

Date of Delivery/Return: 5-4-23 Customer: A04 By: Janelle Doan

Source Information
Co-57 (<0.8 mCi)
Model: BM01L-10
Serial Number: 20020101
DJM - 02/24/2026

Flood Source Exchange Checklist

- A. Check in New Source at Customer Institution: Serial# NA
1. New Source survey reading at 1 meter: _____ mR/hr.
 2. New Source survey meter reading at surface of package: _____ mR/hr.
 3. Wipe Test Results from new source: _____ net cpm - dpm (circle one)
 4. Wipe Background: _____ cpm Wipe: _____ cpm

- B. Prepare Return Source at Customer Institution:
1. Copy of Sealed Source Calibration Certificate and latest Wipe Test obtained.
 2. Wipe test results from return source: 0 net cpm - dpm (circle one)
 3. Wipe Background: 3676 cpm Wipe: 3584 cpm
 4. Return Source survey meter reading at surface of package: 0.05 mR/hr.
 5. Return Source survey meter reading at 1 meter: 0.03 mR/hr.

- C. Prepare source for return shipment
1. Wipe test: 0 net cpm - dpm (circle one)
 2. Wipe Background: 3676 cpm Wipe: 3584 cpm
 3. Survey: Surface 0.05 mr/hr meter: 0.03 mr/hr
 4. RA# 033991 Serial# BM01L1020020101
 5. Tracking# 6448 7002 7630

6. Completed Return Form
7. Included in plastic pouch
 - a. Return Form (on top)
 - b. NIST certificate
8. Correct labels on return box
9. Copy of Return Form in box
10. Fed Ex/UPS shipping label
11. Box securely sealed with tape

REVIEWED
By Dan Miron at 3:10 pm, Feb 24, 2026

From: [Kim Pici](#)
To: [Nathan Bryant](#)
Subject: [External_Sender] Updated
Date: Friday, February 27, 2026 8:45:49 AM
Attachments: image001.png
BM01L1020020101_Disposal Leak Test.pdf

Hi Nathan- Sorry for the delay ! See below-

Nathan,

Following up on our phone conversation last week, please find the attached leak test results for the disposal of the Co-57 flood source. Please note that since the Cs-137 vial source was less than 100 uCi at the time of disposal, no leak test was performed per 10 CFR 35.67(f)(3).

Please contact me if you have any questions or concerns.

Hopefully, this provides all the information he needs, but please let me know if he requires anything further.

Dan

Daniel J. Miron
Certified Health Physicist®
414.899.2105 mobile
dmiron@mpcphysics.com



Return Acknowledgement

Email

4137 Commerce Circle • Idaho Falls, ID. 83401 • Phone: 208-524-5300 • Toll Free: 800-699-3108 • Fax: 208-524-1411 • Web: www.intisoid.com

To: Hot Shots Marquette
Attn: Janelle Doan
From: _____

By sending this letter, International Isotopes, Inc, NRC license number 11-27680-01, acknowledges the receipt and transfer of possession of the radioactive source(s) described below.

International Isotopes, Inc. received the source(s) at our facility located in Idaho Falls, Idaho.

Isotope	Co-57
Manufacturer	RadQual
Reference Date	2/19/2020
Activity of Exchange	10.0 mCi
SN of Exchange	BM01L1020020101
Date Received	5/9/2023

KO

Signature

F162 D Return Acknowledgement

5/17/2023 2:47 pm

[Back \(/companies/return-acknowledgements/5246\)](/companies/return-acknowledgements/5246)

**Receiving**

Eckert & Ziegler Isotope Products Ltd.
1800 N Keystone St.
Burbank, California 91504
United States

Telephone +1-661-309-1010
Fax +1-661-257-8303

Shipped From:

Hot Shots NM
Janelle Doan 517 667 0623
jdoan@radiopharmacy.com
3145 Wright St,
Marquette, Michigan 49855
United States

Return Number CO-486161
RMA number RA-025355
Date 5/29/2023
Page 1 of 1
Customer account TISERV01
Customer reference
Customer requisition

Return Acknowledgement

Dear Valued Customer,

Eckert & Ziegler Isotope Products Laboratories has received your radioactive source(s) and takes responsibility for tracking and storage of the source(s) listed below. If you have any further questions about the source(s), please contact EZIP and reference the return number listed above. Thank you for your business.

