

July 30, 2015

Licensing Assistant Section
Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission, Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

RE: Triad Isotopes, Inc. – Milford
RAM License # 09-31406-01MD
180 Pepes Farm Rd
Milford, CT 06460
Control no. 585109

Br. 3
03038269

REG-01-0904-15-01018

Dear License Reviewer:

Triad Isotopes, Inc is requesting that the above referenced radioactive material license (#09-31406-01MD) be terminated. NRC Form 314, Certificate of Disposition of Materials, has been completed and is included as Attachment D for your review.

All of the radioactive materials handled in this facility were relatively short-lived or extremely short-lived materials that are used in the practice of nuclear medicine. No materials were dumped or placed into the sanitary sewer system. The area has not been painted since operations ceased and there is no scrap or radioactive residue left in the facility. All radioactive sealed sources and low level radwaste has been disposed of through services provided by Bionomics, Inc. Confirmation of receipt of the waste and sealed sources is attached as Attachment E. All biomedical waste has been removed from the premises through services provided by Stericycle, Inc. Final radiological surveys have been completed.

Enclosed please find information regarding the radiological close-out surveys of our nuclear pharmacy located at 180 Pepes Farm Road, Milford, CT 06460. Operations ceased on October 20, 2014 with written notification submitted to the Commission. Confirmation of the ceased operations was confirmed received with letter dated January 9, 2015. Emphasis was placed on monitoring those areas in which radioactive materials were received, used and stored. The following information summarizes the closeout survey proceedings:

588620

NMSS/RGN1 MATERIALS-002

Dose Rate Monitoring:

Two Ludlum portable survey meters, Model 14C and Model 3, (SN 173533, 65416, respectively), were used to evaluate the ambient dose rates throughout the entire restricted and unrestricted areas of the facility. A facility floor plan is included as Attachment A. Survey instrument (SN 173533) was last calibrated by a licensed calibration vendor (A.M. Calibration Services, Inc) on May 2, 2014. Survey instrument (SN 65416) was last calibrated by a licensed calibration vendor (A.M. Calibration Services, Inc) on May 14, 2014. Survey instrument calibration information included as Attachment C.

Observed dose rates throughout the facility (restricted and unrestricted areas) did not exceed ambient background levels. All surveys were at or below background, determined to be 0.03 mR/hr at the time of the survey.

Contamination Monitoring:

Three Ludlum portable survey meters, Model 14C, Model 3, and Model 177, (SN 173533, 65416, and 49418, respectfully), were used to evaluate the ambient dose rates throughout the entire restricted and unrestricted areas of the facility. Facility diagram included as Attachment A. Survey instrument (SN 173533) was last calibrated by a licensed calibration vendor (A.M. Calibration Services, Inc) on May 2, 2014. Survey instrument (SN 65416) was last calibrated by a licensed calibration vendor (A.M. Calibration Services, Inc) on May 14, 2014. Survey instrument (SN49418) was last calibrated by a licensed calibration vendor (A.M. Calibration Services, Inc) on September 22, 2014. Survey instrument calibration information included as Attachment C.

Observed survey results throughout the facility (restricted and unrestricted areas) did not exceed ambient background levels. All surveys were at or below background, determined to be 80 counts per minute (cpm) at the time of the survey.

An extensive set of wipe tests were performed to assess removable contamination in key locations (restricted areas) of the facility as shown in Attachment B. For each wipe test a 1 x 1 meter area was wiped. The samples were counted on a Ludlum Model #2200 Scalers (SN271300) with Ludlum Model #203 NaI Well Counter (SN PR292864). The instrument efficiency was 89% and the MDA factors ranged from 60 - 84 dpm for all restricted areas. As indicated in the attached area facility diagrams the observed average removable contamination levels throughout the key locations was equivalent to background levels and below action limit. Please refer to area facility diagrams included as Attachment B for further details.

All close-out survey data shows contamination and radiation levels consistent with background. With the exception of Area 4 A1, X1, Y1, X14, and Y14 the radiological close-out surveys were conducted April 22-24, 2015 by Neil Stubbs CNMT, RT(N), Pharmacy Safety Specialist, Erica Sztangret, PharmD, RSO, and Craig Kinne, Corporate Radiation Safety Officer (Triad Isotopes, Inc.). Area 4 A1, X1, Y1, X14, and Y14 were conducted after the removal of the sealed sources and low level radwaste by Bionomics, Inc on June 17, 2015.

If you have any questions concerning this report, please contact Craig Kinne, Corporate Radiation Safety Officer at (407) 257-8998.

Sincerely,



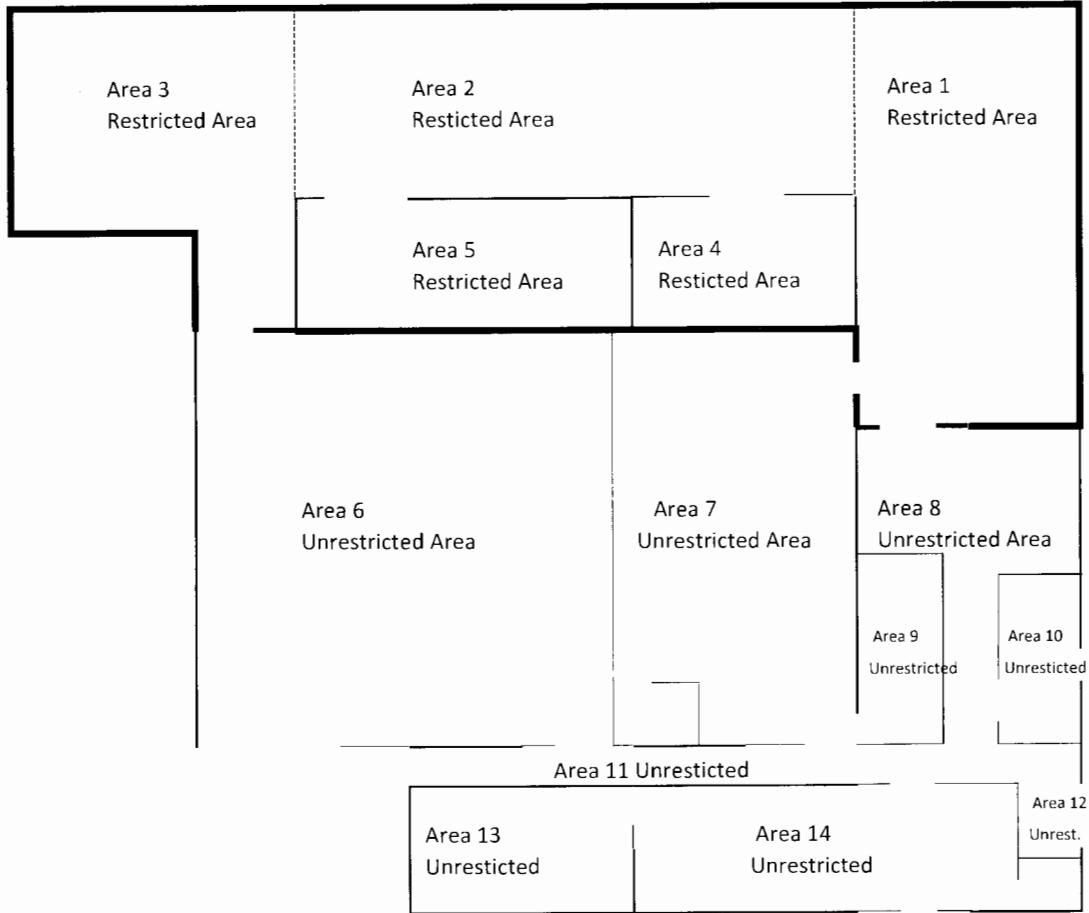
Craig S. Kinne
Corporate Radiation Safety Officer
(Primary) 407-257-8998
(Secondary) 407-455-6755
(Fax) 407-455-6732
Email: ckinne@triadisotopes.com

