

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
XX 22-13585-03

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

NITE-SITE, INC.

TELEPHONE NUMBER AREA CODE - NUMBER EXTENSION
612 423 3736

3. NAME OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION

Elliel F. Knutsen

TELEPHONE NUMBER AREA CODE - NUMBER EXTENSION
612 423 3736

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

P.O. Box 0, Rosemount, Mn. 55068

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

Same as item 4 and at temporary job sites of the licensee anywhere in the United States where the NRC maintains jurisdiction.

(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.	Elliel F. Knutsen	Director/Licensing
b.	Julio A. Santiago	Director/Marketing
c.		

7. RADIATION PROTECTION OFFICER

Richard N. Walz

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 N O.	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source)	MAXIMUM NUMBER OF MILLCURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
	A	B	C	D
(1)	Promotes	Sealed luminous sources	3M Company Models 70H, 70S	Not to exceed 1 milli- curie per sight nor 300 millicuries total.
(2)	Date	Check No.	Amount	
(3)	Log	Type	Date	
(4)	By	Date	Received By	
	Orig. To	DESCRIBE USE OF LICENSED MATERIAL		
	Action Compl.			
(1)	Sealed sources will be installed into gunsights and attached onto guns. They			
(2)	will be used for nondestructive testing, demonstration, installation on and			
(3)	removal from guns.			
(4)				

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INSPECTION AND ENFORCEMENT

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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)	Please refer to "conditions" listed on page 2 of license 22-13585-02		
(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)						
(2)						
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY	<input type="checkbox"/> b. CALIBRATED BY APPLICANT Attach a separate sheet describing method, frequency and standards used for calibrating instruments.
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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 type="checkbox"/> (3) OTHER (Specify) _____ _____ _____	N/A	<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).)

- 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.

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED
3M Company, New Brighton, Mn.

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:

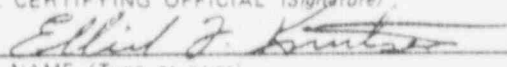
15. RADIATION PROTECTION PROGRAM. Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures (if needed), day-to-day general safety instruction to be followed,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

a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)	b. CERTIFYING OFFICIAL (Signature)  c. NAME (Type or print) Elliel F. Knutsen
(1) LICENSE FEE CATEGORY: Byproduct material <input checked="" type="radio"/>	d. TITLE: Director/Licensing 051
(2) LICENSE FEE ENCLOSED: \$ 110.00	e. DATE: Sept. 5, 1980

NITE-SITE, INC.

P. O. BOX 0
ROSEMOUNT, MINNESOTA 55068

DAY NIGHT
COMBAT SIGHTING SYSTEMS

September 5, 1980

Application for renewal of lic. 22-13585-03

*what
needed?*

Item 15 - Radiation Protection Program

Model 70-H and 70-S elements are supplied by the 3M Company. Each sealed element is certified by 3M Company to meet a wipe test of <0.0005 (cCi) Removable Activity. The test is read by a Nuclear Chicago Model 2612 side window survey meter having a window thickness of 30 mg per cm^2 .

Items 16 and 17 - Experience

Individuals named in item 6 have been working with the Model 70-H and 70-S gun sights for over nine years. Handling of the elements and the wipe test procedures were taught to the individuals by the Radiation protection officer of the 3M Company. (Richard N. Walz)

Richard N. Walz - Training:

B.Ch.E and M.S. (Ch.E) from University of Minnesota. Bachelors Degree granted in 1951. Masters Degree in 1955. Graduate work included courses in Radiochemistry and Nuclear Reactor Design.

For futher information, refer to license's:

- 22-13585-01
- 22-13585-01 Amendment No. 06, dated 3-19-74
- 22-13585-02

Amendment

05-11-80

FEB 02 1982

FCML:JH
035-07636 & 030-11314
(09572 & 05173)

Nite-Site, Inc.
ATTN: Elliel F. Knutsen
P.O. Box 0
Rosemount, MN 55068

Gentlemen:

This refers to your applications for renewal of license nos. 22-13585-02G and 22-13585-03, dated November 9, 1981 and September 5, 1980. In order for us to complete review of your applications, we would appreciate your response to the following:

1. Please provide a complete set of the order forms, instructions, and labels which you provide to your customers with the gunsights.
2. Our review of your distribution reports indicates that many gunsights are sold to individuals without organizational affiliation. This raises the question as to whether the gunsights are being used solely in the conduct of business as required by 10 CFR 31.5(a). Please confirm that you will require non-governmental organizations to complete the following certification with their order: "I understand that possession of this gunsight is subject to regulations of the U.S. Nuclear Regulatory Commission which include requirements that the gunsights be periodically leak tested and used solely in the conduct of business."
3. NRC licensees are required to secure radioactive material against unauthorized removal and conduct an inventory of sealed sources every six months. Please verify that you will comply with these requirements.
4. Your proposal that customers be allowed to apply labels is unacceptable. Title 10 CFR 31.5 requires that the distributor apply the labels. Your application indicates a reluctance on the part of certain customers to send you grips and butt plates for labelling. Please indicate how many cases have arisen where you believe customers obtained the gunsights without proper labelling being completed. Also, please verify that you will properly label the gun, grips, or butt plate as appropriate prior to release of the gunsights for installation.

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OFFICE									3/36
NAME									
DATE									

Wide-Site, Inc.

- 2 -

- 5. The gunsights are required to be leak tested at installation and every three years. Please describe your system for verifying that this requirement is carried out. Do you send reminder notices? Specify what action you take in cases where a customer fails to provide a required leak test sample.

We will continue review of your application upon receipt of the required information. Please send four copies of your reply and reference mail control nos. 09572 and 05173.

Sincerely,

John W. N. Hickey, Section Leader
 Industrial Section
 Material Licensing Branch
 Division of Fuel Cycle and
 Material Safety

DISTRIBUTION
 JWNHickey
 FCML R/F
 NMSS R/F

OFFICE	FCML R/F						
NAME	JHickey/bj						
DATE	2/2/82						