



06-06697-02
030 01265

tara.weidner@nrc.gov

Received: Jun 16, 2017 11:52 AM
Expires: Jun 30, 2017 11:52 AM
From: sbull1@stamhealth.org
To: tara.weidner@nrc.gov
Cc:
Subject: Mill River

Attachments: wipe tests and inventory.pdf, image001.jpg, CO 57.pdf

This message was sent securely using ZixCorp.

Hi Tara-

Sorry it has taken me so long to get back to you . . . Two weeks ago I resigned effective July 11th and it has been crazy busy since.

In response to your Mill River questions . . .

- Attached is the paperwork for sending back the Cobalt flood source -- December 2016
- Also attached is the last wipe test and inventory done at Mill River prior to the sources being moved (12/2/16)
- Finally attached is a current wipe test and inventory done at the new hospital (6/6/16)

The sources were moved by Cardinal health.

Have I missed anything?

All the best /Sarah

Sarah Bull Chief Physicist, RSO

Bennett Cancer Center/ Stamford Hospital /One Hospital Plaza /Stamford/ CT/ 06904

O: (203) 276-4036 /C: (203) 417-3995

SBULL1@StamHealth.org

This message was secured by ZixCorp^(R).

Stamford Hospital

Secured by ZixCorp

REC'D IN LAT 07/07/2017

594715
NNSC/RGNI MATERIALS-C02



SEALED SOURCE INVENTORY

Location: STAMFORD HOSPITAL CARDIOLOGY
80 MILL RIVER ST
STAMFORD CT
NUCLEAR CARDIOLOGY

Test Date/Time: 09/09/2016 12:33

Next Due: 12/8/16

Source Inventory:

Type	Mfgr	Calib. date	Serial number	Source location	Verified by:
Description		Nominal	Current act.		
Model number		Activity	Last leak test date		
Ba-133	IPL	7/1/03	970-83-2	HOT LAB	<u>RB</u>
Vial Reference Srce		261.80	111.03 uCi 12/7/15		
Co-57	ECKERT & ZIEGLER	11/1/15	1833-075	MILL RIVER CARDIAC	<u>RB</u>
Flood Field Source		10.00	4.49 mCi 12/7/15		
PF16R-057-10M					
Cs-137	IPL	6/1/03	986-5-11	HOT LAB	<u>RB</u>
Vial Reference Srce		202.20	149.05 uCi 12/7/15		
Cs-137	IPL	3/1/03	849-33-22	HOT LAB	<u>RB</u>
Rod Source		500.00	0.37 uCi 12/7/15		

Comments and Recommendations:

Performed by: DANIEL TWENEBOAH

Radiation safety officer:

Selected Wipes

	Net Counting Rate		Net Activity	
MR Cs-137 Rod Source 849-33-22		2016/12/02 11:00	60 sec	Trigger: 5.00 nCi
Background		483.0 cpm		
Full Spectrum	40.00 cpm		0.028nCi	
MR BA-133 Vial 970-83-2		2016/12/02 10:58	60 sec	Trigger: 5.00 nCi
Background		483.0 cpm		
Full Spectrum	-4.000 cpm		0.000nCi	
MR CS-137 Vial 986-5-11		2016/12/02 10:56	60 sec	Trigger: 5.00 nCi
Background		483.0 cpm		
Full Spectrum	125.0 cpm		0.087nCi	

Source master

Isotope	Source type	Calib. activity	Calib. date	Serial number	Model no./manufacturer
STAMFORD HOSPITAL					
Ba-133 HOT LAB	Vial Reference Srce	261.8	uCi 7/1/03	970-83-2	IPL
Co-57 HOT LAB	Flood Field Source	15	mCi 10/1/16	1906-156	SPL24R-057-15M CARDINAL HEALTH
Co-57 HOT LAB	Vial Reference Srce	5.578	mCi 12/1/16	1896-13-9	SRV-057-5M CARDINAL & ECKERT
Cs-137 HOT LAB	Vial Reference Srce	211.8	uCi 6/1/16	1869-44-19	RV-137-200U ECKERT & ZIEGLER
Cs-137 HOT LAB	Rod Source	500	nCi 7/1/16	1848-9-34	IPL
Cs-137 HOT LAB	Vial Reference Srce	202.2	uCi 6/1/03	986-5-11	IPL