Attachments

cc: S. Julian, Chief Privacy Officer, Legal and Regulatory Affairs Coordinator
E. Sztangret, Milford RSO
N. Plumeri, Area Vice President - East
Quality and Safety Department

**Attachment A
Facility Floor Plan**

Attachment A
FLOOR PLAN
Triad Isotopes, Inc - Milford
180 Pepes Farm Rd
Milford, CT 06460



Attachment B
Contamination Monitoring

Attachment B
Area 1

Y30	Y29	Y28	Y27	Y26	Y25	Y24	Y23
X30	X29	X28	X27	X26	X25	X24	X23

H14	G14	F14	E14	D14	C14	B14	A14
H13	G13	F13	E13	D13	C13	B15	A13
H12	G12	F12	E12	D12	C12	B12	A12
H11	G11	F11	E11	D11	C11	B11	A11
H10	G10	F10	E10	D10	C10	B10	A10
H9	G9	F9	E9	D9	C9	B9	A9
H8	G8	F8	E8	D8	C8	B8	A8
H7	G7	F7	E7	D7	C7	B7	A7
H6	G6	F6	E6	D6	C6	B6	A6
H5	G5	F5	E5	D5	C5	B5	A5
H4	G4	F4	E4	D4	C4	B4	A4
H3	G3	F3	E3	D3	C3	B3	A3
H2	G2	F2	E2	D2	C2	B2	A2
H1	G1	F1	E1	D1	C13	B1	A1

X22	Y22
X21	Y21
X20	Y20
X19	Y19
X18	Y18
X17	Y17
X16	Y16
X15	Y15
X14	Y14
X13	Y13
X12	Y12
X11	Y11
X10	Y10
X9	Y9

Y31	X31
Y32	X32
Y33	X33
Y34	X34
Y35	X35
Y36	Door x36

Door							
X1	X2	X3	X4	X5	X6	X7	X8
Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8

Attachment B
 AREA 1 - Floor
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/ 73 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
A1	260	180	90
A2	260	180	90
A3	250	180	79
A4	250	180	79
A5	150	180	<MDA
A6	150	180	<MDA
A7	260	180	90
A8	260	180	90
A9	210	180	<MDA
A10	210	180	<MDA
A11	160	180	<MDA
A12	160	180	<MDA
A13	140	180	<MDA
A14	140	180	<MDA
B1	220	180	<MDA
B2	220	180	<MDA
B3	210	180	<MDA
B4	210	180	<MDA
B5	160	180	<MDA
B6	160	180	<MDA
B7	190	180	<MDA
B8	190	180	<MDA
B9	280	180	112
B10	280	180	112
B11	190	180	<MDA
B12	190	180	<MDA
B13	250	180	79
B14	250	180	79
C1	200	180	<MDA
C2	200	180	<MDA
C3	190	180	<MDA

C4	190	180	<MDA
C5	190	180	<MDA
C6	190	180	<MDA
C7	190	180	<MDA
C8	190	180	<MDA
C9	250	180	79
C10	250	180	79
C11	180	180	<MDA
C12	180	180	<MDA
C13	170	180	<MDA
C14	170	180	<MDA
D1	300	180	135
D2	300	180	135
D3	210	180	<MDA
D4	210	180	<MDA
D5	260	180	90
D6	260	180	90
D7	120	180	<MDA
D8	120	180	<MDA
D9	200	180	<MDA
D10	200	180	<MDA
D11	190	180	<MDA
D12	190	180	<MDA
D13	150	180	<MDA
D14	150	180	<MDA
E1	140	180	<MDA
E2	140	180	<MDA
E3	220	180	<MDA
E4	220	180	<MDA
E5	270	180	101
E6	270	180	101
E7	150	180	<MDA
E8	150	180	<MDA
E9	280	180	112
E10	280	180	112
E11	210	180	<MDA
E12	210	180	<MDA
E13	250	180	79
E14	250	180	79
F1	170	180	<MDA
F2	170	180	<MDA
F3	210	180	<MDA
F4	210	180	<MDA
F5	250	180	79
F6	250	180	79
F7	290	180	124
F8	290	180	124

F9	220	180	<MDA
F10	220	180	<MDA
F11	140	180	<MDA
F12	140	180	<MDA
F13	230	180	<MDA
F14	230	180	<MDA
G1	170	180	<MDA
G2	170	180	<MDA
G3	180	180	<MDA
G4	180	180	<MDA
G5	220	180	<MDA
G6	220	180	<MDA
G7	230	180	<MDA
G8	230	180	<MDA
G9	240	180	<MDA
G10	240	180	<MDA
G11	170	180	<MDA
G12	170	180	<MDA
G13	130	180	<MDA
G14	130	180	<MDA
H1	200	180	<MDA
H2	200	180	<MDA
H3	200	180	<MDA
H4	200	180	<MDA
H5	170	180	<MDA
H6	170	180	<MDA
H7	180	180	<MDA
H8	180	180	<MDA
H9	230	180	<MDA
H10	230	180	<MDA
H11	170	180	<MDA
H12	170	180	<MDA
H13	170	180	<MDA
H14	170	180	<MDA

