

(10-64)  
10, CFR 30, 32, 33  
34, 35, 36, 39 and 40

## APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

## APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

## IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

US NRC RII-ATLANTA FEDERAL CENTER  
SUITE 23T85, ATTN: DNMC  
61 FORSYTH STREET  
ATLANTA, GA 30303

## IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
801 WARRENVILLE RD.  
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-8064

47-25421-01  
030-34628

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

## 1. THIS IS AN APPLICATION FOR (Check appropriate item)

☒

A. NEW LICENSE

☐

B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_

☐

C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

## 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)

JELD WEN FIBER OF WEST VIRGINIA  
242 CALLAHAN DR.  
CRAIGSVILLE, WV 26205

## 3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

242 CALLAHAN DRIVE  
CRAIGSVILLE WV 26205

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

JAY BORRELL

TELEPHONE NUMBER

304-742-3690

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

## 5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

## 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

## 7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

## 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

## 9. FACILITIES AND EQUIPMENT.

## 10. RADIATION SAFETY PROGRAM.

## 11. WASTE MANAGEMENT.

## 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

AMOUNT

ENCLOSED \$750

## 13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39 AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR 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.

## CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

JAY BORRELL - RSO

## SIGNATURE



## DATE

12/17/97

## FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

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472541-01

**ITEM 5--**

- a) CS-137
- b) Sealed sources (3M model 4D6L, 4D6P, 4F6S, 4F6ST; Amersham model CDC.700, CDC.93, CDC.PE2, CDC.711M, CDC800; Gamma Industries model VDHP; Isotope Products Labs Model 225 and A-3402. ✓
- c) No single source to exceed 5 Ci (5000 mCi)

**ITEM 6 -**

For level, density, or weight measurement using a Ronan Engineering SA-1 source holder.

**ITEM 7—** Greg Takes, General Manager, will be responsible for the Radiation Safety Program.

Jay Borrell will serve as Radiation Safety Officer. Jay Borrell has completed a 40 hour radiation safety course (June 1997). Subject matter covered:

- Basic atomic theory
  - Measurement and monitoring techniques
  - Exposure calculations
  - Biological effects of radiation
  - NRC regulations
  - Leak test, shutter check
  - Installation, relocation and removal procedures
  - Hands on lab work
  - Proper disposal practices
  - Emergency procedures
- (certificate of completion attached)

**ITEM 8 -**

- 1.) During initial installation, individuals working in or frequenting restricted area, shall receive training and instruction in the operation and safe use of the device by the device manufacturer's representative.

Type of training includes:

- Principles and practices of radiation protection.
- Radioactivity measurement standardization and monitoring techniques and instruments.
- Mathematics and calculations made to the use and measurement of radioactivity
- Biological effects of radiation.
- Procedures for performing radiological duties.
- Actual practice in performing radiological duties.

In the event an employee working in this area can not be present for this training, Jay Borrell, RSO will conduct training at a later date.

Records will be maintained on site of the employees trained on radiation safety for five years after training is completed. These records will include the date of training, identification of the instructor, list of attendees and topics covered.

**ITEM 9 -**

- 1.) See attached sketch
- 2.) The devices will be located in an area where all ambient environmental conditions will be within manufacturer's specifications.
- 3.) The manufacturer's specification for temperature are: 91°C/30 hours & - 40°C/5 hours. The ambient conditions will not Exceed these specifications.
- 4.) A cooling system will not be required.

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- 5.) User shall conduct, at intervals not to exceed six months, a program of visual inspections and maintenance of all source holders. This inspection shall include, but not be limited to, proper functioning of the "on-off" mechanism, adequate shielding of the radioactive material and integrity of the source mounting mechanism.
- 6.) Procedures for handling radiological emergencies

In the event of an accident involving equipment or packages marked "radioactive", or in the event of contamination involving radioactive material, the following steps should be taken:

