

MATERIALS LICENSE

Amendment No. 16

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 December 2, 1996, 3. License Number 29-08636-02 is amended in its entirety to read as follows:
1. EMR Photoelectric 2. 20 Wallace Road Princeton Junction, New Jersey 08550		4. Expiration Date April 30, 2002
		5. Docket or Reference No. 030-11318
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. Hydrogen 3	A. Any	A. 2,000 curies
B. Cobalt 60	B. Sealed source (Gammatron Model GT-G)	B. 800 microcuries
C. Strontium 90	C. Sealed source (Isotope Products Model BF-90-SS)	C. 1 millicurie
D. Cesium 137	D. Sealed source (Amersham Model CDC.701)	D. 1 millicurie
E. Americium 241	E. Sealed neutron source (Monsanto Research Corp., Model 2721B)	E. 135 millicuries
F. Americium 241	F. Sealed sources (Isotope Products Model GFS Series)	F. Not to exceed 100 microcuries per source and 2 millicuries total
G. Americium 241	G. Sealed source (Amersham Model AMC-62)	G. 1 millicurie
9. Authorized use		
A. The manufacture of sealed neutron generator tubes containing a maximum of 10 curies of hydrogen 3 each; distribution to persons authorized to possess these neutron generator tubes by a specific license issued by the Nuclear Regulatory Commission or an Agreement State; research and development as defined in 10 CFR 30.4, including assembly and disassembly of sealed neutron generator tubes.		
B. through G. Instrument check sources.		

CONDITIONS



10. Licensed material may be used only at the licensee's facilities at 20 Wallace Road, Princeton Junction, New Jersey.

11. A. Licensed material shall be used by, or under the supervision of, Lou Cardarelli, John Frolio, Joel Lee Groves, Kevin Lewis, Steven Meddaugh, Donald Miller, Harold Pfutzner, John Simonetti, James Thornton, and Stefan Vajda.

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B. The Radiation Safety Officer for this license is Joel Lee Groves.

12. Each device distributed pursuant to the conditions of this license shall be in accordance with the following table:

<u>Device Model Number</u>	<u>Isotope</u>	<u>Maximum Activity Per Source</u>
758	Hydrogen 3	10.0 curies
761	Hydrogen 3	10.0 curies
762	Hydrogen 3	10.0 curies

13. Neutron tubes other than EMR Photoelectric Models 758, 761 and 762 may be transferred only to Schlumberger Technology Corporation at Schlumberger-Doll Research, Ridgefield, Connecticut (License No. 06-00807-01) and at Schlumberger Houston Product Center, Sugarland, Texas (License No. 42-00090-03).
14. 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 are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed 3 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 3 months.
- C. In the absence of a certificate from a transferor indicating that a 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 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.

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- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. 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 shall be removed 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 I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by the 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.
15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
16. 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.
17. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."
18. Radioactive waste generated shall be stored in accordance with the statements, representations, and procedures included with the waste storage plan described in the licensee's letter dated May 30, 1995.
19. 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 July 11, 1980
 - B. Letter dated February 6, 1981
 - C. Application dated May 30, 1984
 - D. Letter dated September 22, 1986
 - E. Letter dated May 30, 1995
 - F. Letter dated December 2, 1996

For the U.S. Nuclear Regulatory Commission

Date JAN 31 1997

By

ORIGINAL SIGNED BY:
THOMAS K. THOMPSONNuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

JAN 31 1997

Mr. John F. Hunka
General Manager
EMR Photoelectric
20 Wallace Road
Princeton Junction, NJ 08550

Dear Mr. Hunka:

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.

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:

JoAnn V. Stambaugh

Division of Nuclear Materials Safety

License No. 29-08636-02
Docket No. 030-11318
Control No. 124029

Enclosure:
Amendment No. 16

DOCUMENT NAME: R:\WPS\MLTR\L2908636.02

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	Stambaugh/jvs	NS					
DATE	12/27/96	12/27/96	12/ /96	12/ /96	12/ /96	12/ /96	

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EMR Photoelectric
P. O. Box 44
Princeton, NJ 08542-0044
(609) 799-1000
(609) 799-2247 (fax)

030-11318

NRC License #29-08636-02

December 2, 1996
RSO:96-34

NRC Administrator
U. S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

RE: NRC Mail to EMR Photoelectric

Dear NRC Administrator:

Some of the NRC mailings that we receive are addressed to previous employees of EMR Photoelectric. Please correct all your mailing lists.

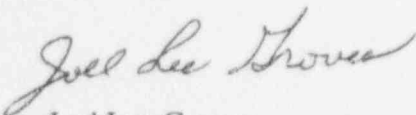
Mail to the General Manager of EMR Photoelectric should be addressed to:

John F. Hunka, General Manager
EMR Photoelectric
20 Wallace Road
Princeton Junction, NJ 08550

Mail to the Radiation Safety Officer should be addressed to:

Joel Lee Groves, Radiation Safety Officer
EMR Photoelectric
20 Wallace Road
Princeton Junction, NJ 08550

Sincerely,



Joel Lee Groves
Radiation Safety Officer

cc: John Hunka, General Manager, EMR Photoelectric
Rebecca Millard, HS&E Manager, EMR Photoelectric
James Thornton, Chairperson, Radiation Safety Committee, EMR Photoelectric

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03214
STATUS CODE: 0
FEE CATEGORY: 3B
EXP. DATE: 20020430
FEE COMMENTS: 3B OK SEE 2/27/91 NOT
DECOM FIN ASSUR REQD: Y
.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: EMR PHOTOELECTRIC
RECEIVED DATE: 961217
DOCKET NO: 3011318
CONTROL NO.: 124029
LICENSE NO.: 29-08636-02
ACTION TYPE: AMENDMENT *

2. FEE ATTACHED

AMOUNT: -----
CHECK NO.: -----

3. COMMENTS

* Per acting Branch Chief,
Administrative Amendment

SIGNED B. J. Brown
DATE 12/26/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1/2/97)

1. FEE CATEGORY AND AMOUNT: 3B Mailing add chg. only

2. CORRECT FEE PAID ☒ APPLICATION MAY BE PROCESSED FOR:
AMENDMENT -----
RENEWAL -----
LICENSE -----

3. OTHER -----

SIGNED SC
DATE 1/2/97

JAN 02 1997

RECEIVED BY LFDCB	
Date	<u>Jan. 1, 1997</u>
Log	<u>Jan 1 I</u>
By	<u>SC</u>
Date Completed	<u>1/2/97</u>

Mailing add chg. only
FEE NOT REQUIRED