Attachment B
AREA 1 - Wall X
Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/75 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
X1	150	190	<MDA
X2	150	190	<MDA
X3	220	190	<MDA
X4	220	190	<MDA
X5	150	190	<MDA
X6	150	190	<MDA
X7	260	190	79
X8	260	190	79
X9	240	190	<MDA
X10	240	190	<MDA
X11	140	190	<MDA
X12	140	190	<MDA
X13	310	190	135
X14	310	190	135
X15	270	190	90
X16	270	190	90
X17	220	190	<MDA
X18	220	190	<MDA
X19	170	190	<MDA
X20	170	190	<MDA
X21	230	190	<MDA
X22	230	190	<MDA
X23	170	190	<MDA
X24	170	190	<MDA
X25	150	190	<MDA
X26	150	190	<MDA
X27	190	190	<MDA
X28	190	190	<MDA
X29	200	190	<MDA
X30	200	190	<MDA

X31	190	190	<MDA
X32	190	190	<MDA
X33	320	190	146
X34	320	190	146
X35	230	190	<MDA
X36	230	190	<MDA

Attachment B
AREA 1 - Wall Y
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300)with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/71 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
Y1	240	170	79
Y2	240	170	79
Y3	210	170	<MDA
Y4	210	170	<MDA
Y5	280	170	124
Y6	280	170	124
Y7	140	170	<MDA
Y8	140	170	<MDA
Y9	170	170	<MDA
Y10	170	170	<MDA
Y11	240	170	79
Y12	240	170	79
Y13	230	170	<MDA
Y14	230	170	<MDA
Y15	180	170	<MDA
Y16	180	170	<MDA
Y17	190	170	<MDA
Y18	190	170	<MDA
Y19	220	170	<MDA
Y20	220	170	<MDA
Y21	210	170	<MDA
Y22	210	170	<MDA
Y23	210	170	<MDA
Y24	210	170	<MDA
Y25	110	170	<MDA
Y26	110	170	<MDA
Y27	130	170	<MDA
Y28	130	170	<MDA
Y29	230	170	<MDA
Y30	230	170	<MDA

Y31	190	170	<MDA
Y32	190	170	<MDA
Y33	230	170	<MDA
Y34	230	170	<MDA
Y35	220	170	<MDA
Y36	220	170	<MDA

Attachment B

Area 2

Y9	Y8	Y7	Y6	Y5	Y4	Y3	Y2	Y1
X9	X8	X7	X6	X5	X4	X3	X2	X1
						Door		

I7	H7	G7	F7	E7	D7	C7	B7	A7
I6	H6	G6	F6	E6	D6	C6	B6	A6
I5	H5	G5	F5	E5	D5	C5	B5	A5
I4	H4	G4	F4	E4	D4	C4	B4	A4
I3	H3	G3	F3	E3	D3	C3	B3	A3
I2	H2	G2	F2	E2	D2	C2	B2	A2
I1	H1	G1	F1	E1	D1	C1	B1	A1

X10	X11	Door X12	X13	X14	X15	X16	Door X17	X18
Y10	Y11	Y12	Y13	Y14	Y15	Y16	Y17	Y18

Attachment B
 AREA 2 - Floor
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/60 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
A1	250	120	146
A2	250	120	146
A3	240	120	135
A4	240	120	135
A5	210	120	101
A6	210	120	101
A7	170	120	<MDA
B1	210	120	101
B2	210	120	101
B3	220	120	112
B4	220	120	112
B5	170	120	<MDA
B6	170	120	<MDA
B7	210	120	101
C1	110	120	<MDA
C2	110	120	<MDA
C3	150	120	<MDA
C4	150	120	<MDA
C5	120	120	<MDA
C6	120	120	<MDA
C7	140	120	<MDA
D1	170	120	<MDA
D2	170	120	<MDA
D3	200	120	90
D4	200	120	90
D5	250	120	146
D6	250	120	146
D7	200	120	90
E1	220	120	112
E2	220	120	112

E3	170	120	<MDA
E4	170	120	<MDA
E5	220	120	112
E6	220	120	112
E7	190	120	79
F1	160	120	<MDA
F2	160	120	<MDA
F3	230	120	124
F4	230	120	124
F5	220	120	112
F6	220	120	112
F7	240	120	135
G1	140	120	<MDA
G2	140	120	<MDA
G3	240	120	135
G4	240	120	135
G5	230	120	124
G6	230	120	124
G7	170	120	<MDA
H1	150	120	<MDA
H2	150	120	<MDA
H3	190	120	79
H4	190	120	79
H5	190	120	79
H6	190	120	79
H7	130	120	<MDA
I1	180	120	67
I2	180	120	67
I3	190	120	79
I4	190	120	79
I5	180	120	67
I6	180	120	67
I7	180	120	67

Attachment B
AREA 2 - Wall X
Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/60 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm²)
X1	190	120	79
X2	190	120	79
X3	180	120	67
X4	180	120	67
X5	180	120	67
X6	180	120	67
X7	190	120	79
X8	190	120	79
X9	190	120	79
X10	230	120	124
X11	230	120	124
X12	200	120	90
X13	200	120	90
X14	240	120	135
X15	240	120	135
X16	220	120	112
X17	220	120	112
X18	200	120	90

Attachment B
AREA 2 - Wall Y
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/65 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
Y1	170	140	<MDA
Y2	170	140	<MDA
Y3	260	140	135
Y4	260	140	135
Y5	210	140	79
Y6	210	140	79
Y7	170	140	<MDA
Y8	170	140	<MDA
Y9	260	140	135
Y10	190	140	<MDA
Y11	190	140	<MDA
Y12	120	140	<MDA
Y13	120	140	<MDA
Y14	190	140	<MDA
Y15	190	140	<MDA
Y16	150	140	<MDA
Y17	150	140	<MDA
Y18	130	140	<MDA

Attachment B
Area 3

Y9	Y8	Y7	Y6	Y5
X9	X8	X7	X6	X5

Y10	X10
Y11	X11
Y12	X12
Y13	X13
Y14	X14
Y15	X15
Y16	X16
Y17	X17
Y18	X18

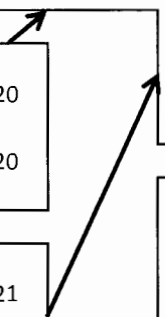
E9	D9	C11	B11	A11
E8	D8	C10	B10	A10
E7	D7	C9	B9	A9
E6	D6	C8	B8	A8
E5	D5	C7	B7	A7
E4	D4	C6	B6	A6
E3	D3	C5	B5	A5
E2	D2	C4	B4	A4
E1	D1	C3	B3	A3
		C2	B2	A2
		C1	B1	A1

