

Estimated burden per response to comply with this mandatory collection request: 4.4 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 and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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.

APPLICATION FOR MATERIAL LICENSE

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:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

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
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

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 BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-4005

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

- A. NEW LICENSE
 B. AMENDMENT TO LICENSE NUMBER _____
 C. RENEWAL OF LICENSE NUMBER 46-23247-01E

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

JAMCO AMERICA INC
1018 80th ST SW
Everett WA 98203

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

JAMCO AMERICA
1018 80th ST SE
Everett WA 98203

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

RANDY L. MOSER

TELEPHONE NUMBER

425-347-4735 ext 1257

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL
a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY: _____ AMOUNT ENCLOSED: \$ _____

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

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 CONTAINED 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 62 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 -- TYPED/PRINTED NAME AND TITLE

Billie Jo Siemering

SIGNATURE

Billie Jo Siemering

DATE

2-11-08

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	



University of Washington

***Department of
Environmental Health and Safety***

CERTIFICATE OF TRAINING

This is to certify that

Tracy Walrath

Successfully completed a program of instruction in

SEALED SOURCES

In

March, 2003

This course includes formal class presentations and sealed source handling demonstrations. This course covers Basic Radiation Physics and safety.



Stanley J. Addison, Radiation Safety Officer

March 13, 2003

Date



University of Washington

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Stanley J. Addison, Radiation Safety Officer

March 13, 2003

Date

JAMCO AMERICA INC

Training History by Course

COURSE HANDLING RADIOACTIVE MATL

CODE 52879-42

TYPE On the Job Training

CERTIFICATION None Specified

CREDITS 0.00

CEU 0.00

SESSIONS 0

HOURS 0.00

EMPLOYEE NAME	EMPLOYEE ID	JOB TITLE	DIVISION	DEPARTMENT	END DATE	JOB REL	GRADE
Baxter, Mary M	001622	Inventory Control	OPERATIONS	INV	11/30/2004	Yes	D
<u>Bien, Danuta</u>	001760	Assoc Mech	OPERATIONS	LAVS	05/09/2007	No	
Camatti, Charles A	001127	Warehouse Lead	OPERATIONS	INV	05/03/2002	Yes	B
Charles, Janice J	001522	Inventory Control	OPERATIONS	INV	05/03/2002	Yes	
Elliget, Don E	001540	Inventory Control	OPERATIONS	INV	05/03/2002	Yes	
Fortin, Christian C	001525	Customer Service	ADMIN	CUST SVC	10/11/2002	Yes	C
<u>Henderson, Nettie E</u>	001607	Shipping/Recvng	OPERATIONS	INV	08/20/2004	Yes	D
Hilbert, Barry C	001285	Assoc Mech	OPERATIONS	GALLEY	04/01/2003	No	A
Hope, Carolyn J	001403	Shipping/Recvng C	OPERATIONS	INV	05/03/2002	Yes	
KINGRY, JACKIE F	001132	TEST TECHNICIAN	TECH SVC	CERTIF	02/25/1994	Yes	C
<u>Klein, Richard P</u>	001678	Inventory Control Clk	OPERATIONS	INV	06/22/2006	Yes	D
<u>Nguyen, Anh H</u>	001341	Assoc Mech	OPERATIONS	LAVS	11/15/2004	Yes	
<u>Nguyen, Hung P</u>	001272	Journey Mech	OPERATIONS	LAVS	11/15/2004	No	
Nguyen, Man V	001420	Inventory Control	OPERATIONS	INV	05/03/2002	Yes	B
Porter, William L	001517	Shipping/Recvng C	OPERATIONS	INV	05/03/2002	Yes	
<u>Presler, Fred A</u>	001121	Mechanic-Lead	OPERATIONS	LAVS	11/15/2004	No	A
<u>Rapelyea, Alfred D</u>	001214	Warehouse Lead	OPERATIONS	INV	05/03/2002	Yes	A
<u>Rose, Kathleen M</u>	001415	Inventory Control	OPERATIONS	LAVS	03/16/2002	Yes	C
<u>Siemering, Billie J</u>	001337	Journey Mech	OPERATIONS	LAVS	05/10/2007	No	B
<u>Stevens, Kathy</u>	001729	Assoc Mech	OPERATIONS	LAVS	05/09/2007	No	
<u>Tackstrom, Christine A</u>	001421	Inventory Control	OPERATIONS	INV	05/03/2002	Yes	B
<u>Waldram, Dana W</u>	001394	Inventory Control	OPERATIONS	INV	05/03/2002	Yes	B
<u>Walrath, Tracy L</u>	001278	Journey Mech	OPERATIONS	LAVS	04/01/2003	No	
Williams, Sherri L	001487	Inventory Control	OPERATIONS	INV	06/03/2003	Yes	

