



RECEIVED
REGION I

04 DEC -7 10:25

Experimental Station E322/327A
P.O. Box 80322
Wilmington, Delaware 19880-0322
December 2, 2004

K-4

Licensing Assistance Section
Nuclear Materials Safety Branch
Attn: Steven Courtemanche, Health Physicist
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

03003859

*Re: Proposal to amend limited scope license (Lic. # 07-00455-27) for E.I. duPont de Nemours, Inc.
Chestnut Run Plaza, Wilmington, Delaware. Response to NRC request for information on generally
licensed sealed source devices in use at site.*

Dear Mr. Courtemanche:

Attached are 2 copies of both NRC Form 313 and an application to amend the license referenced above.
The following changes are proposed to the license:

- 1) Change of radiation safety officer (RSO) from Robert A. Gadon to Keith A. Swain. Attached are qualifications for both Mr. Swain.
- 2) New contact information for the Radiation Safety Officer:

Proposed RSO: Keith A. Swain

Mailing address for RSO:

E.I. du Pont de Nemours and Company, Inc.
Experimental Station E322/327A
P.O. Box 80322
Wilmington, Delaware 19880-0322

Telephone: 302-695-6853
Facsimile: 302-695-9104
eMail: keith.a.swain@usa.dupont.com

- 3) Change the list of individuals serving as alternate (backup) RSO (item 11 in Amendment 25 of the current license). The alternate RSO will cover for the primary RSO in the event of their absence. Please delete Keith A. Swain and Donald F. Frank as alternate RSO. Michael B. Ohm and Nicole D. Walsh will continue in this position.
- 4) On October 18, 2004, you spoke with Robert A. Gadon, CIH and requested a list of generally licensed sealed source devices in use at Chestnut Run Plaza. The inventory of instruments you requested in described in the table below:

136095

NMSS/RGNI MATERIALS-002

Type of Device	Instrument Manufacturer	Instrument Model Number
X-ray fluorescence (XRF) detector	Niton	XLi-401
X-ray fluorescence (XRF) detector	Niton	XLi-402

If you have any questions or comments regarding this proposed amendment, please contact me at the above listed address or by telephone at (302) 695-6853.

Regards,



Keith A. Swain
Acting Radiation Safety Officer

Enclosures

NRC FORM 313
(4-2004)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2005

Estimated burden per response to comply with this mandatory collection request: 7 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 and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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.

APPLICATION FOR MATERIAL LICENSE

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:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, 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
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

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, 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
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-4005

03603859

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 07-00455-27

☐

C. RENEWAL OF LICENSE NUMBER

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

E.I. du Pont de Nemours and Company, Inc.
Keith A. Swain
Experimental Station E322/327A
P.O. Box 80322
Wilmington, DE 19880-0322

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

E.I. du Pont de Nemours and Company, Inc.
Chestnut Run Plaza
4417 Lancaster Pike
Wilmington, DE 19805

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Keith A. Swain

TELEPHONE NUMBER

(302) 695-6853

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 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

Robert J. Bristow, Site Manager

SIGNATURE



DATE

12/6/04

FOR NRC USE ONLY

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

Keith A. Swain

Keith A. Swain

Position: Radiation Safety Officer (RSO)

Education

- 1974 Bachelor of Science, Biology. Eastern Nazarene College, Quincy Massachusetts.
- 1981 Certified Industrial Hygienist in Training - American Industrial Hygiene Association

Training

* Received

- New England Nuclear Radiation Safety Training: New Employee Orientation; Sealed Sources; Specialized Training including Health Physics; Waste Management; DOT/Radiation Safety; Cyclotron and Linear Accelerator Safety.
- DuPont Experimental Station: 3-hour site radioisotope user orientation; Sealed Sources; Non-User Training; DOT.
- 8-hour radiation protection seminar. Contracted by DuPont to Stuart Kline, CIH CSP CHMM of the Cleveland Clinic, Cleveland, Ohio.

