

## 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 letter dated April 2, 1997	
1. LFE Industrial Systems Corporation		3. License Number 20-01382-03 is amended in its entirety to read as follows:	
2. 55 Green Street Clinton, Massachusetts 01510		4. Expiration Date November 30, 2000	
		5. Docket or Reference No. 030-34389/20-01382-02	
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. Strontium 90	A. Sealed sources	A. Not to exceed 150 millicuries per source, total not to exceed 50 curies	
B. Krypton 85	B. Sealed sources	B. Not to exceed 1.5 curies per source, total not to exceed 200 curies	
C. Americium 241	C. Sealed sources	C. Not to exceed 1 curie per source, total not to exceed 30 curies	
D. Cobalt 60	D. Sealed sources	D. Not to exceed 1 curie per source, total not to exceed 2 curies	
E. Cesium 137	E. Sealed sources	E. Not to exceed 1 curie per source, total not to exceed 3 curies	
F. Promethium 147	F. Sealed sources	F. Not to exceed 150 millicuries per source, total not to exceed 1 curie	

## 9. Authorized use

A. through F. For use and/or possession incident to:

- (1) Installation into or removal from gauging devices.
- (2) Installation, relocation, repair, and servicing of LFE Industrial Systems Corporation devices and other gauging devices of the same basic design as LFE devices manufactured by the following companies: ABB Process Automation, Accuray, Advanz, Aeonics, Barber Colman, Betacontrol, Eurotherm, FAG, Fife, Indev, Mahlo, Measurex, NDC Systems, Ohmart, and Yokogawa. Leak Testing of sealed sources and radiation surveys of devices are included.
- (3) Instruction and training of individuals in the use of gauging devices.



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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

20-01382-03

Docket or Reference Number

030-34389/20-01382-02

Amendment No. 01

- (4) Pick-up and transfer of sealed sources and devices manufactured by LFE Industrial Systems Corporation and other devices manufactured by the companies listed in (4) above received from customers for disposal.

CONDITIONS

10. Licensed material may be used only 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 Niels-Peter R. Hansen, Robert Schartner, Richard Shatos or individuals who have completed the training described in licensee letters dated April 14, 1995 and August 10, 1995 and have been approved in writing by William R. Prendergast.
- B. The Radiation Safety Officer for this license is Niels-Peter R. Hansen.
12. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
13. 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 December 15, 1993
- B. Letter dated February 27, 1995
- C. Letter dated April 14, 1995
- D. Letter dated August 10, 1995
- E. Letter dated September 18, 1995
- F. Letter dated October 2, 1995
- G. Letter dated November 3, 1995

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

JUN - 2 1997

Date \_\_\_\_\_

JUN - 2 1997

Peter Hansen  
Principal Engineer, RSO  
LFE Industrial Systems Corporation  
55 Green Street  
Clinton, Massachusetts 01510

Dear Mr. Hansen:

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:  
John R. McGrath

John R. McGrath  
Senior Health Physicist  
Division of Nuclear Materials Safety

License No. 20-01382-03  
Docket No. 030-34389  
Control No. 124451

Enclosure:  
Amendment No. 01

DOCUMENT NAME: R:\WPS\MLTR\L2001382.03

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	<input checked="" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	McGrath	JRM					
DATE	04/16/97		04/ /97	04/ /97	04/ /97	04/ /97	

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A Mark IV Company

April 3, 1997

Mr. John R. McGrath  
Senior Health Physicist  
Nuclear Materials Safety Branch  
Division of Radiation Safety & Safeguards  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

License #: 20-01382-03  
~~20-01382-03~~

Dear Mr. McGrath:

As per our recent telephone conversation, I am enclosing a copy of the letter of February 27, 1997 pertaining to functions carried out by our field personnel.

If I can be of further assistance in this matter, please call me at (508) 365-3443.

Sincerely,

Peter Hansen  
Principal Engineer, RSO  
LFE Industrial Systems Corporation

PH/dl

Enclosure

55 Green Street  
Clinton,  
Massachusetts  
01510  
Telephone  
(508) 365-3400

OFFICIAL RECORD COPY

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February 27, 1995

Ms. Tara Wagner  
Licensing Section  
Nuclear Materials Safety Branch  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

REF: License Number: 20-01382-02  
Mail Control 119410

Dear Ms. Wagner:

This letter confirms our recent telephone conversation concerning a requested amendment to license number 20-01382-02. LFE requested an amendment to authorize LFE to perform certain activities pertaining to radiation gauging devices manufactured by companies other than LFE. You agreed that the amendment would be processed if LFE made certain commitments. Those commitments are stated and agreed to in this letter.

