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Log	sep 5
Remitter	
Check No.	04343
Amount	8720
Fee Category	30
Type of Fee	Renewal
Date Check Rec'd.	9/12/88
Date Compieted	9/12/88
By:	P. [Signature]

New England Power Company  
Brayton Point Station  
Somerset, Massachusetts 02726

DBO-04666  
August 22, 1988

U. S. Nuclear Regulatory Commission  
Region I  
Nuclear Material Section B  
475 Allendale Road  
King of Prussia, Pennsylvania 19406

RE: USNRC Materials License No. 20-07227-02/Amendment #11.

Dear Sir/Madam:

We wish to renew our USNRC Materials License referenced above. We wish to continue to operate under our current license dated September 8, 1983 except as noted below:

- 1) Sources listed on referenced document in Item 6.A., 7.A. and 8.A. should be deleted. These sources were transferred to the Nuclear Research Corporation in 1986 and as such are no longer in our possession.
- 2) The following sources are now in use at our facility and should be added to our license:
 

a) Element & mass number	Cesium 137
b) Chemical and/or physical form	Sealed sources (Texas Nuclear source capsule model #696894)
c) Maximum amount which will be possessed at any one time	Not to exceed 20 millicuries per source

Purpose for which licensed material will be used:

Sources will be used in Texas Nuclear Series PN Model 5200 source heads to indicate coal level in chutes and to initiate certain control functions in an automatic coal sampling system.

Additional Information/Explanation:

These general license devices were installed in 1984 by the manufacturer. For the sake of completeness we desire to include these sources on our specific materials license.

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- 3) Under the "Conditions" section of the referenced document, Item 12 specifies the person responsible for the radiation safety program. This should be amended as follows:

Licensed materials shall be used by, or under the supervision of, William J. Freddo.

Mr. Freddo holds the position of Supervisor of Technical Services at the Brayton Point facility and as such has been designated Radiation Safety Officer (RSO). His duties as RSO are summarized on Supplemental Sheet No. 1. A summary of his training in radiation protection and safety are shown on Supplemental Sheet No. 2.

- 4) Under the "Conditions" section of the referenced document, Item 14.A.(1) states that each source should be tested for leakage and/or contamination at intervals not to exceed three years. We request that the sources listed on the referenced document identified by 6.E., 7.E., and 8.E. be exempted from leak testing. We request this exemption on the basis that per 10 CFR Ch. 1 Section 31.5 (c)(2)(ii) general license devices containing not more than 100 microcuries of other (than tritium) beta and/or gamma emitting material or 10 microcuries of alpha emitting material need not be leak tested. Because the referenced sources have levels of activity not to exceed 2 microcuries, well below values stated in referenced CFR Section, we believe this is a reasonable request. All other sources listed on the license will continue to be leak tested at intervals not to exceed three years.
- 5) Under the "Conditions" section of the referenced document, Item 14.A.(2) contains a typographical error. An entire line from a previous license was obviously inadvertently omitted. The omitted line following the word "this" in the second sentence should read as follows:

test shall be tested for leakage prior to any use or transfer to another

This information can be verified from our previous License Number 20-07227-02 Amendment No. 10 dated February 14, 1980. We believe that this is the appropriate time to rectify this typographical error.

- 6) Under the "Conditions" section of the referenced document, Item 14.D. states that tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission to perform such tests. We request that the words "by the licensee or" be removed. We as licensee have not in the past done any source wipe testing and do not desire to be allowed in the future to perform this testing ourselves. All wipe testing has been and will continue to be performed by specifically authorized persons. As this more accurately reflects our current program, we respectfully request this amendment.

The referenced document dated September 30, 1983 as amended by the above statements reflects our current program. We wish to continue to operate in accordance with this document as amended above, applicable USNRC regulations and license conditions.

For further information regarding this matter please contact William J. Freddo at 1-508-678-8321. The address on the license is correct except that the Post Office Box is now 440 instead of "E".

Please find enclosed a check in the amount of \$120.00 for our license renewal fee.

Very Truly yours,



William J. Freddo  
Supervisor of Technical  
Services

Attachments (2)  
Enclosure (1 check)

**SUPPLEMENTAL SHEET NO. 1**

**Duties and responsibilities of the Radiation Safety Officer**

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The Radiation Safety Officer's duties and responsibilities are as follows:

- a) to assure that all by-product material, sealed sources and devices in use and/or in possession of the applicant are limited to those listed in the license, and are being used for purposes specified in the license.
- b) To assure that only those individuals authorized by the license shall use or supervise the use of the devices.
- c) To schedule periodic leak testing of the sealed sources as required by the license.
- d) To assure that established safety procedures are followed during maintenance or repairs on or around pipes, chutes, silos or equipment to prevent individuals from entering radiation beams.
- e) To keep records in an orderly manner on all receipts, transfers, disposals, source wipes and radiation surveys of all nuclear devices covered under the license.
- f) To review all new regulations related to nuclear sources and implement changes in station procedures related to the nuclear source control program as required.

