

(03-2013)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40



## APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.3 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 Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [Infocollect.Resource@nrc.gov](mailto:Infocollect.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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. \*AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.**

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

OFFICE OF FEDERAL & STATE MATERIALS AND  
ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:****IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA,  
KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY,  
NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH  
CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

**SEND APPLICATIONS TO:**

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PA 19406-2713

**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  
2443 WARRENVILLE ROAD, SUITE 210  
Lisle, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
LOUISIANA, MISSISSIPPI, 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 BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
1600 E. LAMAR BOULEVARD  
ARLINGTON, TX 76011-4511

**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

17-26958-01

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

Voith Paper Fabric & Roll Systems, Inc.  
7133 West Park Road  
Shreveport, LA 71129  
USA

**3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED**

Temporary jobsites anywhere in the  
United States where NRC maintains  
jurisdiction

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

Karen Moushon, R.S.O.

**BUSINESS TELEPHONE NUMBER**

(318) 682-4711

**BUSINESS CELLULAR TELEPHONE NUMBER**

N/A

**BUSINESS EMAIL ADDRESS**

Karen.Moushon@Voith.com

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.

See attached

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

see attached

**8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.****7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.**

Karen Moushon, R.S.O.

**8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.****9. FACILITIES AND EQUIPMENT.**

N/A

**10. RADIATION SAFETY PROGRAM.**

see attached

**11. WASTE MANAGEMENT.**

Disposal- see attached

**12. LICENSE FEES (Fees required only for new applications, with few exceptions\*) (See 10 CFR 170 and Section 170.31)****FEE CATEGORY**

3P

**AMOUNT 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.**

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**

Karen A. Moushon, R.S.O.

**SIGNATURE**

[Signature]

**DATE**

3-18-15

**FOR NRC USE ONLY**

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

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# VOITH

**Karen Moushon**  
Radiation Safety Officer

Fabric and Roll Systems

**Voith Paper**

Voith Paper Fabrics  
7133 West Park Road  
Shreveport, LA 71129, USA  
Telephone (318) 682-4711  
Fax (318) 687-2078  
Customer Service 1-888-598-6484  
[karen.moushon@voith.com](mailto:karen.moushon@voith.com)

No. 5 6 6 3 4

5.

DATA SHEET  
NDC Model 104P Gauge

GAUGE: NDC MODEL 104P  
SOURCE: Am 241  
ACTIVITY: 80 millicuries

Primary Decay: Alpha  
Secondary: Gamma (Energy 60KeV)

Principle of Operation: Backscatter  
Detector Type: SCINTILLATION (NaI)  
Measure: Density and Thickness is proportional to backscatter radiation

Sealed Source: Am 241 encapsulated in stainless steel tube and  
helium arc welded.

Encapsulation Tests: 1. Impact  
(Source is very 2. Puncture  
rugged and not 3. Vibration  
subject to great 4. Pressure  
damage) 5. Temperature  
6. Thermal Shock

Detector Assembly: May be somewhat fragile  
Probe: Transmitter and receiver

Dose Rate at 18 inches (45°) = 1.2mRem/Hr (Shutter Open)  
Dose Rate at 12 inches (45°) = 2.8mRem/Hr (Shutter Open)  
Dose Rate at 12 inches (0°) = 3.5mRem/Hr (Shutter Open)  
Dose Rate at 2 inches (0°) = 0.1mRem/Hr (Shutter Closed)



Voith Paper

Voith Paper Fabric & Roll Systems, Inc.  
7133 West Park Road  
Shreveport, LA 71129  
Telephone (318) 687-5485  
Fax (318) 687-2078

6. Purpose(s) for which licensed Material will be used.

The NDC Model 104PC gamma gauges are used for the purpose of measuring mass and density on paper machines at temporary worksites (paper mills).

7.

