

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.

302302

Licensee

1. Keithley Instruments, Inc.
Radiation Measurements Division

2. 28775 Aurora Road
Cleveland, OH 44139

In accordance with letters dated
January 30, 1997 and February 7, 1997
3. License Number 34-26760-01 is amended
in its entirety to read as follows:

4. Expiration Date January 30, 2002

5. Docket or
Reference No. 030-34256

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 source
(J. L. Shepherd Model
No. 6810)

A. 2 sources not to
exceed 4 curies each

B. Cobalt-60

B. Sealed source
(J. L. Shepherd Model
No. 7810)

B. 2 sources not to
exceed 1.2 curies each

C. Strontium 90/Yttrium-90

C. Sealed source
(Amersham Model
No. S1F.D1 (S1F-1177))

C. 200 millicuries

9. Authorized Use:

A. and B. One cesium-137 source and one cobalt-60 source to be used in a J. L. Shepherd Model 81-12D gamma irradiator/calibrator for the calibration of and for research and development of radiation detection instruments.

One cesium-137 source and one cobalt-60 source to be stored in shipping containers for source replacement purposes.

C. To be used in a J. L. Shepherd Model 492 beta irradiator/calibrator for irradiation of thermoluminescent personnel dosimeters to verify response and for research and development of dosimeters.

110107



9704140042 970312
PDR ADDCK 03034256
C PDR

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

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CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Keithley Instruments, Inc., Radiation Measurements Division, 6045 Cochran Road, Solon, Ohio.
11. Radiation Safety Officer: Robert J. Kobistek
12. 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 received dated September 30, 1996, letter dated November 27, 1996 and have been approved in writing by the Radiation Safety Officer.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
C. Sealed sources 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 transferred 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.

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- D. The leak 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 in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.
- E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
14. The licensee shall not perform repairs or alterations of the irradiator involving removal of shielding or access to the licensed material. Removal, replacement, and disposal of sealed sources in the irradiator shall be performed by a person specifically licensed by the Commission or an Agreement State to perform such services.
15. The procedures contained in the manufacturers' instruction manuals for the Model 81-12 and Model 492 devices shall be followed and a copy of these manuals shall be made available to each person using or having responsibility for the use of these device.
16. The licensee may not possess and use materials authorized in Items 6, 7, and 8 until:
1. The licensee has constructed the facilities and obtained the equipment described in the application and supporting documentation; and
 2. The U. S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Materials Licensing Branch, 801 Warrenville Road, Lisle, IL 60532-4351 has been notified that activities authorized by the license will be initiated.
17. Within 30 days of the date of a decision not to complete the facility, acquire equipment, or possess and use authorized material, the licensee must notify the Commission in writing, of the decision.

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

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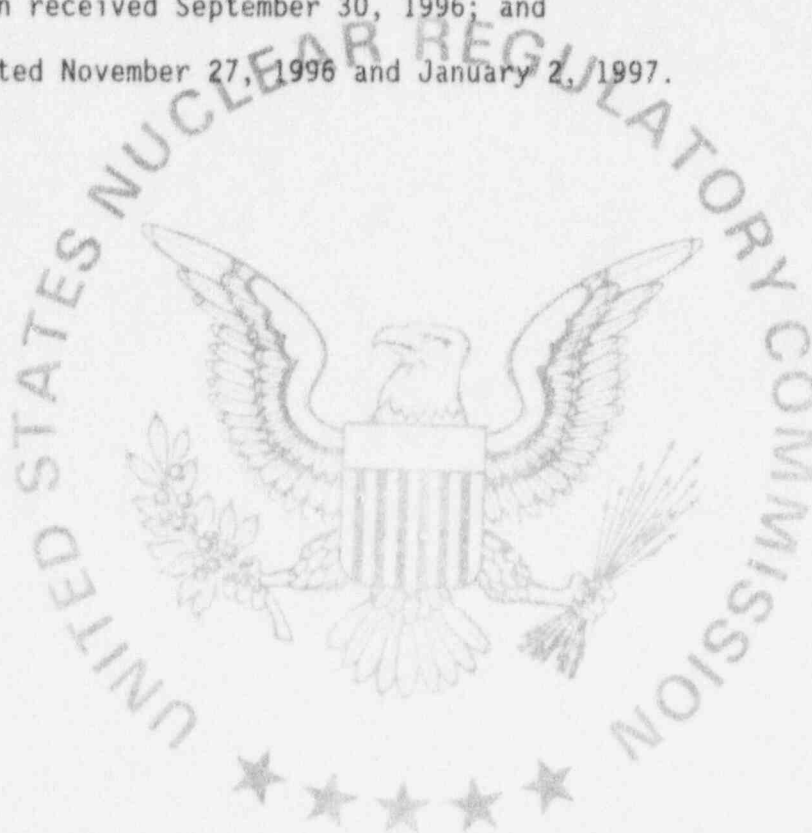
030-34256