**SUPPLEMENTAL SHEET NO. 2**

Summary of training received by William J. Freddo (RSO)

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On September 14-16, 1987 Mr. Freddo attended a Radiation Safety training program given by the Ohmart Corporation. A summary of the topics covered in this program is shown on the attached course agenda (see Attachment 1). The duration of the course was twenty hours.

Also attached (see Attachment 2) is a copy of a Certificate of Proficiency from the Ohmart Corporation certifying that Mr. Freddo has successfully completed this training course. This Certificate was awarded on the basis of the successful completion of a written test covering all facets of course material.

Attachments (2)



## AGENDA

## RADIATION SAFETY

Twenty Hours

TIME	TOPIC	MANUAL SECTION
0830	Welcome and Introduction	-----
0900	Origin of Radiation A. Basic Atomic Theory B. Radiation and Radioactivity C. Radiation effects	1
10:30	Radioactivity Measurement Standardization * A. Terms and Definitions	2
11:00	Monitoring Techniques and Instruments * A. Detection Instruments B. Personnel Dosimetry	2
12:00	Mathematics and Calculations Basic to the Use and Measurement of Radioactivity *	3
1:00	LUNCH	
2:00	Mathematics and Calculations - Work Sheet - PA *	3
3:00	Biological Effects of Radiation and Principles * and Practices of Radiation Protection A. Internal Radiation Hazard B. Protection from Internal Radiation Hazard C. External Radiation Hazard D. Protection from External Radiation Hazard	4
4:00	Basic Tests to be Performed on Nuclear Gages - PA A. Wipe Test B. Radiation Surveys C. Shutter Operation Checks	9
4:45	Plant Tour	
5:00	Session Ends for the Day	
	PA - Practical Application	
	*These items are listed in Item 16 of USNRC Form 3131, Formal Training in Radiation Safety.	



ohmart technical  
TRAINING SCHOOLS

AGENDA

RADIATION SAFETY

Twenty Hours

TIME	TOPIC	MANUAL SECTION
0830	Review, Question and Answer Period	
0900	Waste Disposal and Shipping Requirements - PA A. Definitions B. Labeling C. Bill of Lading Completion	6
10:00	Removal and Reinstallation of Sourceholders - PA A. Safe Handling Procedures B. Storage C. Preparation for Shipment D. Recovery E. Installation F. Radiation Survey G. Wipe Test H. Occupancy Evaluation I. Lock Out Procedures	8
12:00	NRC Rules and Regulations *	5
1:00	LUNCH	
2:00	Emergency Procedures	7
2:45	Removal and Reinstallation of BAL Sourceholders	8
3:15	BREAK	
3:30	Removal of a Sourceholder with an Open Shutter - PA A. Establishing a barricade B. Selecting shielding material C. Procedure 1. Develop plan 2. Personnel Monitoring 3. Survey 4. Packaging	8
5:00	Session Ends for the Day	
	PA - Practical Application	



## AGENDA

## RADIATION SAFETY

Twenty Hours

TIME	TOPIC	MANUAL SECTION
0830	Review, Question and Answer Period	
0845	Customer Service Department	
0930	NRC By Product Material License A. License Completion B. License Limitations C. License Additions	10
10:30	Program Outline for Employee Training	10
11:00	Test	
1:00	End of Session	



# CERTIFICATE OF PROFICIENCY

THIS IS TO CERTIFY THAT

WILLIAM J. FREDDO

HAS SUCCESSFULLY COMPLETED AN OHMART TRAINING COURSE INCLUDING:  
PRINCIPLES AND PRACTICES OF RADIATION PROTECTION, RADIOACTIVITY  
MEASUREMENT AND MONITORING, MATHEMATICS AND CALCULATIONS, BIOLOGICAL  
EFFECTS OF RADIATION, COMMON U.S.N.R.C. REGULATIONS, WASTE DISPOSAL  
AND EMERGENCY PROCEDURES.



Karen Berry  
TRAINING ASSISTANT

Date: Sept. 16, 1987

OFFICIAL RECORD COPY 10

25 AUG 1988

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BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)  
INFORMATION FROM LTS  
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PROGRAM CODE: 03120  
STATUS CODE: 2  
FEE CATEGORY: 3P  
EXP. DATE: 19880930  
FEE COMMENTS: .....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED  
APPLICANT/LICENSEE: NEW ENGLAND POWER CO.  
RECEIVED DATE: 880825  
DOCKET NO: 3004666  
CONTROL NO.: 109460  
LICENSE NO.: 20-07227-02  
ACTION TYPE: RENEWAL

2. FEE ATTACHED  
AMOUNT: \$120.00  
CHECK NO.: 24948

3. COMMENTS

SIGNED B. J. Brown  
DATE 8/25/88

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED) 1-45

1. FEE CATEGORY AND AMOUNT: 3P \$120

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:  
AMENDMENT \_\_\_\_\_  
RENEWAL         
LICENSE \_\_\_\_\_

3. OTHER \_\_\_\_\_

SIGNED D. Kimbly  
DATE 9/14/88