1. LFE will perform certain field service operations concerning gauging devices of the same basic design as LFE gauging devices and manufactured by only the following companies: ABB Process Automation, Accuray, Advanz, Aeonics, Barber Colman, Betacontrol, Eurotherm, FAG, Fife, Indev, Mahlo, Measurex, NDC Systems, Ohmart, and Yokogawa.
2. LFE will perform the following field service operations pertaining to gauging devices supplied by the manufacturers listed above:
  - a. Installation, removal from installation, and relocation.
  - b. Radiation Surveys
  - c. Leak Testing
  - d. Device window replacement
  - e. Shutter and indicator maintenance and repair.
  - f. Service to scanning mechanisms
  - g. Source replacement
  - h. Picking up, storing, and transferring sealed sources and devices manufactured by the companies listed in (1).
3. LFE will not perform field service on gauging devices containing Promethium-147.
4. When parts are required to service a gauging device, LFE will use only parts supplied by the manufacturer of the gauging device.

5. LFE Field Service Engineers will perform a radiation survey before and after performing service on gauging devices supplied by the manufacturers listed in (1).
6. Any unusual circumstances will be reported to LFE's Radiation Safety Officer by LFE Field Service Engineers prior to commencing any field service operators.

I trust that I have addressed the points that we discussed and that you will be able to process the amendment to license number 20-01382-02. When I receive the amended license, I will update the Radiation Safety Manual to agree.

Thank you for your assistance in the matter. If you have any questions, please call me at (508) 365-3400

Very truly yours,

William R. Prendergast  
Radiation Safety Officer  
LFE Industrial Systems Corporation

WRP/ddl



April 2, 1997

A Mark IV Company

Mr. John R. McGrath  
Senior Health Physicist  
Nuclear Materials Safety Branch  
Division of Radiation Safety & Safeguards  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

License # 20-01382-03  
Docket # 030-34389

Dear Mr. McGrath:

We have received your letter dated March 21, 1997 informing us that the Commonwealth of Massachusetts has become an Agreement State and that our licenses have been transferred to Massachusetts as of March 21, 1997. We are also in receipt of our new NRC License #20-01382-03 allowing LFE Industrial Systems Corporation personnel to conduct Field Service functions in non-agreement states where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

We would like to make an addition to condition 9. (Authorized Use) to read:

- (4) Pick-up, storage, and transfer of sealed sources and devices manufactured by LFE Industrial Systems Corporation and other devices manufactured by the companies listed in (2) above received from customers for disposal.

We would also like to change Condition 11.A which presently reads:

- 11.A Licensed material shall be used by, or under the supervision of Niels-Peter R. Hansen, Robert Schartner, and Richard Shatos.

To read as follows:

- 11.A Licensed material shall be used by, or under the supervision of Niels-Peter R. Hansen, Robert Schartner, Richard Shatos, or individuals who have completed the training described in license letters dated April 14, 1995 and August 10, 1995.

Thank you for your cooperation. If I can be of further assistance, I can be reached at (508) 365- 3443.

Sincerely,

Peter Hansen  
Principal Engineer, RSO  
LFE Industrial Systems Corporation

PH/dl

Enclosures: Copies of:  
License 20-01382-03, License 20-01382-02  
Letters Dated March 19, 1997, April 14, 1995, & August 10, 1995

55 Green Street  
Clinton,  
Massachusetts  
01510  
Telephone  
(508) 365-3400

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April 14, 1995

Mr. John R. McGrath  
Senior Health Physicist  
Nuclear Materials Safety Branch  
Division of Radiation Safety & Safeguards  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

***License No 20-01382-02***

Docket # 030-04598

Control # 119113

Dear Mr. McGrath:

I am pleased to respond to your letter of March 28, 1995 concerning the renewal of License No. 20-01382-02. I will provide for you a complete, up-to-date description of LFE as it exists today and is expected to exist into the future.

LFE is a rather small company with a total of 84 employees at the Clinton facility, plus 7 Regional Managers and 16 Field Service Engineers at various sites around the country. LFE has no foreign facilities although products are exported to many countries. LFE was acquired in the mid-1980's by MARK IV Industries of Amherst, New York. MARK IV is a large, diversified company with annual sales approaching \$2 billion. LFE shares the Clinton facility with another MARK IV company, Automatic Signal/Eagle Signal, a manufacturer of traffic controls. Also located at the Clinton facility are two companies not associated with MARK IV. One company manufactures printed circuit boards and the other is a software company. Approximately 45 of the 84 LFE employees at the Clinton facility perform services for Automatic Signal/Eagle Signal.

LFE's only business is the design, manufacture, distribution, installation, and servicing of equipment used for thickness or weight measurement and control. The primary measurement device is the nuclear gauge. However, in certain applications, measurement is made by means of laser gauges or mechanical gauges. Measurement and control occur in real time as the product is being manufactured. LFE customers manufacture a wide variety of products including plastics, rubber, food packaging, insulating materials, wood products, numerous types of adhesive tapes, nonwoven absorbent material, roofing products, and metals.

