



The Chemical Company

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CERTIFIED MAIL – RETURN RECEIPT REQUESTED
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August 8, 2011

U.S. Nuclear Regulatory Commission
Region III
Nuclear Materials Licensing Branch
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

Subject: License Renewal Application
License No. 21-00627-02

To Whom It May Concern:

Please find enclosed the Application for renewal of the BASF Wyandotte, Michigan Site Material License. This submittal contains NRC Form 313 and the required information for Items 5-11.

You can reach me at (734) 324-5282 or email me at Derek.hetes@basf.com with any questions or concerns.

Sincerely,

Nancy L. Diem
Administrative Assistant on Behalf of
Derek Hetes/Radiation Safety Officer/EHS Team Member
BASF-Wyandotte Site



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Table B.1 Items 5 & 6: Materials To Be Possessed and Proposed Uses

Yes	No	Radioisotope	Manufacturer Model No. (SSDR)	Quantity	Use as Listed on SSD Certificate	Other uses not listed on SSD Certificate
X		Cesium-137	Thermo Fisher Scientific/ TN Technologies Model 5205A (TX-0634-D-142-B)	5 mCi	Yes[x] Specific description of the gauge use: <u>Used in Thermo Fisher Scientific/ TN Technologies level gauging system.</u>	[x] Not applicable
X		Cesium-137	Thermo Fisher Scientific/ TN Technologies Model 5205A (TX-0634-D-142-B)	5 mCi	Yes[x] Specific description of the gauge use: <u>Used in Thermo Fisher Scientific/ TN Technologies level gauging system.</u>	[x] Not applicable
X		Cesium-137	Berthold Technologies Model LB300LP (TN-1031-D-104-B)	50 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cesium-137	Berthold Technologies Model LB300LP (TN-1031-D-104-B)	50 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cesium-137	Berthold Technologies Model LB300LP (TN-1031-D-104-B)	50 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cesium-137	Berthold Technologies Model LB300LP (TN-1031-D-104-B)	50 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cesium-137	Berthold Technologies Model LB300LP (TN-1031-D-104-B)	50 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable



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Table B.1 Items 5 & 6: Materials To Be Possessed and Proposed Uses

Yes	No	Radioisotope	Manufacturer Model No. (SSDR)	Quantity	Use as Listed on SSD Certificate	Other uses not listed on SSD Certificate
X		Cobalt-60	Berthold Technologies Model LB300L (TN-1031-D-104-B)	0.459 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cobalt-60	Berthold Technologies Model LB300L (TN-1031-D-104-B)	0.622 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cobalt-60	Berthold Technologies Model LB300L (TN-1031-D-104-B)	0.459 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cobalt-60	Berthold Technologies Model LB300L (TN-1031-D-104-B)	0.459 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cobalt-60	Berthold Technologies Model LB300L (TN-1031-D-104-B)	0.459 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cobalt-60	Berthold Technologies Model LB300L (TN-1031-D-104-B)	0.622 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable
X		Cobalt-60	Berthold Technologies Model LB300L (TN-1031-D-104-B)	0.459 mCi	Yes[x] Specific description of the gauge use: <u>To be used in Berthold Technologies level gauging system.</u>	[x] Not applicable



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Table B.2 Items 7 through 10: Training, Experience, Facilities and Equipment and Radiation Safety Program

	Training & Experience	Yes	Alternative Procedures Attached
7. Individuals Responsible for Radiation Safety Program and Their Training Experience 7.1 Radiation Safety Officer: Derek Hetes Alternate: Dan Hannewald	The RSOs have completed Radiation Safety Training consistent with criteria in NUREG-1556 Vol. 4, October 1998. AND Before being named RSO, future RSO's will have successfully completed training consistent with criteria in NUREG-1556 Vol. 4, October 1998. Within 30 days of naming a new RSO, we will submit the new RSO's name to NRC to include in our License.	[X]	[]
7. Individuals Responsible for Radiation Safety Program and Their Training and Experience 7.2 Authorized Users	PROPOSED AUTHORIZED USERS: Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section titled Authorized Users in NUREG-1556, Vol. 4 dated October 1998.	[X]	[]
8. Training for Individuals in the Course of Employment are Likely to Receive doses in Excess of 100 mRem/ yr	BASF Wyandotte Site employees who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year shall receive training according to 10 CFR 19.12.	[X]	
9. Facilities and Equipment	We will ensure that the location of each fixed gauge meets the Criteria in the section entitled "Facilities and Equipment" in NUREG-1556, Vol. 4 dated October 1998.	[X]	[]
10. Radiation Safety Program - Survey Instruments	We will use instruments that meet the Criteria in the section entitled "Radiation Safety Program - Instruments" in NUREG-1556, Vol. 4 dated October 1998 and each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations.	[X]	[]
10. Radiation Safety Program - Material Receipt and Accountability	Physical inventories will be conducted at intervals not to exceed 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.	[X]	[]

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.

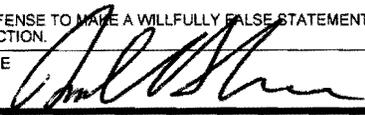
<p>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</p> <p>DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001</p>	<p>IF YOU ARE LOCATED IN:</p> <p>ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:</p> <p>MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352</p>
<p>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:</p> <p>IF YOU ARE LOCATED IN:</p>	
<p>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:</p> <p>LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406-1415</p>	<p>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:</p> <p>NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-4005</p>

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.

<p>1. THIS IS AN APPLICATION FOR (Check appropriate item)</p> <p><input type="checkbox"/> A. NEW LICENSE</p> <p><input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER _____</p> <p><input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER 21-00627-02</p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</p> <p>BASF Corporation 1609 Biddle Ave. Wyandotte, MI 48192</p>
<p>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>BASF Corporation 1609 Biddle Ave. Wyandotte, MI 48192</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Derek Hetes</p> <p>TELEPHONE NUMBER</p> <p>(734) 324-5282</p>

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.

<p>5. RADIOACTIVE MATERIAL</p> <p>a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>
<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</p>	<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>
<p>9. FACILITIES AND EQUIPMENT.</p>	<p>10. RADIATION SAFETY PROGRAM.</p>
<p>11. WASTE MANAGEMENT.</p>	<p>12. LICENSE FEES (See 10 CFR 170 and Section 170.31)</p> <p>FEE CATEGORY NA AMOUNT ENCLOSURED \$ 0.00</p>
<p>13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.</p> <p>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.</p> <p>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.</p>	

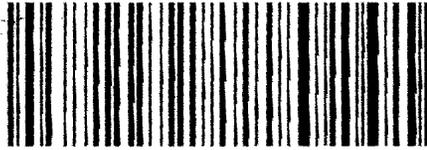
<p>CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE</p> <p>Derek Hetes/ Site Radiation Safety Officer</p>	<p>SIGNATURE</p> 	<p>DATE</p> <p>08/05/2011</p>
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TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

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BASF Corporation
1609 Biddle Avenue
Wyandotte, MI 48192

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