

**From:** [Heirendt, Barbara M. \(CDC/NIOSH/OD/OAMS\)](#)  
**To:** [Jackson, Todd](#)  
**Subject:** [External\_Sender] RE: Request for Additional Information : License amendment request, MC 610223  
**Date:** Thursday, December 13, 2018 9:44:37 AM  
**Attachments:** [image004.png](#)  
[Mail Control No. 610223 Am241 disposal information 12\\_13\\_2018.pdf](#)

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To: Todd Jackson  
Mail Control No. 610223

Please see the attached information for the transfer of the Am-241 sources. Please let me know if these records are in an acceptable format.

Thank you.

Barbara Heirendt

**From:** Jackson, Todd <Todd.Jackson@nrc.gov>  
**Sent:** Monday, December 10, 2018 10:12 AM  
**To:** Heirendt, Barbara M. (CDC/NIOSH/OD/OAMS) <beh6@cdc.gov>  
**Subject:** Request for Additional Information : License amendment request, MC 610223

**Barbara Heirendt, EH&S Team Lead  
HHS/CDC/NIOSH Pittsburgh**

**RE: Mail Control 610223  
License No. 37-01712-11, Docket No. 03019474**

**Dear Ms. Heirendt:**

**Please provide the following additional information regarding your license amendment request:**

**You requested removal from your license of Items 6.C, Sealed Am-241 sources, and 6.D, Plated Am-241 foils. You also stated that these materials were disposed of by transfer to another entity authorized to receive those materials. Please provide copies of the records of those transfers (such as copies of NRC Form 314 or equivalent).**

**In your response, please refer to Mail Control No. 610223.**

**Thank you for your cooperation.**

**Todd**

**Todd J. Jackson, CHP**  
Senior Health Physicist  
Division of Nuclear Materials Safety  
USNRC Region I  
2100 Renaissance Blvd., Suite 100  
King of Prussia, PA 19406-2713

Destination Applied Health Physics, LLC  
 Address 2986 Industrial Blvd.  
 City Bethel Park State PA Zip Code 15102  
 Contact Anthony Hull Phone (412) 835-9555



Record# N-0915-1

Page 1 of 3

Date 09/18/15

2986 Industrial Blvd. Bethel Park, PA 15102 (412) 835-9555

Generator <u>C.D.C. / N.I.O.S.H.</u> Address <u>PO Box 18070</u> City <u>Pittsburgh</u> PA Zip Code <u>15238</u> Contact <u>Beth Tomesovic</u> Phone <u>412-386-6441</u> Shipment # <u>N-0915-1</u>	Total For Each Class		Reportable Qty If Applicable	Proper Shipping Name & Hazard Class (Per 49 CFR 172.101)	ID Number
	# OF Packages	Weight (Lbs.)			
	217	1100	217	Radioactive material, excepted package-limited quantity of material	7 UN2910
	21	110	21	Radioactive material, excepted package-instruments or articles	7 UN2911
				Radioactive material, Type A Package non- special form, non fissile or fissile-excepted	7 UN2915
				Radioactive material, Type A package, special form non fissile or fissile-excepted	7 UN3332

Carrier Applied Health Physics, LLC  
 Address 2986 Industrial Blvd.  
 City Bethel Park State PA Zip Code 15102  
 Contact Anthony Hull Phone 412-835-9555