X4	Y4
X3	Y3
X2	Y2
X1	Y1

X19	X20
Y19	Y20

Y21	X21
Y22	X22

Door		
X23	X24	X25
Y23	Y24	Y25



Attachment B
AREA 3 - Floor
Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/67 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
A1	200	150	<MDA
A2	200	150	<MDA
A3	210	150	67
A4	210	150	67
A5	160	150	<MDA
A6	160	150	<MDA
A7	160	150	<MDA
A8	160	150	<MDA
A9	260	150	124
A10	260	150	124
A11	210	150	67
B1	260	150	124
B2	260	150	124
B3	170	150	<MDA
B4	170	150	<MDA
B5	190	150	<MDA
B6	190	150	<MDA
B7	180	150	<MDA
B8	180	150	<MDA
B9	200	150	<MDA
B10	200	150	<MDA
B11	180	150	<MDA
C1	170	150	<MDA
C2	170	150	<MDA
C3	220	150	79
C4	220	150	79
C5	260	150	124
C6	260	150	124
C7	190	150	<MDA
C8	190	150	<MDA
C9	210	150	67

C10	210	150	67
C11	300	150	169
D1	200	150	<MDA
D2	200	150	<MDA
D3	190	150	<MDA
D4	190	150	<MDA
D5	130	150	<MDA
D6	130	150	<MDA
D7	210	150	67
D8	210	150	67
D9	110	150	<MDA
E1	200	150	<MDA
E2	200	150	<MDA
E3	200	150	<MDA
E4	200	150	<MDA
E5	200	150	<MDA
E6	200	150	<MDA
E7	280	150	146
E8	280	150	146
E9	190	150	<MDA

Attachment B
 AREA 3 - Wall X
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/75 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
X1	180	190	<MDA
X2	180	190	<MDA
X3	290	190	112
X4	290	190	112
X5	240	190	<MDA
X6	240	190	<MDA
X7	120	190	<MDA
X8	120	190	<MDA
X9	200	190	<MDA
X10	200	190	<MDA
X11	280	190	101
X12	280	190	101
X13	190	190	<MDA
X14	190	190	<MDA
x15	130	190	<MDA
x16	130	190	<MDA
X17	190	190	<MDA
X18	190	190	<MDA
X19	190	190	<MDA
X20	190	190	<MDA
X21	150	190	<MDA
X22	150	190	<MDA
X23	240	190	<MDA
X24	240	190	<MDA
X25	160	190	<MDA

Attachment B
 AREA 3 - Wall Y
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89% /71 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
Y1	220	170	<MDA
Y2	220	170	<MDA
Y3	190	170	<MDA
Y4	190	170	<MDA
Y5	270	170	112
Y6	270	170	112
Y7	230	170	<MDA
Y8	230	170	<MDA
Y9	240	170	79
Y10	240	170	79
Y11	210	170	<MDA
Y12	210	170	<MDA
Y13	180	170	<MDA
Y14	180	170	<MDA
Y15	170	170	<MDA
Y16	170	170	<MDA
Y17	230	170	<MDA
Y18	230	170	<MDA
Y19	290	170	135
Y20	290	170	135
Y21	220	170	<MDA
Y22	220	170	<MDA
Y23	160	170	<MDA
Y24	160	170	<MDA
Y25	300	170	146

Attachment B
Area 4

Y7	Y6	Y5
X7	X6	X5
	Door	

Y8	X8
Y9	X9
Y10	X10
Y11	X11

C4	B4	A4
C3	B3	A3
C2	B2	A2
C1	B1	A1

X4	Y4
X3	Y3
X2	Y2
X1	Y1

X12	X13	X14
Y12	Y13	Y14

Note: A1, X1, Y1
X14, and Y14
Completed 6-17-2015

Attachment B
AREA 4 - Floor
Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/75 dpm

Efficiency/MDA (6/17/2015): 89%/75 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
A1	190	190	<MDA
A2	190	190	<MDA
A3	200	190	<MDA
A4	200	190	<MDA
B1	200	190	<MDA
B2	200	190	<MDA
B3	220	190	<MDA
B4	220	190	<MDA
C1	300	190	124
C2	300	190	124
C3	120	190	<MDA
C4	120	190	<MDA

Attachment B
AREA 4 - Wall X
Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/80 dpm

Efficiency/MDA (6/17/2015): 89%/75 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
X1	190	190	<MDA
X2	300	220	90
X3	200	220	<MDA
X4	200	220	<MDA
X5	200	220	<MDA
X6	200	220	<MDA
X7	240	220	<MDA
X8	240	220	<MDA
X9	210	220	<MDA
X10	210	220	<MDA
X11	270	220	<MDA
X12	270	220	<MDA
X13	280	220	<MDA
X14	190	190	<MDA

Attachment B
AREA 4 - Wall Y
Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/84 dpm

Efficiency/MDA (6/17/2015): 89%/75 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
Y1	190	190	<MDA
Y2	190	240	<MDA
Y3	190	240	<MDA
Y4	190	240	<MDA
Y5	170	240	<MDA
Y6	170	240	<MDA
Y7	240	240	<MDA
Y8	240	240	<MDA
Y9	230	240	<MDA
Y10	230	240	<MDA
Y11	200	240	<MDA
Y12	200	240	<MDA
Y13	240	240	<MDA
Y14	190	190	<MDA

Attachment B

Area 5

Y9	Y8	Y7	Y6	Y5
X9	X8	X7	X6	X5
Door				

Y10	X10
Y11	X11
Y12	X12
Y13	X13

E4	D4	C4	B4	A4
E3	D3	C3	B3	A3
E2	D2	C2	B2	A2
E1	D1	C1	B1	A1

X4	Y4
X3	Y3
X2	Y2
X1	Y1

X14	X15	X16	X17	X18
Y14	Y15	Y16	Y17	Y18

Attachment B
 AREA 5 - Floor
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89 %/84 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
A1	170	240	<MDA
A2	170	240	<MDA
A3	250	240	<MDA
A4	250	240	<MDA
B1	120	240	<MDA
B2	120	240	<MDA
B3	190	240	<MDA
B4	190	240	<MDA
C1	180	240	<MDA
C2	180	240	<MDA
C3	250	240	<MDA
C4	250	240	<MDA
D1	250	240	<MDA
D2	250	240	<MDA
D3	240	240	<MDA
D4	240	240	<MDA
E1	180	240	<MDA
E2	180	240	<MDA
E3	240	240	<MDA
E4	240	240	<MDA

