

RECEIVED REGION 1

Alcoa Technology

Alcoa Technical Center 100 Technical Drive Alcoa Center, PA 15069-0001 USA Tel: 1 724 337 5300

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November 15, 2004

CERTIFIED MAIL

Materials Security and Industrial Branch U.S. Nuclear Regulatory Commission, Region 1 475 Allendale Road King of Prussia, PA 19406-1415 Attn: John Kinneman

Subject: Radioactive Materials License Renewal – License No. 37-07653-02

Dear Sir:

Enclosed for the Nuclear Regulatory Commission's (NRC) review and approval is Alcoa Technical Center's (ATC) request for renewal of its NRC materials license.

I would also like to request updated copies of the Sealed Source and Device Registration Certificates for ATC's sources/devices.

Should you have any further questions, please contact me by phone at 724-337-4056 or by e-mail at Ed.Peace@alcoa.com

Sincerely,

Johan E. Peace

Radiation Safety Officer Alcoa Technical Center

Enclosures:

NRC Form 313

Nureg-1556 Volume 4 Appendix B Nureg-1556 Volume 7 Appendix D RSO Training Documentation

cc: NRC License Amendment File

136006

NRC FORM 313

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 08/31/2002

(8-2000) 10 CFR 30, 32, 33 34, 35, 36, 39, and 40

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to compty with this mandatory collection request: 7.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0000), 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.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION NUCLEAR MATERIALS SAFETY BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, BOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

SAM NUNN ATLANTA FEDERAL CENTER
U. S. NUCLEAR REGULATORY COMMISSION, REGION II 61 FORSYTH STREET, S.W., SUITE 23T85 ATLANTA, GEORGIA 30303-8931

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 801 WARRENVILLE RD. LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-6064

COATEN NA ACCEPTENT STATES CENT ADDITIONS TO THE IT SHAWLED BEGIN ATORY COMMISSION ONLY IF THEY WISH TO DOCCUS AND ITSELF INCLUSION

1. THESE AN APPLICATION FOR (Check appropriate Name) A NEW LICENSE B. AMENDMENT TO LICENSE NUMBER C. RENEWAL OF LICENSE NUMBER 3.7—0.76.53—0.2— Alcoa Inc. Alcoa Technical Center 100 Technical Drive Alcoa Center, PA 15069-0001 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Alcoa Technical Drive Alcoa Technical Drive Alcoa Center, PA 15069-0001 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Alcoa Technical Drive Alcoa Center, PA 15069-0001 5. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Alcoa Technical Drive Alcoa Center, PA 15069-0001 5. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION AND ACTIVE NUMBER 4. Deace, RSO TELEPHONE NUMBER 5. PEACE, RSO TELEPHONE NUMBER 6. PEACE, RSO TELEPHONE NUMBER 7. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION GUIDE. 7. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION AND END FROM A PROPERTY OF THE APPLICATION OF THE APPLICATION AND END FROM A PROPERTY OF THE APPLICATION OF PEECH ABOUT THE APPLICATION OF PEECH ABOUT THE APPLICATION OF PEECH ABOUT THE APPLICATION OF THE APPLICATION OF PEECH ABOUT THE APPLICATION OF PEECH ABOU	MATERIAL IN STATE	S SUBJECT TO U.S	NUCLEAR REQULA	TORY COMMISSION JUR	ISDICT	ONS.		` `	
B. AMENDMENT TO LICENSE NUMBER C. RENEWAL OF LICENSE NUMBER 3.7—0.7653—0.2— Alcoa Technical Drive Alcoa Center, PA 15069—0001 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Alcoa Technical Drive Alcoa Center, PA 15069—0001 Johan E. Peace, RSO TELEPHONE NUMBER — mail: Ed. Peace@Alcoa.com ph: 724—337—4056, fax: 724—337—1854 SUBMIT ITEMS 5 THROUGH 11 ON 8-12X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION QUIDE. 5. RADDOACTIVE MATERIAL 8. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. 8. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. 8. TRAINING EXPENSIBLE FOR RADATION SAFETY PROGRAM AND THER 10. RADATION SAFETY PROGRAM. 11. WASTE MANAGEMENT. 12. LICENSE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY N/A MOUNT RESIDENCE AND EQUIPMO THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATION MADE IN THAT PLAY APPLICANTION ARE BINDING UPON THE APPLICANT AND ANY OFFICIAL EXECUTIVE OTHER SET SET FIFT ATTON ON BUILLY OF THE APPLICANT, NAMED IN THIS 2, PURPORABLE IN THE ENGINEER OF THE WINTED STATES AS TO ANY MATTER WITHIN HIS AURISMICTOR. WANNOW, 15 U.S.C. SECTION FOR A GENEVO F THE WATER STATES AS TO ANY MATTER WITHIN HIS AURISMICTOR. FOR NRC USE ONLY TYPE OF FEE FEE LOG FEE CATEGORY AMOUNT RECEIVED CHECK NUMBER COMMENTS FOR NRC USE ONLY TYPE OF FEE FEE LOG FEE CATEGORY AMOUNT RECEIVED CHECK NUMBER COMMENTS	1. THIS IS AN APPL	CATION FOR (Chec	k appropriete item)			2 NAME A	ND MAILING ADDRESS OF AP	PLICANT (Include ZIP code)
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11. WASTE MANAGEMENT. 12. LICENSE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY N/A 13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMINY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 39, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 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. CERTIFYING OFFICER — TYPEDPRINTED NAME AND TITLE Jamie K. Mackay FOR NRC USE ONLY TYPE OF FEE FEE LOG FEE CATEGORY AMOUNT RECEIVED CHECK NUMBER COMMENTS				8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AEAS.					
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THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTANED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF. WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 STAT. 749 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. CERTIFYING OFFICER - TYPEDYPRINTED NAME AND TITLE Jamie K. Mackay FOR NRC USE ONLY TYPE OF FEE FEE LOG FEE CATEGORY AMOUNT RECEIVED CHECK NUMBER COMMENTS	II. WASIE MARAG	CMENI.				FEE CA	TEGORY N/A	AMOUNT ENCLOSED	N/A
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	APPROVED BY				DATE			_	