Karen A. Moushon, Radiation Safety Officer  
Voith Paper Fabric & Roll Systems, Inc.  
7133 West Park Road  
Shreveport, LA 71129  
Phone (318) 682-4711  
Fax (318) 687-2078

### Summary of Training

Radiation Safety Officer; overseeing use, distribution, audits, scheduling and notifications of 104PC gamma gauges, licensing and reciprocity, and training and updates for certified technicians – 21 years.

1. A Radiation Safety Training Program in the Care and Use of Nuclear Gages (4 hour basic course), Instructor: Chares A. Killgore, P.E., Killgore's Inc., Ruston, Louisiana., October 18, 1993.
2. Radiation Safety Seminar, (3-days), Instructors: Susan J. Engelhardt, M.S., Ralph Grunewald, Ph.D., Dee Ann Kaiser, M.S., Judith Grunewald, R.N., M.S., Engelhardt & Associates, Inc., Las Vegas, NV, May 20-22, 1996
3. Radiation Safety Officer Course, (5-days), Engelhardt & Associates, Inc. Madison, WI, October 19-23, 1998.
4. Radiation Safety Officer Refresher Training and Instruction as Required by NUREG-1556, Volume 4, Appendix G, (8 hrs.). Instructor: Todd Y. Mobley, Director, Technical Services, Applied Health Physics, Inc., Bethel Park, PA., May 19, 2003.
5. Radiation Safety Seminar, (3-days), Engelhardt & Associates, Inc. Ft. Lauderdale, FL., April 10-12, 2006.
6. Radiation Safety Officer Refresher Training & Instruction, (8 Hrs.), Instructor: Todd Y. Mobley, Applied Health Physics Inc., Bethel Park, PA, March 10, 2008.
7. Radiation Safety Training, (3-days), Engelhardt & Associates, Inc., Green Bay, WI, June 7 - 9, 2010.
8. Radiation Safety Training, (2 days) Engelhardt & Associates, Inc., Milwaukee, WI, August 13-14, 2013.



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## 8. Training for Individuals Working in or Frequenting Restricted Areas

Before using licensed material, authorized users will receive the training described in Appendix H in NUREG-1556, Vol 18, 'Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Service Provider Licenses,' dated November 2000.

## **ALARA PROGRAM**

### **1. Management Commitment**

**Voith Fabrics is committed to make every reasonable effort to minimize radiation exposures to employees, through the following control measures:**

**Personnel will be made aware of management's commitment to maintain low exposure levels.**

**Management will periodically review operating procedures with radiation safety officer to determine steps taken to reduce exposures.**

**Management will ensure that the person, or persons, selected for Radiation Safety Officer responsibilities are fully qualified to administer all aspects of a radiation protection program.**

**Management will ensure that all employees engaged in the use of radioactive equipment are fully trained in the area of radiation safety. This will be reviewed at least once a year, and additional training will be scheduled as necessary.**

**The RSO has full authority to enforce safe operation, and to communicate as required with appropriate levels of management to halt an operation he/she deems unsafe.**

### **2. Vigilance by the RSO and Radiation Protection Staff**

**The RSO has the responsibility to monitor the Radiation Safety Program to ensure that exposures are as low as reasonably achievable, and to search for new and better ways to perform jobs with less exposure. The following aspects apply to this responsibility:**

**The RSO shall know the origins of radiation exposure and be aware of trends in exposures.**



**Should unusual exposures occur, the RSO shall initiate an investigation of the circumstances to determine causes and prevent the likelihood of recurrence. Operating procedures should periodically be reviewed to identify situations in which exposures can be reduced.**

**The RSO shall be responsible for ensuring that the equipment used is maintained in good working order and used properly. Written procedures for use of the equipment are to be available and followed.**



**VOITH FABRIC & ROLL SYSTEMS, INC.**  
**SHREVEPORT, LA**

**RADIATION SAFETY PROGRAM**

<b>Probe Model</b>	104P, 104PC
<b>Radioactive Source</b>	Americium 241
<b>Radiation</b>	alpha, gamma
<b>Form</b>	Ceramic beads
<b>Capsule</b>	Stainless steel capsule, 0.2mm window

The following procedures will be followed in the use of the Model 104P and 104PC.