Attachment B
AREA 5 - Wall X
Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/79 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
X1	140	210	<MDA
X2	140	210	<MDA
X3	190	210	<MDA
X4	190	210	<MDA
X5	270	210	<MDA
X6	270	210	<MDA
X7	170	210	<MDA
X8	170	210	<MDA
X9	220	210	<MDA
X10	220	210	<MDA
X11	220	210	<MDA
X12	220	210	<MDA
X13	210	210	<MDA
X14	210	210	<MDA
X15	300	210	101
X16	300	210	101
X17	300	210	101
X18	300	210	101

Attachment B
AREA 5 - Wall Y
 Contamination Monitoring

Instrumentation: Ludlum Model # 2200 -Scaler (SN271300) with
 Ludlum well counter model #203 (SNPR292864)

Region of Interest: 50 - 500 kev

Efficiency/MDA: 89%/84 dpm

Action Level: 220 dpm/100cm²

Grid ID	Sample Count (cpm)	Background (cpm)	Net Contamination (dpm/100 cm ²)
Y1	220	240	<MDA
Y2	220	240	<MDA
Y3	240	240	<MDA
Y4	240	240	<MDA
Y5	200	240	<MDA
Y6	200	240	<MDA
Y7	280	240	<MDA
Y8	280	240	<MDA
Y9	180	240	<MDA
Y10	180	240	<MDA
Y11	240	240	<MDA
Y12	240	240	<MDA
Y13	190	240	<MDA
Y14	190	240	<MDA
Y15	230	240	<MDA
Y16	230	240	<MDA
Y17	170	240	<MDA
Y18	170	240	<MDA

Attachment C
Survey Instrument Calibration Certificates

~~Meter #2~~

Certificate of Calibration

Meter Owner: Triad Isotopes-Milford

Calibration Date: 5/14/14

Calibration Due Date: 5/14/15

A.M. Calibration Services Inc.

9620 Medical Center Drive #100

Rockville, MD 20850

Office: 301-610-6001

Fax: 301-517-3654

amcalibration@aol.com

AM Calibration Radioactive Material License: MD-31-206-01

Inspection Item: Ludlum 3 #65416

Batteries Changed: no

Internal Adjustment: no

RANGE	Scale Reading	True Readings	CF
X100	400,000	400,000	1.00
	100,000	100,000	
X10	41,000	40,000	0.99
	10,000	10,000	
X1	3,900	4,000	1.01
	1,000	1,000	
X0.1	390	400	1.01
	100	100	

The relative response for Cs137 was determined to be 11.0% using the 44-9 #2086

The relative response for was determined to be using the " "

The relative response for the check source was determined to be 5k cpm using the 44-9

Instrument described above was calibrated electronically (pulsing method), and compared with instrumentation whose calibration is traceable to the National Institute of Standards and Technology. Calibrated in accordance with ANSI-N323-1997 and as manufacturer recommended.

Calibrated by: Andrew J McAleer

AM Calibration verifies all the above before shipping, not responsible for any damages incurred in shipping.

#2 meter

5-19-14

OCS 5000 cpm

10% Range 4500 - 5500 cpm

AMC 250 5-19-14

meter #9

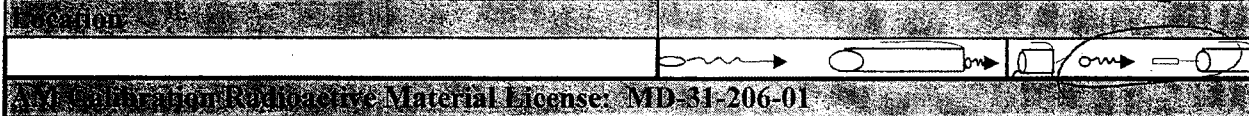
Certificate of Calibration

A.M. Calibration Services

9620 Medical Center Drive
Rockville Md 20850
Phone: 301-610-6001

amcalibration@aol.com

Meter Owner:	Triad Isotopes-Milford	Manufacturer:	Ludlum
Calibration Date:	5/2/2014	Model Number:	14-C
Calibration Due Date:	5/2/2015	Serial Number:	173533



Calibration Radioactive Material License: MD-31-206-01	
Inspection Item	
Batteries Changed	no
Internal Adjustment	no

Inspection Information: #037316 no cap

Instrument Scale	mR/hr		CF	Scale CF
	Meter Exposure	True Exposure		
x 1000.0	1100	1428	1.298	1.043
x "	450	355	0.788	"
x 100.0	125	158	1.264	1.075
x "	44	39	0.886	"
x 10.0	14	14	1.000	1.000
x "	3.6	3.6	1.000	"
x 1.0	1.6	1.6	1.000	1.000
x "	0.4	0.4	1.000	"
x 0.1	0.14	0.14	1.000	1.000
x "	0.075	0.075	1.000	"

Check Source Reading = 1.0 mR/hr

This certifies that the instrument above was calibrated with a Cs-137 source, Shepherd Model 28-6 #10258-300mCi. Exposure rate for this source has been verified with instrumentation whose calibration is traceable to NIST standards. And in accordance with ANSI-N323 and as recommended by manufacturer.

Calibrated By: Andrew J McAleer

5-8-14 OCS 1.00 mR/hr = 3300 cpm
10% range = 3K - 3.6K cpm

5-8-14

AM Calibration Services verifies all the above before shipping, not responsible for damages incurred in shipping.

Back Into Service 5-9-14

Certificate of Calibration

Meter Owner: Triad Isotopes-Milford

Calibration Date: 5/2/14

Calibration Due Date: 5/2/15

A.M. Calibration Services Inc.

9620 Medical Center Drive

Rockville, MD 20850

Office: 301-610-6001

Fax: 301-517-3654

AM Calibration Radioactive Material License: MD-31-206-01

amcalibration@aol.com

Inspection Item: Ludlum 14-C #173533

Batteries Changed: no

Internal Adjustment: no

RANGE	Meter Response (CPM)	True Response (CPM)	CF
X100	640,000	500,000	0.775 *Use CF
	130,000	100,000	
X10	52,000	50,000	0.956
	10,500	10,000	
X1	5,550	5,000	0.905
	1,100	1,000	
X0.1	500	500	0.955
	110	100	

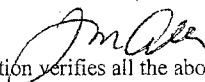
The relative response for Cs137 was determined to be 13.30% using 44-9 #037316.