LFE's gauging devices use sealed sources on . The sources are purchased from properly licensed suppliers and are installed in gauging devices. The devices are tested, along with other system components, followed by transfer to licensees. Most of LFE's customers are general licensees. However, LFE manufactures custom devices for sale to specific licensees. LFE recycles sources to the maximum extent possible. For example, Krypton-85 sources which have typical activities of 1000 - 1200 millicuries when purchased, are recycled until the activity decays to less than 400 millicuries. When activity falls below 400 millicuries, they are considered to be waste, so far as installation in new equipment is concerned. The customer may use the Krypton-85 sources until the activity decays well below 200 millicuries. Strontium-90 sources, typically purchased at 100 millicuries, are recycled until the activity decays below 25 millicuries. At this point, the Strontium-90 sources are considered to be waste so far as installation in new equipment is concerned. Americium-241 sources, due to their long half life, are never considered to be waste. In 1994, a quantity of 34 Krypton-85 sources was returned from LFE customers. A quantity of 18 Krypton-85 sources was recycled back into service. In the case of Strontium-90, 3 sources were returned from customers and 3 sources were recycled back into service. No Americium-241 sources were returned from customers in 1994. In recent years, the trend has usually been a decrease in source returns from customers and an increase of sources recycled back into service. I expect this trend to continue until sources for recycling become scarce.

Having given you an overview of LFE's operations, I will now address the points raised in your letter. LFE and the other companies mentioned earlier are housed in a former New England textile mill built during the 1840's. It was completely renovated and refurbished for occupancy in February, 1982. Total floor area is approximately 700,000 square feet. About one half the total area is occupied. Manufacturing areas occupy a ground level, single-story portion of the building. Stock rooms, Marketing, and Engineering are located in a four-story section. Personnel, Accounting, and a cafeteria occupy a two-story section. In addition, there is a basement and a sub-basement located under a portion of this building. Shipping, receiving, and a service depot occupy a separate but attached building. Licensed material is used in the following areas of the building:

1. Assembly and Test: In this area, located in the manufacturing area, sealed sources are installed into devices. The devices, along with other parts of the whole measurement and control system, are assembled and tested prior to transfer to the customer. The Assembly and Test Area is a restricted area.
2. Storage: This area is located in the sub-basement. It consists of concrete walls with a locked steel door. It shares an area with wastewater treatment system. This area is used for long term storage of sealed sources. This area is a restricted area.

3. Calibration: This area is located in the sub-basement adjacent to the Storage Area. It consists of concrete walls with a locked steel door. The area contains a Cobalt-60 source used for calibration of LFE's survey meters.
4. Service Depot: This area is used to provide repair service for LFE customers. Devices are rarely returned for repair. However, functional devices are available in this area for testing other components of LFE products. The Service Depot is a controlled area.
5. Demonstration Room: This room is located adjacent to, but separate from, the Assembly and Test Area. In this room, complete measurement and control systems are demonstrated for customers and prospective customers. The Demonstration Room is a controlled area.
6. Engineering Area: The Engineering Area is located on the third floor of the four-story portion of the building. This area is used for the design and development of LFE measurement and control systems. The Engineering Area is unrestricted (to LFE employees).
7. Stock Room: This facility is located on the ground floor of the four-story building. It is used for storage of parts and materials used in the manufacture of LFE products including short term storage of sealed sources. The Stock Room is a controlled area.
8. Shipping and Receiving: Sealed sources arriving at LFE pass through the Receiving Area. Sealed sources and devices being transferred to customers pass through the Shipping Area. Shipping and Receiving are unrestricted (to LFE employees).

Equipment possessed by LFE includes standard equipment for metalworking, welding, and painting of parts used in the manufacture of LFE products. Various hand tools are available for assembly. For radiation measurement, survey meters are available both at the Clinton facility and at field service locations.

LFE has a very stable work force with little turnover of employees. Consequently, large, formal training programs are not required. Employees located at the Clinton facility receive most of their training on the job. Field Service Engineers are located away from the Clinton facility. They receive a combination of formal training and on the job training. An outline of the formal training is enclosed under the heading, "LFE Radiation Technology Course". In all training, extensive use is made of Regulatory Guide 8.29. All employees whose duties require exposure to radiation receive a copy of Regulatory Guide 8.29. In addition, LFE Field Service Engineers receive a copy of



"LFE Radiation Safety Manual for LFE Field Service Engineers". A copy of this manual is enclosed.

The majority of LFE customers are general licensees with a minority being specific licensees. General licensees are trained by LFE in the operation of their LFE measurement and control system. They are instructed in limitations (installation, maintenance, etc.) placed on general licensees by the regulations pertaining to general licensees. For specific licensees, training in the operation of their LFE measurement and control system is provided by LFE. Additional training of specific licensees is available from LFE upon request.

Installation of LFE measurement and control systems is a rather simple process. The systems are completely assembled and tested at LFE prior to distribution to customers. Sources are installed in devices and remain installed when shipment is made. The devices are usually mounted on scanning frames. I am enclosing an LFE brochure illustrating the construction. At the installation site, a contractor of the customer, using equipment capable of lifting several hundred to more than one thousand pounds places the scanning frame in its intended location. Wires and cables interconnecting the various elements of the system are installed by the customer or contractor personnel (usually a union requirement). The LFE Field Service Engineer verifies the wiring and then places the system in operation. When operating parameters have been verified, an LFE Systems Engineer comes to the site. He or she integrates the system into the customer's process, trains customer personnel in the operation of the system, and turns the system over to the customer. Several visits by the LFE Systems Engineer may be necessary for full integration of the system and for complete training of customer personnel. LFE offers to customers an annual audit of their LFE measurement and control systems along with additional training of personnel. The remarks pertaining to installation apply also to relocation.