Nureg-1556 Volume 4 Appendix B
Items 5 & 6: Materials To Be Possessed and Proposed Uses

Radioisotope	Manufacturer Model No.	Serial Number	Quantity	Purpose for which Licensed Material is used.	Specify Other Uses Not Listed on SSD Certificate
Strontium-	ABB Automation (AccuRay Guage) S- 18/U-6	S-504-A	Not to exceed either the maximum activity per source or maximum	The fixed gauge(s) will be used for the purposes described on the SSD Registration Certificate(s), Device used for aluminum sheet thickness measurement	Not Applicable
90	Fisher Beta Scope	42096	activity per device as specified in Sealed Source and Device Registration Certificate	The fixed gauge(s) will be used for the purposes described on the SSD Registration Certificate(s), Device used for organic coating thickness measurement	Not Applicable
Thalium-204	Fisher Beta Scope	26354	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	The fixed gauge(s) will be used for the purposes described on the SSD Registration Certificate(s), Device used for organic coating thickness measurement	Not Applicable
Nickel-63	Sensidyne	Model 0130 HF/0-10 s/n 8620 Source s/n 87	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	The fixed gauge(s) will be used for the purposes described on the SSD Registration Certificate(s), Device used as Ion Mobility Spectrometer as an analytical HF detector.	Not Applicable

Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
7. Individual(s) Responsible For Radiation Safety Program And Their Training And Experience 7.1 Radiation Safety Officer Name: Johan E. Peace	The RSO has successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, and dated October 1998. Before being named as the RSO, future RSOs will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998. Within 30 days of naming a new RSO, Alcoa will submit the new RSO's name to NRC to include in our license.	Yes	
7. Individual(s) Responsible For Radiation Safety Program And Their Training And Experience 7.2 Authorized Users	PROPOSED AUTHORIZED USERS: Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section entitled, "Authorized Users" in NUREG-1556, Vol. 4; dated October 1998.	Yes	
8. Training for Individuals Who in the Course of Employment are Likely to Receive Occupational Doses of Radiation in Excess of 1 mSv (100 mrem) in a Year	The applicant is not required to, and should not, submit their training program, for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year (occupationally exposed workers) and ancillary personnel, to the NRC for review during the	Need Not I	Be Submitted with Application