Today's Wipes

	Net Counting Rate	Net Activity
MR BA-133 Vial 970-83-2 Background Full Spectrum	2016/06/06 14:29 534.0 cpm -7.000 cpm	60 sec Trigger: 5.00 nCi 0.000nCi
MR Co-57 flood source 1833-075 Background Full Spectrum	2016/06/06 14:39 534.0 cpm 39.00 cpm	60 sec Trigger: 5.00 nCi 0.027nCi
MR Cs-137 Rod Source 849-33-22 Background Full Spectrum	2016/06/06 14:34 534.0 cpm 7.000 cpm	60 sec Trigger: 5.00 nCi 0.005nCi
MR CS-137 Vial 986-5-11 Background Full Spectrum	2016/06/06 14:22 534.0 cpm 1.000 cpm	60 sec Trigger: 5.00 nCi 0.001nCi

Disposal Form #



RADIOACTIVE MATERIAL EXCEPTED PACKAGE

Tracking # 8047 4048 5581
Date 12-2-16

2016 DG Checklist

The continued offering of non-compliant dangerous goods packages may result in the embargo of your dangerous goods shipments by FedEx Express.

DIRECTIONS: Mark the appropriate box for each item to indicate if the shipment complies with the requirement.

Radioactive Material, Excepted Package (UN 2908, UN 2909, UN 2910, or UN 2911)

- 1. DG shipment acceptable to destination location. [SRG] N
 - 2. **Package** in good condition and free of leakage, odor, or external damage. [5.0.2.4.1] N
 - 3. **023 air waybill:** UN Number, Proper Shipping Name, and number of packages in Nature and Quantity of Goods box. [10.8.8.3.3] Y N N/A
 - 4. **Shipper and Consignee name and full address** marked on package. [10.7.1.3.2] N
 - 5. Correctly completed **Radioactive Material, Excepted Package label** (UN2908, UN2909, UN2910, or UN2911) on package. [10.7.4.4.3.1] Y N
 - 6. **Gross weight** (in metric units) marked on package if it exceeds **50kg** (110lb). [10.7.1.3.2] Y N N/A
 - 7. **Package contains Dry Ice**, all appropriate marking, labeling, and documentation requirements met. [PI 954; 7.1.4.1(d); 10.7.1.3.2; 8.2.3] Y N N/A
 - 8. **Markings and label(s)** meeting IATA specifications, correctly applied (not obscured or covering required markings); irrelevant markings/labels removed or obliterated. [10.7.1.1; 10.7.2.1; 10.7.4.1] N *Photo Taken*
 - 9. Complies with all other applicable **State and Operator variations**. [2.8] N
- If RQ, there must be a shipper's declaration with the following information.** N N/A
- Tracking number may be completed by Shipper or DG Specialist. Shipper must provide 3 copies in English and at least 2 copies with red hatchings. [FX-14]
- 10. **Shipper and Consignee name and full address** on declaration. For 023 shipments, shipper's address includes country name. [10.8.3.1; 10.8.3.2] N
 - 11. **Typewritten or computer-generated**. Some fields may be handwritten. [FX-12] N
 - 12. **Page of Pages**. [10.8.3.4] N
 - 13. **Radioactive** correctly indicated. [10.8.3.8] N
 - 14. **"RQ"** before or after basic description when marked on package. See examples listed below. [USG-04] Y N
 - **RQ UN2910, Radioactive Material, Excepted Package - Limited Quantity of Material, 7**
 - OR
 - **UN2910, Radioactive Material, Excepted Package - Limited Quantity of Radioactive Material, 7, RQ**
 - 15. **UN number** preceded by prefix **"UN"**. [10.8.3.9.1, Step 1] N *2910*

- 16. **Proper Shipping Name**. [10.8.3.9.1, Step 2] N
 - 17. **Class 7**. [10.8.3.9.1, Step 3] Y N
 - 18. If overpack, words **"Overpack Used"** on declaration. [10.8.3.9.2, Step 8] Y N N/A
 - 19. **24-hour emergency response telephone number** if required by State or Operator variation. [2.8] N
 - 20. **Name, title, place, date, and shipper's signature** (may be typewritten for U.S. domestic shipments, including U.S. territories) [10.8.3.13 -15] N
- If RQ, the following must be on package.**
- 21. **"RQ"** marked on package. [USG-04] Y N
 - 22. If overpack, word **"Overpack"** marked on package if all markings and labels not visible. [10.7.1.4.1] Y N N/A

COMMENTS:

If there are any discrepancies indicated, your shipment cannot be transported by FedEx Express. In the U.S., this shipment is returned to the Shipper using DOT-SP 14691. In the U.S., call 1.800.GoFedEx and press "81" then "4" for assistance. For non-U.S. locations, please contact your local Customer Service representative.