The devices used for thickness or weight measurement are very simple, reliable devices. The detector portion contains an ionization chamber and a preamplifier. The source housing contains the sealed source, an electrical or pneumatic shutter mechanism, and a means of indicating shutter position. Very little maintenance or repair is required. I am enclosing procedures under the heading "Field Service Procedures".

A description of the safety program is enclosed under the heading "LFE Radiation Safety Program".

I will address waste after I respond to your question concerning the devices listed under Condition 10 of license number 20-01382-02. Condition 10 lists many devices that are no longer being manufactured or distributed by LFE. However, many devices not currently being manufactured are still being used by customers. In the past, NRC has advised me that devices must be listed on license number 20-01382-02 in order for LFE to provide services including relocation for customers still using the devices. If this requirement is no longer in effect, that is, if LFE is authorized to provide services on devices not listed on the license, the list may be shortened. In fact, except for custom devices manufactured for specific licensees and foreign customers, the devices listed on license number 20-01382-16G are the devices in current manufacture and distribution. Please advise me concerning NRC's current requirements.

LFE's radioactive waste consists of sealed sources, principally Krypton-85 and Strontium-90, whose activity has decayed to the point where the sources are not suitable for use in gauging devices. LFE recycles sealed sources to the greatest extent possible. Massachusetts does not possess a disposal facility nor is Massachusetts a member of a compact with a disposal facility. Therefore, long term storage of sealed sources is anticipated.

Storage presents no problems for LFE. The total volume of all sealed sources stored at LFE, if placed in a single container, would not exceed one cubic foot. Sources are stored in shielded containers (not shipping containers).

I will address the questions presented in Attachment 1, IN90-09. February 5, 1990.

1. Identification of Waste to Be Stored
  - a. License 20-01382-02 specifies no possession limit.
  - b. Maximum waste to be stored
    1. Krypton-85, 150 curies, less than one cubic foot.
    2. Strontium-90, 20 curies, less than one cubic foot.
    3. Cobalt-60, less than one curie, less than one cubic foot.
    4. Cesium-137, less than one curie, less than one cubic foot.
  - c.
    1. Waste will probably be Class B, not exceeding one cubic foot (plus shipping package when shipped).

2. All waste is and will be in the form of sealed sources. Krypton-85 is a gas, all others are solid.
3. Sealed sources with no waste processing involved.
4. None.
  - d. Currently being stored

Krypton-85	60 curies
Strontium-90	10 curies
Cobalt-60	Less than 1 curie
Cesium-137	Less than 1 curie
  - e. No other permits or approvals are required.

2. Plans for Final Disposal

- a. Disposal capacity is not now available. On site storage has begun.
- b. The disposal facility to be used and the schedule to begin accepting waste are unknown at this time.
- c. The start and completion of shipment of waste are unknown at this time.

3. Physical Description of Storage Area

- a. The storage area is located in a sub-basement of LFE's facility of 55 Green Street, Clinton, MA. The area is remote from other operations of LFE. The sources are stored in shielded containers (not shipping containers). The area and the containers may be inspected at any time. There are no effluent filters, air sampling stations, or flammable or explosive materials. A wastewater system is located in the general area.
- b. The volume of the storage facility is approximately 170 cubic feet. Less than one cubic foot of waste per year is expected to be generated.
- c. The waste is stored in a facility with concrete walls and a steel door. The facility is not exposed to weather.
- d. The steel door is locked and the facility is identified as Radiation Area. It is remote from other LFE operations.
- e. The storage facility is vented to the atmosphere outside the building.
- f. LFE has an extensive fire alarm system which is linked to the local fire department.



- g. Extremes of temperature and humidity are not encountered in the storage area.
- h. The LFE building is a very substantial structure. It is unlikely to be damaged by tornadoes, hurricanes, floods, industrial accidents, etc.

4. Packaging and Container Integrity

- a. The sealed sources are stored in shielded lead or steel containers. The waste poses no hazard to the containers. The containers have a very lengthy storage life.
- b. The storage facility is visited frequently by the Radiation Safety Officer.
- c. There is no need for a program or equipment for handling and/or repackaging damaged or leaking waste containers.

5. Radiation Protection

- a. The storage facility is located remotely from LFE operations resulting in no exposure for most of LFE's employees. The Radiation Safety Officer receives an exposure when he visits the facility. A waste water treatment facility is located in the same sub-basement. An attendant for this facility spends some time in the general area, but not in close proximity to the storage facility.
- b. The sources are stored in shielded containers within a shielded facility. There is no need for additional shielding. No changes in personnel monitoring are required. It is expected that the LFE Radiation Safety Officer will receive approximately 100 millirems per year resulting from his visits to the facility. The waste water treatment attendant will receive less than 100 millirems per year resulting from the storage facility.
- c. LFE fire alarms are linked to the local fire department which has drawings of the facility in its files. The Clinton Fire Chief has inspected the storage facility. The Clinton Police Department and the local hospital will be notified in an emergency.
- d. LFE maintains records of all sealed sources received from suppliers, all sealed sources transferred to customers, and all sealed sources returned by customers.