Total Employees 24
Completed 24

MANUFACTURING PROCEDURE	
TITLE: Training Manual and Handling of Radioactive Material (Smoke Detectors)	Number : 52879-0000-42

REV	DESCRIPTION	DATE	APPROVAL
New	Initial release	05/11/88	Prepared By: S. Tomiyama Checked By: N. Natsume Approved By: N. Natsume
A	<ul style="list-style-type: none"> • Revised document to current format. • Added definitions, accidents, emergencies and records sections. • Renumbered entire document. 	09/04/98	Prepared By: J. Mitchell Checked By: L. Shigetomi Approved By: D. Uriu
B	<ul style="list-style-type: none"> • Para 3.7-revised micro-radiants to millirems. • Deleted first sentence of note referring to micro-curies. • Revised Para 5.1 to specify dosage rate. • Revised Para 5.2 to specify 50 weeks exposure. • Revised note to specify 5000 millirems per year. 	09/15/98	Prepared By: J. Mitchell Checked By: L. Shigetomi Approved By: D. Uriu
C	<ul style="list-style-type: none"> • Referenced JQSGU 002, Quality Manual and URG-0002. • Revised record storage from 7 to 2 years. • Other minor changes to format. 	07/09/02	Prepared By: B. Baylon Checked By: D. Hendricks Approved By: D. Hendricks
D	<ul style="list-style-type: none"> • Revised subject to cover all radioactive materials. • Section II-added statement on the inspection and the superceding of IP-M-U010. Also specified applicability within JAMCO America only. • Section III-RSA is assigned primary and QA Manager as back-up. Added requirements for ensuring compliance and the recording of results. • Section V-replaced JQSGU with AS 9100. • Section 3-specified weekly testing, use of 2 equipments using their operating manuals and split the section into two sections. • Section VII- added UQ-005. 	10/13/04	Prepared By: /S/ B. Baylon (On File) Checked By: /S/ D. Griffis (On File) Approved By: /S/ D. Hendricks (On File)

MANUFACTURING PROCEDURE	
SUBJECT: Handling and Storage of Radioactive Materials	Number : 52879-0000-42 Revision: D
RELATED DOCUMENTS	JQSGU-002 Element 7.0

I. PURPOSE

To specify how to handle radioactive materials and how to use survey or Geiger Counter for detecting radiation.

II. APPLICABILITY

This procedure applies to all JAMCO America, Inc. (JAMCO) departments that handle, use, store, assemble and test radioactive devices. This procedure also covers the inspection for radioactive material contamination and supercedes Inspection Procedure IP-M-U010.

III. RESPONSIBILITY

Radiation Safety Officer (Primary) or QA Manager (Back-up)

Responsible for training affected personnel to ensure that the requirements of this procedure are met and the results documented.

Department Managers/Supervisor

Responsible for defining training plans and coordinating training of all personnel affected by this procedure.

IV. DEFINITIONS

Background Radiation

Natural radiation that is always present. Usually from the sun's heat and light.

Radiation

Energy that moves in the form of waves or particles.

Alpha (α) Particles

A particle emitted by radioactive nuclei, which consists of two protons and two neutrons.

Gamma (γ) Rays

Powerful radiation waves that are similar to x-rays.

Curie (Ci)

The unit used to measure radiation.

Half-Life

The time it takes half the atom of a radioactive substance to decay to another form.

REM

A measure of effect of radiation on humans, incorporating doses and types of radiation

V. REFERENCES

SAE-AS 9100 Aerospace Quality standard or BQSM D6-82479 Appendix A
URG-0002 Establishment of Quality System Documents

