

FORM NRC-313 I  
(1-79)  
10 CFR 30

U.S. NUCLEAR REGULATORY COMMISSION

1. APPLICATION FOR:  
(Check and/or complete as appropriate)

APPLICATION FOR BYPRODUCT MATERIAL LICENSE  
INDUSTRIAL

X a. NEW LICENSE

b. AMENDMENT TO  
LICENSE NUMBER

c. RENEWAL OF:  
LICENSE NUMBER

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.

2. APPLICANT'S NAME (Institution, firm, person, etc.)

Northeast Utilities Service Co.  
System Test Department

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION

203/666-6911 XT-3247

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

Andrew J. Lasko

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION

203/666-6911 XT-3247

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)

P.O. Box 270  
Hartford, CT. 06101

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED  
(Include Zip Code)

Selden St.  
Berlin, CT. 06037

(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

(See Items 16 and 17 for required training and experience of each individual named below)

FULL NAME

TITLE

a. Andrew J. Lasko

Laboratory Test Supervisor

b. William H. Osborn

Chemist

c.

7. RADIATION PROTECTION OFFICER

Andrew J. Lasko

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

8. LICENSED MATERIAL

L I N E  NO.	ELEMENT AND MASS NUMBER  A	CHEMICAL AND/OR PHYSICAL FORM  B	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)  C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME  D
-----------------------------	--	--	--	--

(1)	Nickel 63	Plated Part	Electron Capture HP Detector #19303	2 Detectors 15 mCi/Detector
-----	-----------	-------------	--	--------------------------------

(2)				
-----	--	--	--	--

(3)	53.1804			
-----	---------	--	--	--

(4)	Application			
-----	-------------	--	--	--

(5)	15/2/80			
-----	---------	--	--	--

(6)	Received By Jackson			
-----	---------------------	--	--	--

DESCRIBE USE OF LICENSED MATERIAL  
E

(1)	Hewlett-Packard	Series 5880A	Gas Chromatograph
-----	-----------------	--------------	-------------------

(2)	for Laboratory Analysis		
-----	-------------------------	--	--

(3)			
-----	--	--	--

(4)	8005190094		
-----	------------	--	--

OFFICIAL RECORD COPY

ML10

RECEIVED BY LFMB

Date 5/2/80

Log Apr 80-7 NM

By SSB

Orig. To

Action Compl. 5/5/80

03563

## 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)	Gas Chromatograph	Hewlett-Packard	5880A
(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)	None	Required	With	This	Instrument	
(2)						
(3)						
(4)						

## 11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☐ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY

None      Required      With      This

☐ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards used for calibrating instruments.

Instrument

## 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	None      Required      With      This      Instrument	<input type="checkbox"/> MONTHLY
<input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD)		<input type="checkbox"/> QUARTERLY
<input type="checkbox"/> (3) OTHER (Specify): _____		<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. - detector effluent
- ☐ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC. gas vented to fume hood
- ☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC.
- ☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

## 14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

Return detectors to supplier, H P Co., Route 41, Avondale, PA. 19311

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>\$110.00</p>	<p>b. CERTIFYING OFFICIAL (Signature)</p> <p><i>Philip T. Ashton</i></p>
<p>(1) LICENSE FEE CATEGORY</p>	<p>c. NAME (Type or print)</p> <p>Philip T. Ashton</p>
<p>(2) LICENSE FEE ENCLOSED: \$ 110.00</p>	<p>d. TITLE</p> <p>Vice President</p> <p>e. DATE</p> <p>4/15/80</p>

## 15. Radiation Protection Program

### 15.1 General

The Radiation Protection Program will meet the applicable requirements of Title 10 Part 20 of The Code of Federal Regulations. Specific areas are addressed in the following sections.

### 15.2 Posting

As provided in paragraph 10CFR20.203(a) no posting is necessary. However, the detector housing will be clearly marked "CAUTION - RADIOACTIVE MATERIALS".

### 15.3 Leak Testing

Perform leak test with Hewlett-Packard No. 18713-60050 leak test kit at six month intervals.

### 15.4 Receipt of Licensable Material

The receipt of licensable material shall be carried out in accordance with the provisions of 10CFR20.205.

### 15.5 Access

The area will be unrestricted. The licensed material will be secured from unauthorized removal from the place of storage and use.

### 15.6 Waste Disposal

Return detectors to supplier, Hewlett-Packard Company, Route 41, Avondale, Pennsylvania, 19311.

16. Formal Training in Radiation Safety \*

Andrew J. Lasko  
Northeast Utilities Service Company  
System Test Department  
P. O. Box 270  
Hartford, CT. 06101

<u>Type of Training</u>	<u>Where Trained</u>	<u>Duration of Training</u>
a) Principles & Practices of Radiation Protection	Worcester Polytechnic Inst. Conn. Light & Power Co. Northeast Utilities Serv. Co.	1968-1972 1972-1976 1976 to Present
b) Radioactivity Measurements Standardization & Monitoring Techniques & Instruments	Same	Same
c) Mathematics & Calculations Basis to the Use and Measurement of Radioactivity	Same	Same
d) Biological Effects of Radiation	Same	Same

William H. Osborn  
Northeast Utilities Service Company  
System Test Department  
P. O. Box 270  
Hartford, CT. 06101

<u>Type of Training</u>	<u>Where Trained</u>	<u>Duration of Training</u>
a) Principles & Practices of Radiation Protection	University of Vermont University of Vermont College of Medicine State of Connecticut Health Department Conn. Light & Power Co. Northeast Utilities Serv. Co.	1951-1955  1959-1960  1967-1968 1968-1976 1976 to Present
b) Radioactivity Measurements Standardization & Monitoring Techniques & Instruments	Same	Same
c) Mathematics & Calculations Basis to the Use & Measurement of Radioactivity	Same	Same
d) Biological Effects of Radiation	Same	Same

\* Each user shall read and adhere to the Operating and Safety Sections of the manufacturer's Instruction Manual.

17. Experience with Radiation

Andrew J. Laško

<u>Isotope</u>	<u>Where Experience Gained</u>	<u>Duration</u>	<u>Type</u>
Cs - 131	Connecticut Light & Power Co. for Northeast Nuclear Energy Co.	1976	Calibration Source

---

William H. Osborn

I - 131	University of Vermont	1959-1960	Biological Traces
Various Isotopes	State of Connecticut Health Dept.	1967-1968	Calibration Sources

ML10

0356363

BETWEEN: William O. 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

Fee Needed

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Northeast Utilities Service Co.

Application Dated: 4/2/85

Control No.: 03635

License No.: 06-17235-03

2. FEE ATTACHED

Amount: 0

Check No.: 0

3. COMMENTS

Signed Branda Platchek

Date 4/9/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3P \$120

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

Amendment                     

Renewal ✓

License                     

Signed Frances Brown

Date 5/16/85