	·		- ·
(Occupationally	licensing phase.		
Exposed Workers)		:	
and Ancillary	1		
Personnel	We will a some that the leasting		<u> </u>
	We will ensure that the location		
O Facilities and	of each fixed gauge meets the Criteria in the section entitled		
9. Facilities and		Yes	
Equipment	"Facilities and Equipment" in		
	NUREG-1556, Vol. 4, dated October 1998.		
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10. Radiation Safety	The applicant is not required to,	Need Not I	Be Submitted with Application
Program - Audit	and should not, submit its audit		
Program	program to the NRC for review		,
	during the licensing phase.		
	We will use instruments that meet		
	the Criteria in the section entitled		
,	"Radiation Safety Program -		
	Instruments," in NUREG-1556,		
	Vol. 4, dated October 1998.		
10 Dadieties Cofety	Fack grows mater will be		·
10. Radiation Safety	Each survey meter will be	Waa.	
Program - Survey	calibrated by the manufacturer or	Yes	
Instruments	other person authorized by the		
	NRC or an Agreement State to		
	perform survey meter calibrations.		
	canorations.		
			·
	Physical inventories will be		
	conducted at intervals not to		
10. Radiation Safety	exceed 6 months or at other		
Program - Material	intervals approved by the NRC, to	Yes	·
Receipt and	account for all sealed sources and	103	·
Accountability	devices received and possessed		·
	under the license.		
	Alcoa will provide dosimetry that		
10. Radiation Safety	meets the Criteria in the section		
Program -	entitled "Radiation Safety		
Occupational	Program - Occupational	Yes	
Dosimetry	Dosimetry," in NUREG-1556,		
	Vol. 4, dated October 1998.		
	The applicant is not required to	Need Not I	Be Submitted with Application
	submit a response to the public		
	dose section during the licensing		
10. Radiation Safety	phase. However, during NRC		·
Program - Public	inspections, licensees must be		
Dose	able to provide documentation		
	demonstrating, by measurement		
	or calculation, that the total		
	effective dose equivalent to the		
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	individual likely to receive the highest dose from the licensed operation does not exceed the		
	annual limit for individual members of the public.		
10. Radiation Safety Program - Operating & Emergency Procedures	Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures," in NUREG-1556,	Yes	
10. Radiation Safety Program - Leak Test	Vol. 4, dated October 1998. Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.	Yes	
10. Radiation Safety Program - Maintenance	We will implement and maintain procedures for routine maintenance of our fixed gauges according to each manufacturer's or distributor's written recommendations and instructions.	Yes	
	NON-ROUTINE MAINTENANCE OPERATIONS The gauge manufacturer, distributor or other person authorized by NRC or an Agreement State will perform non-routine operations such as installation, initial radiation	Yes	·

	survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service.		
10. Radiation Safety Program - Transportation	The applicant is not required to submit its response to transportation during the licensing process; this issue will be reviewed during inspection. However, the licensee should develop, implement, and maintain transportation procedures according to NRC and DOT regulations.	Need N	ot Be Submitted with Application
10. Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites	This is not applicable to our program. We will not use fixed gauges at temporary job sites.	Not Applicable	·
10. Radiation Safety Program - Minimization of Contamination	The applicant is not required to submit a response to minimization of contamination if the applicant's responses meet the criteria for the following sections: Radioactive Material - Sealed Sources and Devices, Facilities and Equipment, Radiation Safety Program - Operating and Emergency Procedures, Radiation Safety Program - Leak Testing, and Waste Management - Gauge Transfer and Disposal.	Need N	ot Be Submitted with Application
11. Waste Management - Gauge Disposal & Transfer	The applicant is not required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.	Need N	ot Be Submitted with Application

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Nureg-1556 Volume 7 Appendix D

D.5 ITEMS 5 & 6: MATERIALS TO BE POSSESSED AND PROPOSED USES

Radioisotope	Manufacturer Model No.	Serial Number	Quantity	Purpose for which Licensed Material is used.	Specify Other Uses Not Listed on SSD Certificate
Nickel-63	Hewlett- Packard G1223A	Source s/n F6130	Not to exceed either the maximum activity per source or maximum activity per device	The fixed gauge(s) will be used for the purposes described on the SSD Registration Certificate(s),	N/A
	G1225A	Source s/n F6131	as specified in Sealed Source and Device Registration Certificate	Device used in gas chromatograph for PCB analysis	

D.6 ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES AND EQUIPMENT, RADIATION SAFETY PROGRAM, AND WASTE DISPOSAL

Item No.	Title and Criteria Description	Yes	Description
7	INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE RSO Name: Before obtaining licensed materials, the proposed RSO will have successfully completed the training described in Appendix D, in NUREG - 1556, Vol. 7. AND Before being named as the RSO, future RSOs will have successfully completed the training described in Appendix D, in NUREG - 1556, Vol. 7.	Yes	The Radiation Safety Officer has successfully completed the required training, including a 40 hour Radiation Safety Officer Course at Thermo Electron Corporation in Austin, TX. See Attachment.
8	TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS Individuals working under the supervision of a responsible person	N	/A

