEDA RD
HOUSTON, TX 77054
713-748-3303

Test Date: 03/10/2022

Next Due Date: 09/08/2022

Make: Ludlum

Model: 2200

Serial #: 135409

Instrument Location: FDG Area

MDA in uCi: 0.0000

LLD in CPM: 60.78

Last Efficiency Date: 02/22/2022

Lab ID: 21

Efficiency: 90.48%

Radionuclide	Serial #	Source Type	Assay Date	Original Assay	Current Assay
Co-57	2076-56-4	Bioassay Rod Source	9/1/2020 3:00	1 uCi	0.24 uCi

Radionuclide	Model	Serial #	Activity at Cal	Cal Date	Current Activity	Count Time	Gross Counts	Bkg. Counts	Net Counts	Test Results	Leak Status
Co-57	MED3744	2167-093	10 mCi	08/01/2020	2.24 mCi	1	118	171	0	0.000E+00 uCi	<0.005 uCi
Co-57	MED3744	2168-164	10 mCi	09/01/2020	2.43 mCi	1	149	171	0	0.000E+00 uCi	<0.005 uCi
Co-57	MED3744	2224-186	10 mCi	05/01/2021	4.5 mCi	1	157	171	0	0.000E+00 uCi	<0.005 uCi
Co-57	MED3744	2235-175	10 mCi	07/01/2021	5.26 mCi	1	134	171	0	0.000E+00 uCi	<0.005 uCi
Co-57	MED3744	2236-068	10 mCi	08/01/2021	5.69 mCi	1	126	171	0	0.000E+00 uCi	<0.005 uCi

Performed By: Scott Murtle SJM

Comments:

Test Status: Pass

RSO Signature:  Date: 3/21/22



**STATE OF NEW HAMPSHIRE
DEPARTMENT OF HEALTH AND HUMAN SERVICES
RADIOLOGICAL HEALTH SECTION**

RADIOACTIVE MATERIAL RECIPROCITY APPLICATION

Radiological Health Section
Division of Public Health Services
NH Dept. of Health & Human Services
29 Hazen Drive, Concord, NH 03301
Phone No. (603) 271-4588
Fax No. (603) 225-2325

<i>This application must be received by the Agency at least 3 working days prior to engaging in an activity involving the use of radioactive material unless a waiver has been granted.</i>		This is a <input checked="" type="checkbox"/> New Application <input type="checkbox"/> Revision	
RECIPROCITY LICENSEE INFORMATION		WORK ACTIVITY LOCATION AND SCHEDULE	
Licensee Name Digirad Imaging Solutions, Inc.		Contact Person Shirlee Daly	Phone No. 603-577-3407
Mailing Address 1048 Industrial Court, Suite E Suwanee, GA 30024		Client Name Dartmouth Hitchcock Clinic	
Radioactive Materials License No. 44-0362		Work Location Address 2300 Southwood Dr	City/Town Nashua, NH 03063
Issuing Agency Massachusetts Department of Public Health		<i>Provide detailed description if remote location.</i>	
Contact Person Stephanie Blanton, RSO		Start Date 2/24/23	Start Time 7:30 am
Phone No. 713-376-1892	Fax No. 866-973-8503	End Date 2/24/23	End Time 4:30 pm
TYPE OF WORK TO BE PERFORMED		EQUIPMENT/DEVICE	
<input type="checkbox"/> Portable Gauge <input type="checkbox"/> Industrial Radiography <input type="checkbox"/> Lead Paint Analysis <input checked="" type="checkbox"/> Medical <input type="checkbox"/> Leak Testing/Calibrations <input type="checkbox"/> Source Exchange <input type="checkbox"/> Other (describe) Overnight Storage Needed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Make	Model
			Serial No.
PERSONNEL – Name of Person(s) Conducting Licensed Activities		SOURCES	
1. Lisa Donnelly, NMT	<i>Attach a separate page for additional personnel.</i>	Source Serial No.	Isotope
2. Dan Ridge, NMT		2292-180	Co-57
3.		2301-071	Co-57
4.		2280-100	Co-57
5.			
Additional Comments It is unclear at this time which sealed source will be taken to this location, so we have provided the serial numbers of the three sources that could be used. Only one source will be transported to this location.			
<i>I hereby certify that all information provided in this application is true and complete, I have read and understand the provisions under He-P 4030.18, and I understand that activities, including storage, conducted in New Hampshire under this general license are limited to 180 days during any calendar year.</i>			
SIGNATURE		DATE January 30th, 2023	
NAME Stephanie Blanton		TITLE Radiation Safety Officer	