Printed or other static representations of this document are considered uncontrolled and for reference only.

ACCEPTED REJECTED

Inspected By _____
Employee# _____
Shipper Contact Name _____
Shipper Contact Phone# _____

RSO cell 203-417-3996 Sarah

B



Eckert & Ziegler
Isotope Products

EMERGENCY RESPONSE INFORMATION

(49 CFR 172.403, 172.600, 602, 604, 173.421)

Returns are only accepted at **1800 North Keystone Street, Burbank, California, 91504** in accordance with Eckert & Ziegler Isotope Products' Radioactive Materials License No. 1509-19. All information must be provided to ensure proper handling of your return.

Complete items 1 and 2:

1. <input checked="" type="checkbox"/> SELECT ONE PROPER SHIPPING & HAZARD CLASS BELOW:
<input checked="" type="checkbox"/> A) UN2910, Class 7, Radioactive Material, Excepted Package, Limited Quantity of Material
<input type="checkbox"/> B) UN2911, Class 7, Radioactive Material, Excepted Package, Instruments or Articles
<input type="checkbox"/> C) UN2915, Class 7, Radioactive Material, Type A Package, Non-special Form, Non-fissile, or Fissile Excepted
<input type="checkbox"/> D) UN3332, Class 7, Radioactive Material, Type A Package, Special Form, Non-fissile, or Fissile Excepted
<input type="checkbox"/> E) Other: UN _____,
2. WRITE SHIPPER'S 24 HOUR EMERGENCY RESPONSE TELEPHONE No.: <u>203-276-7666</u>
3. IMMEDIATE HAZARDS TO HEALTH: No significant hazards.
4. RISKS OF FIRE OR EXPLOSION: None
5. IMMEDIATE PRECAUTIONS: Keep non-essential people away from area; notify radiation safety authorities.
6. EMERGENCY FIRE MEASURES: Self-contained breathing apparatus and firefighters' protective gear should be used.
7. FIRST AID: Use standard first aid measures as required. Advise medical personnel that victim may be contaminated.

Supplemental Instructions

EZIP Return Kit instructions are designed for the return of EZIP products only. For non-EZIP product returns, verify that the activity limits have not been exceeded in accordance with 49 CFR 173.425. If you are returning liquid radioactive materials, contact EZIP for additional instructions. These require special pressurized bags.

IT IS THE CERTIFIED SHIPPER'S RESPONSIBILITY TO CONFORM WITH ALL REQUIRED D.O.T. REGULATIONS AND TO ASSURE THAT THE SOURCES RETURNED TO EZIP ARE PROPERLY PACKAGED AND LABELED. THE MATERIALS AND RETURN INSTRUCTIONS EZIP PROVIDES IN NO WAY ALTER, SATISFY, OR INFLUENCE ANY FEDERAL OR STATE REQUIREMENTS. EZIP PROVIDES THESE MATERIALS AS A SERVICE TO ASSIST PROPERLY TRAINED SHIPPERS. EZIP SHALL NOT BE HELD RESPONSIBLE FOR ANY LOSS, INJURY, AND/OR DAMAGE CAUSED BY ERRORS, OMISSIONS, MISPRINTS, OR MISINTERPRETATIONS OF THE CONTENTS OF THIS DOCUMENT FOR ANY UNAUTHORIZED OR INAPPROPRIATE USE.

Proper training is required under federal regulations to handle dangerous goods and/or hazardous materials. All persons and entities must comply with all federal regulations, including but not limited to the specific training requirements of 49 CFR 172.700 – 172.704. The user of these materials assumes responsibility for complying with all applicable laws and regulations regarding the shipment of Dangerous or Hazardous Materials.

24/7 call RSO 203-417-3996



RETURN PACKING LIST / DISPOSAL RECEIPT

All information must be provided to ensure proper handling of your return

FROM:

Company Name Stamford Health
 Address 80 Mill River
 City Stamford State CT ZIP 06902
 RSO / Contact Name Sarah Bull
 Telephone 203-276-4036 Fax 203-276-7885
 Email SBULL1@STAMHEALTH.ORG

SEND TO:

 **Eckert & Ziegler**
 Isotope Products
Attention: Receiving
1800 North Keystone Street
Burbank, CA 91504
 Telephone - (661) 309-1010
 Fax - (661) 257-8303
 Email: nucmedsales@ezag.com

Record Your FedEx Tracking #
 From Your Air Waybill: 8047-40485581

STOP: Original Sheet B must be affixed to the OUTSIDE and a copy of the Return Packing List (this page) placed inside of the package. Each returned source to EZIP must be on a one-to-one exchange basis only. For additional returns, please contact EZIP customer service for additional cost considerations.