- 1) The Radiation Safety Officer (RSO) will have overall responsibility for the gauges. The gauges not in the possession of certified service technicians in the field shall be in the RSO's possession and stored in a secured area. The RSO shall have the only key to the secured area at the plant location.
- 2) Appointments for surveys or demonstrations using the gauge will be recorded in a Usage Log by the RSO who will be provided with dates and field trip information on a weekly basis by service personnel. This Log, which will be maintained and kept in the Shreveport office, will contain the dates of expected and actual usage of all gauges in the possession of the company.
- 3) The RSO will send necessary notification to Agreement States and NRC offices at least three days (72 hours) prior to performing field work in those states, giving estimated dates that the gauge will be at that particular location, usually a temporary job site.
- 4) The RSO or certified technician will make arrangements for transportation of the gauge. During transportation by service vehicle, the radioactive device, in its locked case, shall be secured in the back of the vehicle. All applicable State and Federal transportation regulations regarding securing of the unit and identification shall be observed.
- 5) The field engineer performing the survey is not to leave the gauge unattended in unsecured areas. If it is necessary to leave the plant survey area, the radiation device shall be repacked in its case, the case should be locked, and then stored in a location where it can be either kept under lock and key or be under the constant control of a radiation safety trained Voith employee.
- 6) Prior to assigning the gauge to a field engineer, and upon its return, the RSO shall check the gauge for proper operation, and make sure that the shutter is working properly.

The RSO will check that detailed operating instructions for use of the gauge are packed in a prominent location with the gauge.

8) The RSO will be responsible for ensuring that the six-month leak tests and shutter tests are performed, and that all records be kept on file.

9) The radioactive device will be returned to NDC Systems for all repairs. No maintenance (other than wipe, or leak tests) will be required. The Model 104P generates no waste. Device to be returned to NDC Systems in the event of cessation of use.

10) No personnel monitoring devices are required. The energy output is soft 60 KEV radiation. The maximum exposure at 1 foot with the shutter open is 3.5 mrem. The operator is never positioned in the radiation beam and is normally at least 3 feet away from the active end of the device. The use of the device is intermittent and would average less than 10 hours per week.

11) The RSO will make all necessary arrangements or properly train anyone responsible for transporting or shipping the gauge. All applicable State and Federal transportation regulations shall be observed. Operating and emergency procedures as described above will be provided to each field engineer using the device. Annual training, as required by NRC mandate, will be provided to each and every certified user. Gauges will be field audited once each calendar year, as required by law.

### **Procedures in Case of Suspected Damage**

This procedure is designed to prevent the possible spread of radioactive material. It should be carried out preferably by one person, conducted in as limited a physical area as possible. Because of its physical location and its construction (helium arc welded stainless steel), it is highly unlikely that any damage will occur to the source. However, in case of actual or suspected damage, the following procedure should be followed:

***Danger***        If capsule is broken, contamination by alpha emitting particles  
                      If capsule is not broken, minimal danger.

### ***Response Procedure***

**Clear the area**, within 5 feet of source, but do not walk away.  
Stay in the vicinity until cleared by the RSO, or certified personnel on Site.

### **Attend to injury**

**Prevent the spread.** Cover the source with wet paper towel, but do not attempt to clean it up. Confine the movement of all potentially contaminated personnel. Turn off fans, air conditioners.

**Notify Radiation Safety Officer (RSO) or Certified Personnel**

## **On Site**

**Secure the area**, to restrict entry into possibly contaminated area.

**Personnel contamination** - Check feet, hands and clothing for alpha contamination. As we are not required to possess survey meters and, if it is deemed necessary to assess contamination, the nearest fire department shall be located to obtain/use a radiation survey meter. If contaminated, remove all contaminated apparel, until clean. Wash hands, after being released by certified personnel. The designated person will release everyone, after certifying that threat of contamination does not exist.

