

BBA Nonwovens
Route 15 and Hafer Road
Lewisburg, PA 17837

RECEIVED
SECTION 1

NMSB2

2001 NOV 23 AM 11:11

November 27, 2001

Licensing Assistant Section
Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission Region 1
475 Allendale Road
King Of Prussia, PA 19406-1415

030-32156

X

Dear Sir or Madam:

Subject: License Renewal 37-28639-01

Thank you for sending material needed for the renewal of our materials license. I called NRC in October to find out information about renewing our license and was directed to the NRC website to obtain the forms and guidance in filling out the forms. The recent redesign of NRC website removed access to those forms. I very much appreciated the effort by NRC to get me the forms via the mail!

As stated in the letter sent with the application, I have enclosed, in duplicate, correspondence regarding our license.

Our RSO resigned from the facility on October 2, 2001. The duties of RSO are part of the responsibility of the Electrical Engineer. We are actively pursuing filling this vacancy in our organization. When this position is filled, the name of the individual will be sent to you, along with the certificate of the training for the RSO duties for this individual. In the meantime, Kim Olszewski, Plant Nurse, and myself are filling the responsibilities of RSO.

If you have any questions regarding this renewal application, please contact me at 570-524-8458.

Sincerely,

Stephen Everson

Stephen Everson
Maintenance/Environmental/Project Leader
BBA Nonwovens

1 3 0 6 2 1

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this mandatory collection request: 7.4 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. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0000), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

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:

SAM NUNN ATLANTA FEDERAL CENTER
U. S. NUCLEAR REGULATORY COMMISSION, REGION II
61 FORSYTH STREET, S.W., SUITE 23T85
ATLANTA, GEORGIA 30303-8831

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH
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 78011-8084

030-32156
X

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

37-28639-01

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

BBA NONWOVENS, SIMPSONVILLE, INC
P.O. BOX 20
ROUTE 15 AND HAFFER RD
LEWISBURG, PA 17837

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

BBA NONWOVENS
ROUTE 15 AND HAFFER RD
LEWISBURG, PA 17837

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

STEPHEN EVERSON

TELEPHONE NUMBER

570-524-8458

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. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY SPECIAL NUCLEAR INSURANCE AMOUNT \$660.00
170.31 3021 & PART C ENCLOSED

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

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

STEPHEN EVERSON MAINTENANCE/ENVIRONMENTAL/PROJECT LEADER

SIGNATURE

Stephen E. Everson

DATE

11/27/01

FOR NRC USE ONLY

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

130621

5. Radioactive Material

- (a) 1. Krypton-85
- (b) 1. Sealed Source LFE Model S-70A
2. Sealed Source Accuray 1180
- (c) 1. No Single Source to exceed 1200 millicuries
2. No Single Source to exceed 500 millicuries

6. Purpose for which radioactive material will be used

- 1. To be used in LFE device model PM 5000 for the measurement of thickness of nonwoven material
- 2. To be used in Accuray device model 1180 for the measurement of thickness of nonwoven material

7. Individuals responsible for the Radiation Safety Program

On October 2nd, the Radiation Safety Officer resigned from the Company. The Company is actively pursuing to fill this position in the facility. In the meantime, Stephen Everson, Maintenance/Environmental/Project leader and Kim Olszewski, Safety Coordinator/Plant Nurse are responsible for the radiation safety program.

8. Training for individuals working in or frequenting restricted areas

These individuals receive the LFE mini-course. This course includes a review of the Regulatory Guide 8.29 and each person receives a copy of this regulatory guide.

License material shall be used by, or under the supervision of: Charles Morgan

9. Facilities and Equipment

Attachment A: Brief sketch of plant showing location of gauges.

10 Radiation Safety Program.

The Radiation Safety Office will be the individual holding the position of Electrical Engineer in the Operations department.

Minor maintenance activities will be performed by , or under, the supervision and in the physical presence of Charles Morgan.

The sealed sources containing licensed material will not be open or removed from the gauge by BBA Nonwovens personnel.

Installation, initial radiation survey, relocation, removal from service, replacement, and disposal of sealed sources will be performed by the manufacturer or by persons specifically licensed by the NRC or an agreement state to perform such services.

Persons who have completed the LFE training course will be authorized to perform source housing and detector housing window replacements on the LFE and Accuray gauges. Other jobs

NRC License Renewal

Revision 0

Reviewed 11/24/2001

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including shutter, indicator verification, mechanical and electrical troubleshooting. No individual will be allowed to enter the source housing.

The LFE and Accuray devices will receive safety performance testing at intervals no to exceed six months. Testing will consist of a check of proper shutter and indicator operation. The Radiation Safety Officer will maintain records of these tests.

