

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

1. Hewlett-Packard Company
2. Little Falls Center
2850 Centerville Road
Wilmington, Delaware 19808

In accordance with the letter dated
August 21, 1996,
3. License Number 07-28762-01 is amended in
its entirety to read as follows:

4. Expiration Date October 31, 2002

5. Docket or
Reference No. 030-32792

6. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This License

- A. Hydrogen 3
- B. Nickel 63
- C. Nickel 63
- D. Nickel 63

- A. Titanium Tritide Foils
- B. Plated sources and parts
- C. Foils
- D. Any

- A. 5 curies total
- B. 50 curies
- C. 1 curie
- D. 1 millicurie

9. Authorized use

- A. through C. For use in the development, testing, production and assembly of detector cells; repair and maintenance of detector cells; demonstration of use of detector cells; and for distribution in detector cells to persons authorized to receive the licensed material pursuant to terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or any Agreement State.
- D. For use in the development, testing, production, assembly, repair and maintenance of detection cells, and for storage of waste materials.

CONDITIONS

10. Licensed material may be used at the licensee's facilities at Little Falls Center, 2850 Centerville Road, Wilmington, Delaware and at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.
11. A. Licensed material shall be used by, or under the supervision of Brian Donnelly, Irv Maiorano, Rick Phillips, Paul Larson, Vernon Garner, John V. Wisniewski, Marvin Welsh, James Peters, William Howell and Richard H. Kolloff.
B. The Radiation Safety Office for this license is Alan Kamyab.
12. This license does not authorize commercial distribution of licensed material to persons generally licensed pursuant to 10 CFR 31 or to persons exempt from licensing pursuant to 10 CFR 30.18.

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PDR ADOCK 03032792
C PDR

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

07-28762-01

Docket or Reference Number

030-32792

Amendment No. 01

13. 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 licensee. 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.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

07-28762-01

Docket or Reference Number

030-32792

Amendment No. 01

14. 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.
15. A. Detector cells containing a titanium tritide foil or a scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents the foil temperatures from exceeding that specified in the certificate of registration referred to in 10 CFR 32.210.
- B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.
16. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material".
17. 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. Drawings attached to original application dated September 16, 1992
- B. Revised application dated September 16, 1992 that was attached to a letter dated October 19, 1992
- C. Letter dated October 19, 1992
- D. Two Telefaxes dated October 23, 1992

For the U.S. Nuclear Regulatory Commission

Original Signed By:

John R. McGrath

By

Nuclear Materials Safety Branch

Region I

King of Prussia, Pennsylvania 19406

OCT 24 1996

Date _____

OCT 24 1996

Tom Zunino
Quality Engineering Manager
Hewlett-Packard Company
Little Falls Center
2850 Centerville Road
Wilmington, DE 19808

Dear Mr. Zunino:


This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license. Also, please take note of changes made to your license in accordance with current licensing policy.

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:
John R. McGrath

 Francis M. Costello, Chief
Nuclear Materials Safety Branch 3
Division of Nuclear Materials Safety

License No. 07-28762-01
Docket No. 030-32792
Control No. 123604

Enclosure:
Amendment No. 01

DOCUMENT NAME: R:\WPS\MLTR\L0728762.01

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	Reber/eh		Costello				
DATE	08/30/96		08/ /96	08/ /96		08/ /96	

OFFICIAL RECORD COPY

ML 10

Hewlett-Packard Company
Little Falls Site
2850 Centerville Rd.
Wilmington, DE 19808



Aug. 21, 1996

US Nuclear Regulatory Commission
License Management Office
475 Allendale Road
King of Prussia, PA 19406

030-32792

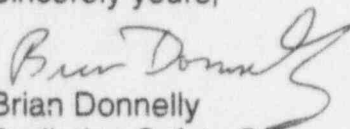
Re: License 07-28762-01

Dear License Administrator,

The purpose of this letter is to inform you of a change in personnel. Effective Aug. 28, 1996 the new Radiation Safety Officer for the Hewlett-Packard Little Falls Analytical Division will be Mr. Alan Kamyab. For your reference I have attached a copy of Mr. Kamyab's radiation safety resume.

If you should have any questions, or require any additional information, please do not hesitate to contact me at (302)633-8120 or Mr. Kamyab at (302)633-8793. Thank you for your assistance in these matters.