LFE

A Mark IV Company

6. a. Packaging, handling, placement, inspection, surveying, and emergency response are performed by the Radiation Safety Officer.
7. Financial Assurance
  - a. Not Required.
8. Emergency Preparedness
  - a. Not Required

I have provided a very comprehensive description of the current LFE Industrial Systems Corporation. If you have any questions, please call me at (508) 365-3438.

Sincerely,

William R. Prendergast  
Radiation Safety Officer  
LFE Industrial Systems Corporation

WRP/dl

Enclosures

March 19, 1997

Mr. John R. McGrath  
Senior Health Physicist  
Nuclear Materials Safety Branch  
Division of Radiation Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

License No 20-01382-02  
Docket # 030-04598  
Control # 123972

Dear Mr. McGrath:

We have reviewed Amendment No. 60 of our license 20-01382-02 dated February 4, 1997. We would like to change Condition No. 12.A. which presently reads:

12.A. Licensed material shall be used by, or under the supervision of Niels-Peter R. Hansen, Robert Schartner and Richard Shatos.

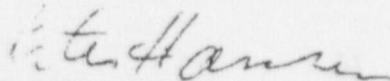
To read as follows:

12.A. Licensed material shall be used by, or under the supervision of Niels-Peter R. Hansen, Robert Schartner, Richard Shatos or individuals who have completed the training described in licensee letters dated April 14, 1995 and August 10, 1995.

With the exception of the name changes, this was the wording of Amendment No. 59 of this license dated September 7, 1996.

Thank you for your cooperation. If I can be of further assistance, I can be reached at 508-365-3443.

Sincerely yours,



Peter Hansen  
Principal Engineer, RSO

PH/kmc



August 10, 1995

Mr. John R. McGrath  
Senior Health Physicist  
Nuclear Materials Safety Branch  
Division of Radiation Safety & Safeguards  
U.S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406-1415

License No: 20-01382-02  
Docket # C30-04598  
Control # 119113

Dear Mr. McGrath:

I am pleased to respond to your letter of June 6, 1995 concerning the renewal of License No. 20-01382-02. I will respond to your questions in the order in which they appear in your letter.

1. The possession limit for radioactive isotopes in Item 8 of License No. 20-01382-02 should read as follows:
  - A. Not to exceed 150 millicuries per source, total not to exceed 50 curies.
  - B. Not to exceed 1.5 curies per source, total not to exceed 200 curies.
  - C. Not to exceed 1 curie per source, total not to exceed 30 curies.
  - D. Not to exceed 1 curie per source, total not to exceed 2 curies.
  - E. Not to exceed 1 curie per source, total not to exceed 3 curies.
  - F. Not to exceed 150 millicuries per source, total not to exceed 1 curie.
2. Amendment No. 57 to License No. 20-01382-02 issued on March 28, 1995 authorizes the servicing of non-LFE gauging devices. The list of manufacturers of non-LFE gauging devices appears in Paragraph 9 (3). The devices to be serviced are essentially the same in design and application as LFE gauging devices. The training and experience of LFE Field Service Engineers qualifies them to

service these devices. As with LFE products, most of the service involves the electrical and mechanical features of the product. Unusual circumstances are referred to LFE's Radiation Safety Officer prior to proceeding. After the issuance of Amendment No. 57, I updated the Radiation Safety Manual for Field Service Engineers. This manual was not distributed prior to the issuance of Amendment No. 57, but it has now been distributed. I am enclosing a copy of the updated manual as Attachment 1.

3. I am enclosing as Attachment 2 an outline of LFE's Radiation Technology Course showing time spent on each subject. The instructor is William R. Prendergast. He joined LFE (then known as Tracerlab) in February, 1958. Since that time, he has been associated with radioactive materials and radiation in the form of medical x-rays, source manufacture, radiation gauging, reactor monitoring devices, and nuclear instrumentation. He became LFE's Radiation Safety Officer in 1971. As a member of ANSI Sub-Committee N43-3.2, he made a major contribution to ANSI N538 (NBS Handbook 129) which concerns radiation gauging devices. This standard is used by NRC, Agreement States, and international regulatory agencies for evaluation of gauging devices. Competency of persons attending LFE's Radiation Technology Course is determined by means of a written examination. Mr. Prendergast has been teaching the course for LFE employees, customers, and others since the early 1970's.
4. Generally licensed customers are trained in the operation of the system, instructed in the methods of keeping radiation dose as low as reasonably achievable consistent with performing their jobs, and are trained in the requirements of 10CFR31.5 or equivalent regulations of Agreement States. I have developed a procedure for accomplishing this training. A copy is enclosed at Attachment 3.
5.
  - a. The manufacturer of the source used for calibration is New England Nuclear (now Dupont Merck). No model number is shown on the source or its housing.
  - b. The nuclide is Cobalt-60 with an original activity of 100 millicuries.
  - c. LFE was provided with the output of the source. Accuracy and certification were not provided by New England Nuclear.
  - d. Calibration procedures are enclosed as Attachment 4.
  - e. Calibration is performed by David Washburn. Mr. Washburn joined LFE (then Tracerlab) in 1957. During his career at LFE, he has worked as a Final Test Technician, as a Field Service Engineer, and in his present assignment as a Technician in LFE's Field Service Department. Mr. Washburn has been calibrating LFE's radiation measuring instruments for more than 10 years.
6. Backup survey instruments are available to LFE's field staff to replace instruments being calibrated.
7. Most of the services provided by LFE's Field Service Engineers involve the electrical, mechanical, and software features of the systems. The gauging devices are simple reliable devices requiring very little service. Below is a matrix showing the services performed under LFE's licenses.