A physical inventory will be conducted at periods not to exceed six months to account for all sources and devices possessed by BBA Nonwovens. The date and name of the person conducting the inventory will be recorded. The Radiation Safety Office will maintain records for a period of at least two years from the date of each inventory.

Emergency procedures as outlines in the document entitled "Emergency Nuclear Gauge Handling Procedures" will be followed.

11. Waste Management

The possession and use of radiation gauges for the measurement of thickness of nonwoven material generates no radioactive waste. When the sealed sources are no longer required, they will be returned to the device manufacturer.

Emergency Nuclear Gauge Handling Procedures

The following is a list of the precautionary steps to be taken in the event that physical damage occurs to a source housing on an LFE or Accuray System.

1. Immediately inform the Radiation Safety Office as the current situation
2. Immediately rope off the area around the damage nuclear gauge. This distance should encompass a 30-foot radius around the source housing.
3. Notify the gauge manufacturer of the incident. Arrange for an inspection to verify that the gauge is operations, to make necessary repairs to reinstallation, or to dispose of the gauge.
4. Immediately notify the Plant Nurse of the incident and the precautionary procedures that are being implement.
5. Notify the appropriate Regulatory Agency of the incident. For the following:
 - ***Any accident involving a nuclear reactor, nuclear fuel facility, or radioactive materials, or***
 - ***Lost or damaged radioactive materials, or***
 - ***Any threat, theft, smuggling, vandalism, or terrorist activity involving a nuclear facility or radioactive materials***

NRC can be called directly at **301-816-5100**. This is NRC 24 hour incident response operations center. All calls to this number are recorded.

For non-emergency related incidents, which do not fall within the above guidelines, call NRC toll-free safety hotline **800-695-7403**

Emergency Nuclear Gauge Handling Procedures

Revision 0

Issued Date: 11/27/2001

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Radiation Safety Procedure

In order to protect the health of individuals working with ionizing radiation, exposure to radiation must be kept as low as possible. The basic concepts of radiation safety involve time, distance, and shielding. Time must be minimized, distance and shielding maximized to achieve the objectives of radiation safety. Therefore, when employees of BBA Nonwovens are performing on the LFE or Accuray gauges the activities authorized by the U.S. Nuclear Regulatory Commission license, the following safety procedures must be observed:

1. Report to the Radiation Safety Offices that you will performing a particular activity.
2. For replacement of a device window, the device must be in the "off-sheet" position. Check that the green light is illuminated indicating that the shutter is closed. Do not proceed until the green light is illuminated. Turn off power off.
3. For replacement of the detector housing window, remove the detector housing from the frame and move it to a location at least five (5) feet from the source housing to perform the window replacement.
4. For replacement of the source housing window, remove the detector housing from the frame and place it a secure location. Access to the source-housing window is now permitted.
5. For the window replacement procedure, refer to the document entitled "Device Window Replacement".
6. The shielding is built into the LFE and Accuray device and additional shielding is not required. However, the worker has some control over time and distance. Keep exposure time to a minimum by having all materials and tools available before starting the job. Work quickly and efficiently. Maintain the maximum distance consistent with performing the job.
7. For shutter and indicator checks, it is necessary to approach the device only briefly to observe the red and green flags. A flashlight will facilitate the procedure.
8. When the activity is complete, report to the Radiation Safety Offices with the serial number and location of the device along with the date and amount of time spent on the activity.

Radiation Safety Procedure

Revision 0

Issued date: 11/24/2201

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Radiation Safety Officer

The following outlines the duties and responsibilities of the Radiation Safety Office at BBA Nonwovens. The Radiation Safety Officer shall:

1. Maintain the license issued by the U. S. Nuclear Regulatory Commission in current condition by means of amendments and renewals.
2. Assure that the radioactive material possessed by BBA Nonwovens conforms to the material authorized by the license.
3. Assure that the activities authorized by the license are performed by or supervised by and in the physical presence of persons authorized by the license.
4. Assure that the gauges are properly secured against unauthorized removal,
5. Assure that the gauges are transported in compliance with the applicable regulations of the U.S. Department of Transportation
6. Serve as a point of contact with the U.S. Nuclear Regulatory Commission in case of an emergency as fire.
7. Assure that the proper authorities are notified in case of an emergency
8. Assure that the terms and conditions of the license are met and that required records are maintained and periodically review for compliance with regulations of the U.S. Nuclear Regulatory Commission and with the license conditions.