For Emergency Contact: (412) 835-9555 or (412) 835-9541

### Radioactive Material Transfer Record and Receipt

Container Number	Container Type	Container Volume (Cubic Ft)	Container Weight (lbs.)	Physical Form	Description of Package	Radionuclide	Activity			Special Nuclear Material (kilograms)	Source Material (kilograms)	Surface Contamination DPM/CM <sup>2</sup>		Radiation Disposal Container Surface	Levels Transport Index (1 Meter)	DOT Label 49 CFR 172.403	
							kBq	MBq	GBq			Alpha	Beta			Radioactive	Radioactive
N-0915-1	7A	1.337	10	Gas	(1) DOT Type A, 7A Steel 10 Gallon Drum	H-3	2.58E+02	N/A	N/A							Radioactive	Y-23
				Solid	containing the following for disposal:	Am-241	7.40E-05									Radioactive	
					(1) American Atomics Model 401	Ra-226	5.55E-09									Radioactive	
					3.5 Ci H-3 S/N: <u>105</u>	Kr-85	2.22E-01									Radioactive	
					(4) Westinghouse Model HRD-2A											Radioactive	
					(2) x 0.25 uCi Each <u>1759, 2024, 2364, 1973</u>											Radioactive	
					(1) Pylon Electric Development											Radioactive	
					Model 3150 0.15 nCi Ra-226											Radioactive	
					S/N: <u>197</u>											Radioactive	
					(3) IPL Model 3077 Kr-85 2 mCi Each											Radioactive	
					S/N's: <u>10276</u>											Radioactive	
					<u>77 2315</u>											Radioactive	
					<u>11-0486</u>											Radioactive	
																Radioactive	

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### Survey Instrument Information

This is to certify that the herein-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Anthony Hull AHP Representative Signature Title RSO Date 9/18/15  
Industrial Hygienist Generator Representative Signature Title Date 9-18-15

Manufacturer: L.M.T.  
 Model: 14C  
 Serial Number: 286845  
 Calibration Due Date: 12/12/15  
 Background: 0.02 mR/hr

Destination Applied Health Physics, LLC  
 Address 2988 Industrial Blvd.  
 City Bethel Park State PA Zip Code 15102  
 Contact Anthony Hull Phone (412) 835-9555



Record# N-0915-1

Page 2 of 3

Date 09/18/15

2988 Industrial Blvd. Bethel Park, PA 15102 (412) 835-9555

Generator C.D.C. / N.I.O.S.H.  
 Address PO Box 18070  
 City Pittsburgh PA Zip Code 15236  
 Contact Beth Tomasovic Phone 412-386-6441  
 Shipment # N-0915-1

Total For Each Class	Reportable Qty	Proper Shipping Name & Hazard Class	ID Number
		Radioactive material, excepted package-limited quantity of material	7 UN2910
07	110	Radioactive material, excepted package-instruments or articles	7 UN2911
01	10	Radioactive material, Type A Package non-special form, non fissile or fissile-excepted	7 UN2915
		Radioactive material, Type A package, special form non fissile or fissile-excepted	7 UN3332

Carrier Applied Health Physics, LLC  
 Address 2988 Industrial Blvd.  
 City Bethel Park State PA Zip Code 15102  
 Contact Anthony Hull Phone 412-835-9555

**Radioactive Material Transfer Record and Receipt**

Container Number	Container Type	Container Volume (Cubic Ft)	Container Weight (lbs.)	Physical Form	Description of Package	Radionuclide	Activity	Special Nuclear Material	Source Material	Surface Contamination		Radiation Disposal Container	Levels Transport Index (1 Meter)	DOT Label 49 CFR 172.403	
										Alpha	Beta			Surface	Radioactive
N-0915-2	Strong Tight	6	60	Solid	(1) Perkin Elmer N610-0133 Ni-63 15 mCi Excepted Package S/N: 3699	Ni-63	5.55E-01	N/A	N/A	0	0	0.02	0.02	Radioactive	N/A
N-0915-3	Strong Tight	3	10	Solid	(1) Molecular Analytics 10RNH34KM0121 Ni-63 10 mCi Excepted Package S/N: 160AM / 2019	Ni-63	3.70E-01	N/A	N/A	0	0	0.02	N/A	Radioactive	N/A
N-0915-4	Strong Tight	3	10	Solid	(1) Molecular Analytics 10RNH34KM0121 Ni-63 10 mCi Excepted Package S/N: 159AM / 2016	Ni-63	3.70E-01	N/A	N/A	0	0	0.02	N/A	Radioactive	N/A
N-0915-5	Strong Tight	1	10	Solid	(1) HNU Systems Model 6021 10 mCi Ni-63 S/N: XP60067-15-01	Ni-63	3.70E-01	N/A	N/A	0	0	0.02	N/A	Radioactive	N/A

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**Survey Instrument Information**

