

FORM NRC-313 I (1-79) 10 CFR 20		U.S. NUCLEAR REGULATORY COMMISSION		1. APPLICATION FOR <i>(Check and/or complete as appropriate)</i>	
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL				<input type="checkbox"/> NEW LICENSE	
See attached instructions for details.  Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.				<input checked="" type="checkbox"/> AMENDMENT TO LICENSE NUMBER 20-20675-01	
2. APPLICANT'S NAME <i>(Institution, firm, person, etc.)</i>  Aeonic Systems, Inc.  TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 617-663-2300				3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION  Richard F. Murphy  TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 617-663-2300	
4. APPLICANT'S MAILING ADDRESS <i>(Include Zip Code)</i>  The Research Center at Manning Park Billerica, MA 01821				5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED <i>(Include Zip Code)</i>  46 Manning Rd. Billerica, MA 01821	
(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES)					
6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL <i>(See Items 16 and 17 for required training and experience of each individual named below)</i>					
FULL NAME			TITLE		
a. (same as current license)					
b.					
c.					
7. RADIATION PROTECTION OFFICER  (same as current license)			Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.		
B. LICENSED MATERIAL					
LINE NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER <i>(If Sealed Source)</i> C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D	
(1)	(same as current license)				
(2)					
(3)					
(4)					
DESCRIBE USE OF LICENSED MATERIAL E					
(1)	(same as current license)				
(2)					
(3)					
(4)					

FORM NRC 313 I (1-79)

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 20-20675-01 PDR

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## 9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED. A.	NAME OF MANUFACTURER B.	MODEL NUMBER C.
(1)	(same as current license)		
(2)			
(3)			
(4)			

## 10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT A.	MANUFACTURER'S NAME B.	MODEL NUMBER C.	NUMBER AVAILABLE D.	RADIATION DETECTED (alpha, beta, gamma, neutron) E.	SENSITIVITY RANGE (milliroentgens/hour or counts/minute) F.
(1)		(same as current license)				
(2)						
(3)						
(4)						

## 11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY  (same as current license)	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments.
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## 12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A.	SUPPLIER (Service Company) B.	EXCHANGE FREQUENCY C.
<input type="checkbox"/> (1) FILM BADGE  <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)  <input type="checkbox"/> (3) OTHER (Specify): _____ _____ _____	(same as current license)	<input type="checkbox"/> MONTHLY  <input type="checkbox"/> QUARTERLY  <input type="checkbox"/> OTHER (Specify): _____ _____ _____

## 13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

- ☒ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (include filtration, if any), ETC.  
☒ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.  
☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.  
☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC. (see attached)

## 14. WASTE DISPOSAL

- a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED  
(same as current license)
- b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE

# INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.
16. FORMAL TRAINING IN RADIATION SAFETY. Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.
  - a. Principles and practices of radiation protection.
  - b. Radioactivity measurement standardization and monitoring techniques and instruments.
  - c. Mathematics and calculations basic to the use and measurement of radioactivity.
  - d. Biological effects of radiation.
17. EXPERIENCE. Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

## 18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

WARNING.—18 U.S.C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

<p>a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)</p> <p>\$120</p>	<p>b. CERTIFYING OFFICIAL (Signature) <i>Richard F. Murphy</i></p> <p>c. NAME (Type or print) Richard F. Murphy</p>
<p>(1) LICENSE FEE CATEGORY: 3B 3M</p>	<p>d. TITLE Vice President</p>
<p>(2) LICENSE FEE ENCLOSED: \$ \$120</p>	<p>e. DATE August 26, 1985</p>

DWG. NO.

