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| NRC Form 313 I (12-81) 10 CFR 30 | | APR 29 1985 U.S. NRC BY | | U.S. NUCLEAR REGULATORY COMMISSION | | 1. APPLICATION FOR: (Check and/or complete as appropriate) L+L 23228 | |
| APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL | | | | | | X a. NEW LICENSE | |
| 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. | | | | | | b. AMENDMENT TO: LICENSE NUMBER | |
| | | | | | | c. RENEWAL OF: LICENSE NUMBER | |
| 2. APPLICANT'S NAME (Institution, firm, person, etc.) Debenham Electric Supply Co. TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 907-562-2800 | | | | 3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION Michael D. Kelley Sales Manager TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION 907-562-2800 | | | |
| 4. APPLICANT'S MAILING ADDRESS (Include Zip Code) (Address to which NRC correspondence, notices, bulletins, etc., should be sent.) P.O. Box 4M Anchorage, AK 99509 | | | | 5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED (Include Zip Code) 4502 Lois Drive Anchorage, AK 99503 | | | |
| (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. Wayne Childers | | | | Warehouse Supervisor | | | |
| b. | | | | Applicant, Check No. 35892 | | | |
| c. | | | | Amount/Fee Category \$230/3P Date 5/7/84 | | | |
| 7. RADIATION PROTECTION OFFICER | | | | Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15. | | | |
| Wayne Childers | | | | 5/9/85 Brown APRIL 22 | | | |
| 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) 5/9/85 | MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D | | | |
| (1) | Hydrogen 3 | Self-luminous | Brandhurst Inc. Model No. B-100 | Not to exceed 25 Curies per sign | | | |
| (2) | | Exit and Safety signs | constructed in accordance with | and not to exceed 1000 curies total | | | |
| (3) | | containing gaseous tritium | Brandhurst Co. Ltd. Dwg #P-1625 | | | | |
| (4) | | light sources | Sheets 1 & 2 & Dwg. P1624 | | | | |
| DESCRIBE USE OF LICENSED MATERIAL E | | | | | | | |
| (1) | Receipt, possession, storage, demonstration and re-distribution | | | | | | |
| (2) | of pre-packaged Brandhurst Series B100 signs. Signs are presently | | | | | | |
| (3) | distributed by Brandhurst Inc. under USNRC License No. 06-20804-02G. | | | | | | |
| (4) | | | | | | | |

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 REGS LIC30
 50-23228-01 PDR

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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) | Sealed Sources will be contained | Brandhurst Inc. | B-100 |
| (2) | within Model B-100 EXIT Signs. | | |
| (3) | The sealed sources will not be | | |
| (4) | removed from the signs. | | |

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 instrumentation is required since tritium gas is a weak and | | | | | |
| (2) | pure beta emitter. | | | | | |
| (3) | | | | | | |
| (4) | | | | | | |

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

| | |
|--|--|
| <input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY None required | <input type="checkbox"/> b. CALIBRATED BY APPLICANT <i>Attach a separate sheet describing method, frequency and standards used for calibrating instruments.</i> |
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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): _____ _____ _____ | None required since tritium gas is a weak and pure beta emitter. | <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).)

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| <input type="checkbox"/> a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC. <input checked="" 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

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| 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. Any damaged, broken or unused parts will be returned to manufacturer, Brandhurst Inc. 87 Sand Pit Road, Danbury, CT 06810 for disposal. |

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.

| | |
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| <p>a. LICENSE FEE REQUIRED (See Section 170.31, 10 CFR 170)</p> <p>\$230.00</p> | <p>b. CERTIFYING OFFICIAL (Signature) <i>Michael D. Kelley</i></p> <p>c. NAME (Type or print) <i>Michael D. Kelley</i></p> |
| <p>(1) LICENSE FEE CATEGORY: 10CFR 170.31 Item 3P</p> | <p>d. TITLE <i>Sales Manager</i></p> |
| <p>(2) LICENSE FEE ENCLOSED: \$ 230.00</p> | <p>e. DATE <i>5-30-85</i></p> |

RE: ITEM 13 - FACILITIES AND EQUIPMENT

- 1) Applicant Maintains a place of business and warehouse facility at the location shown in Item 1 form NRC 3131. The warehouse facility contains many tens of thousands of dollars worth of inventory of various products supplied to the electrical contracting trade and is equipped with commensurate fire and burglary protective devices for security purposes.
- 2) The applicant will store the signs in a locked cabinet(s) whose key will be under the control of the individual(s) identified in items 6 and 7 of Form NRC 3131. The cabinet will be located in the warehouse area whose minimum volume will be 4,000 cu. ft. with a normal ventilation rate of five (5) air changes per hour.

RE: ITEM 15 - RESPONSIBILITIES OF RADIATION PROTECTION OFFICER

- 1) Arrange for inspection of all received goods for gross external damage, and institute Clean-Up Procedures if necessary.
- 2) Assure that all B100 signs are stored in the metal storage cabinet.
- 3) Restrict access to the Storage Cabinet only to individuals engaged in the receipt, inventory and shipment of B-100 signs.
- 4) Arrange for transfer of damaged or inoperative signs to Brandhurst Inc., 87 Sand Pit Road, Danbury, CT 06810.
- 5) Maintain or arrange for others to maintain required records of all shipments of B-100 signs.
- 6) Prepare Quarterly Reports of shipments of all B-100 signs and forward same to the appropriate licensing authority.

RE: ITEM 16 - FORMAL TRAINING IN RADIATION SAFETY

Since the B-100 sign has been licensed by the United States Nuclear Regulatory Commission for transfer to persons generally licensed, no formal training in radiation safety is required for individuals engaged in the receipt, possession and re-distribution only.

Recognizing the requirement for handling of the signs in accordance with various provisions of 10 CFR, the Radiation Protection Officer will assume overall control of the receipt, possession and re-distribution of the signs.

Commensurate with procedures required for other valuable electrical products maintained in inventory, Brandhurst signs will be received, stored and re-shipped by responsible individuals.

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RE: ITEM 17 - EXPERIENCE

AREAS OF RESPONSIBILITY OF WAREHOUSE MANAGER
WAYNE CHILDERS

1. Receives, stores and ships materials efficiently and according to schedule.
2. Suggests equipment requirements for material handling, storage and trucking.
3. Maintains warehouse and truck facilities in safe and operable condition.
4. Schedules freight for outbound shipment.
5. Files claims on carriers and suppliers.
6. Protects inventories against damage, deterioration, and theft.
7. Suggests ways to improve handling problems.
8. Properly trains competent warehouse personnel in the use of material handling equipment, etc.
9. Handles all personnel problems in warehouse.