

APPLICATION FOR BYPRODUCT MATERIAL LICENSE  
INDUSTRIAL1. APPLICATION FOR:  
(Check and/or complete as appropriate)

a. NEW LICENSE

b. AMENDMENT TO  
LICENSE NUMBER

X 21-16045-01

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.)

Troy School District

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION  
(313) 689-0600

## 3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

D.W. Johannessen Athens High School

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION  
(313) 524-1200 Ext. 263

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

4400 Livernois  
Troy, Michigan 480985. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED  
(Include Zip Code)Athens High School  
4333 John R  
Troy, Michigan 48098

(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 and describe his responsibilities under Item 15.)

FULL NAME

a. See attached sheet A

b.

c.

## 7. RADIATION PROTECTION OFFICER

Doris W. Johannessen

RECEIVED BY LEMB

Date

Log

By

Orig To

Action Compl.

Applicant...

Check No.

Amount/Fee Category

Type of Fee

Date Check Rec'd

Received By

See attached item B

## 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	Isomedix Co.	1 source of 400 curies
(2)			Model - Gammator B	
(3)			(RAMCO-50-ORNL)	
(4)				

## DESCRIBE USE OF LICENSED MATERIAL

E

- (1) Isomedix Company's Gammator B is a gamma irradiator containing a sealed source which
- (2) is completely shielded and contained within the unit. It will be used for irradiation
- (3) of materials for educational purposes. The manufacturer's recommendations and in-
- (4) structions will be followed.

COPIES SENT TO OFF. OF  
PROTECTION AND ENFORCEMENT

FEE EXEMPT

00678

# 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.

See attached sheet D

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.

See attached sheet G

- 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.

See attached sheet H

## 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 my knowledge and belief.

U.S. NUCLEAR REG  
COMMISSION

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.

00 11 WV 42 JUL 24 1979

<p>a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)</p> <p>\$150.00</p>	<p>b. CERTIFYING OFFICIAL (Signature) <i>Carl T. Pacacha</i></p> <p>c. NAME (Type or print) Carl T. Pacacha</p>
<p>(1) LICENSE FEE CATEGORY: 3E</p>	<p>d. TITLE Executive Director - Secondary Instruction</p>
<p>(2) LICENSE FEE ENCLOSED: \$ 150.00</p>	<p>e. DATE 7-17-79</p>