DEVICE

<u>SERVICE</u>	SCL-1C	SCL-77A	SU-P77A	SU-S3	HUB-76A,77A	HUB-SS-1	HUB-SS-3
Installation	X	X	X	X	X	X	X
Survey	X	X	X	X	X	X	X
Leak Test	X		X	X		X	X
Window Replacement	X	X	X	X	X	X	X
Shutter, Indicator Test	X	X	X	X	X	X	X
Shutter, Indicator Repair	X	X	X	X	X	X	X
Source Replacement		X	X				
Relocation	X	X	X	X	X	X	X
Removal from Service	X	X	X	X	X	X	X
Return to LFE	X	X	X	X	X	X	X

8. The LFE Safety Committee is developing in-house emergency procedures. I will send you a copy when these procedures become available. At the present time, employees are instructed to evacuate the building when the fire alarm is sounded. When LFE employees are visiting customers, they are governed by procedures of the customer.
9.
  - a. Leak testing is performed by wiping with a cotton swab the external surface of the device in which the source is permanently installed. Wiping is concentrated in the window area which is the area where removable radioactive material would be found in the case of a leaking source. The wipe is sent to LFE for analysis. Actually, the gauging device is a very sensitive leak tester. The device will not perform correctly with a leaking source.
  - b. The instrument used to measure the activity on the wipe is a Victoreen 490 meter or a Victoreen 491 meter. Both instruments are used with thin end window Geiger tubes. Both instruments are capable of detecting less than .001 microcuries of radioactive material.
10. Dosimeters used by LFE personnel are replaced on a monthly basis. The Dosimeters are supplied and processed by Landauer, Inc. of Glenwood, Illinois, an NVLAP-accredited processor.



11. Radiation surveys are conducted at intervals not to exceed 30 days. Locations are shown on the survey form which is enclosed as Attachment 5.
12. New sources, most of the sources held for recycling, and most of the sources held as waste as well as sources in use by customers are listed in a computerized inventory. However, I am unable to print out a separate listing for each category. I am proposing a system for coding each source by category with print-out capability by category. This process will allow me to change the category, for example, when a source is shipped to a customer or when a source decays from the recycle category to the waste category. I estimate that several months will be required for the accomplishment of the task. Initially, contact with the sources will be required. Therefore, I wish to maintain my exposures as low as reasonably achievable consistent with completing the task. Once complete, the inventory will be maintained continuously as it is with material used by LFE.

I have attempted to respond fully and completely to your questions. I will prepare additional written procedures and I will send you copies as I complete them. For the next few weeks, I must devote a substantial effort to a project for NRC headquarters. This project involves inactive registrations. However, I plan to devote some time to procedure writing.

Very truly yours,

William R. Prendergast  
Radiation Safety Officer  
LFE Industrial Systems Corporation

WRP/ddl  
Enclosures

## 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, 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.

Licensee		3. License Number	20-01382-03
1. LFE Industrial Systems Corporation		4. Expiration Date	November 30, 2000
2. 55 Green Street Clinton, Massachusetts 01510		5. Docket or Reference No.	030-34389/20-01382-02
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. Strontium 90	A. Sealed sources	A. Not to exceed 150 millicuries per source, total not to exceed 50 curies	
B. Krypton 85	B. Sealed sources	B. Not to exceed 1.5 curies per source, total not to exceed 200 curies	
C. Americium 241	C. Sealed sources	C. Not to exceed 1 curie per source, total not to exceed 30 curies	
D. Cobalt 60	D. Sealed sources	D. Not to exceed 1 curie per source, total not to exceed 2 curies	
E. Cesium 137	E. Sealed sources	E. Not to exceed 1 curie per source, total not to exceed 3 curies	
F. Promethium 147	F. Sealed sources	F. Not to exceed 150 millicuries per source, total not to exceed 1 curie	