The relative response for was determined to be using the “ “.

The relative response for the check source was determined to be 3.3k cpm using the “ “.

Instrument described above was calibrated electronically (pulsing method), and compared with instrumentation whose calibration is traceable to the National Institute of Standards and Technology. Calibrated in accordance with ANSI-N323-1997 and as manufacturer recommended.

Calibrated by: Andrew J McAleer


AM Calibration verifies all the above before shipping, not responsible for any damages incurred in shipping.

Certificate of Calibration

Meter Owner: Triad Isotopes

A.M. Calibration Services Inc.

Calibration Date: 9/22/14

9620 Medical Center Drive #100

Calibration Due Date: 9/22/15

Rockville, MD 20850

Office: 301-610-6001

Fax: 301-517-3654

AM Calibration Radioactive Material License: MD-31-206-01

amcalibration@aol.com

Inspection Item: Ludlum 177 #49418

Batteries Changed: no

Internal Adjustment: no

RANGE	Scale Reading	True Readings	CF
X100	410,000	400,000	0.99
	100,000	100,000	
X100	40,000	40,000	1.00
	10,000	10,000	
X10	4,000	4,000	1.00
	1,000	1,000	
X1	400	400	1.00
	100	100	

The relative response for Cs137 was determined to be 12.0% using the 44-9 #037319.

The relative response for Cs137 was determined to be 7.0% using the 44-25 #150332.

The relative response for Check Source was determined to be N/A cpm using the 44-9/44-25.

Instrument described above was calibrated electronically (pulsing method), and compared with instrumentation whose calibration is traceable to the National Institute of Standards and Technology. Calibrated in accordance with ANSI-N323-1997 and as manufacturer recommended.

Calibrated by: Andrew J McAleer

AM Calibration verifies all the above before shipping, not responsible for any damages incurred in shipping.

Attachment D
NRC Form 314 Certificate of Disposition of Materials



CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submission 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 P53), 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, NEGB-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 Triad Isotopes, Inc. 4205 Vineland Road, Suite L1 Orlando, FL 32811	LICENSE NUMBER 09-31406-01MD	DOCKET NUMBER 585109
	LICENSE EXPIRATION DATE May 31, 2017	

A. LICENSE STATUS (Check the appropriate box)

- This license has expired. 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:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 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:
 - a. Transfer of radioactive materials to the licensee listed below:
 - b. Disposal of radioactive materials:
 - 1. Directly by the licensee:
Decay-in-storage
 - 2. By licensed disposal site:
 - 3. By waste contractor:
Bionomics, P.O.Box 817, Kingston, TN 37763 (865) 220-8501
 - 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

- 1. A radiation survey was conducted by the licensee. The survey confirms:
 - a. the absence of licensed radioactive materials
 - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
 - a. is attached; or b. is not attached (Provide explanation): or c. was forwarded to NRC on: _____ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
 - a. The results of the latest leak test are attached; and/or
 - 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
Craig Kinne	Corporate Radiation Safety Officer	(407) 257-8998	ckinne@triadisotopes.com

Mail all future correspondence regarding this license to:

4205 Vineland Road, Suite L1, Orlando, FL 32811

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE James A. Wilkinson, SVP/General Counsel	SIGNATURE 	DATE 7/19/15
---	---------------	-----------------

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.

Attachment E
Confirmation of Receipt of Low Level Waste and Sealed Sources



P.O. Box 817 – Kingston, TN 37763 – (865) 220-8501

July 14, 2015

Receipt Acknowledgement

Neil Stubbs
Triad Isotopes, Inc.
180 Pepes Farm Road
Milford, CT 06460

Dear Neil Stubbs:

As required by 10 CFR Part 20 (Appendix G), this letter is notification that EnergySolutions (formerly Duratek) has received the shipment recently picked up at your facility on **June 17, 2015**.

Attached you will find a copy of your NRC Form 540, the only change from the original is in Item No. 9 "signature" which identifies that EnergySolutions is acknowledging receipt of waste from your facility.

Please keep this with your original, as well as future disposal certifications.

If you have any questions please feel free to contact me at (865) 220-8501.

Sincerely,

D. Agana

Denise Agana
Shipping/Transportation

Cc: File 2015-11
Manifest# TI061715

Estimated burden per response to comply with this information collection request 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimates to the Records and FOIA/Privacy Services Branch (T-6 FRD), U.S. Nuclear Regulatory Commission, Washington, DC 20555-3891, or by Internet e-mail to infocoll@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOS-10202, (2150-0184), Office of Management and Budget, Washington, DC 20503. If a message used to improve an information collection does not display a currently valid DMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