REV

SH

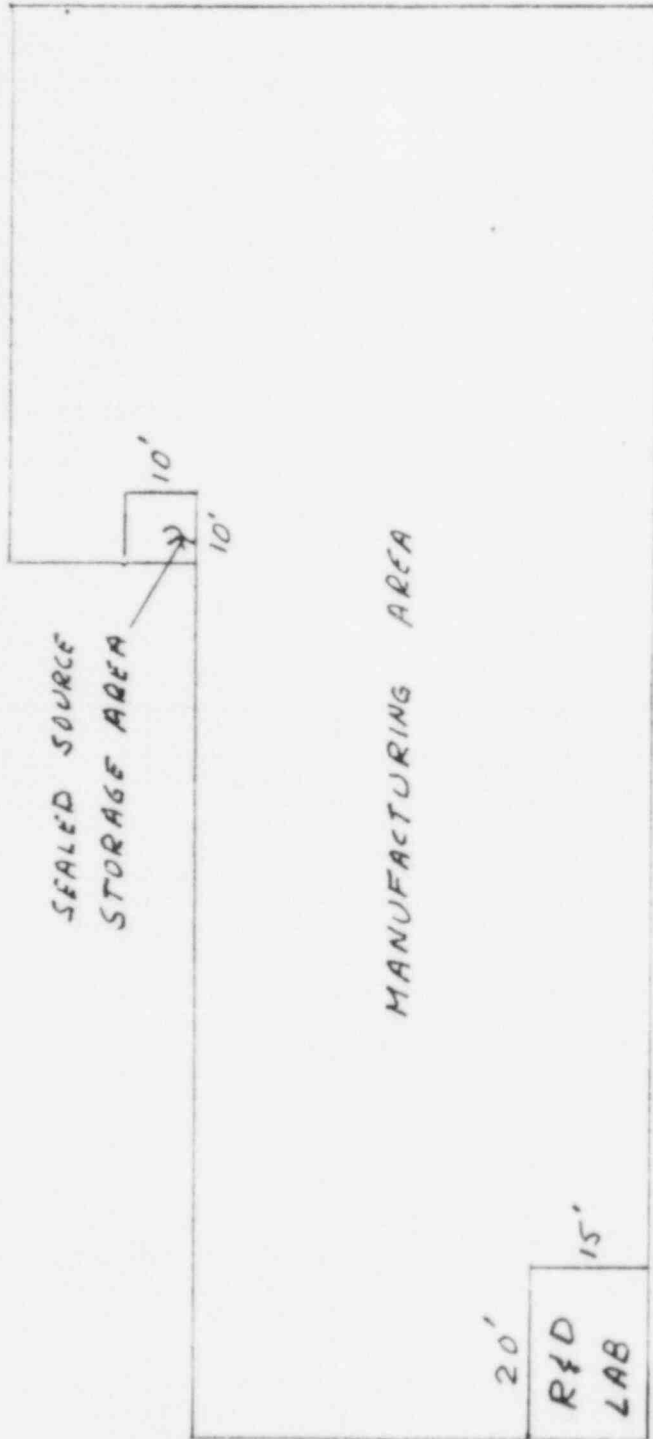
REVISION

REV

DESCRIPTION

DATE

APPROVED



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE  
FRACTIONS DECIMALS ANGLES  
XX  
XXX

USED ON

APPROVALS

DATE

DRAWN

CHECKED

ISSUED

MATERIAL

FINISH

DO NOT SCALE DRAWING

**AEONIC**  
SYSTEMS

THE RESEARCH CENTER  
AT MANNING PARK  
BILLERICA, MA 01821

FLOOR PLAN SHOWING AREAS  
WHERE SEALED SOURCES MAY BE LOCATED

SIZE

W.O. NO.

DWG NO.

REV.

A

SCALE

SHEET

BETWEEN: William D. Miller, Chief  
License Fee Management Branch  
Office of Administration

John E. Glenn, Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Aeonic Systems, Inc.

Application Dated: 8/26/85

Control No.: 104338

License No.: 20-20675-01

2. FEE ATTACHED

Amount: \$120.00

Check No.: 4297

03212  
4/89

3. COMMENTS

*Address Change*

Signed Brenda Blatchel

Date 9/5/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: ~~3A~~ - 11/20

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

Amendment                     

Renewal                     

License                     

Signed J. Jackson

Date 9/17/85

"SECTION COPY"



Aeonic Systems, Inc.  
The Research Center  
at Manning Park  
Billerica, MA 01821

EXPLANATION	AMOUNT

52  
110  
4297

PAY  
AMOUNT  
OF

One Hundred Twenty and xx/100

DOLLARS

DATE	TO THE ORDER OF	CHECK NUMBER
8/2/85	US Nuclear Regulatory Comm. - Misc Fee	4297

CHECK  
AMOUNT

\$ 120.00



*Boyle N. Simmons*  
AUTHORIZED SIGNATURE

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