RETURN # RA-

Write RA# on outside of box or use provided Return Authorization Label.
 EZIP does not accept returns through the US Postal Service.

Catalog Model#	Source Serial #	Nuclide	Original Activity	Reference Date	Source Wipe Test < 5nCi
1) <u>PF16R-057^{10m}</u>	<u>1833075</u>	<u>Co-57</u>	<u>10mCi</u>	<u>11-1-15</u>	Note: No leak test report required unless damaged. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2) _____	_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
3) _____	_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
4) _____	_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No

*If source is damaged or contaminated, describe condition below and submit a copy of the last leak test.

Keep a copy of this form for your records. It may be requested by your regulatory agency.
 I acknowledge that the above information is true to the best of my knowledge.

Print Name & Sign: Sarah Bull, RSO, DABR 

FOR EZIP USE ONLY

EZIP has received the radioactive sources listed above, except as noted below

Receiver's Name:

Receipt Date:

Sources not received:

N/A

JSDA1

FedEx Tracking Number

8047 4048 5581

Form ID No. **0215**

ETC/FPC/49

1 From Please print and press hard.

Date 12/2/16 Sender's FedEx Account Number 3672-8330-0
 Sender's Name Sara Bull Phone (203) 276-4036
 Company STAMFORD HOSPITAL
 Address 142 W BROAD ST
 City STAMFORD State CT ZIP 06902-3696

2 Your Internal Billing Reference

First 24 characters will appear on invoice.

3 To Recipient's Name Eckart + Ziegler Phone 661,309-1010
 Company Eckart + Ziegler (Receiving)
 Address 1800 North keystone Street
 Address Burbank CA
 City Burbank State CA ZIP 91504

HOLD Weekday
 FedEx location address
 REQUIRED for FedEx First Overnight.

HOLD Saturday
 FedEx location address
 REQUIRED for FedEx Priority Overnight and
 FedEx 2Day to select locations.

4 Express Package Service

* To most locations. NOTE: Service and rates changed. Please select carefully.

Packages up to 150 lbs.
 For packages over 80 lbs., use the new FedEx Express Freight US Airbill.

- FedEx First Overnight**
 Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Priority Overnight**
 Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight**
 Next business afternoon.* Saturday Delivery NOT available.
- FedEx 2Day A.M.**
 Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day**
 Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver**
 Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500.

- FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery**
 NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- No Signature Required**
 Packages may be left without obtaining a signature for delivery.
- Direct Signature**
 Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature**
 If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.
- Does this shipment contain dangerous goods?**
 (See how to mark the checklist.)
- No Yes As per attached Shipper's Declaration. Yes Shipper's Declaration not required. Dry Ice Dry Ice, UN 1845 _____ x _____ kg
- Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. Cargo Aircraft Only

7 Payment Bill to:

- Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check
- FedEx Acct. No. Credit Card No. Exp. Date

Total Packages _____ Total Weight _____ Total Declared Value¹ _____

¹Our liability is limited to US\$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.



Get transit times. Schedule pickups. Create labels. Go to fedex.com.

611

**Radioactive Material Exempt Quantities
(per U.S. NRC & State Regulations)**

The radioactive material contained in this package conforms to the conditions and limitations specified in the following regulations:

- 49 CFR 173.421
- 10 CFR 30
- 10 CFR 30.71, Schedule B Exempt Quantities
- BS EN ISO 2919:2014 (replaces BS 5288/C11111)

The radioactive material contained in this package is exempt from U.S. NRC and/or Agreement State licensing requirements.

The radiation exposure rate at any point on the external surface of this package does not exceed 0.5 millirem per hour.

General Rules for Handling Radioactive Material

The quantities of radioactive material contained in these products is extremely small and present no known radiation hazard. However, it is always a good practice to minimize exposure by following the basic health physics principle of ALARA (As Low As Reasonably Achievable) and use time, distance, and shielding when handling these sources.