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18. 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 U.S. 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 received September 30, 1996; and

B. Letters dated November 27, 1996 and January 2, 1997.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date March 13, 1997

By

Richard R. Matson
Nuclear Materials Licensing Branch, Region III

COPY

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

R9

Program Code: 03511
Status Code: 0
Fee Category: 3E
Exp. Date: 20020130
Fee Comments:
Decon Fin Assur Regd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: KEITHLEY INSTRUMENTS INCORPORATED
Received Date: 970207
Docket No: 3034256
Control No.: 302302
License No.: 34-25760-01
Action Type: Amendment

2. FEE ATTACHED

Amount: *
Check No.: *

* Addl Info
301903 - R9

3. COMMENTS

Signed D. Hersey
Date 2-13-97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / ☒)

1. Fee Category and Amount: 3E

2. Correct Fee Paid. Application may be processed for:

Amendment ☒
Renewal ☐
License ☐

3. OTHER

Signed AC
Date 2/18/97

MAR 03 1997

FEE NOT REQUIRED

1997 FEB 18 PM 1:40

RECEIVED BY LFDCB	
Date	<u>Feb. 18, 1997</u>
Log	<u>Feb 7 III</u>
By	<u>AC</u>
Date Completed	<u>2/18/97</u>

KEITHLEY RADIATION
MEASUREMENTS

Radiation Measurements Division
Keithley Instruments, Inc.
28775 Aurora Road
Cleveland, Ohio 44139
(216) 249-0400 • Fax: (216) 349-2307

January 30, 1997

Ms. Evelyn R. Matson
US Nuclear Regulatory Commission, Region III
801 Warrenville Rd.
Lisle, IL 60532

Re: 301903

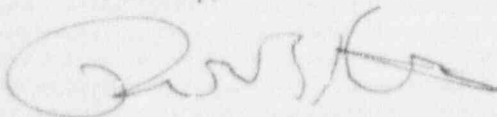
Dear Ms. Matson:

Pursuant to our conversation of January 29, 1997, we are submitting additional information for the application referenced above.

The JL Shepherd Model 81 gamma irradiator will be used for calibration of radiation detection instrumentation as a part of the manufacturing process, and as a final test of instruments returned for repair. The source may also be used for research & development of radiation detection instruments.

Thank you again for your help. You may contact me at (216)498-2577 for further discussion.

Sincerely,



Robert J. Kobistek
Radiation Safety Officer

Cont'd 17 301903
FEE NOT REQUIRED

PM: 2-3-97

RECEIVED

FEB 07 1997

REGION III

302302

FEB 07 1997

KEITHLEY RADIATION
MEASUREMENTS

Radiation Measurements Division
Keithley Instruments, Inc.
28775 Aurora Road
Cleveland, Ohio 44139
(216) 248-0400 • Fax: (216) 349-2307

February 7, 1997

Ms. Evelyn R. Matson
US Nuclear Regulatory Commission, Region III
801 Warrenville Rd.
Lisle, IL 60532

Re: 301903

Dear Ms. Matson:

Pursuant to our conversation of February 5, 1997, we are submitting additional information for the application referenced above.

Item 3 in our application, and Item 10 in the Materials License shows the site address as 6045 Cochran Rd., Cleveland, Ohio. While this address suffices as a mailing address, the site is technically located in the suburb of Solon, Ohio, therefore we request that Item 10 in the license be changed to 6045 Cochran Rd., Solon Ohio.

Thank you again for your help. You may contact me at (216)498-2577 for further discussion.

Sincerely,



Robert J. Kobistek
Radiation Safety Officer

RECEIVED
FEB 10 1997
REGION III

pm: 2-7-97

302502
FEB 10 1997

MAR 06 1997

Robert J. Kobistek
Keithley Instruments, Inc.
Radiation Measurements Division
28775 Aurora Road
Cleveland, OH 44139

Dear Mr. Kobistek:

Enclosed is Amendment No. 01 to your NRC Material License No. 34-26760-01 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
 - a. When the Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
 - b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).

302302

3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;
 - b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
 - d. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements,

R. Kobistek

-3-

prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Original Signed By
Evelyn R. Matson
Nuclear Materials Licensing Branch

License No. 34-26760-01
Docket No. 030-34256

Enclosure: Amendment No. 01

DOCUMENT NAME: M:\03034256.CL7

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DNMS/RIII <i>MM</i>	<input checked="" type="checkbox"/>							
NAME	ERMatson:brt								
DATE	03/ 5 /97								

OFFICIAL RECORD COPY



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

February 14, 1997

Robert J. Kobistek
Radiation Safety Officer
Keithley Instruments Incorporated
Radiation Measurements Division
28775 Aurora Road
Cleveland, OH 44139

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letters Dated 01/30/97 & 02/07/97)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License ☒ Amendment ☐ Renewal
☐ Termination ☐ Auth User (Amendment not required)
☐ Other _____

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 302302
License No. 34-26760-01