

NRC Form 313 I
(12-81)
10 CFR 30

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

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

Lionite Hardboard

X a. NEW LICENSE

b. AMENDMENT TO:
LICENSE NUMBER

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.)

Lionite Hardboard, Div. of Superwood

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
715-229-2111

3. NAME AND TITLE OF PERSON TO BE CONTACTED
REGARDING THIS APPLICATION

Keith Pierrard

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
715-339-2111 Ext. 235

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

(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)

P.O. Box 138
Phillips, WI 54555

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

P.O. Box 138
Phillips, WI 54555

(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. Keith Pierrard

Operations Manager

b. Mike Mullaney

Foreman

c.

7. RADIATION PROTECTION OFFICER

Keith Pierrard

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 MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D |
|-----------------------------|--|--|--|--|
| (1) | Cs-137-Capsule | Sealed | Sealed sources: For possession and use in | |
| (2) | Model No. 696894 | | Texas Nuclear devices which have been | |
| (3) | 8801270627 870824 REG3 LIC30 48-25813-01 | PDR | evaluated and approved for licensing purposes | |
| (4) | | | and authorized for distribution under a | |
| | | | license issued by the Nuclear Regulatory | |
| | | | Commission or an Agreement State. | |

DESCRIBE USE OF LICENSED MATERIAL

| | | |
|-----|---------------------|--|
| (1) | See attached sheet. | Log. Sub-G-11 E Remittor Superwood Corporation Check No. 00044 Amount \$250 (Hickford) Fee Category 3P Type of Fee App Data Check 7/15/87 Data Completed 7/15/87 By: [Signature] |
| (2) | | |
| (3) | | |
| (4) | | |

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REGION III

CONTROL NO. 83845

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) | The source holder is a complete storage container for the source, both prior and subsequent to installation of the guage. | Texas Nuclear Model | 5201 |
| (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) | No radiation detection instrumentation is necessary to safely possess and utilize these devices. | | | | | |
| (2) | | | | | | |
| (3) | | | | | | |
| (4) | | | | | | |

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

☐ a. CALIBRATED BY SERVICE COMPANY

NAME, ADDRESS, AND FREQUENCY

None Required

☐ b. CALIBRATED BY APPLICANT

Attach a separate sheet describing method, frequency and standards used for calibrating instruments.

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): _____ _____ _____ | None required, see attached sheet | <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.

N/A

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

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.

See attached sheet

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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.

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.

Mathematics and calculations basic to the use and measurement of radioactivity.

d. Biological effects of radiation.

See attached sheet

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 detail presented in above item.

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)

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b. CERTIFYING OFFICIAL (Signature)

c. NAME (Type or print)

KEITH PERRARD

d. TITLE

ELECT. DIR

e. DATE

7/14/87

(1) LICENSE FEE CATEGORY:

(2) LICENSE FEE ENCLOSED: \$

290.00

U.S. NUCLEAR REGULATORY COMMISSION
Attachment 1

ITEM 7 RADIATION PROTECTION OFFICER

The manufacturer will furnish us with detailed instructions on the proper precautions to be taken in utilizing this device. Specific items of design detail, shutter operation, beam geometry, radiation levels and regulatory compliance will be presented by trained personnel of Texas Nuclear at the time this device is installed.

ITEM 8E DESCRIPTION OF USE OF LICENSED MATERIAL

The device will be used to "beam" through wood fiber to allow us to predict an approximate end density after the fiber has been compressed. There are no severe environmental conditions that can affect the integrity of the source and shielding. All environmental factors have been presented to the manufacturer for evaluation prior to specifying this device.

ITEM 12B PERSONNEL MONITORING DEVICE

No additional personnel monitoring device needs be utilized due to the presence of this gauging device. The source holder is designed such that radiation levels will be less than 5 mR/h one foot from any accessible surface at the maximum source loading for the device with the device in the OFF position. When this device is installed in its designed configuration on the pipes and the shutter(s) opened, the radiation levels will still be less than 5mR/h one foot from any accessible surface. It is not likely, when consideration is given to the totally enclosed radiation beam area and to the precautions given below, that any individual will receive a radiation exposure in excess of 0.125 rem per calendar quarter. (See attached drawing)

ITEM 14B WASTE DISPOSAL

No waste disposal is involved. In the event that the gauge is damaged or its use discontinued, we shall notify Texas Nuclear for removal and return the gauge for repair or disposal of the source material.