## 9. Authorized use

- A. through F. For use and/or possession incident to:
- (1) Installation into or removal from gauging devices.
  - (2) Installation, relocation, repair, and servicing of LFE Industrial Systems Corporation devices and other gauging devices of the same basic design as LFE devices manufactured by the following companies: ABB Process Automation, Accuray, Advanz, Aeonics, Barber Colman, Betacontrol, Eurotherm, FAG, Fife, Indev, Mahlo, Measurex, NDC Systems, Ohmart, and Yokogawa. Leak Testing of sealed sources and radiation surveys of devices are included.
  - (3) Instruction and training of individuals in the use of gauging devices.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

20-01382-03

Docket or Reference Number

030-34389/20-01382-02

## CONDITIONS

10. Licensed material may be used only 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 Niels-Peter R. Hansen, Robert Schartner and Richard Shatos.
- B. The Radiation Safety Officer for this license is Niels-Peter R. Hansen.
12. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
13. 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 December 15, 1993
- B. Letter dated February 27, 1995
- C. Letter dated April 14, 1995
- D. Letter dated August 10, 1995
- E. Letter dated September 18, 1995
- F. Letter dated October 2, 1995
- G. Letter dated November 3, 1995

for the U.S. Nuclear Regulatory Commission

Date MAR 21 1997

Original Signed By:  
John R. McGrath  
By \_\_\_\_\_  
Nuclear Materials Safety Branch  
Region I  
King of Prussia, Pennsylvania 19406



## MATERIALS LICENSE

Amendment No. 59

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.

## Licensee

1. LFE Industrial Systems Corporation

2. 55 Green Street  
Clinton, Massachusetts 01510In accordance with the letter dated  
July 24, 1996,3. License Number 20-01382-02 is amended in  
its entirety to read as follows:

4. Expiration Date November 30, 2000

5. Docket or  
Reference No. 030-045986. 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. Strontium 90

A. Sealed sources

A. Not to exceed 150  
millicuries per source,  
total not to exceed 50  
curies

B. Krypton 85

B. Sealed sources

B. Not to exceed 1.5 curies  
per source, total not to  
exceed 200 curies

C. Americium 241

C. Sealed sources

C. Not to exceed 1 curie per  
source, total not to  
exceed 30 curies

D. Cobalt 60

D. Sealed sources

D. Not to exceed 1 curie per  
source, total not to  
exceed 2 curies

E. Cesium 137

E. Sealed sources

E. Not to exceed 1 curie per  
source, total not to  
exceed 3 curies

F. Promethium 147

F. Sealed sources

F. Not to exceed 150  
millicuries per source,  
total not to exceed 1  
curie

## 9. Authorized use

A. through F. For use and/or possession incident to:

- (1) Research, development, manufacture, and testing of gauging devices.
- (2) Installation into or removal from gauging devices.
- (3) Installation, relocation, repair, and servicing of LFE Industrial Systems Corporation devices and other gauging devices of the same basic design as LFE devices manufactured by the following companies: ABB Process Automation, Accuray, Advanz, Aeonics, Barber Colman, Betacontrol, Eurotherm, FAG, Fife, Indev, Mahlo, Measurex, NDC Systems, Ohmart, and Yokogawa. Leak Testing of sealed sources and radiation surveys of devices are included.
- (4) Calibration of radiation survey and measuring instruments.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

20-01382-02

Docket or Reference Number

030-04598

Amendment No. 59

- (5) Pick-up, storage, and transfer of sealed sources and devices manufactured by LFE Industrial Systems Corporation and other devices manufactured by the companies listed in (3) above received from customers for disposal.
- (6) Distribution in the gauging devices specified in Condition 10 of this license or other gauging devices (e.g., custom devices 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.
- (7) Instruction and training of individuals in the use of gauging devices.

## CONDITIONS

10. Except for custom-made devices, each device distributed under this license shall be in accordance with the following table:

Device Model Number	Type	Source Model Number	Isotope	Maximum Activity per source (millicuries)
A. BGL-1	"O" Frame	S2-A2 or NER-592 or S1F.D1	Sr 90	50
B. BGL-1C	"C" Frame	S2-A2 or NER-592 or S1F.D1	Sr 90	50
C. BGL-7	"O" Frame	S-6	Kr 85	500
D. BGL-7A	"O" Frame	S-6	Kr 85	750
E. BGL-7C	"C" Frame	S-6	Kr 85	500
F. SC-1A through SC-1F	"C" Frame	S-10	Sr 90	100
G. SC-7A through SC-7C	"C" Frame	S-70	Kr 85	1200
H. SC-7D through SC-7E	"C" Frame	S-6	Kr 85	750
I. SCL-1A and SCL-1B	"O", "MO", or "C" Frame	S2-A2 or NER-592 or S1F.D1	Sr 90	50
J. SCL-7A or SCL-7B or SCL-7C or SCL-77A	"O", "MO", or "C" Frame	LFE S-6A or LFE S-70A or Amersham KAC.D1 or Amersham KAC.D3	Kr 85 Kr 85 Kr 85 Kr 85	500 (S-6A) 1200 (S-70A) 1000 (KAC.D1) 750 (KAC.D3)
K. SN-1A through SN-1F	"N" Frame	S-10	Sr 90	100
L. SN-1A through SN-1F	"N" Frame	S2-A2 or NER-592 or S1F.D1	Sr 90	50
M. SN-7A through SN-7C	"N" Frame	S-70A	Kr 85	1200
N. SN-7D and SN-7E	"N" Frame	S-6A	Kr 85	750
O. SNP-7B	"N" Frame	S-70A	Kr 85	1200
P. SO-1A through SO-1C	"O" Frame	S-10	Sr 90	100
Q. SO-7A and SO-7C	"O" Frame	S-70	Kr 85	1200
R. SO-7D and SO-7E	"O" Frame	S-6A	Kr 85	750
S. SN-P7A4	"N" Frame	S-4	Kr 85	450
T. FSB-76	FAB	S-76	Kr 85	500
U. HUB-76A	FAB	S-76A	Kr 85	500
V. HUB-77A	FAB	S-77A	Kr 85	1200
W. HUB-SS-1	FAB	SS-1	Sr 90	20