Manufacturer: LMI  
 Model: 14C  
 Serial Number: 286845  
 Calibration Due Date: 12/12/15  
 Background: 0.02 MR/h

This is to certify that the herein-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[Signature]  
AHP Representative Signature

[Signature]  
Title

9/18/15  
Date

[Signature]  
Generator Representative Signature

Industrial Hygienist  
Title

9-18-15  
Date

Destination Applied Health Physics, LLC  
 Address 2986 Industrial Blvd.  
 City Bethel Park State PA Zip Code 15102  
 Contact Anthony Hull Phone (412) 835-9555



Record# N-0915-1

Page 3 of 3

Date 09/18/15

2986 Industrial Blvd. Bethel Park, PA 15102 (412) 835-9555

Generator C.D.C. / N.I.O.S.H. Address <u>PO Box 18070</u> City <u>Pittsburgh</u> State <u>PA</u> Zip Code <u>15236</u> Contact <u>Beth Tomasevic</u> Phone <u>412-386-6441</u> Shipment # <u>N-0915-1</u>	Total For Each Class		Reportable Qty If Applicable	Proper Shipping Name & Hazard Class (Per 49 CFR 172.101)	ID Number
	# OF Packages	Weight (Lbs.)			
	07	110	N/A	Radioactive material, excepted package-limited quantity of material	7 UN2910
	01	10	N/A	Radioactive material, excepted package-instruments or articles	7 UN2911
				Radioactive material, Type A Package non-special form, non fissile or fissile-excepted	7 UN2915
				Radioactive material, Type A package, special form non fissile or fissile-excepted	7 UN3332

Carrier Applied Health Physics, LLC  
 Address 2986 Industrial Blvd.  
 City Bethel Park State PA Zip Code 15102  
 Contact Anthony Hull Phone 412-835-9555

**Radioactive Material Transfer Record and Receipt**

Container Number	Container Type	Container Volume (Cubic Ft)	Container Weight (lbs.)	Physical Form	Description of Package	Radionuclide	Activity	Special	Source	Surface		Radiation	Levels	DOT Label 49 CFR 172.403	
										Contamination DPM/CM <sup>2</sup>	Disposal Container Surface			Alpha	Beta
N-0915-6	Strong Tight	1.2	10	Gas	(1) S-Cubed Model 215BGC H-3 300 uCi Excepted Package S/N: 0051 / 20-001-1049	H-3	1.1E-02	N/A	N/A	0	0	0.02	N/A	Radioactive	N/A
N-0915-7	Strong Tight	3	10	Solid	(1) Molecular Analytics 15YDI-100B-120 Ni-63 10 mCi Excepted Package S/N: 130 AN / 1465	Ni-63	3.70E-01	N/A	N/A	0	0	0.02	N/A	Radioactive	N/A
N-0915-8	Strong Tight	3	10	Solid	(1) Molecular Analytics 15YDI-100B-120 Ni-63 10 mCi Excepted Package S/N: 613 AN / 1697 The material described above has been accepted by the terms and conditions of AHP's PADEP Radioactive Material License Number: PA-0228	Ni-63	3.70E-01	N/A	N/A	0	0	0.02	N/A	Radioactive	N/A
		1.2	120				1.32E-02	N/A	N/A					Radioactive	

This is to certify that the herein-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[Signature] Title CEO Date 9/18/15  
 AHP Representative Signature  
[Signature] Title DU Date 18-15  
 Generator Representative Signature

**Survey Instrument Information**

Manufacturer: LMI  
 Model: 14C  
 Serial Number: 286045  
 Calibration Due Date: 12/12/15  
 Background: 0.02 MR/h



# Curie Environmental Services Certificate of Transfer and Recycling



Generator (or Broker)	Applied Health Physics, LLC, Bethel Park, PA		
Curie Container ID	CSS-17-1259 55 Gal. Drum	Purchase Order #	e-mail
Date Received	9/18/2017	Inbound Package Number	AHP-PA-0317-1
Package Dose Rate in $\mu\text{R/hr}$	12.0	Transporter	UPS
Activity of Am-241 $\mu\text{Ci}$	34.0	Activity of Ra-226 in $\mu\text{Ci}$	0.0
Activity of Ni-63 $\mu\text{Ci}$	0.0	C. C. #	17-052
Total Package Activity in $\mu\text{Ci}$	34.0	Certificate Date	10/3/2017