FORM 540 EnergySolutions, Bear Creek Processing Operations UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		6. SHIPPER - NAME AND FACILITY Triad Isotopes, Inc. 140 Poplar Farm Road Middletown, CT 06460		SHIPMENT ID NUMBER T061715 COLLECTOR PROCESSOR		7. FORM 540 AND 640A FORM 541 AND 641A FORM 542 AND 642A ADDITIONAL INFORMATION		PAGE 1 OF 1 PAGE(S) 1 PAGE(S) NONE PAGE(S) NONE PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) T061715							
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (866) 220-6520		USER PERMIT NUMBER		SHIPMENT NUMBER T061715		X GENERATOR TYPE (If applicable) 1		9. CONSIGNEE - Name and Facility Address EnergySolutions, Bear Creek Processing Operations Operated By EnergySolutions 1699 Bear Creek Road Oak Ridge, TN 37830		CONTACT Fred Schulz TELEPHONE NUMBER (Include Area Code) (662) 481-0222							
ORGANIZATION Bionorica, Inc. Attn: Emergency Duty Officer		CONTACT Neil Stubbs		TELEPHONE NUMBER (Include Area Code) (418) 705-1350		EPA ID NUMBER TN0602118493		SIGNATURE (Authorized representative of shipper) <i>[Signature]</i>		DATE 7/16/15							
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 3		5. CARRIER - Name and Address Bionorica, Inc. 1650 Bear Creek Road Oak Ridge, TN 37830		EPA ID NUMBER TN0602118493		SHIPPING DATE 06/17/2015		18. CERTIFICATION This is to certify that the herein-stated 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 in proper condition for transportation and disposal in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.							
4. DOES EPA REGULATED WASTE REQUIRE A MANIFEST ACCOMPANY THIS SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "Yes", provide Manifest Number		EPA MANIFEST NUMBER N/A		CONTACT John McCormick SIGNATURE - Authorized carrier acknowledging waste receipt <i>[Signature]</i>		TELEPHONE NUMBER (Include Area Code) 865-220-8501		DATE 6-17-15		AUTHORIZED SIGNATURE <i>[Signature]</i> TITLE Safety Specialist DATE 6/17/2015							
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		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. U.S. DOT CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
Non-Radioactive per DOT METAL, DRY 1 - 0.13 MG FIBER BOX		NA		NA		SOLID/OXIDES		EJ-164		2.0500E-02 (5.82185E-04)		NA		4.58 g ³ 48.99 lb 22		TI-02 (15-000973)	
Non-Radioactive per DOT LEAD 1 - 5 GAL PLASTIC PAIL		NA		NA		SOLID/OXIDES		EJ-164		4.0000E-05 (1.08111E-04)		NA		0.71 g ³ 26.99 lb 22		TI-03 (15-000975)	
Non-Radioactive per DOT GLASS 1 - 5 GAL PLASTIC PAIL		NA		NA		SOLID/OXIDES		TC-99		2.0000E-04 (5.4064E-06)		NA		0.71 g ³ 4.80 lb 4		TI-04 (16-000970)	
FOR CONSIGNEE USE ONLY Transporter "License For Delivery" No. _____ South Carolina Transport Permit No. _____ US Ecology Generator No. _____ US Ecology Permit No. _____				20. Generator Certification Statement a) Radioactive Materials. Certification to transfer waste that this shipment of low-level radioactive waste has been prepared in accordance with a radioactive waste management program which has been approved by the Nuclear Regulatory Commission or an Agreement State regulatory agency and with the current edition of the site Material Acceptance Criteria. b) Hazardous Materials. Generator hereby certifies that (1) this waste does not contain a hazardous waste as defined in 40 CFR 301 and (2) this waste is in accordance with all applicable governmental laws, rules, regulations and state or other Federal Licenses. c) Data. Generator hereby represents and warrants that all data and facts in this (UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST) are true and correct to the best of its knowledge and belief. d) INSTRUCTIONS SUSTAINABLE. Generator hereby certifies that this material does not contain an infectious substance as defined in 49 CFR 173.134.													



P.O. Box 817 – Kingston, TN 37763 – (865) 220-8501

June 19, 2015

NEIL STUBBS

TRIAD ISOTOPES, INC.
180 PEPES FARM RD.
MILFORD, CT 064660

Dear Mr. Stubbs,

As required by 10 CFR Part 20 (Appendix G), this letter is notification that Bionomics, Inc. has received the shipment recently picked up at your facility on **June 17, 2015**.

Attached you will find a copy of your NRC Form 540, the only change from the original is in Item No.9 "signature" which identifies that Bionomics, Inc. is acknowledging receipt of waste from your facility.

Please keep this with your original, as well as future disposal certifications.

If you have any questions please feel free to contact me at (865) 220-8501.

Sincerely,

A handwritten signature in cursive script that reads 'Paul Nipper'.

Paul Nipper
QA Manager

Cc: File BIO-06-15

Estimated burden per response to comply with this information collection request, 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimates to the Records and FOIA/Privacy Services Branch (7-6 FS), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet e-mail to: info@nrc.gov and to the Desk Officer, Office of Information and Regulatory Affairs, NE-05, 10202, (3150-0154), 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.

FORM 540 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		Bionomics, Inc.		5. SHIPPER - NAME AND FACILITY Bionomics, Inc. on Behalf of Triad Isotopes, Inc 180 Peoples Farm Road Miford, CT 06460		SHIPMENT ID NUMBER T181715SS		7. FORM 540 AND 540A FORM 541 AND 541A FORM 542 AND 542A ADDITIONAL INFORMATION		PAGE 1 OF 1 PAGE(S) 1 PAGE(S) NONE PAGE(S) NONE PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) T181715SS					
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) (865) 220-8520				USER PERMIT NUMBER		SHIPMENT NUMBER T181715SS		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) 1		9. CONSIGNEE - Name and Facility Address Bionomics, Inc. Operated By Bionomics, Inc. 1550 Bear Creek Road Oak Ridge, TN 37830							
ORGANIZATION Bionomics, Inc.				CONTACT Ned Slubbs		TELEPHONE NUMBER (Include Area Code) (419) 705-1359		SIGNATURE - Authorized consignee acknowledging waste receipt <i>Paul Nipper</i>		CONTACT John McCormack TELEPHONE NUMBER (Include Area Code) (865) 220-8501 DATE 6/19/15							
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 Bionomics, Inc. 1550 Bear Creek Road Oak Ridge, TN 37830 Truck #: <i>B10-81</i> Trailer #:		EPA I.D. NUMBER TND982118493		SHIPPING DATE 06/17/2015		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 in proper condition for transportation and disposal in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulation.							
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If "Yes", provide Manifest Number		EPA MANIFEST NUMBER N/A		CONTACT John McCormack		TELEPHONE NUMBER (Include Area Code) 865-220-8501		DATE <i>6-17-15</i>		AUTHORIZED SIGNATURE <i>Paul Nipper</i>		TITLE <i>Tech</i> DATE <i>6-17-15</i>					
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		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIOISOTOPES		16. TOTAL PACKAGE ACTIVITY MBq mCi		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
UN2815, RADIOACTIVE MATERIAL, TYPE A PACKAGE NON-SPECIAL FORM 7 SEALED SOURCES 1 - 30 GAL METAL DRUM		White I		NA		SOLIDOXIDES		BA-133, CO-57, CS-137, EU-152, EU-154		1.0008E+01 (2.7048E-01)		N/A		4.01 m ³ 400.00 lb		T1-01 (15-000974)	
FOR CONSIGNEE USE ONLY <i>BIO-06-15</i>				<ul style="list-style-type: none"> <input type="checkbox"/> Record Waste Description Inadequate <input type="checkbox"/> Contamination or Leakage Detected <input type="checkbox"/> Unexpected Exposure Rates Detected <input type="checkbox"/> Labels, Markings, etc. Inadequate <input type="checkbox"/> Container Integrity Inadequate <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Violations Detected on this Shipment 				20. TERMS AND CONDITIONS A. HAZARDOUS MATERIALS: Generator represents & warrants that Waste Material is for use in the hazardous waste as defined in 40 CFR 261. Where the material is a hazardous waste, this shipment is also accompanied by a separate and completed hazardous waste manifest, along with the appropriate land-disposal restriction notice when certification is required by 40 CFR 268.1. B. TITLE: Upon acceptance of the disposed site by EnergySolutions, Inc. and all appropriate regulatory authorities, title to the Waste Material which conveys to Generator's representatives herein shall terminate and be vested in EnergySolutions, Inc. C. WASTE MATERIAL: Generator represents and warrants that all data set forth in this UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST are true and correct in all respects and in accordance with all applicable governmental laws, rules, and regulations and Enforcers of Utah, Inc.'s facility license. D. INDEMNIFICATION: Generator agrees to indemnify EnergySolutions, Inc., its officers, employees, and agents against all losses and liability whatsoever if such losses or liability results from the failure of the Waste Material to maintain in all material respects to the data supplied on the UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST, or if this shipment fails to meet the standards prescribed by the Department of Transportation or any governmental agency having jurisdiction over such matters.									