MATERIALS LICENSE  
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X. HUB-SS-3	FAB	SS-3	Am 241	1000
Y. SCL-1C	"O", "MO", or "C" Frame	S2-A2 or NER-592 or S1F.D1	Sr 90	150 (S2-A2) 100 (NER-592 or S1F.D1)
Z. SNP-1B	"N" Frame	S2-A2 or NER-592 or S1F.D1	Sr 90	100
AA. SSL-3	"C" Frame	SS-3	Am 241	1000
BB. SU-S3	"O", "MO", or "C" Frame	SS-3A	Am 241	1000
CC. SU-P77A and SU-77A	"O", "MO", "C" Frame	LFE S-70A or Amersham KAC.D1, or Amersham KAC.D3, LFE S2-A2 or New England Nuclear NER-592 or Amersham S1F.D1	Kr 85 1200 (S-70A) Kr 85 1000 (KAC.D1) Kr 85 750 (KAC.D3) Sr 90 100 (S2-A2) Sr 90 100 (NER-592) Sr 90 100 (S1F.D1)	
DD. SU-S7	"O", "MO", or "C" Frame	SS-7A	Kr 85	1200
EE. SCL-1D	"O", "MO", or "C" Frame	S2-A2; NER-592 or S1F.D1	Sr 90	100

USER LEAK TEST INTERVAL: 6 months for all sealed sources except Krypton 85 sources.

11. Licensed material may be used at 55 Green Street, Clinton, Massachusetts, 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.
12.
  - A. Licensed material shall be used by, or under the supervision of W. R. Prendergast, or individuals who have completed the training described in licensee letters dated April 14, 1995 and August 10, 1995.
  - B. The Radiation Safety Officer for this license is William R. Prendergast.
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 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.



**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

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Amendment No. 59

- 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.
- 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.
14. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".

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Docket or Reference Number

030-04598

Amendment No. 59

15. 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 December 15, 1993
  - B. Letter dated February 27, 1995
  - C. Letter dated April 14, 1995
  - D. Letter dated August 10, 1995
  - E. Letter dated September 18, 1995
  - F. Letter dated October 2, 1995
  - G. Letter dated November 3, 1995

For the U.S. Nuclear Regulatory Commission

Original Signed By:

By

John R. McGrath

Date SEP - 7 1996

Nuclear Materials Safety Branch  
Region I

King of Prussia, Pennsylvania 19406

## 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 20555-0001LFE INDUSTRIAL SYSTEMS CORPORATION  
ATTN: PETER HANSEN  
RADIATION SAFETY OFFICER  
55 GREEN STREET  
CLINTON, MA 01510

## TYPE OF ACTION

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

REQUESTED DATE

4-2-97

LICENSE NUMBER

20-01382-03

CONTROL NUMBER

124451

## 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.

## 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.

SIGNATURE - LICENSE FEE ANALYST

LFDCB

LFDCB

BRENDA BROWN 301-415-6055

BB *LB*  
4/22/97

Distribution:

Region I	LFARB R/F
Pending	OC/DAF R/F
BBrown	OC/DAF S/F (LF-3.2.7)

DATE

4-22-97



BETWEEN:

```
: Program Code: 03214  
: Status Code: 0  
: Fee Category: -----  
: Exp. Date: 20001130  
: Fee Comments: -----  
: Decom Fin Assur Req'd: _
```

LICENSE FEE TRANSMITTAL

## A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: LFE INDUSTRIAL SYSTEMS CORPORATION  
Received Date: 970404  
Docket No: 3034389  
Control No.: 124451  
License No.: 20-01382-03  
Action Type: Amendment

2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.: \_\_\_\_\_

### 3. COMMENTS

Signed Rebecca J. Brown  
Date 4/10/99

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

1. Fee Category and Amount: 3N 4590

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

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

## 3. OTHER

Signed \_\_\_\_\_  
Date \_\_\_\_\_

Log APR 12  
 Remitter  
 Check No. 34006809  
 Amount 8590  
 Fee Category 3N  
 Type of Fee AND  
 Date Check Rec'd 5/23/97  
 Date Completed  
 By: AB

1997 APR 16 MON 7:24