* Provided as a Course Instructor

- New England Nuclear Radiation Safety Training for new employees, refresher training, vendors: New Employee Orientation; Sealed Sources; Specialized Training, including Health Physics; Waste Management; DOT/Radiation Safety.
- Safe Fire Brigade Response to Emergencies Involving Radioactive Materials: Provided to Boston Fire Department Ladder Company 18.
- Radiation Safety Orientation for Community Advisory Panel Membership.
- DuPont Experimental Station and Chestnut Run Site Radiation Safety Training for new employees, Refresher Training for employees, Vendor Training, Sealed Sources; Specialized Training; Security of Radioactive Material Compliance.

Work Experience

1976 – 1984 New England Nuclear (NEN), Boston, Massachusetts.

During tenure, served as Health Physics & Radiological Control Technologist, Technical Safety Specialist, Safety, Biosafety Officer, Asst. Radiation Safety, Hygiene & Fire Protection Supervisor-Boston, and Corporate Safety, Health & Fire Protection Consultant. Reported to and supervised by Corporate Radiation Safety Officer - Robert L. Devlin (retired Mass. Radiation Safety Inspector), followed by Director, Safety, Health & Environmental Control, Charles B. Killian. Employment involved the handling of uCi - multi Curie quantities of ^{14}C , ^3H , ^{32}P and ^{35}S radiolabeled compounds, sealed sources, and indirect safety management of NEN's 1,500 catalog compounds and the receipt and use of radioactive precursor material. Responsibilities also included conducting all radiation safety program activities, e.g. training, auditing, orders/receipt/surveys/delivery/inventories of licensed material, records, consultations, dosimetry, waste management, environmental monitoring, emergency response, facility/equipment/people decontamination, incident investigations, NRC Audits, Radiation Safety Committee member, personnel monitoring - air and biological samples.

1984 – present. E.I. duPont de Nemours, Inc. Experimental Station. Wilmington, Delaware.

Employment at DuPont has included many diverse technical and managerial assignments in safety, health and environmental stewardship; radiation safety program leadership; engineering; construction and crafts; and site services. Employment involved the handling of uCi - milli Curie quantities of radiolabeled compounds and sealed sources. Responsibilities during this period included conducting, resourcing or leading radiation safety program activities, e.g. training, auditing, orders, receipt-surveys-delivery- of licensed material, inventories, records, consultations, dosimetry, waste management/incineration management, compliance monitoring, environmental monitoring, emergency response, facility/equipment/people decontamination, incident investigations, NRC Audits, Supervision of Site RSO and Process Owner of the ESL Radiation Safety Program, Radiation Safety Committee member, personnel monitoring - air and biological samples.

Currently employed at the Experimental Station as a Senior Consultant Safety, Health, and Environmental Stewardship with DuPont Facility Services & Real Estate/Research & Development Safety, Health & Environment Division.

Keith A. Swain

Other Training and Experience

- Co-authored a paper presenting human excretion patterns following occupational uptake of ^3H , ^{14}C and ^{35}S radiolabeled compounds. Health Physics (March 1983), Vol.44, No.3.
- From 1993-1999, Mr. Swain was the DuPont Experimental Station - Radiation Safety Program process leader and supervisor of Augusto A. Cordova - ESL Radiation Safety Officer.
- From 1999 to the present, Mr. Swain has been a member of the Experimental Station Radiation Safety Committee as the Site Management Representative.

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

12/2/2004, and to inform you that the initial processing which includes an administrative review has been performed.

☒ AMEND. 07-00455-27
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 136095.
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: : (FOR LFMS USE)
 : INFORMATION FROM LTS
 : -----
 :
 License Fee Management Branch, ARM : Program Code: 03122
 and : Status Code: 0
 Regional Licensing Sections : Fee Category: 3P
 : Exp. Date: 20110930
 : Fee Comments: _____
 : Decom Fin Assur Req'd: N
 ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: DUPONT CO.
Received Date: 20041207
Docket No: 3003859
Control No.: 136095
License No.: 07-00455-27
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: _____

3. COMMENTS

Signed M. A. Perkins
Date 12/01/2009

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 _____