9	named in item 7, above, are not required to have any specific radiation safety training prior to using a GC/XRF. FACILITIES AND EQUIPMENT Describe the facilities where GC/XRFs will be used and stored. Additional information regarding the use and storage of GC/XRFs at a temporary jobsite should also be included in the response.	mounted to a laborate	red area which requires
	RADIATION SAFETY PROGRAM Audit Program The applicant is not required to, and should not, submit its audit program to the NRC for review during the licensing phase.	N.	/A
	Survey Instruments No survey instrument is required if proposed use involves neither the removal of sources from the device nor any maintenance and repair of a device that involves the source. OR	Yes	No maintenance is performed on equipment by Alcoa personnel. If maintenance is
10	If the applicant proposes to perform operations that involve the removal of sources from the device or maintenance and repair of a device that involves the source, we will possess or have access to a radiation survey meter that meets the requirements in the procedures for performing removal or repair of the sources.	[]	required, the manufacturer or other organizations properly licensed to perform maintenance activities will be employed.
	Material Receipt and Accountability Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.	Yes	Physical inventories are performed every 6 months.

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10	RADIATION SAFETY PROGRAM (Cont'd) Occupational Dosimetry No personnel monitoring is required if proposed use does not involve the removal of sources from the device or any maintenance and repair of a device that involves the source. OR	Yes	
	If the applicant proposes to perform operations that involve the removal of sources from the device or maintenance and repair of a device that involves a source (other than in gaseous form, H-3 or Ni-63), we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20, or "we will provide dosimetry processed and evaluated by a NVLAP-approved processor that is exchanged at a frequency recommended by the processor."		Personal dosimetry is not performed for personnel who operate gas chromatographs.
	Public Dose The applicant is not required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection.	N/	/A
	Leak Test Leak tests will be performed at intervals specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees.	Yes	Leak tests are performed at intervals specified in the Sealed Source and Device Registration. Leak tests are performed using kits supplied by an organization authorized by the NRC.

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	RADIATION SAFETY PROGRAM (Cont'd) Maintenance If authorization has been requested to perform the maintenance and repair operations described in Item 7, state in the application that the written procedures provided by the device manufacturer will be followed for each such operation requested. OR If a procedure will be followed other than that provided by the device manufacturer, submit a proposed procedure to use for each operation Transportation The applicant is not required to submit its response to transportation during the licensing process; however, this issue will be reviewed during inspection.	[]
	Minimization of Contamination The applicant is not required to submit a response to the minimization of contamination section if the applicant's responses meet the criteria for the following sections: "Radiation Safety Program - Leak Tests," "Facilities and Equipment," and "Waste Management."	N/A
1	WASTE MANAGEMENT GC/XRFs Disposal & Transfer The applicant is not required to submit a response to waste management during the licensing process. The licensee should, however, develop, implement, and maintain GC/XRF transfer and disposal procedures in its radiation safety program.	N/A



February 27, 2004

LETTER OF CERTIFICATION

This is to certify that Ed Peace of ALCOA has attended and successfully completed a 40-hour Industrial Radiation Safety Training course, conducted by Thermo Electron the week of February 23-27, 2004 and described in the attached course outline.

The course covers fundamentals of radiation, units of dose and quality of radiation fields, hazards of radiation exposure, detection devices, regulatory controls, industrial devices and specific training on installation and leak testing of TMT density, level, and weigh gauges. It is designed to meet the requirements of the Nuclear Regulatory Commission and Agreement States for Radiation Safety Officers at companies using industrial gauging devices.

This course is structured to qualify persons who complete it to understand and safely perform various operations involving nuclear devices including the installation, relocation, and leak testing of such equipment. The operations are to be performed in accordance with the rules and regulations of the United States Nuclear Regulatory Commission and/or Agreement States, and are in all respects subject to such rules and regulations.

This letter cannot be used in lieu of a specific license from, or other sanction by, an appropriate regulatory agency.

