

MATERIALS LICENSE

Amendment No. 01

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, 36, 39, 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.

OFFICIAL RECORD COPY

Licensee		In accordance with the letter dated August 14, 1996, 3. License Number 29-30324-01 is amended in its entirety to read as follows:	
1. AlliedSignal, Inc. Amorphous Metals		4. Expiration Date July 31, 2001	
2. 6 Eastmans Road Parsippany, New Jersey 07054		5. Docket or Reference No. 030-34192	
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Cesium 137	A. Sealed sources (Amersham Models CDC.800, CDC.711M, CDC.700, CDC.93, CDC.PE2; 3M Models 4F6S, 4D6P, 4F6P, 4F6ST; Gamma Industries Model VDHP; or Isotopes Products Labs Model 225 and A-3402)	A. Not to exceed 50 millicuries per source and 100 millicuries total	
9. Authorized use			
A. For possession and use in Ronan Engineering Model GS-200 level gauges.			

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 6 Eastmans Road, Parsippany, New Jersey.
11. A. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in application dated June 17, 1996 and have been designated in writing by the Radiation Safety Officer.
B. The Radiation Safety Officer for this license is Frederick L. Steinkopf.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

29-30324-01

Docket or Reference Number

030-34192

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14. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by Seimens Medical Systems, Inc.. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

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15. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.
16. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than six-month intervals or at such longer intervals as specified by the manufacturer and approved by the Commission or an Agreement State in a registration certificate referred to in 10 CFR 32.210.
17. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by Fred Steinkopf, Jim Hubbard, or by persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of such devices and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
18. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the device with the shutter open. This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State.
19. The licensee shall operate each device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
20. The licensee shall assure that the shutter mechanism of each device is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations.
21. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated June 17, 1996

For the U.S. Nuclear Regulatory Commission

Original Signed By:

Kathleen Dolce

Date SEP 30 1996

By

Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

SEP 30 1996

Mr. Rory J. O'Kane
Operations Manager
AlliedSignal, Inc.
Amorphous Metals
6 Eastmans Road
Parsippany, New Jersey 07054

Dear Mr. O'Kane:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original Signed By:

Kathleen Dolce
Division of Nuclear Materials Safety

License No. 29-30324-01
Docket No. 030-34192
Control No. 123594

Enclosure:
Amendment No. 01

DOCUMENT NAME: R:\WPS\MLTR\L2930324.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	Dolce\kd1						
DATE	08/29/96		08/ /96		08/ /96		08/ /96

OFFICIAL RECORD COPY **ML 10**

030-34192

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King Of Prussia, Pennsylvania 19406-1415

August 14, 1996

Mr. John Mc Grath

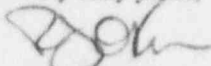
We are petitioning NRC to amend our material license # 29-30324-01 Docket # 030-34192, to permit Fred Steinkopf or Jim Hubbard to move our source holder from it's original mounting and then to replace it in it's original bracket.

Our intention is not to work on the source holder. If and when, extensive work has to be accomplished on the CCL line, the following would be accomplished by Fred Steinkopf or Jim Hubbard.

1. Padlock the source holder closed.
2. Survey.
3. Remove the source holder from it's mounting.
4. place the source holder in a locked safe, with the NSO having the only key.
5. the work would be accomplished.
6. Remount the source holder in the same orientation.
7. Unlock and open the shutter.
8. Survey.
9. Sign the area off as safe.

I am enclosing copies of Fred Steinkopf and Jim Hubbard's certificates from their 40 hours of Radiation Safety Course, a copy of the agenda of their course, and a check for \$290.00 to cover this amendment.

Very truly yours,



Rory J. O'Kane
Operations Manager

123594

OFFICIAL RECORD COPY

ML 10

AUG 22 1996



RONAN ENGINEERING COMPANY
NUCLEAR MEASUREMENTS DIVISION
FLORENCE, KENTUCKY

*This is to certify that
Frederick L. Steinkopf*

*has successfully completed the
RONAN RADIATION SAFETY
TRAINING SCHOOL*

The Following Topics Were Covered

The principles and fundamentals of radiation protection and good safety practices related to the use of radioactive materials.

Radioactivity measurements, use of radiation detection instruments, and monitoring techniques.

Biological effects of radiation.

Procedures for performing services.

Actual practice in performing the services.

July 26, 1996

Date

Lina Arnold

Instructor



RONAN ENGINEERING COMPANY
NUCLEAR MEASUREMENTS DIVISION
FLORENCE, KENTUCKY

This is to certify that
James R. Hubbard

has successfully completed the
RONAN RADIATION SAFETY
TRAINING SCHOOL

The Following Topics Were Covered

The principles and fundamentals of radiation protection and good safety practices related to the use of radioactive materials.

Radioactivity measurements, use of radiation detection instruments, and monitoring techniques.

Biological effects of radiation.

Procedures for performing services.

Actual practice in performing the services.

July 26, 1996

Date

Lisa Arnold

Instructor

40 HOUR RADIATION SAFETY COURSE

RONAN CONDUCTS AN EXTENSIVE RADIATION SAFETY COURSE DESIGNED FOR PEOPLE INVOLVED WITH THE OPERATION AND SAFETY OF INDUSTRIAL RADIO NUCLIDE SOURCES. ALL TOPICS LISTED ARE ADDRESSED, AS WELL AS TOPICS SPECIFICALLY REQUESTED BY THE CUSTOMER.