Item number	Batch number	Serial number	Quantity returned	Received on	Description
GF-0008		1294-64-61	1.00	5/19/2023	5" Rod, Cs-137, 0.5uCi (18.5kBq), 1102, Type R2 Rod, 127mm H x 12.7 mm D, Nominal, Exempt Quantity, CEMARK1
	Nuclide Info: Cs-137	0.5 uCi	Ref. Date: 8/1/2008		
EXCHANGE	224107K		1.00	5/19/2023	Misc item for recycle/disposal Vial, ICN C&R Div
	Nuclide Info: Cs-137	224 uCi	Ref. Date: 5/1/1986		
GF-0009		1730-30-31	1.00	5/19/2023	5" Rod, Eu-152, 0.5uCi (18.5kBq), 1102, Type R2 Rod, 127 mm H x 12.7 mm D, Nominal, Exempt Quantity, Calibration Rod, CEMARK1
	Nuclide Info: Eu-152	0.5 uCi	Ref. Date: 8/1/2004		



Sealed Source Leak Test

Licensee: Aspirus Ontonagon Hospital

Date: 09/21/22

Performed by: Daniel Miron

Nuclide	Type	Calibration		Location	M/N - Manuf.	S/N
		Activity	Date			
Cs-137	Vial	224 uCi	05/01/86	Hot Lab	MLD-01	224107K
		Current Activity: 96.585uCi			ICN	
Co-57	Flood	10 mCi	02/19/20	Hot Lab	BM01L-10	20020101
		Current Activity: 0.891 mCi			RadQual	

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The leak test wipes were analyzed using instrumentation capable of detecting 185 Bq (0.005 uCi) radioactivity on the wipe.

Well Counter Information

Model:

Serial Number:

RADIATION SAFETY OFFICER: _____

From: [Kim Pici](#)
To: [Nathan Bryant](#)
Subject: [External_Sender] RE: CN 654483 Request for Additional Information
Date: Monday, February 2, 2026 2:27:16 PM
Attachments: image002.png
AKH Co57 Source Return Acknowledgement 5-9-2023.pdf
AKH Cs137 Rod, Cs137 Vial, Eu Rod Disposal 5-2023 EZAG Confirmation.pdf
Aspirus Ontonagon Leak Test_20220921.pdf

Good afternoon-

Please see attached:

Nathan,

Attached are the requested documents for the amendment request for NRC license 21-20242-01 (Aspirus Keweenaw Hospital).

Please let me know if you have any other questions or need additional information.

Let me know if you need anything else.

Dan

Daniel J. Miron
Certified Health Physicist?
414.899.2105 mobile
dmiron@mpcphysics.com



Kimberly Pici RT (R)(CT)

Supervisor of Imaging Services
Aspirus Keweenaw Hospital

ph. 906-337-6151
205 Osceola Street
Laurium Michigan 49913
kim.pici@aspirus.org



From: Nathan Bryant <Nathan.Bryant@nrc.gov>
Sent: Thursday, January 29, 2026 8:57 AM
To: Kim Pici <Kimberly.Pici@aspirus.org>
Subject: CN 654483 Request for Additional Information

You don't often get email from nathan.bryant@nrc.gov. [Learn why this is important](#)

This Message is From an External Sender

This message came from outside your organization.

Good morning, Ms. Pici,

This email is in response to the letter dated December 3, 2025, to amend U.S. Nuclear Regulatory Commission (NRC) Materials License No. 21-20242-01.

Upon reviewing your request, the following area was identified and requires additional information:

1. Please provide the most recent leak test records for the applicable transferred sealed sources and receipt of transfer to the manufacturer on the two dates provided in your request.

Please submit your signed response letter by February 19, 2026. If you need more time or have any questions, please don't hesitate to contact me. As you will not receive a hard copy of this request for additional information, please confirm that you have received this email.

Thank you,

Nathan Bryant
Health Physicist
Materials Licensing Branch
U.S. Nuclear Regulatory Commission
Region III
Office: 630-829-9861



Martha Pavon

From: Nathan Bryant
Sent: Friday, February 27, 2026 9:14 AM
To: Martha Pavon
Cc: Sandy Pavon; Tammy Tomczak
Subject: CN 654483 Request for Additional Information
Attachments: Form 665- CN 654483 Request for Additional Information.pdf; CN 654483 Request for Additional Information.pdf; Form 665- CN 654483 Response to Request for Additional Information.pdf; CN 654483 Response to Request for Additional Information.pdf

Good morning, Martha,

Please add to ADAMS.

Thank you,

Nathan Bryant
Health Physicist
Materials Licensing Branch
U.S. Nuclear Regulatory Commission
Region III
Office: 630-829-9861

