

FORM NRC-313 I (1-79) 10 CFR 30		U.S. NUCLEAR REGULATORY COMMISSION 1. APPLICATION FOR: <i>(Check and/or complete as appropriate)</i>	
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL		a. NEW LICENSE b. AMENDMENT TO: LICENSE NUMBER c. RENEWAL OF: LICENSE NUMBER X 45-16242-01	
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 <i>(Institution, firm, person, etc.)</i> CITY OF DANVILLE WATER, GAS & ELECTRIC DEPARTMENT TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 804 - 799-5280	3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION BOBBY E. BENTLEY TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 804 - 799-5137		
4. APPLICANT'S MAILING ADDRESS <i>(Include Zip Code)</i> CITY OF DANVILLE - WATER POLLUTION CONTROL PLANT - NORTH BANK FACILITY 460 WILLIAMSON ROAD DANVILLE, VA 24541	5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED <i>(Include Zip Code)</i> same as #4		
(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. BOBBY EUGENE BENTLEY		SLUDGE DISPOSAL SUPERVISOR	
b.			
c.			
7. RADIATION PROTECTION OFFICER BOBBY EUGENE BENTLEY		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 <i>(If Sealed Source)</i> 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)	CESIUM 137	SEALED SOURCE	OHMART MODEL FLS00 ONE SOURCE OF 100 MILLICURIES
(2)	CESIUM 137	SEALED SOURCE	ROBERTSHAW MODEL 770-C2-A24 TWO SOURCES OF 500 MILLICURIES EACH PLUS TWO SOURCES OF 5 CURIES EACH
(3)			
(4)			
DESCRIBE USE OF LICENSED MATERIAL E			
(1)	THE OHMART SOURCE USED FOR LEVEL MEASUREMENT IN A PRESSURIZED TANK.		
(2)	THE ROBERTSHAW SOURCES USED IN MEASURING SOLID CONTENT IN A SLUDGE SLURRY.		
(3)	8508150013 850722 REG2 LIC30 45-16242-01		
(4)	PDR COPIES SENT TO OFF. OF INSPECTION AND ENFORCEMENT		

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)	SHLM	OHMART CORPORATION	FLS00
(2)	770-C2	ROBERTSHAW CONTROLS COMPANY	770-C2-A24
(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)						
(2)			NOT APPLICABLE			
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY NOT APPLICABLE	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments. NOT APPLICABLE
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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 checked="" type="checkbox"/> (3) OTHER (Specify): <u>WIPE TEST</u>	PHYSICS ASSOCIATES 1229 FOREST LAWN DRIVE SALEM, VA 24153	<input type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input checked="" type="checkbox"/> OTHER (Specify): <u>semi-annually</u>

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.

NOT APPLICABLE

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

NOT APPLICABLE

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.

NOT APPLICABLE

ITEM 15

RADIATION PROTECTION PROGRAM

The Radiation Protection Program includes:

Maintaining records of all wipe tests performed as required.

The posting of "Notice to Employees" form, in a restricted area.

The posting of "Caution Radiation" signs, for a radiation area.

Insures that the specific license is available for employees' inspection.

ITEM 16

FORMAL TRAINING IN RADIATION SAFETY

Mr. Bentley attended and satisfactorily completed the Ohmart Training Course in the U.S. NRC Rules and Regulations, Radiation Safety and the safe handling of Radioactive materials as used in Ohmart nuclear gauges.

Mr. Bentley completed this course in August of 1977.

ITEM 17

EXPERIENCE

Mr. Bentley has been protection officer since August of 1977 and has been trained in the inspection of sources used by the Water Pollution Control Plant - North Bank Facility.

Radioisotopes used at the Water Pollution Control Plant, Danville, Virginia, are listed in Item 8 on the application form, whereas plant operations require that the elements be on-line continuously.

As a retired Navy Chief, Mr. Bentley was exposed to various types of radiation safety and trained in the various types of detection devices while in the Navy.

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:

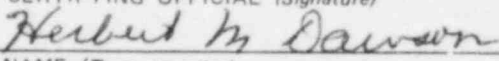
15. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed, 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.

a. LICENSE FEE REQUIRED <i>(See Section 170.31, 10 CFR 170)</i> MUNICIPALITY FEE EXEMPT	b. CERTIFYING OFFICIAL <i>(Signature)</i> 
	c. NAME <i>(Type or print)</i> Herbert M. Dawson
(1) LICENSE FEE CATEGORY:	d. TITLE Director, Water and Wastewater Treatment
(2) LICENSE FEE ENCLOSED: \$	e. DATE 9/28/79