## SMOKE ALARM PROCESSING LOG

Manufacturer	Model Number	Number of Units in Shipment	Individual Unit Activity ( $\mu\text{Ci}$ )	Activity by Model in Shipment ( $\mu\text{Ci}$ )	Isotope	NRC Licensing
OPTION DETECTOR	ISSUE #2	8	1.0	8.0	Am-241	10 CFR 30.15(A)(7)
HAND MADE FLOW DETECTOR	DPM-4	1	1.0	1.0	Am-241	10 CFR 30.15(A)(7)
HAND MADE FLOW DETECTOR	DPM-3	1	0.5	0.5	Am-241	10 CFR 30.15(A)(7)
BRK	3002	11	1.0	11.0	Am-241	12-23089-01E
ELECTRONIK CENTRALEN	EC-912-10	1	3.5	3.5	Am-241	10 CFR 32.27
NIOSH/PITTSBURGH RESEARCH LABORATORIES SUBMICROMETER PARTICLE DETECTOR						
Amersham Plated Foils (Regular)	AAM/001H	1	5.0	5.0	Am-241	NR- 136-S-174-U
Amersham Plated Foils (Diesel)	AAM/001H	1	5.0	5.0	Am-241	NR- 136-S-174-U
<b>TOTAL ALARMS</b>		<b>24</b>	<b>TOTAL ACTIVITY</b>	<b>34.0</b>	<b>microcuries</b>	

CONGRATULATIONS! You have diverted 34  $\mu\text{Ci}$  from your community's solid waste stream.



# QUAL-X INC. KRYPTON-85 RECOVERY CERTIFICATION

P.O. Box 1210  
3039 Home Rd.  
Powell, Ohio 43085  
ph(740) 881-5544 fax(740) 881-4480

**Date Received** 7/25/2017  
**Shipper Purchase Order Number** Unknown  
**Qual-x Job Number** AHPS00117  
**Received From** Keith Mobley  
(412) 835-9555 Memo:  
Applied Health Physics  
2986 Industrial Blvd.  
Bethel Park Pennsylvania  
15102

**Date Of Recovery** 7/28/2017

Qual-X takes possession and title of the devices containing Krypton-85 that were received from your plant at the address shown above. The Krypton-85 has been recycled and transferred to Qual-X inventory per Qual-X procedures and all applicable NRC and State of Ohio regulations.

Some sources may be listed in this report as having a Serial Number, Date of Manufacture, and / or, Original Activity that is "unknown". This means that the information was not stamped or engraved on the source when it was manufactured. If the information in this report is different than the information in your records or the documentation provided by the manufacturer of the source, it does not necessarily mean that Qual-X disputes the information. You may request further review of the data in this report at no additional cost.

Some manufacturers may show a serial number on documentation that accompanies the source that differs from the actual serial number stamped on the source or device capsule, usually the documentation will show an extra number or letter in these cases. This report will show the serial number as it is stamped on the source or device capsule.

If the device had the original activity stamped on it this report will show the activity in the column that reflects the units used on the device. I.e., MCi, or GBq.

Duplicates of this report can be obtained from an authorized representative of the company named at the top of this document, and by authorized regulatory personnel at no cost. Qual-X reserves the right to require a written request for duplicates of this report.

If you have any questions regarding this report please feel free to call Qual-X, Inc. at the number shown at the top of this report.