**Decontaminate.** Determine if capsule is broke, by survey of area with alpha detector. If capsule is not broken, put source into a protective container. If capsule is broken, area should be roped off. **DO NOT ENTER ROPED OFF AREA.**

Designated certified personnel will put source capsule into a protective container. The area is off limits until decontaminated and cleared by certified personnel.

**Report.** RSO or certified personnel on site will report to proper authority, who will review the accident and make recommendation regarding procedure to prevent recurrence of accident.

### **Emergency Phone Numbers**

NDC/Infrared Engr.

(626) 939-3855

**If the unit is lost or stolen the following procedure is to be followed:**

Notify the Radiation Safety Officer (RSO) immediately at (800) 551-8399, who in turn will notify the Louisiana Dept. of Environmental Quality by phone at (225) 765-0160. In the event the RSO cannot be reached when called, the field engineer will notify the Louisiana Dept. of Environmental Quality immediately, then notify the relevant State Police, Sheriff and/or Highway Patrol offices.



January 11, 2008

**Subject: Return of Radioactive Sources Supplied by NDC**

Dear NDC Customer:

This memo is to confirm NDC will take back sources, which NDC has supplied, to your company at the end of the sources' working life. Please be advised that NDC will be required to charge a fee for the disposal of the sources.

If you should require additional information please contact us at our e-mail address [radiationsafety@ndc.com](mailto:radiationsafety@ndc.com)

Regards,

A handwritten signature in black ink, appearing to read 'Frank Aguirre', with a stylized flourish at the end.

Frank Aguirre  
Radiation Safety Officer  
NDC Infrared Engineering

NDC Infrared Engineering Inc., 5314 North  
Irwindale Avenue, Irwindale, CA 91706 USA  
Telephone: (626) 960 - 3300, Fax:  
(626) 939-3870, [info@ndcinfrared.com](mailto:info@ndcinfrared.com)



[www.ndcinfrared.com](http://www.ndcinfrared.com)

No 586334



DATE

03/25/2015

## NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Karen A. Moushon  
Radiation Safety Officer  
Voith Fabrics Shreveport, Inc  
7133 West Park Road  
Shreveport, Louisiana 71129

## LICENSE NUMBER

17-26958-01

## MAIL CONTROL NUMBER

586334

## LICENSING AND/OR TECHNICAL REVIEWER

CH

This is to acknowledge the receipt of your:

☐ LETTER and/or ☒ APPLICATION

DATED: 03/18/2015

The initial processing, which included an administrative review, has been performed.

☐ AMENDMENT ☐ TERMINATION ☐ NEW LICENSE ☒ RENEWAL

- ☐ There were no administrative omissions identified during our initial review.
- ☒ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.
- ☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV  
U. S. Nuclear Regulatory Commission  
DNMS/NMSB - B  
1600 E. Lamar Boulevard  
Arlington, TX 76011-4511  
(817) 200-1103 or (817) 200-1140

✓ 3/25

BETWEEN:

Accounts Receivable/Payable  
and  
Regional Licensing Branches

[ FOR ARPB USE ]  
INFORMATION FROM WBL

Program Code: 03121  
Status Code: Pending Renewal  
Fee Category: 3P  
Exp. Date:  
Fee Comments:  
Decom Fin Assur Req: N

## License Fee Worksheet - License Fee Transmittal

### A. REGION

#### 1. APPLICATION ATTACHED

Applicant/Licensee: VOITH FABRICS SHREVEPORT, INC.  
Received Date: 03/20/2015  
Docket Number: 3030773  
Mail Control Number: 586334  
License Number: 17-26958-01  
Action Type: Renewal

#### 2. FEE ATTACHED

Amount: \_\_\_\_\_

Check No.: \_\_\_\_\_

#### 3. COMMENTS

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

### 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: \_\_\_\_\_