NEXT DATE: MAY 13 - 17, 1996

PROPOSED FUTURE

DATES: JULY 22 - 26, 1996

NOVEMBER 11 - 15, 1996

SEPTEMBER 23 - 27, 1996

COST PER ATTENDANT _____ \$725.00

SPACE IS LIMITED FOR EACH SESSION, SO PLEASE RESERVE YOUR SPOT AS SOON AS POSSIBLE AND PLEASE CONFIRM REGISTRATION TWO WEEKS PRIOR TO THE SCHEDULED SESSION.

RONAN WILL ADDRESS ANY SPECIFIC SUBJECT REQUESTED AFTER THE SESSION. AN ACKNOWLEDGMENT LETTER WITH ADDITIONAL HOTEL AND ENTERTAINMENT INFORMATION WILL BE SENT AFTER WE RECEIVE YOUR CONFIRMATION. SHOULD YOU HAVE ANY QUESTIONS PLEASE CALL: (606)342-8500.

EXTENSIVE 40 HOUR RADIATION SAFETY COURSE

<u>DAY</u>	<u>TOPIC</u>
MONDAY	INTRODUCTION NATURE OF RADIOISOTOPES RADIATION DETECTION INSTRUMENTS RADIATION PROTECTION PROCEDURES RADIATION MATHEMATICS SURVEY METERS, DESCRIPTION & OPERATION
TUESDAY	BIOLOGICAL EFFECTS PERSONNEL MONITORING EQUIPMENT, DESCRIPTION AND USE SOURCE HOLDER REINSTALLATION, REMOVAL & RELOCATION EXPOSED SOURCE HANDLING PRECAUTIONS REMOVAL AND INSTALLATION
WEDNESDAY	RADIATION SURVEY & OCCUPANCY EVALUATIONS WIPE TEST AND ANALYSIS ESTABLISHING A RADIATION PROTECTION PROGRAM CONTROLLING RADIOLOGICAL EMERGENCIES HANDLING AN EMERGENCY SITUATION SUBMITTING REPORTS AND INCIDENTS NOTIFICATION
THURSDAY	NRC AND AGREEMENT STATE RULES AND REGULATIONS DEPARTMENT OF TRANSPORTATION & REGULATIONS COMPLETING A BILL OF LANDING PREPARE A UNIT FOR SHIPMENT RADIOACTIVE MATERIAL LICENSE APPLICATION
FRIDAY	REVIEW COMPREHENSIVE EXAMINATION COURSE CRITIQUE RADIATION COURSE ENDS SPECIFIC SUBJECT AREA PER CUSTOMER REQUEST SESSION ENDS

NOTE: The above Radiation Safety Course may be conducted at your facility. Please call for information and

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001ALLIEDSIGNAL, INC.
ATTN: RORY J. O'KANE
OPERATIONS MANAGER
6 EASTMANS ROAD
PARSIPPANY, NEW JERSEY 07054

TYPE OF ACTION

- ☐ NEW LICENSE
☐ RENEWAL OF LICENSE
☒ AMENDMENT TO LICENSE

REQUESTED DATE

8-14-96

LICENSE NUMBER

29-30324-01

CONTROL NUMBER

123594

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3P	\$	\$	\$ 300.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	300.00
PAYMENT RECEIVED	\$	290.00
AMOUNT DUE	\$	10.00

☐ Your request was received without the prescribed application fee.

☒ We received your Check No. 79024 in the amount of \$ 290.00. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(e).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE - LICENSE FEE ANALYST

LFDCB

LFDCB

SHIRLEY CRUTCHFIELD

9/3/96

II. FEE NOT REQUIRED

☐ Enclosed is Check No. _____ which accompanied your request. The fee is not required because:

☐ We received your Check No. _____ in payment of the fee.

☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____.

☐ Your request was combined, prior to review, with your _____ request, Control No. _____.

III. CHECK RETURNED

☐ Enclosed is Check No. _____ which was returned to us by the bank for:

- ☐ INSUFFICIENT FUNDS
☐ ACCOUNT CLOSED
☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. _____, Amendment No. _____, issued on _____ was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

Distribution:

Pending Fee File OC/DAF/RF
LFARB R/F (2) OC/DAF/SF(LF-3.2.7)
Region I

DATE

Sept. 4, 1996

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03120

STATUS CODE: 0

FEE CATEGORY: 3P

EXP. DATE: 20010731

FEE COMMENTS:

DECOM FIN ASSUR REQD: N

LICENSE FEE TRANSMITTAL

A. REGION

I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: ALLIEDSIGNAL, INC.

RECEIVED DATE: 960822

DOCKET NO: 3034192

CONTROL NO.: 123594

LICENSE NO.: 29-30324-01

ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$290.00

CHECK NO.: 079024

3. COMMENTS

SIGNED

DATE

M. A. Lerman

8/26/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1)

1. FEE CATEGORY AND AMOUNT:

3P

\$300

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT

RENEWAL

LICENSE

3. OTHER

SIGNED

DATE

*Spoke w/ Mary O'Kane.
I spoke w/ her
earlier this year,
\$290 was fee I quoted
her at that time.
When actually sent in
request, \$10 additional is
due because of increase.
Rep not \$10, process is long,
but will send \$10 ASAP.*

Log	<u>Aug 15 I</u>
Remitter	<u>79024 / 78373</u>
Check No.	<u>79024 / 78373</u>
Amount	<u>\$290 + \$10</u>
Fee Category	<u>3P</u>
Type of Fee	<u>Amend</u>
Date Check Rec'd	<u>8/29/96</u>
Date Completed	<u>8/23/96</u>
By:	<u>PL</u>