Radiation Safety Office

Revision 0

Issued Date: 11/24/2001

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Device Window Replacement

A. Source Housing Window Replacement

1. The window on the source housing is replaced from the outside of the device. The material of the source housing window of the LFE Model SCL-77A or SUP77A device is aluminum with a thickness of 0.8 mil.
2. Before attempting to replace a window, make certain that the device shutter is closed. Closure is indicated by illumination of the green indicator light. After removing power from the device, check again for shutter closure by observing green (no red) in the viewing port. Remove the detector housing to gain access to the window. To remove the detector housing, remove the electrical connector and the four bolts that secure the detector housing to its mounting bracket or remove the electrical connector and the two bolts that secure the detector housing and its bracket to the frame, depending on the type of frame.
3. The window is secured by means of a steel ring which is held in place by four screws. To remove the damaged window, remove the screws and lift off the ring. The window may now be removed.
4. Before installing the new window, make certain that the "O" ring beneath the window is in place. Place the new window in position and make a small hole in it for the first screw. Align this hole with the screw hole. Place the ring over the window, aligning one of the holes with the screw hole. Place a screw in the hole and engage about two turns. On the opposite side of the ring, make another small hole in the window for the second screw and align with the screw hole. Place a screw through the hole in the ring into the screw hole. Engage about two turns. Repeat the process for the remaining screws. Tighten all screws. With a knife, trim excess window material.
5. Return the detector housing to the frame. Reconnect the electrical connector.

B. Detector Window Replacement

1. The window on the detector housing is replaced from the outside of the device. The material of the detector housing window is aluminum with a thickness of 2.0 mils.
2. Before attempting to replace a window, make certain that the device shutter is closed. Closure is indicated by illumination of the green indicator light. After removing power from the device, check for closure of the shutter by observing green (no red) in the viewing port. For window replacement, the detector housing must be removed from the frame. To remove the detector housing, remove the electrical connector and the four bolts that secure the detector housing to its mounting bracket or remove the electrical connector and the two bolts that secure the detector housing and its bracket to the frame, depending on the type of frame.

3. The window is secured by means of a steel ring which is held in place by six screws. To remove the damaged window, remove the screws and lift off the ring. The window may now be removed.
4. Before installing the new window, make certain that the "O" ring beneath the window is in place. Place the new window in position and make a small hole in it for the first screw. Align this hole with the screw hole. Place the ring over the window aligning one of the holes with the screw hole. Place a screw in the hole and engage about two turns. On the opposite side of the ring, make another small hole in the window for the second screw and align with the screw hole. Place a screw through the hole in the ring into the screw hole. Engage about two turns. Repeat the process for the remaining screws. Tighten all screws. With a knife, trim excess window material.
5. Return the detector housing to the frame. Reconnect the electrical connector.



EUROTHERM
GAUGING
SYSTEMS

CERTIFICATE

Awarded to

Charles P. Morgan

FOR SUCCESSFUL COMPLETION OF A 16 HOUR COURSE IN RADIATION TECHNOLOGY
SUBJECTS INCLUDED WERE:

STRUCTURE OF THE ATOM
THE ELEMENTS
PRINCIPLES OF RADIOACTIVITY
CHARACTERISTICS OF RADIOISOTOPES
INTERACTION WITH MATTER
RADIOACTIVE DECAY
UNITS OF RADIOACTIVITY
DESIGN OF RADIOACTIVE SOURCES
DETECTION OF RADIATION
PRINCIPLES OF RADIATION GAUGING

GEIGER TUBE SURVEY METER
UNITS OF RADIATION DOSE
ION CHAMBER SURVEY METER
NRC AND AGREEMENT STATES
LEAK TESTING
PROTECTION AGAINST RADIATION
BIOLOGICAL EFFECTS OF RADIATION
EMERGENCY PROCEDURES
REPORTING INCIDENTS

PRESENTED AT: VERATEC

Lewisburg, Pennsylvania
January 13 & 14, 1998

William R. Prendergast
William R. Prendergast
Instructor

This is to acknowledge the receipt of your letter/application dated

11/27/2001, and to inform you that the initial processing which includes an administrative review has been performed.

☒ *RENEWAL 37-28639-01*
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 1 3 0 6 2 1.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

: (FOR LFMS USE)
: INFORMATION FROM LTS
: -----
:
: Program Code: 03120
: Status Code: 2
: Fee Category: 3P
: Exp. Date: 20011130
: Fee Comments: _____
: Decom Fin Assur Req'd: N
: ::

LICENSE FEE TRANSMITTAL

A. REGION **I**

1. APPLICATION ATTACHED

Applicant/Licensee: BBA NONWOVENS, SIMPSONVILLE, INC.
Received Date: 20011128
Docket No: 3032156
Control No.: 130621
License No.: 37-28639-01
Action Type: Renewal

2. FEE ATTACHED

Amount: **\$660.00**
Check No.: **AUTH. FOR PAYMENT BY CREDIT CARD (FORM 629)**

3. COMMENTS

**NO FEE DUE FOR
RENEWALS.**

Signed **M. A. Perkins**
Date **11/29/2001**

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / __/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____