VI. PROCEDURE

1. Radioactive Material Facts
 - 1.1. Americium-241 (241Am)
 - 1.2. Radiant Rays (Alpha and Gamma)
 - 1.3. Half-Life (433 Years)
 - 1.4. Intensity (0.7 Ci for each Smoke Detector)
2. Handling of Radioactive Smoke Detectors
 - 2.1. Smoke detectors shall be assembled, disassembled, and handled by authorized personnel.
 - 2.2. Do not eat or drink while working with smoke detectors.
 - 2.3. Do not remove smoke detectors from the designated storage and manufacturing areas.
 - 2.4. Only trained personnel shall handle smoke detectors.
3. Inspection Using Survey Meter For Weekly Contamination Test
 - 3.1. Use either Victoreen Model 290 (SN443) or Technical Associates' Model PUG-7(SN006465), and set-up per their respective equipment manual.
 - 3.2. Selecting 5 random locations on the workbench (Location A) and 3 random locations in the storage cabinet (Location B), the mechanic:
 - 3.2.1. Measure radioactive contamination.
 - 3.2.2. Record results on *UQ-005, Periodic Radiation Inspection Form*
 - 3.2.3. Acceptable measurements shall be less than two time (2X) background radiation. If measurements exceed thresholds, follow Section 4.0 below.
 - 3.2.4. Submit report to the QA Manager for review and retention.
4. Accident/Emergency
 - 4.1. Contamination occurs when the reading at the workstation exceeds the background reading (normally taken in the parking lot of the facility or outside the building) by 2X.
 - 4.2. The Radiation Safety officer will ensure that there is a survey meter in good operating condition in the area where the radiation will be used, including plastic gloves, foot cover and whole body suits, if required.
 - 4.3. Control access to a contaminated area by establishing an exclusion zone. Detour traffic around the area until a radiation survey indicates it is safe and contamination-free. Do not remove any contaminated material until it has been properly surveyed and released.
 - 4.4. Verify that (206)-NUCLEAR has been called and reached.
 - 4.5. If skin or superficial contamination of wounds happened, wash thoroughly with running water and soap, blot dry.
 - 4.6. If eyes are contaminated, treat by irrigating with lots of water for at least five full minutes.
 - 4.7. If contaminated internally, induce vomiting to eliminate quickly, induce sneezing and blow nose repeatedly. Note: Do not attempt these procedures

unless you have proper medical training. Also, contact a hospital or physician as soon as possible.

5. Biological Effect

- 5.1. At the warehouse, 10 detectors are packed into a cardboard box. Their dimensions 5.5cm height, 9.5cm width and 22cm length. The shipping box (46cm x 30cm x 30cm) holds 30 cardboard boxes. The external radiation of the shipping box is of nearly negligible dosage rate.
- 5.2. The maximum external radiation dosage of a person, who is engaged 50 weeks per year is 5000mREMs.

VII. RECORDS

UQ-005 Periodic Radiation Inspection Form



Radiation Protection Division

RHF - 1US
APPLICATION FOR
RADIOACTIVE MATERIALS LICENSE
UNIVERSAL STYLE

INSTRUCTIONS — Complete all items in this application for a new license or the renewal of an existing license. Use supplemental sheets where necessary. Item 17 must be completed on all applications. Mail original copy to: Washington State Department of Health, in accordance with the directions contained in the application cover letter. Upon approval of this application, the applicant will receive a State of Washington Radioactive Material License issued in accordance with the general requirements contained in Washington State Department of Health, Radiation Protection Division, Radiation Control Regulations, and the Washington Nuclear Energy and Radiation Control Act, Chapter 70.98 RCW.

1a. Name and Street Address of Applicant: JAWCO AMERICA, INC. 1018 80th ST SW EVERETT, WA 98203
1b. Street Address(es) at which Radioactive Material will be used (IF DIFFERENT THAN 1a.)

1c. Person to Contact Regarding this Application: ROBYN HUSS
1d. Telephone: 425-347-4735 X1116

2. Department to use Radioactive Material: LAVATORY

3. Previous License Number(s): WN-10402-1
(If this is an application for renewal of a license, please check box and give number): [X] Renewal of License No:

4. Individual User(s): (LIST NAME AND TITLE OF INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE USE OF RADIOACTIVE MATERIALS. GIVE TRAINING AND EXPERIENCE IN ITEMS 8 AND 9 ON PAGE 2.)
DAVE GRIFFIS - MGR
CHUCK CAMATTI - Shipping
Barry Hillert - LAV
Robyn Huss - Safety
Joe Bartlett - LAV
Tracy Walcott - LAV
Billie Jo Siemerling LAV
Mike Yellebertson LAV

5. Radiation Protection Officer: (NAME OF PERSON DESIGNATED AS RADIATION PROTECTION OFFICER. ATTACH RESUME OF TRAINING AND EXPERIENCE AS IN ITEM 4 ABOVE.) ROBYN HUSS

6a. Radioactive Material: (ELEMENTS AND MASS NUMBER OF EACH.)
a. AMERICIUM 241 0.7 microcuries
b.
c.