1. Shut off all fans and air conditioning.
2. Evacuate the immediate area while insuring that the radiation field and spread of contamination are kept to an absolute minimum.
3. Identify and immediately isolate all individuals who might have received high radiation exposures or who could have been contaminated.
  - a. Record distance from the area individual was located and length of time in the area.
  - b. Collect samples of body fluids such as blood, urine, etc., for further analysis.
  - c. Arrange for immediate decontamination.
4. Restrict access to the incident area to minimize further exposure or contamination.
5. Promptly notify local radiation personnel. Seek immediate advice on any steps to be taken and arrange for the availability of experts trained to deal with radiation accidents.
6. Contain contamination at the site of the incident,
  - a. use gloves and thongs to place plastic bags over anything suspected of being contaminated.
  - b. If there is any possibility of airborne contamination, use a mask.
  - c. Place all garments, gloves, tools, etc., used in the contaminated area in plastic bags.
  - d. Wash yourself immediately; shower as soon as possible.
7. Maintain as complete a record as possible for use in further investigation of the incident.

In the event of a fire:

1. Inform the fire department, at the scene, that radioactive materials are involved and their approximate location.
2. If possible, with priority given to human safety:
  - a. Use survey meter or calculation to define the 2mR/hr distance from the source holder and rope off the area.
  - b. Situation permitting, perform wipe tests on affected equipment.
  - c. If contamination is present, follow procedures as previously outlined.

In the event of explosion or collision:

1. Check the shutter mechanism to see that it is operating properly.
2. Survey the gauges to verify that the radiation profile has not changed.
3. Leak test the gauges to ensure encapsulation is still intact. If contamination is present, follow the procedures as listed previously.
4. If the gauges are damaged in anyway that might affect safety, arrange to have it shipped back to the manufacturer for repair or replacement.

**ITEM 10 –**

All service such as installation, maintenance, relocation, removal, initial radiation survey and leak test will be performed by device manufacturer ( Ronan- Kentucky license number 201-260-95) or other person specifically licensed by the NRC or an agreement state.

Personnel monitoring is not required, personnel are not likely to receive a dose in excess of 10% of the limits specified in 20.1201, 20.1207, or 20.1208 of the code of Federal Regulations.

Upon startup, manufacturer will complete survey paperwork.

A survey meter is not required. All service, such as installation, relocation, or removal will be performed by the device manufacturer or an individual licensed by the NRC or an agreement state.

Leak tests will be performed every six months, or if there is a reason to suspect that a sealed source may have been damaged, or might be leaking. Records will be maintained by the RSO and shall be available to the NRC for inspection.

Jeld-Wen Fiber of West Virginia will perform leak tests using an approved leak test kit provided by:

Ronan Engineering  
8050 Production Drive  
Florence, KY 41042  
Kit part no.: WPTST-D  
To be returned to Ronan for analysis