ITEM 15A RADIATION PROTECTION PROGRAM

Based on actual working conditions and physical accessibility, we estimate that one person would routinely be within three feet of the device 1/2 hour per week. Our personnel will be instructed that they are not to remove the source holder under any circumstances. There is no access to the beam area as long as the source holder is installed.

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ITEM 15B RADIATION PROTECTION PROGRAM

Texas Nuclear personnel will perform the initial radiation survey and leak testing at the time of installation. Additionally, our personnel will receive specific training at the time of installation. This training will include construction features of the device, source integrity, beam geometry and intensity and operating details of the device. Any precautionary steps like the addition of shielding, signs, or precautions to be taken will be covered at the time in accordance with Texas Nuclear installation procedures and training.

ITEM 15C RADIATION PROTECTION PROGRAM

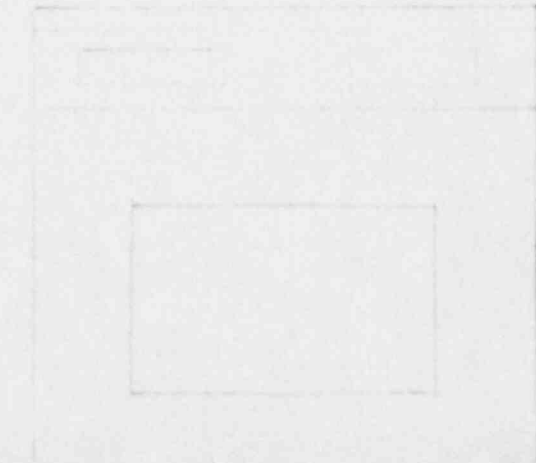
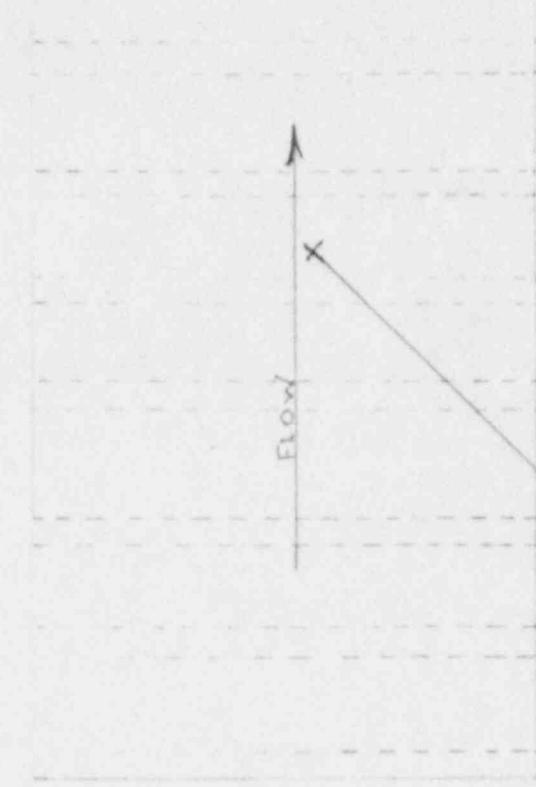
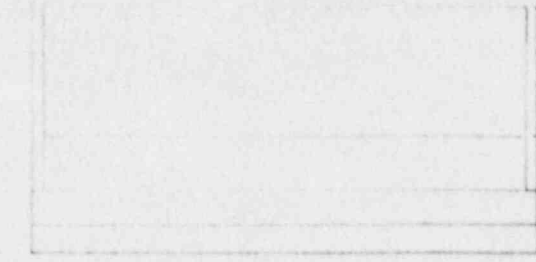
The source holder will be tested for source integrity Model 5201 at least once every three years.