6b. Chemical and or Physical Form and Maximum Quantity of each Chemical and/or Physical Form that you will Possess at any one Time: (IF SEALED SOURCE(S), ALSO STATE NAME OF MANUFACTURER, MODEL NUMBER, NUMBER OF SOURCES AND MAXIMUM ACTIVITY PER SOURCE.)
Sealed Source (Amersham/Radiochemical Center Model AMM1001)

7. **Describe Purpose for which Radioactive Material will be Used and Detailed Procedures:** (IF RADIOACTIVE MATERIAL IS IN THE FORM OF SEALED SOURCES, INCLUDE THE MAKE AND MODEL NUMBER OF THE STORAGE CONTAINER AND/OR DEVICE IN WHICH THE SOURCE WILL BE STORED AND/OR USED.) ATTACH EXTRA SHEETS IF NECESSARY.

8. **Training and Experience of each Individual Named in item 4 and Radiation Protection Officer Named in Item 5:** (USE SUPPLEMENTAL SHEETS IF NECESSARY.) **Attach training certificate(s).**

Type of Training	Place of Training	Duration of Training	On the Job Training	Formal Course Training
a. Principles and practices of radiation protection	Univ. Wash		<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Radioactivity measurement standardization and monitoring techniques and instruments	Univ Wash		<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Mathematics and calculations basic to the use and measurement of radioactivity	Univ Wash		<input type="checkbox"/>	<input checked="" type="checkbox"/>

9. **Experience with Radiation:** (ACTUAL USE OF RADIOISOTOPES OF EQUIVALENT EXPERIENCE.) (THIS INFORMATION MUST BE SUBMITTED FOR EACH USER AND THE RADIATION PROTECTION OFFICER.)

Isotope	Maximum Amount	Where Experience Was Gained	Duration of Experience	Type of Use	When Used

10. **Radiation Detection Instruments:** (USE SUPPLEMENTAL SHEETS IF NECESSARY.)

Type of Instrument (INCLUDE MAKE AND MODEL OF EACH)	Number Available	Type of Radiation and Method of Detection	Sensitivity Range (mR / hr or CPM)	Window Thickness	Use (MONITORING, SURVEYING, MEASURING)

11. **Method, Frequency, and Standards Used in Calibrating Instruments Listed Above:** (IF THIS WILL BE DONE COMMERCIALY, STATE THE NAME, ADDRESS AND RADIOACTIVE MATERIALS LICENSE NUMBER OF THE COMPANY.)

12. **Film Badges, Dosimeters, and Bio-Assay Procedures Used:** (FOR FILM BADGES, SPECIFY METHOD OF CALIBRATING AND PROCESSING, OR NAME OF SUPPLIER.)

NOTE: Please provide attachments for items 13 thru 15

13. **Facilities and Equipment:** (DESCRIBE LABORATORY FACILITIES (INCLUDE A SKETCH) AND REMOTE HANDLING EQUIPMENT, STORAGE CONTAINERS, SHIELDING, FUME HOODS, ETC.)

14. **RADIATION PROTECTION PROGRAM:** (DESCRIBE THE RADIATION PROTECTION PROGRAM INCLUDING SURVEYS, CONTROL MEASURES, AND TRAINING PROGRAM. IF APPLICABLE SUBMIT LEAK TEST PROCEDURES, DESCRIBE TRAINING, AND EXPERIENCE OF PERSON TO PERFORM IN-HOUSE TRAINING, LEAK TESTS AND RADIATION SURVEYS, SERVICING, MAINTENANCE AND REPAIR OF SOURCE.)

15. **DUTIES OF THE RADIATION PROTECTION OFFICER:** (DESCRIBE THESE DUTIES)

16. **WASTE DISPOSAL:** (IF A COMMERCIAL WASTE DISPOSAL SERVICE IS EMPLOYED, SPECIFY NAME OF COMPANY. OTHERWISE, SUBMIT DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED.)