Radioactive Material — Not for human use — introduction into foods, beverages, cosmetics, drugs, or medicinals, or into products manufactured for commercial distribution is prohibited — Exempt Quantities Should Not be Combined.

Solid, sealed exempt quantity sources require no special handling instructions. However, when working with liquid sources, gloves and laboratory coats are recommended.

Eating, drinking and smoking should be prohibited in areas where radioactive materials are used and/or stored.

Do not expose the source(s) to harsh chemicals or extreme temperature changes.

Radioactive materials should only be used by, or under the supervision of a responsible person in authorized areas.

All radioactive material should be securely stored when not in use.

Solid, sealed exempt quantity sources may be disposed of in regular waste providing all radiation symbols and other identifying marks have been removed or defaced.

It is recommended that liquid exempt quantity sources be disposed of into the public sewer system (making sure the material is diluted with large volumes of water).

Manufactured and Distributed by:

SPECTRUM TECHNIQUES LLC
 106 Union Valley Road
 Oak Ridge, Tennessee 37830 USA
 Tel: 865-482-9937
 Fax: 865-483-0473
 E-mail: sales@spectrumtechniques.com
 Web Site: www.spectrumtechniques.com

**UN2910 Radioactive Material Limited Quantity
(per U.S. DOT & ICAO (IATA) Regulations)**

This package conforms to the conditions and limitations specified in the following shipping regulations:

- U.S. DOT CFR 49 parts 100—185
- Postal Publication No. 52
- IAEA number TS-R-1, "International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources"
- IATA Dangerous Goods Regulations; Section 4.2 - "UN2910 Radioactive material, excepted package, limited quantity of material" Class 7, and Section 10.3.11.1.2 - Radioactive Material in Limited Quantities.

The radiation exposure rate at any point on the external surface of this package does not exceed 0.5 millirem per hour.

Both the package and shippers declaration are labeled UN2910. No other hazard labeling or shippers declarations are required or authorized.

This package contains less than the DOT, IAEA and IATA limits for exempt quantity radioactive material and UN2910 "Radioactive material, excepted package, limited quantity of material."

Radioactive Material Exempt Quantities

This package may contain one or more of the following isotopes (for contents in this package see enclosed invoice or packing list):

Isotopes	DOMESTIC	INTERNATIONAL
	NRC Limit — Maximum Activity per Source (µCi)	IAEA Limit — Maximum Activity per Source (µCi)
Ba 133	10	10
C 14	100	10
Cd 109	10	10
Co 57	100	27
Co 60	1	1
Cs 137	10	0.27
Eu 152	1	1
Eu 154	1	1
Eu 155	10	1
Fe 55	100	27
I 125	1	1.0
I 129	0.1	0.1
Mn 54	10	10
Na 22	10	10
Pb 210	0.1	0.1
Po 210	0.1	0.1
Sr 90	0.1	0.1
Tl 204	10	0.27
Zn 65	10	10

Does not qualify

does not qualify



Eckert & Ziegler
Isotope Products

Medical Imaging Laboratory
24937 Avenue Tibbitts Valencia, California 91355
Tel 661-309-1010 Fax 661-257-8303

Industrial Gauging and Medical Imaging Laboratory
1800 North Keystone Street Burbank, California 91504
Tel 661-309-1010 Fax 661-257-8303

NOMINAL SOURCE CERTIFICATE

Model Number: PF16R-057-10M
 Quantity: 1
 Capsule Type: EZIP drawing #3515
 Active Region: 406 mm x 267 mm (16.0" x 10.5")
 Type of Active Element: Co-57 dispersed in resin matrix
 Cover: Vinyl backed nylon
 Backing: Vinyl-backed nylon
 Nuclide Half Life: 271.79 ± 0.09 days
 SS&DR Number: CA0406S180S
 ISO Classification: ISO/99/C22414
 Special Form Number: Not applicable
 Recommended Replacement Date: 1-May-17

Returned to Eckert + Ziegler 12/2/16

Nuclide	Serial Number	Activity		Reference Date
Co-57	1833-075	10 mCi	370 MBq	1-Nov-15

Source Field Uniformity Measurement:

Source uniformity measurement of the 122/136 keV gamma emission was performed using a gamma camera scanning system. An array of "unit cells" was measured to calculate the uniformity data shown below.

Unit Cell Area:	0.91 cm ²	Integral Non-Uniformity (INU):	1.47%
Coefficient of Variation:	0.56%	Differential Non-Uniformity (DNU):	1.35%

Impurities: Co-56 and Co-58 combined is < 0.12% on 1-Nov-15

Leak Test Information is on the Reverse Side.