Source Serial #'s	Date of Manufacture	Original Activity (Mci)	Original Activity (GBq)	Other Markings	Notes	Record I.D.
95/07/085	Unknown	Unknown		IA No: SABS M777/L311	Smoke Detector	21144
95/07/086	Unknown	Unknown		IA No: SABS M777/L311	Smoke Detector	21145
95/07/040	Unknown	Unknown		IA No: SABS M777/L311	Smoke Detector	21146
95/08/115	Unknown	Unknown		IA No: SABS M777/L311	Smoke Detector	21147
97/08/118	Unknown	Unknown		IA No: SABS M777/L311	Smoke Detector	21148

Source Serial #'s	Date of Manufacture	Original Activity (mcf)	Original Activity (GBq)	Other Markings	Notes	Record I.D.
97/07/041	Unknown	Unknown		IA No: SABS M777/L311	Smoke Detector	21149
W011/0/???	Unknown	5			Smoke Detector Serial # partially legible	21150
3310132104	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21151
3310132104	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21152
3310132104	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21153
3310132091	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21154
3310132091	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21155
3310132091	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21156
3310132103	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21157
3310132109	Unknown	2		IA No: SAEEx M/05-323X	Smoke Detector	21158
<b>Total Number of Sources</b>		<b>16</b>				

Completed by Russ Michon



Destination Applied Health Physics, LLC  
 Company 2986 Industrial Blvd.  
 Address \_\_\_\_\_  
 City Bethel Park State PA Zip Code 15102  
 Contact Keith Mobley Phone (412) 835-9555



Record # CDC/NIOSH-1118 Page 1 of 1

Date 11 / 29 / 2018

2986 Industrial Blvd. Bethel Park, PA 15102 (412) 835-9555

Generator <u>CDC/NIOSH</u> Address <u>626 Cochrans Mill Road</u> City <u>Pittsburgh</u> State <u>PA</u> Zip Code <u>15238</u> Contact <u>Ms. Barbara Helrendt</u> Phone _____ Shipment # _____	Total For Each Class		Reportable Qty If Applicable	Proper Shipping Name & Hazard Class (Per 49 CFR 172.101)	ID Number
	# OF Packages	Weight (Lbs)			
	1	20	N/A	Radioactive material, excepted package-limited quantity of material	7 UN2910
				Radioactive material, excepted package-instruments or articals	7 UN2911
				Radioactive material, Type A Package non- special form, non fissile or fissile-excepted	7 UN2915
				Radioactive material, Type A package, special form non fissile or fissile-excepted	7 UN3332

Carrier Applied Health Physics, LLC  
 Address 2986 Industrial Blvd.  
 City Bethel Park State PA Zip Code 15102  
 Contact \_\_\_\_\_ Phone (412) 835-9555

**24 Hour Emergency Contact: (412) 835-9555 or 1-800-332-6648**  
**Radioactive Transfer Record and Receipt**

Container Number	Container Type	Container Volume (Cubic Ft)	Container Weight (lbs)	Physical Form	Description of Package	Radionuclide	Activity	Special	Source	Surface Contamination DPM/CM <sup>2</sup>		Radiation Disposal Container Surface	Levels Transport Index (1 Meter)	DOT Label 49 CFR 172.403
							Bq MBq GBq	Nuclear Material (grams)	Material (kilograms)	Alpha	Beta			
CDC/NIOSH-1118-1	Steel Drum	1.34	20	Solid	(1) NRD LL - P-2042 - containing Po-210	Po-210	0.0036	N/A	N/A	0	0	0.005	0.005	Radioactive-WH 1
					(1) NRD LL - Static Master 2U500 (Containing Po-210)	Po-210	1.642E-06	N/A	N/A	0	0			Radioactive-WH 1
					(2) N/A - P40-83-09 - containing Am-241 (From Smoke Detectors)	Am-241	0.037	N/A	N/A	0	0			Radioactive-WH 1
														Radioactive
														Radioactive
														Radioactive
														Radioactive
		1.34	20				0.041	N/A	N/A					Radioactive

This is to certify that the herein-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Keith Mobley Laboratory Supervisor 11/29/2018  
 AHP Representative Signature Title Date  
Barbara Helrendt EHS Team Lead 11-29-18  
 Generator Representative Signature Title Date

**Survey Instrument Information**

Manufacturer: Thermo Scientific  
 Model Number: Radeye PRD-ER  
 Serial Number: 30968  
 Calibration Due: April 17 2019  
 Background: 0.005 mSv/hr