17. **CERTIFICATE (THIS SECTION MUST BE COMPLETED BY A CERTIFYING OFFICIAL AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT.)**

The applicant and any official executing this certificate on behalf of the applicant named in Item 1, certify that this application is prepared in conformity with Washington State Department of Health, Division of Radiation Protection, Radiation Control Regulations and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

APPLICANT NAMED IN ITEM 1

DATE

CERTIFYING OFFICIAL

TITLE OF CERTIFYING OFFICIAL AUTHORIZED TO ACT ON BEHALF OF THE APPLICANT

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <ol style="list-style-type: none"> Japan Aircraft Maintenance (America), Inc. 1018 80th Street, S.W. Everett, WA 98203 	<p>In accordance with letter dated April 16, 1987</p> <ol style="list-style-type: none"> License number 46-23247-01E is amended in its entirety to read as follows:
	<ol style="list-style-type: none"> Expiration date September 30, 1991
	<ol style="list-style-type: none"> Docket or Reference No. 030-20412

<ol style="list-style-type: none"> Byproduct, source, and/or special nuclear material 	<ol style="list-style-type: none"> Chemical and/or physical form 	<ol style="list-style-type: none"> Maximum amount that licensee may possess at any one time under this license
A. Americium-241	A. Foil source (Amersham Model AMM.1001)	A. Not applicable (See Condition 10.)

9. Authorized use

A. Pursuant to Section 32.26, 10 CFR Part 32, the licensee is authorized to distribute smoke detectors devices specified in Condition 10. to persons exempt from the requirments for a license pursuant to Section 30.20, 10 CFR Part 30.

CONDITIONS

10. The licensee is authorized to distribute the following smoke detector devices.

<u>DEVICE MODEL</u>	<u>MAXIMUM QUANTITY PER DEVICE</u>
PU90-21000-1	0.7 microcuries
PU90-41000-1	0.7 microcuries

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number	46-23247-01F
Docket or Reference number	030-20412
Amendment No.	01

CONDITIONS

11. Distribution shall be made from the licensee's facility at 1018 80th Street, S.W., Everett, Washington.
12. This license does not authorize possession or use of licensed material.
13. Japan Aircraft Maintenance (America), Inc. shall file periodic reports as specified in Section 32.29(c), 10 CFR Part 32.
14. Each device distributed under this license shall be manufactured, tested and labeled in accordance with the provisions of Section 32.26, 10 CFR Part 32, Section 30.20, 10 CFR Part 30 and all statements, representations and procedures contained in applications dated March 24, 1986 and letters dated July 3, 1986, August 14, 1986, August 18, 1986, August 26, 1986, September 12, 1986, September 17, 1986 and April 16, 1987.

FOR THE U. S. NUCLEAR REGULATORY COMMISSION

DATE July 30, 1987

BY *[Signature]*
 ✕ Medical, Academic, and Commercial Use
 Safety Branch
 Division of Fuel Cycle, Medical, Academic,
 and Commercial Use Safety
 Washington, D. C. 20555

5

Jamco America Inc.
1018 80th Street SW
Everett, WA 98203, USA

tel 425.347.4735
fax 425.355.0237



October 25, 2007

Director of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Copy to:
U.S. Nuclear Regulatory Commission Region IV
611 Ryan Plaza Drive
Suite 400,
Arlington, TX , 76011

Dear Sir,

The following is our record of shipped as required per the United States Nuclear Regulatory Commission Rules and Regulations part 32.

Lic# 46-23247-01E

SMOKE DETECTOR MODEL	2002	2003	2004	2005	2006	2007
Radiation content	each	each	each	each	each	each
PU-90-21000-1 0.7 micro curries each	727 each	533 each	525 each	577 each	354 each	261 each
PU90-41000-1 .0.7 micro curries each	918 each	1097 each	1143 each	1462 each	1750 each	1533 each
total Smoke Detector Qty	1645 each	1630 each	1668 each	2039 each	2104 each	1794 each