Sincerely yours,


Brian Donnelly
Radiation Safety Officer
Hewlett-Packard
Little Falls Site

OFFICIAL RECORD COPY

ML 10

123604

AUG 23 1996

NAME: Alan Kamyab

TITLE: Safety Engineer/RSO

EDUCATION: B.S.E.E.

RESPONSIBILITIES: Responsible for product safety, and Radiation Safety Officer.

ON THE JOB TRAINING:

<u>Company</u>	<u>Isotope</u>	<u>Max. Amount</u>	<u>Type of training</u>	<u>Dates</u>
Hewlett Packard	Ni63	15mci	Gas Chromatography	9/91-Present
Hewlett Packard	Ni63	15mci	Electron Capture Detectors	7/96-Present

FORMAL TRAINING:

<u>Name of Class</u>	<u>Instructor/ Organization</u>	<u>Duration of Training</u>	<u>Date of Completion</u>
Radiation Safety	Hewlett-Packard Brian Donnelly	2.0 hrs.	8/21/96
Fundamentals of Radiation Safety	Radiation Service Organization	16 hours	12/13/91

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Licensee

1. Hewlett-Packard Company

3. License number 07-28762-01

2. Little Falls Center
2850 Centerville Road
Wilmington, Delaware 19808

4. Expiration date October 31, 1997

5. Docket or
Reference No 030-32792 (37-07002-02)6. Byproduct, source, and/or
special nuclear material7. Chemical and/or physical
form8. Maximum amount that licensee
may possess at any one time
under this licenseA. Hydrogen 3
B. Nickel 63
C. Nickel 63
D. Nickel 63A. Titanium Tritide Foils
B. Plated sources and parts
C. Foils
D. AnyA. 5 curies total
B. 50 curies
C. 1 curie
D. 1 millicurie

9. Authorized use

- A. through C. For use in the development, testing, production and assembly of detector cells; repair and maintenance of detector cells; demonstration of use of detector cells; and for distribution in detector cells to persons authorized to receive the licensed material pursuant to terms and conditions of specific licenses issued by the Nuclear Regulatory Commission or any Agreement State.
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- B. The Radiation Safety Office for this license is ~~Brian Donnelly~~.

Alan Kamyab

RECEIVED - SL-100

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 20555-0001HEWLETT-PACKARD COMPANY
ATTN: BRIAN DONNELLY
RADIATION SAFETY OFFICER
2850 CENTERVILLE ROAD
WILMINGTON, DELAWARE 19808

TYPE OF ACTION

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

REQUESTED DATE

8-21-96

LICENSE NUMBER

07-28762-01

CONTROL NUMBER

123604

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
3N	\$	\$	\$ 590.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	590.00
PAYMENT RECEIVED	\$	0.00
AMOUNT DUE	\$	590.00

☒ Your request was received without the prescribed application fee.

☐ We received your Check No. _____ in the amount of \$ _____. 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(a).

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

Distribution:

Pending Fee File

LFARB R/F (2)

OC/DAF/R/F
OC/DAF/SF(LF-3.2.7)
Region I

DATE

Sept. 4, 1996

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

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: PROGRAM CODE: 03214
: STATUS CODE: 0
: FEE CATEGORY: 3B 3N
: EXP. DATE: 20021031
: FEE COMMENTS: -----
: DECOM FIN ASSUR REQD: N
: *****

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LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: HEWLETT PACKARD
RECEIVED DATE: 960823
DOCKET NO: 3032792
CONTROL NO.: 123604
LICENSE NO.: 07-28762-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: _____
CHECK NO.: _____

3. COMMENTS

SIGNED
DATE

M. A. Perkins
8/26/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED ⁶1/1)

1. FEE CATEGORY AND AMOUNT: 30 (3N) \$590

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

AMENDMENT
RENEWAL
LICENSE

3. OTHER -----

SIGNED
DATE

Year	Number of people (millions)
1960	55
1965	60
1970	65
1975	75
1980	85
1985	90
1990	95

Log Aug 15 I
 Remitter _____
 Check No. 000 15 333 11
 Amount \$ 590
 Fee Category 53 (31)
 Type of Fee Amo
 Date Check Rec'd 8/15/96
 Date Completed 8/15
 By: B/S