Estimated burden per response to comply with this information collection request: 3.3 hours. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F57), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to: infocollections@nrc.gov and to the Desk Officer, Office of Information and Regulatory Affairs, NE OS 10202 (3150-0166), 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.

FORM 541		Bionomics, Inc.		1. MANIFEST TOTALS										2. MANIFEST NUMBER			
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION				NUMBER OF PACKAGES/ DISPOSAL CONTAINERS		NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams)				T017155S			
				U-233		U-235		Pu		TOTAL		3. PAGE 1 OF 1 PAGE(S)					
				4. SHIPPER NAME													
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste				1		m ³ 0.1136 ft ³ 4.0100		kg 181.44 lbm 0.20		NP		NP		NP		Bionomics, Inc. on Behalf of Triad Isotopes, Inc.	
				ACTIVITY (MBq/mCi) (LLD UNITS IN uCi/cc)		SOURCE		SHIPMENT ID NUMBER		T017155S							
DISPOSAL CONTAINER DESCRIPTION				WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										18. WASTE CLASSIFICATION			
5. CONTAINER IDENTIFICATION NUMBER	6. CONTAINER DESCRIPTION (See Note 1 & 1A)	7. VOLUME m ³ ft ³	8. WASTE AND CONTAINER WEIGHT kg lbm	9. SURFACE RADIATION LEVEL mSv/hr mm/mhr	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)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT	15. WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				18. WASTE CLASSIFICATION AS - Class A Stable AU - Class A Unstable B - Class B C - Class C	
					ALPHA	BETA-GAMMA						RADIONUCLIDES	pCi/gm	MBq	mCi		
15-000974 (T-01)	A	0.1136 4.0100	181.44 0.20	4.7 470	< 0.00000334 < 20	< 0.0000197 < 1000	H 36	0.1136 4.0100	100	SOLID OXIDES / NP	NP	SA-133 CO-57 CS-137 EU-152 EU-154 Sub Total	2.664E+01 2.4801E+02 1.2118E+03 2.0655E+00 2.383E+00 1.490E+03	1.7900E-01 1.6649E+00 4.1339E+00 1.4000E-02 1.6000E-02 1.000E+01	4.837E-03 4.4997E-02 2.1964E-01 3.7638E-04 4.3243E-04 2.7048E-01	AJ	
Package Total													1.490E+03	1.000E+01	2.7048E-01		
Shipments Total														1.000E+01	2.7048E-01		

NOTE 1: Container Description Codes. For containers/forms requiring disposal in approved structural overpacks, the numerical code must be followed by "OP".

1. Wooden Box or Crate	8. Drum/Drumliner
2. Metal Box	9. Gas Cylinder
3. Plastic Drum or Pail	10. Bulk Unpackaged Waste
4. Metal Drum or Pail	11. Unpackaged Compressed Gas
5. Metal Tank or Liner	12. 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: Bulk Packaging Description Codes. (Choose one code as may be applicable)

A. General
B. Intermediate
C. End-Use
D. Radioactive
E. Special

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominantly describe)

20. Chloride	29. Oxidizers/Reducers	38. Proprietary Solids/Slurries/Emulsions
21. Inorganic Aas	30. Carbon Inorganic Media	39. Composites/Trash
22. Salt	31. Arsenic Inorganic Media	40. Miscellaneous Trash
23. Gas	32. Mixed Solid Inorganic Media	41. Animal Carcass
24. Oil	33. Carbonaceous Equipment	42. Biological Material (except animal carcasses)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Fiber Media	35. Other - Describe in Item 6, or additional page	44. 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 3A: Specific Waste Descriptions. (Choose all applicable codes.)

G. Dechlorinated
H. Solid
I. Combustible
J. Non-combustible
K. Air Filtration Filter
L. Activated

NOTE 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting 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 19=Other Required

50. Cement	54. Vinyl Ester Systems
51. Concrete (not precast)	55. Other - Describe in Item 13, or additional page
52. Bitumen	56. None Required
53. Vinyl Chloride	

Form 541 (10-96) * - Indicates Cross Contamination

Insert shipping document here.

Page 1 of 1

Extremely Urgent

ORIGIN ID:ORLA (407) 257-8998
CRAIG S. KINNE
TRIAD ISOTOPES INC
182 S THORNTON AVE

SHIP DATE: 31JUL15
ACTWGT: 0.50 LB
CAD: 101637593/NET3670

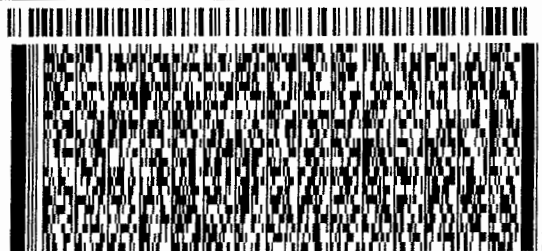
ORLANDO, FL 32801
UNITED STATES US

BILL SENDER

TO NUCLEAR MATERIALS SAFETY BRANCH
US NUCLEAR REGULATORY COMMISSION
2100 RENAISSANCE BLVD
SUITE 100
KING OF PRUSSIA PA 19406

539J3Y1A1531D0

(610) 337-5182 REF
INV. DEPT
PO:



FedEx
Express



J152015852661ur

TUE - 04 AUG 10:30A
MORNING 2DAY

TRK# 7741 8693 2683
0201

SB KPDA

19406
PA-US PHL



RT 329
ST 18

4
10:30 B
2683
08.04



This is to acknowledge the receipt of your letter application dated

7-30-15, and to inform you that the initial processing which includes an administrative review has been performed.

Term: 09-31406-01MD
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 588620
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R1)
(6-96)

Sincerely,
Licensing Assistance Team Leader