Grand Total 10,880 each

Sincerely,


BILLIE JO SIEMERING

Jamco America, Inc.
Smoke Detector Sales as of October 3, 2007

Sum of Quantity		Apldate							Grand Total
Itemkey	ItemDescription1	2007	2006	2005	2004	2003	2002		
PU90-21000-1	SENSORS			-23	-43	-16	-7	-6	-95
PU90-21000-1W	SMOKE DETECTOR/SENSOR				-6		-6		-12
PU90-21500R1	SMOKE DETECTOR	-56	-45	-244	-159	-112	-168		-784
PU90-21500R2	SMOKE DETECTOR	-9	-62	-125	-45	-10	-13		-264
PU90-409R2	SMOKE DETECTOR							-2	-2
PU90-41000-1	SENSOR	-4	-8	-30	-17	-55	-14		-128
PU90-41000-1W	SENSOR				-2	-10	-7		-19
PU90-419	SMOKE DETECTORS				-1	-1			-2
PU90-419R3	SMOKE DETECTOR AND BRACKET	-2	-2	-6					-10
PU90-421R2	SMOKE DETECTOR AND BRACKET	-5				-11		-9	-25
PU90-421R3	SMOKE DETECTOR AND BRACKET	-93	-235	-146	-307	-388	-261		-1430
PU90-421S	SMOKE DETECTOR AND BRACKET					-1		-1	-2
PU90-429WR1	SMOKE DETECTOR AND BRACKET						-22	-3	-25
PU90-429WR3	SMOKE DETECTOR AND BRACKET		-5	-3	-117	-53	-46		-224
PU90-431R1	SMOKE DETECTOR AND BRACKET		-10	-6	-16	-1	-1		-34
PU90-431R2	SMOKE DETECTOR AND BRACKET	-21	-19	-7	-3	-11	-34		-95
PU90-431R3	SMOKE DETECTOR AND BRACKET		-5	-1	-2	-12	-3		-23
PU90-431S	SMOKE DETECTOR AND BRACKET							-1	-1
PU90-439WR3	SMOKE DETECTOR AND BRACKET		-1			-3	-6		-10
PU90-439WS	SMOKE DETECTOR						-2		-2
PU90-451R2	SMOKE DETECTOR AND BRACKET							-2	-2
PU90-461	SMOKE DETECTORS				-9				-9
PU90-461R1	SMOKE DETECTOR AND BRACKET	-11	-21	-15	-12	-21	-25		-105
PU90-461R2	SMOKE DETECTOR AND BRACKET	-72	-77	-60	-23	-35	-54		-321
PU90-461R3	SMOKE DETECTOR AND BRACKET	-77	-62	-439	-106	-134	-229		-1047
PU90-461R4	SMOKE DETECTOR AND BRACKET	-5	-3	-24	-3	-4			-39
PU90-461S	SMOKE DETECTOR AND BRACKET	-43	-71	-53	-34	-25	-70		-296
PU90-471W	SMOKE DETECTORS				-2	-1			-3
PU90-471WCBR1	SMOKE DETECTOR AND BRACKET	-4					-5		-9
PU90-471WCBR2	SMOKE DETECTOR AND BRACKET	-22	-12	-7	-1				-42
PU90-471WCBR3	SMOKE DETECTOR AND BRACKET				0				0
PU90-471WCBS	SMOKE DETECTOR AND BRACKET			-2					-2
PU90-471WR1	SMOKE DETECTOR AND BRACKET	-100	-54	-141	-57	-46	-41		-439
PU90-471WR2	SMOKE DETECTOR AND BRACKET	-92	-207	-84	-82	-134	-96		-695
PU90-471WR3	SMOKE DETECTOR AND BRACKET	-826	-800	-365	-405	-144	-51		-2591
PU90-471WR4	SMOKE DETECTOR AND BRACKET	-67	-68	-27	-15	-21	-10		-208
PU90-471WS	SMOKE DETECTOR AND BRACKET	-91	-96	-44	-37	-54	-16		-338
PU90-499	SMOKE DETECTORS		-1	-1	-1				-3
PU90-499R2	SMOKE DETECTOR AND BRACKET	-1							-1
PU90-499R3	SMOKE DETECTOR AND BRACKET	-193	-208	-148	-181	-301	-485		-1516
PU90-499R4	SMOKE DETECTOR AND BRACKET		-7		-2	-14	-3		-26
PU90-499S	SMOKE DETECTOR AND BRACKET							-1	-1
PU90-671WR2	SMOKE DETECTOR AND BRACKET	-120							-120
PU90-671WR3	SMOKE DETECTOR AND BRACKET	-1	-2						-3
PU90-681WR3	SMOKE DETECTOR AND BRACKET	-3	-2						-5
PU90-681WS	SMOKE DETECTOR AND BRACKET	-9	-8						-17
Grand Total		-1927	-2116	-2039	-1668	-1630	-1645		-11025



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

OCTOBER 11, 2007

JAMCO AMERICA, INC.
1018 80TH STREET, SW
EVERETT, WA 98203

License No. 46-23247-01E
Expiration Date: 01/31/2008
Program Code: 03255

Gentlemen:

SUBJECT: NOTICE OF LICENSE EXPIRATION

Your U.S. Nuclear Regulatory Commission (NRC) license, specified above, will expire on the date shown.