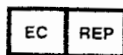
- Remarks:
- This document uses the numerical convention where 1.000 = 1 and 1,000 = 10³.
 - Nuclear data were taken from IAEA-TECDOC-619, 1991.
 - U.S. Patent #7,233,012
 - Coefficient of Variation: The standard deviation of the distribution of the measured values by the mean of measured values.
 - Integral Non-Uniformity: (Max - Min)/(Max + Min), where Max represents the largest measurement and Min represents the smallest measurement in the useful region.
 - Differential Non-Uniformity: (Max - Min)/(Max + Min) represents the largest deviation between a central value and the eight surrounding measurements.

Valueda Daxi
Signature

24-Sep-15
Date

Lab Book-Page: 1803-12

ISO 13485 CERTIFIED



Authorized Representative

Eckert & Ziegler Nuclitec GmbH Gieselweg 1 38110 Braunschweig Germany
 Tel: +49 (0) 5307 9320 Fax: +49 (0) 5307 932 293



JSDA1

FedEx Tracking Number

8047 4048 5581

Form ID No. 0215

1 From Please print and press hard.

Date 12/2/16 Sender's FedEx Account Number 5872-8330-0
 Sender's Name Sara Bull Phone 203, 276-4036
 Company STAMFORD HOSPITAL
 Address 142 W BROAD ST
 City STAMFORD State CT ZIP 06902-3696

2 Your Internal Billing Reference
 First 24 characters will appear on invoice.

3 To Recipient's Name Eckart & Ziegler Phone 661, 309-1010
 Company Eckart & Ziegler (Receiving)
 Address 1800 North Keystone Street
 City Burbank State CA ZIP 91504

HOLD Weekday
 FedEx location address REQUIRED. **NO** for FedEx First Overnight.

HOLD Saturday
 FedEx location address REQUIRED. **NO** for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service *To most locations. NOTE: Service order line changed. Please contact carrier.

Packages up to 150 lbs. For packages over 150 lbs, use the new FedEx Express Freight US Airbill.

FedEx First Overnight
 Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight
 Next business morning. * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight
 Next business afternoon. * Saturday Delivery NOT available.

FedEx 2Day A.M.
 Second business morning. * Saturday Delivery NOT available.

FedEx 2Day
 Second business afternoon. * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver
 Third business day. * Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery
 NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required
 Package may be left without obtaining a signature for delivery.

Direct Signature
 Someone at recipient's address may sign for delivery. For applies.

Indirect Signature
 If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. For applies.

Does this shipment contain dangerous goods?
 (Rate fees apply to states ZONE 4, 5, 6)

No **Yes** As per attached Shipper's Declaration. **Yes** Shipper's Declaration not required. **Dry Ice** Dry ice, 3 UN 1845 _____ x _____ kg
 Cargo Aircraft Only

7 Payment *Bill to:*

Sender Enter FedEx Acct. No. or Credit Card No. below. **Recipient** **Third Party** **Credit Card** **Cash/Check**

Total Packages _____ Total Weight _____ Total Declared Value* _____

Your liability is limited to USD100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

Get more time. Schedule pickups. Create labels. Go to fedex.com.

611

Mill River

Co-57 Flood

SN 1833075

$A_0 = 10 \text{ mCi}$ 11/1/2015

$T = 397 \text{ days}$

Wipes inside canister

19 dpm =
0.0085 nCi

$A_{12/2/16} = A_0 e^{-\lambda t}$
 $= (10 \text{ mCi}) e^{(-\frac{0.693}{271 \text{ days}}) 397 \text{ days}}$
 $= 3.623 \text{ mCi}$

Wipes outside canister

43 dpm =
0.019 nCi

Online cde = 3.6096 mCi

Survey Meter SN 190195 meter
PR 195457 probe

0.4 mR/hr @ surface canister

TOP : 0.15 mR/hr

① LT 0.2 mR/hr
Side: mR/hr

③ LT2 Side: 0.22 mR/hr

Bottom: 0.1 mR/hr

② RT Side: 0.18 mR/hr

④ RT2 Side: 0.2 mR/hr

• FedEx taking source 12/2/16

*White I = ~~DOES~~ ^{ES} not exceed 0.5 mR/hr
measured < 0.5 mR/hr ∴ Exempt

FedEx # 8047 4048 5581