
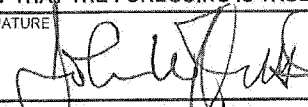
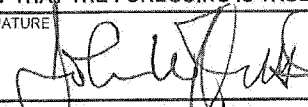
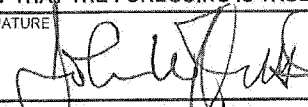


NRC FORM 314 (02-2017) 10 CFR 30.36(j)(1); 40.42(j)(1); 70.38(j)(1); and 72.54(k)(5)(1)(i)	 U.S. NUCLEAR REGULATORY COMMISSION CERTIFICATE OF DISPOSITION OF MATERIALS	APPROVED BY OMB: NO. 3150-0028 <small>Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal 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 Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-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.</small>	EXPIRES: 02/29/2020								
LICENSEE NAME AND ADDRESS Applied Research Associates, Inc. 250 Beanville Rd. Randolph, VT 05060	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">LICENSE NUMBER</td> <td style="width:50%;">DOCKET NUMBER</td> </tr> <tr> <td style="text-align: center;">44-31434-01</td> <td style="text-align: center;">030-38428</td> </tr> <tr> <td colspan="2">LICENSE EXPIRATION DATE</td> </tr> <tr> <td colspan="2" style="text-align: center;">April 30, 2021</td> </tr> </table>	LICENSE NUMBER	DOCKET NUMBER	44-31434-01	030-38428	LICENSE EXPIRATION DATE		April 30, 2021			
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April 30, 2021											
A. LICENSE STATUS (Check the appropriate box) <input type="checkbox"/> This license has expired. <input checked="" type="checkbox"/> This license has not yet expired; please terminate it.											
B. DISPOSAL OF RADIOACTIVE MATERIAL <i>(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)</i> The licensee, or any individual executing this certificate on behalf of the licensee, certifies that: <ul style="list-style-type: none"> <input type="checkbox"/> 1. No radioactive materials have ever been procured or possessed by the licensee under this license. <input checked="" type="checkbox"/> 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: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> a. Transfer of radioactive materials to the licensee listed below: See attached "Source Disposition" document <input type="checkbox"/> b. Disposal of radioactive materials: <ul style="list-style-type: none"> <input type="checkbox"/> 1. Directly by the licensee: <input type="checkbox"/> 2. By licensed disposal site: <input type="checkbox"/> 3. By waste contractor: <input checked="" type="checkbox"/> 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 <ul style="list-style-type: none"> <input type="checkbox"/> 1. A radiation survey was conducted by the licensee. The survey confirms: <ul style="list-style-type: none"> <input type="checkbox"/> a. the absence of licensed radioactive materials <input type="checkbox"/> b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA. <input type="checkbox"/> 2. A copy of the radiation survey results: <ul style="list-style-type: none"> <input type="checkbox"/> a. is attached; or <input type="checkbox"/> b. is not attached (Provide explanation); or <input type="checkbox"/> c. was forwarded to NRC on: _____ Date <input checked="" type="checkbox"/> 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and <ul style="list-style-type: none"> <input checked="" type="checkbox"/> a. The results of the latest leak test are attached; and/or <input checked="" type="checkbox"/> b. No leaking sources have ever been identified. 											
The person to be contacted regarding the information provided on this form: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">NAME</td> <td style="width:25%;">TITLE</td> <td style="width:25%;">TELEPHONE (Include Area Code)</td> <td style="width:25%;">E-MAIL ADDRESS</td> </tr> <tr> <td>Dr. John Haas</td> <td>RSO</td> <td>802-728-7428</td> <td>jhaas@ara.com</td> </tr> </table>				NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS	Dr. John Haas	RSO	802-728-7428	jhaas@ara.com
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 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:40%;">PRINTED NAME AND TITLE</td> <td style="width:40%;">SIGNATURE</td> <td style="width:20%;">DATE</td> </tr> <tr> <td>John W. Haas III, Vice President</td> <td></td> <td style="text-align: center;">04/18/2017</td> </tr> </table>				PRINTED NAME AND TITLE	SIGNATURE	DATE	John W. Haas III, Vice President		04/18/2017		
PRINTED NAME AND TITLE	SIGNATURE	DATE									
John W. Haas III, Vice President		04/18/2017									
<small>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.</small>											

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 KCPM

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 12/9/11

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					