ITEM 15D RADIATION PROTECTION PROGRAM

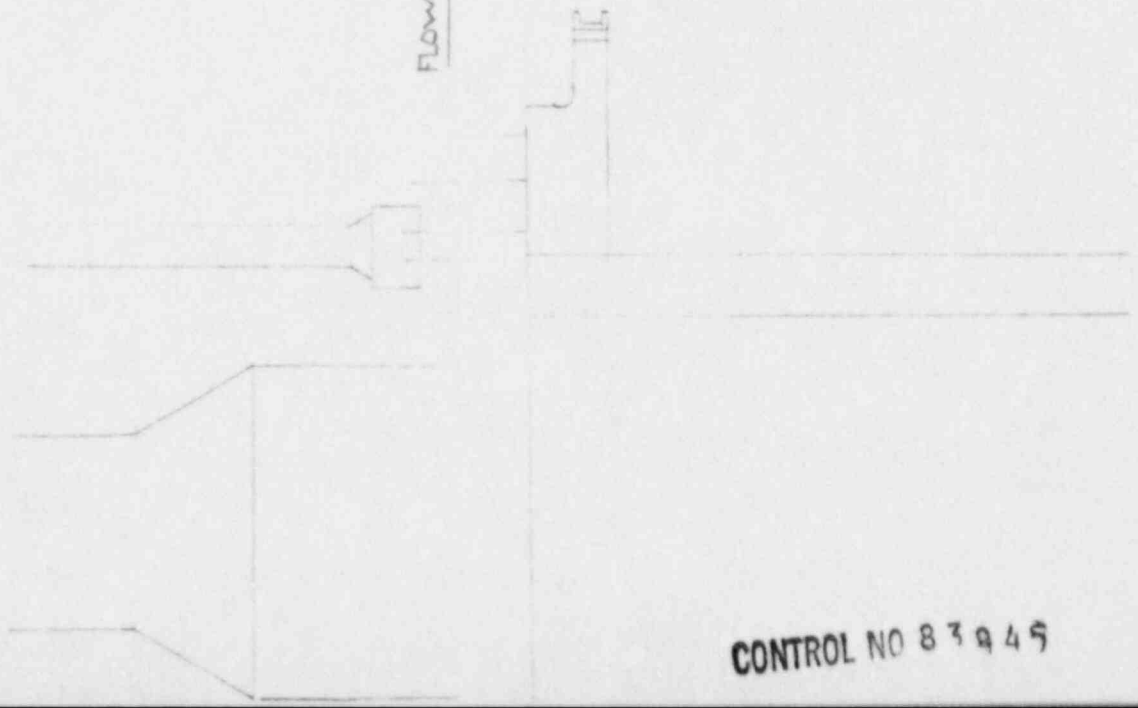
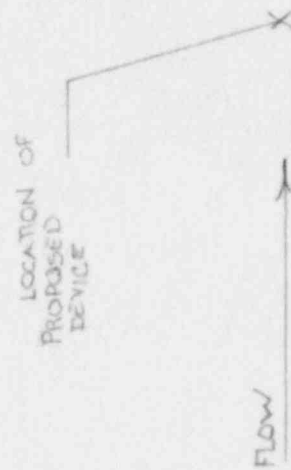
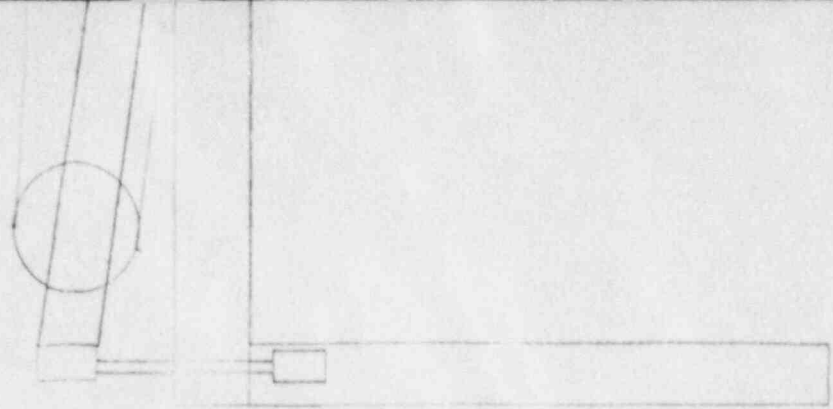
- I. In the event some catastrophic emergency occurs and this device may be involved, we will notify Texas Nuclear and await further instructions.
- II. Any repair, relocation or removal of the source holder will be done by Texas Nuclear personnel.

ITEM 16 FORMAL TRAINING IN RADIATION SAFETY

The manufacturer will furnish us with detailed instruction on the proper precautions to be taken in utilizing this device. Specific items of design detail, shutter operation, beam geometry, radiation levels and regulatory compliance will be presented by trained personnel of Texas Nuclear at the time this device is installed.



LOCATION OF
PROPOSED DEVICE



CONTROL NO 83949