If you wish to continue your licensed program, you should prepare and submit a renewal application on NRC Form 313, following regulations (10 CFR Parts) and licensing guidance (NUREG 1556, Volume/s) listed for your program in Enclosure 3. NRC strongly encourages the use of NUREG-1556 guidance documents because they supercede much of the guidance previously used for licensing. Further, these documents will make preparation of your renewal application and the NRC staff's review easier and quicker. If the application reflects any significant changes in your licensed program, those changes must be clearly indicated.

You must submit an application for the renewal of your license at least 30 days before the expiration date on the license. If your renewal application is filed (delivered or post-marked) before the expiration date, NRC will use discretion and your license will remain in effect until NRC takes final action on your application.

However, if your renewal application cannot be filed before the expiration date, you should contact NRC immediately to see if you can obtain a temporary extension of the expiration date. Without NRC approval of that extension request, your license expires on the expiration date stated on the license. If your license expires, you no longer have a valid license, but you are required to maintain all licensed materials in safe, locked storage until your application for a license or request for termination is submitted and approved. Use of the licensed material after the expiration of your license may subject you to criminal and/or civil sanctions.

If you do not wish to renew your license, you must dispose of or transfer all licensed radioactive material in your possession in an authorized manner (see the appropriate requirements in 10 CFR 30.36, 40.42, or 70.38); then complete the enclosed Form NRC-314, "Certificate of Disposition of Materials" and return it before the expiration date of your license, with a request that your license be terminated. If you cannot dispose of or transfer all licensed radioactive material in your license before the expiration date, you must request a license renewal, for "storage only", of the radioactive material, to avoid enforcement action for violations involving the possession of licensable material without a valid license. Enforcement action may include a substantial monetary civil penalty that could also include daily civil penalties until you achieve compliance.

This notice of your license expiration is sent for your convenience only and does not mean that similar notices will be sent in the future. The responsibility for timely submission of the license renewal remains with the licensee. If you have any questions about this notice or license expiration/renewal, please contact the NRC Regional Office that handles your license.

Enclosures:

1. Form NRC 313
2. Form NRC 314
3. Table of 10 CFR Parts and NUREG-1556,
Volume/s by Program Code

(7-1998)
 10 CFR 30.36(c)(1)(iv)
 10 CFR 40.42(c)(1)(iv)
 10 CFR 70.38(c)(1)(iv)

Estimated burden per response to comply with this mandatory information collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility has been cleared of radioactive material before the facility is released for unrestricted use. Forward comments regarding burden estimate to the Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0028), Office of Management and Budget, Washington, DC 20503. If 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.

CERTIFICATE OF DISPOSITION OF MATERIALS

INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED -- PRINT OR TYPE
 SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE

LICENSEE NAME AND ADDRESS	LICENSE NUMBER
	LICENSE EXPIRATION DATE

A. MATERIALS DATA (Check one and complete as necessary)

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT:
 (Check and/or complete the appropriate item(s) below.)

1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.
- OR
2. ALL ACTIVITIES AUTHORIZED BY THE LICENSE HAVE CEASED AND ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.)

Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions including the disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.

For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and license number.

If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the specific disposal procedures (e.g., decay in storage).

B. OTHER DATA

1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.
2. A RADIATION SURVEY WAS CONDUCTED BY THE LICENSEE TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE.
- NO (Attach explanation)
- YES, THE RESULTS (Check one)
- ARE ATTACHED, or
- WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM	NAME	TELEPHONE NUMBER (Include Area Code)
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4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE	SIGNATURE	DATE
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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 RESPECTS. 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 JURISDICTIONS.

FILE CERTIFICATES AS FOLLOWS:

IF YOU ARE A DISTRIBUTOR OF EXEMPT PRODUCTS, SEND TO:

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

ALL OTHERS, IF YOU ARE LOCATED IN:

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

LICENSING ASSISTANCE 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, SOUTH CAROLINA,
TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:**

NUCLEAR MATERIALS SAFETY SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
ATLANTA FEDERAL CENTER, SUITE 23T85
61 FORSYTH STREET, SW
ATLANTA, GA 30303-3415

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE ROAD
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:**

MATERIAL RADIATION PROTECTION SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064