

NRC FORM 314
(02-2017)
10 CFR 30.36(j)(1);
40.42(j)(1); 70.38(j)(1);
and 72.54(k)(5)(1)(1)



U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0028

EXPIRES: 02/29/2020

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submital 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 (1-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0091, or by e-mail to InfoCollect.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 it sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

Applied Research Associates, Inc.
250 Beanville Rd.
Randolph, VT 05060

LICENSE NUMBER

44-31434-01

DOCKET NUMBER

030-38428

LICENSE EXPIRATION DATE

April 30, 2021

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:
See attached "Source Disposition" document
 - b. Disposal of radioactive materials:
 - 1. Directly by the licensee;
 - 2. By licensed disposal site;
 - 3. By waste contractor;
 - 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
Dr. John Haas	RSO	802-728-7428	jhaas@ara.com

Mail all future correspondence regarding this license to:

Dr. John Haas, Applied Research Associates, Inc., 250 Beanville Rd., Randolph, VT 05060

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE	SIGNATURE	DATE
John W. Haas III, Vice President		04/18/2017

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.

REC'D IN LAT 05/08/2017

3-94488
NRC/RGN MATERIALS-002

Source Disposition under Materials License No. 44-31434-01

3.3 curie Hydrogen 3 tube (sealed source, rented neutron generator) S/N 248 – at the end of the rental period the source (neutron generator) was returned to Thermo Fisher Scientific, 5074 List Drive, Colorado Springs, CO 80919 (RML License Number CO-803-02). Shipped 12/8/11 and received at destination on 12/9/11 (see Attachment 1). Thermo POC: James Simpson, 719-445-5527.

15 millicuries per source and 170 millicuries total Technicium 99 (sealed sources) – returned to Eckert & Ziegler Isotope Products, 1800 N. Keystone St., Burbank, CA 91504 (License Number CA 1509-19) for recycling. Shipped on 4/11/17 and received at destination on 4/13/17 (see Attachment 2). Eckert & Ziegler POC: Lily Avila, 661-309-1085.

ATTACHMENT 1

RADIATION SURVEY TAG

INCOMING

OUTGOING

To / From: MF Physics Thermo Fisher/Applied Research Associates

Date: ~~10/8/2011~~ 12/8/2011 (Shipped 12/8/11 JAW)

Type Unit: P211 System

Serial No.: 211-LAB

Survey Tester: MM

Survey Results: 0.030 KePM





Tube Serial Number: 248

John W. Haas - ARA/NED

From: Mark J. McKenna - ARA/NED
Sent: Monday, December 12, 2011 11:51 AM
To: John W. Haas - ARA/NED
Subject: FW: FedEx Shipment Notification

Best Regards,
Mark

Mark J McKenna
New England Division
Applied Research Associates, Inc.
250 Beanville Road
Randolph, VT 05060

 Voice: (802) 728-7409
 Fax: (802) 728-7490
 Cell: (401) 467-1434
 mmckenna@ara.com

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From: Hill, Jay R. [<mailto:jay.hill@thermofisher.com>]
Sent: Monday, December 12, 2011 10:56 AM
To: Mark J. McKenna - ARA/NED
Cc: Schilly, Fabian F.
Subject: RE: FedEx Shipment Notification

Thanks Mark,

We have received the accelerator, will do a track on the control console should this not show up today.

Best regards,

Jay R. Hill
Manager - Production & Test
Neutron Generators
Thermo Fisher Scientific
5074 List Drive, Colorado Springs, CO 80919
(719) 598-9549, x220
(719) 598-2599, fax
jay.hill@thermofisher.com
<http://www.thermo.com/neutron>

From: Mark J. McKenna - ARA/NED [<mailto:mmckenna@ara.com>]
Sent: Friday, December 09, 2011 10:29 AM
To: Hill, Jay R.
Subject: FW: FedEx Shipment Notification

Jay: here's the tracking information on the NTTA unit.

Best Regards,
Mark

Mark J McKenna
New England Division
Applied Research Associates, Inc.
250 Beanville Road
Randolph, VT 05060

Voice: (802) 728-7409
Fax: (802) 728-7490
Cell: (401) 467-1434
✉ mmckenna@ara.com

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From: trackingupdates@fedex.com [<mailto:trackingupdates@fedex.com>]
Sent: Thursday, December 08, 2011 4:16 PM
To: Mark J. McKenna - ARA/NED
Subject: FedEx Shipment Notification

This tracking update has been requested by:

Company Name: Applied Research Assoc.
Name: GEORGE RAY
E-mail: GRAY@ARA.COM

GEORGE RAY of Applied Research Assoc. sent JAY HILL of THERMO FISHER SCIENTIFIC 1 FedEx Priority Overnight package(s).

This shipment is scheduled to be sent on 12/08/2011.

Reference information includes:

Reference: OTHER
Special handling/Services: Deliver Weekday
Status: Shipment information sent to FedEx
Tracking number: [458488020177](#)

To track the latest status of your shipment, click on the tracking number above, or visit us at fedex.com.

To learn more about FedEx Express, please visit our website at fedex.com.

RADIATION SURVEY TAG

INCOMING

OUTGOING

Customer Rental 211

Date 12/19/11

Type Unit. 211

Serial No. Lab Unit

Survey Tester FFS

Survey Results 11

Tube Serial No. 248

MFP-167

Copy of radiation survey tag from
Thermo Fisher Scientific upon their receipt
of Hydrogen 3 tube (rented neutron generator)

ATTACHMENT 2

Technecium-99 Sealed Source Radiation Survey / Leak Test

Date: 4/11/17

Performed by: JWH (John Haas, RSO)

Survey Results:

Twelve (12) Tc-99 sources removed from lead-lined storage box and packaged in 3 boxes for shipping to Eckert & Ziegler for recycling.

Swipe of inside of storage box (after source removed):
0.036 kcpm

Swipe of plastic bag in which the sources were held:
0.024 kcpm

Shipping box #1: 0.024 kcpm

Shipping box #2: 0.024 kcpm

Shipping box #3: 0.036 kcpm

No evidence of any leakage prior to shipping.

Shipped 4/11/17 to E&Z



John Haas, RSO



Receiving
1800 Facility
1800 N. Keystone St.
Burbank, CA 91504
US

Telephone.....: (661) 309-1010
Fax.....: (661) 257-8303
Giro.....:
Tax exempt number.....: SRAC11-638175
Recipient.....:

Shipped From:
Applied Research Association, Inc.
Zach Grote
ph: 802-728-4588
email: zgrote@ara.com
AGO-ARA inc
AGO SECTOR
250 Beanville Rd

Return acknowledgement

Return Number:: 6521
RMA number.....: RMA_027715
Date: 4/18/2017
Page: 1 of 1
Customer account.....: APPRES01
Customer reference:
Contact:
Customer requisition.....:

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
RFQ1343-099-15M	1511-49-1-11		11.000000	4/13/2017	*IND-RECYCLE
	Nuclide Info: Tc-99	15.000000 mCi		Ref. Date: 9/15/2011	
RFQ1343-099-5M	1511-49-12		1.000000	4/13/2017	*IND-RECYCLE
	Nuclide Info: Tc-99	5.000000 mCi		Ref. Date: 9/15/2011	