

FORM NRC-313 I
(6-78)
10 CFR 30.

U.S. NUCLEAR REGULATORY COMMISSION

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

**APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL**

a. NEW LICENSE

See attached instructions for details.

b. AMENDMENT TO:
LICENSE NUMBER

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

c. RENEWAL OF:
LICENSE NUMBER
X 12-15908-01

2. APPLICANT'S NAME (Institution, firm, person, etc.)
City of Springfield
City Water, Light & Power

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION
Lee Gladish

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
(217) 789-2141

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(217) 789-2141

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)
Municipal Building
7th and Monroe
Springfield, IL 62701

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED
(Include Zip Code) 3100 Stevenson Drive
Springfield, Illinois 62707

(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.	Benjamin Dillard	Electrical Foreman
b.	James Meiron	Fuels Foreman
c.		
7.	RADIATION PROTECTION OFFICER Lee A. Gladish	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 MILLCURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	Cesium 137	Sealed Source	Texas Nuclear Model 5189	13 x 20 millicuries ea
(2)	Cesium 137	Sealed Source	Texas Nuclear Model 5192	2 x 200 millicuries ea
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL
E

(1) To be used for controlling the level of coal in various bins and hoppers.

(2) RECEIVED BY LMB
Date FEB 20 1979
Jeb PG-13-III
Brown

FORM NRC-313 I (6-78)

8507240410 850628
REG3 LIC30
12-15908-03

PDR

2/27/79

FEE EXEMPT

170.11(2X9)

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)	Source Housing	Texas Nuclear	5189
(2)	Source Housing	Texas Nuclear	5192
(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)	N/A					
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY Texas Nuclear Division 9101 Highway 183 Austin, Texas 78766	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments. N/A
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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 N/A <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____ _____ _____		<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).)

<input type="checkbox"/> a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC. <input type="checkbox"/> b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC. <input type="checkbox"/> c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC. <input type="checkbox"/> d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.
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14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED N/A
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. Returned to manufacturer

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.

RECEIVED BY LMB
Date. FEB 26 1979
Log
By
Orig. To
Action Compl.

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.

a. LICENSE FEE REQUIRED
(See Section 170.31, 10 CFR 170)

b. CERTIFYING OFFICIAL (Signature)

c. NAME (Type or print)

Lee A. Gladish

d. TITLE

Electrical Supervisor

(1) LICENSE FEE CATEGORY:

(2) LICENSE FEE ENCLOSED: \$

e. DATE

February 16, 1979

15. Radiation Protection Program

The manufacturers recommended practices and procedures are followed. The most critical item to be followed is to be sure that the source holder shutter is closed whenever the unit is out of service and work is being done in the vicinity. Leak testing is done using Texas Nuclear Leak Test Procedure QT/lK.

16. Formal Training in Radiation Safety

The individuals named in Items 6 and 7 received training in the use of the devices from Karl Dlugor for one full week in October of 1977. The training took place at our plant facility and included all information necessary to safely operate and maintain these devices.

17. Experience

The individuals named in Items 6 and 7 obtained all their experience on the job operating and maintaining these devices. The radioisotope involved is Cesium-137, maximum activity 200 millicuries.