THERMO ELECTRON

Ralph S. Heyer

Palph S. Hoge

Corporate Radiation Safety Officer

Thermo Electron

Radiation Safety Officer Training Course Outline

Mathematics Review (4 hours)

- -Basic Mathematical Concepts
- -Exponential and Scientific Notation
- -Basic Problem Solving
- -Dose Calculations

Radiation Dose Units (1 hour)

- -Roentgen
- -Rad
- -Rem
- -Quality factor

Atomic Structure (1 hour)

- -Bohr model
- -Chart of Nuclides
- -Nuclides and notation
- -Isotopes

Types of Radiation (2 hours)

- -Alpha
- -Beta
- -Gamma and X-ray
- -Neutrons

Radioactive Decay (2 hours)

- -Activity
- -Decay schemes
- -Decay law
- -Half-life

Interaction of Radiation with Matter (4 hours)

- -Ionizing vs. Non-ionizing
- -Ionization and excitation
- -Alpha, Beta, Gamma interactions
- -Photoelectric, Compton, pair production
- -Photon exposure rate; shield calculation
- -Half-value layers

Shielding (4 hours)

- -Time, distance, and shielding
- -Inverse square law
- -Linear and Mass Attenuation Coefficients

Biological Effects (4 hours)

- -Internal Exposure to Radionuclides
- -Physical/Chemical Mechanics of Injury
- -Acute Radiation Injury
- -Long Term Effects
- -Genetic Effects
- -Teratogenic Effects
- -Carcinogenic Effects
- -Background Radiation

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-Risk Estimates

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Regulatory Control (4 hours)

- -Title 10 Code of Federal Regulations
- -Agreement states
- -Licensing and Compliance procedures.
- -General and specific license
- -User responsibility

Shipping Radioactive Material (2 hours)

- -Packaging and Labeling
- -IATA/ICAO
- -Title 49 Code of Federal Regulations

Radiation Protection Program-ALARA (4 hours)

- -ALARA statement
- -Radiation Protection Program
- -Operating, safety, and emergency procedures
- -Compliance with dose limits
- -Employee notification
- -Record keeping
- -Posting
- -Reporting

Radiation Detection (2 hours)

- -Fundamentals of detection
- -Instrument characteristics, use, and limitations
- -Survey meters

Personnel Monitoring (1 hour)

- -Requirements
- -Film badges, TLDs, etc.

Industrial (2 hours)

- -Industrial device installation
- -Surveying & leak testing demonstration
- -Industrial applications

"Hands-On" (3 hours)

- -Use of portable radiation survey meters
- -Survey of a fixed gauge
- -Preparation of survey form
- -Leak test of devices

Closed book: Written Exam on Lectures and

Homework Assignments (2 hours)

Note: A minimum 2 hours of homework is assigned each evening during the course.





Certificate of Training

This is to certify that

Johan E. Peace

Has Successfully Completed

A 40-Hour Radiation Safety Training Course

Presented by Thermo Electron

Date Issued: February 27, 2004

Thermo

2555 North IH-35

Round Rock, TX 78664

Ralph Heyer, Corporate Radigion Safety Officer.





Certificate of Training

This is to certify that

Johan E. Peace

Has successfully completed general awareness, function-specific, and safety training applicable to the transport of nuclear gauging devices, and has been tested on these subjects as required by 49CFR172 Subpart H.

Date Issued: February 27, 2004 Expires: February 27, 2007

Thermo

2555 North IH-35

Round Rock, TX 78664

Ralph Heyer, Corporate Radiation Safety Officer

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,	the receipt of your letter/application dated
November 15 dincludes an administrati	nd to inform you that the initial processing which ve review has been performed.
Those wase no odmir	nistrative omissions. Your application was assigned to a
	Please note that the technical review may identify additional
	additional information. Revewal
	·
Please provide to this	s office within 30 days of your receipt of this card
	as been forwarded to our License Fee & Accounts Receivable tyou separately if there is a fee issue involved.
Your action has been as	ssigned Mail Control Number
When calling to inquire	about this action, please refer to this control number. 0) 337-5398, or 337-5260.
NRC FORM 532 (RI)	Sincerely,
(6-96)	Licensing Assistance Team Leader

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	: (FOR LFMS USE) : INFORMATION FROM LTS
BETWEEN:	:
License Fee Management Branch, ARM and Regional Licensing Sections	Program Code: 03120 Status Code: 0 Fee Category: 3P Exp. Date: 20041231 Fee Comments: Decom Fin Assur Reqd: N
LICENSE FEE TRANSMITTAL	
A. REGION	
1. APPLICATION ATTACHED Applicant/Licensee: ALUMINUM COMPA Received Date: 20041119 Docket No: 3006172 Control No.: 136006 License No.: 37-07653-02 Action Type: Renewal	ANY OF AMERICA
2. FEE ATTACHED Amount: Check No.:	
3. COMMENTS Signed _ Date _	3 11/23/04
B. LICENSE FEE MANAGEMENT BRANCH (Check	when milestone 03 is entered //)
1. Fee Category and Amount:	
2. Correct Fee Paid. Application may Amendment Renewal License	be processed for:
3. OTHER	
Signed	

Date