**Lock out procedures-**

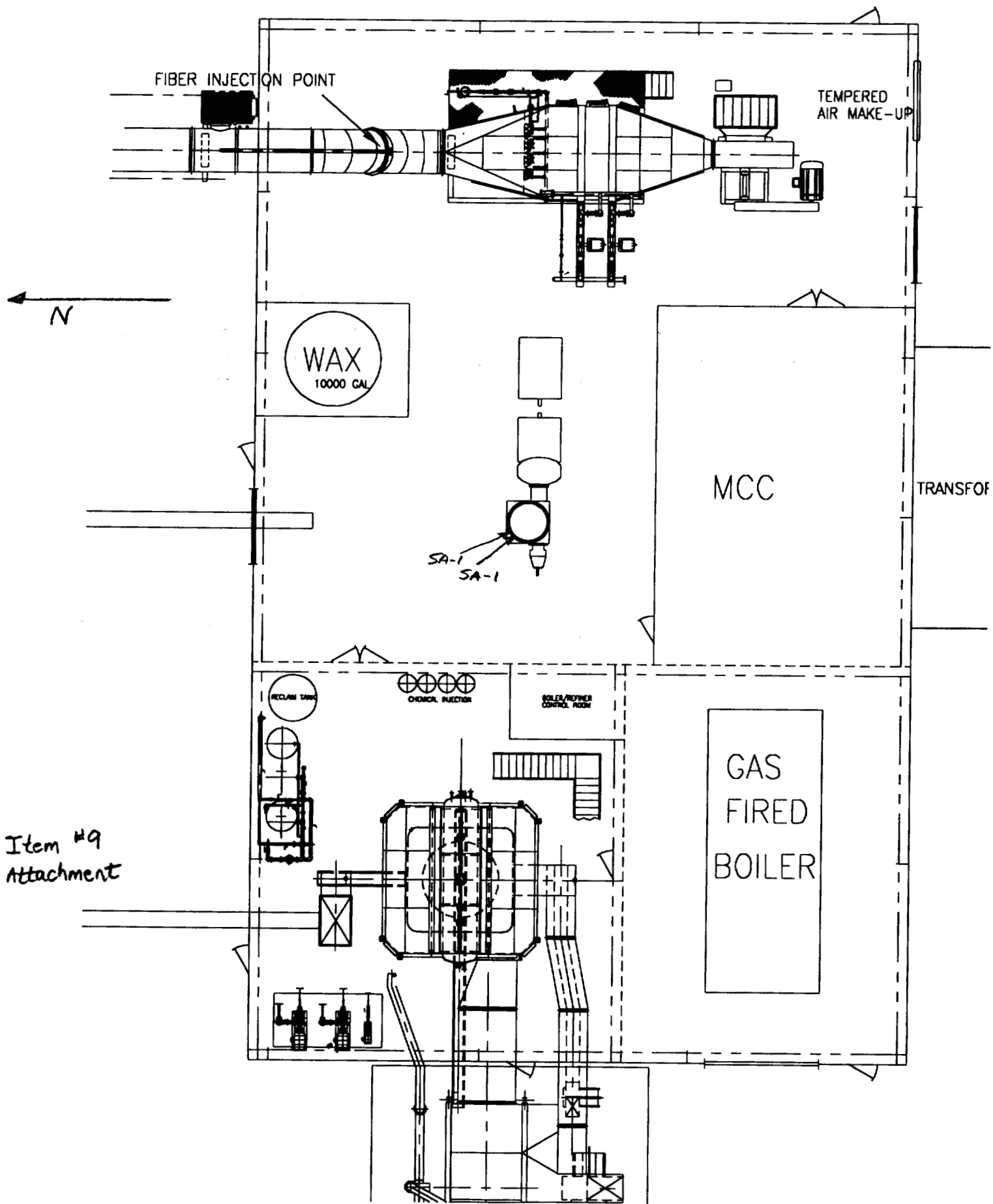
Jay Borrell, RSO, will insure that the following lock-out procedures will be posted in a sufficient number of places that workers will be able to view them as they are entering or leaving the restricted area.

The following lock-out procedures will be followed:

1. The RSO must be notified before any maintenance work is done.
2. The sealed source is in a shielded device and can be padlocked "closed". The only person to have a key or combination to the lock will be the RSO.
3. The RSO will lock the source in the "off" position before permitting access to any working personnel.
4. After completion of maintenance, the RSO will examine the source holder and the surrounding area before turning the source holder to the "on" position.
5. During maintenance to the vessel, the source holder is not to be disturbed.
6. Removal, relocation, repair, or maintenance of the source and the source holder will be performed only by the manufacturer or by someone specifically licensed by the NRC or an agreement state.

**ITEM 11—**

Whenever the source holder is no longer needed, it will be removed and returned to the manufacturer for disposal. The services of the manufacturer's representative will be obtained to supervise removal and/or packaging for the return to the manufacturer.



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# OHMART VEGA

*Jay Borrell*

*Jeld-Wen Fiber of NC Marion, North Carolina*

Has successfully completed the  
**Ohmart Radiation Safety Course**

June 9 - June 13, 1997

Presented at Ohmart Corporation

Subject matter covered:

Basic atomic theory  
Measurement and monitoring techniques  
Exposure calculations  
Biological effects of radiation  
NRC regulations  
Leak test, shutter check  
Installation, relocation, and removal procedures  
Hands on lab work  
Proper disposal practices  
Emergency procedures

*George W. Brown*

George W. Brown  
Radiation Safety Officer  
Training Manager

**OHMART** Corporation

Technical Training Schools, Cincinnati, Ohio 45209

ITEM #7 ATTACHMENT