

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.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20555

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
KING OF PRUSSIA, PA 19406

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
MATERIAL RADIATION PROTECTION SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
MATERIAL RADIATION PROTECTION SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

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 JURISDICTION.

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

- ☐ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☒ C. RENEWAL OF LICENSE NUMBER 47-01449-01

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

E. I. DU PONT DE NEMOURS & CO., INC.
901 W. DUPONT AVE.
BELLE, WV 25015

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

E. I. DU PONT DE NEMOURS & CO., INC.
901 W. DUPONT AVE.
BELLE, WV 25015

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

WALTER C. FOX

TELEPHONE NUMBER

(304) 357-1782

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 AND 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 \$110.00

13. C 8508120428 850729
F REG2 LIC30
47-01449-01 PDR

UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE

ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS
REGULATIONS, PARTS 30, 32, 33, 34, 35, 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.

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

W E Roberts

W. E. ROBERTS

AREA SUPERVISOR

5/22/85

14. VOLUNTARY ECONOMIC DATA

a. ANNUAL RECEIPTS	
<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

1400

c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☒ YES

☐ NO

FOR NRC USE ONLY

TYPE OF FEE

FEE LOG

FEE CATEGORY

COMMENTS

APPROVED BY

AMOUNT RECEIVED

CHECK NUMBER

DATE

\$110.40

311-25976

311-26315

15 deleted!

50615

W E Roberts

6/28/85

ATTACHMENT

Item 5 - RADIOACTIVE MATERIAL

Nickel 63 Hewlett Packard plated sources contained in H/P Model 18713A or 19303 detector cells not to exceed 15 millicuries per source.

Item 6 - PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED

Licensed material will be used in Hewlett Packard gas chromatographs for sample analysis.

Item 7 - INDIVIDUALS RESPONSIBLE FOR RADIATION SAFETY PROGRAM - TRAINING AND EXPERIENCE

A. Walter C. Fox - RPO

1. Ohmart Radiation Safety Course

Two day course conducted by Andrew J. Livingston at the Ohmart Corporation Plant in Cincinnati, Ohio, June 5 and 6, 1978.

2. Du Pont Safe Handling of Radioactive Materials Course No. 21

Five day course conducted by William A. N. Severance at the Du Pont Engineering Service Division in Newark, Delaware, June 11 through 15, 1979.

Both of these courses included training in NRC rules and regulations, biological effects of radiation, principles and practices of radiation protection, radioactivity measurement standardization, monitoring techniques, instruments and calibrations relative to radioactivity.

3. Experience with Radiation

<u>ISOTOPE</u>	<u>QUANTITY</u>	<u>LOCATION</u>	<u>DURATION</u>	<u>TYPE OF USE</u>
Ra 226	0.30 m Ci	Du Pont, Belle	16 Years	Gas Measurement
Ce 137	500 m Ci	" "	13 "	Density Measurement
Ce 137	1000 m Ci	" "	14 "	" "
Co 60	1 m Ci	" "	7 "	Radiography
Ir 192	100 m Ci	" "	7 "	"
Ni 63	30 m Ci	" "	6 "	GC Detector
Pu 238	30 m Ci	" "	6 "	Metal Analyzer
Cd 109	3 m Ci	" "	6 "	" "

Item 7 (Cont'd.)

B. Daniel L. Mensink - Alternate RPO

1. Radiation Measurement and Control Course

Four day course conducted by R. G. Gallagher at Applied Health Physics, Inc., Bethel Park, PA, May 14 through 18, 1979.

Course included training in principles and practices of radiation protection, biological effects of radiation, radioactivity measurement standardization, instruments, monitoring techniques, calculations relative to radioactivity and NRC rules and regulations.

2. Experience with Radiation

<u>ISOTOPE</u>	<u>QUANTITY</u>	<u>LOCATION</u>	<u>DURATION</u>	<u>TYPE OF USE</u>
Ra 226	0.30 m Ci	Du Pont, Belle	1 Year	Gas Measurement
Ce 137	1000 m Ci	" "	1 "	Density Measurement
Co 60	1 m Ci	" "	1 "	Radiography
Ir 192	100 m Ci	" "	1 "	"
Ni 63	30 m Ci	" "	1 "	GC Detector
Pu 238	30 m Ci	" "	1 "	Metal Analyzer
Cd 109	3 m Ci	" "	1 "	" "

Item 8 - TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

Not applicable. We have no restricted radioactive areas at this plant.

Item 9 - FACILITIES AND EQUIPMENT

The licensed equipment is located in a laboratory that is operated on a 24 hour/day basis and is used only by authorized persons.

Item 10 - RADIATION PROTECTION PROGRAM

- All activities involving nuclear byproduct materials at this plant are under the direct supervision of the plant Radiation Protection Officer (RPO). His efforts are directed at maintaining the plant environment in such a manner that employees can work on a full time basis without being exposed to hazardous amounts of nuclear radiation. He is guided by the regulations set forth in the Code of Federal Regulations (CFR), especially 10 CFR PARTS 1 to 171.

Item 10 (Cont'd.)

- Operating procedures are established and maintained to provide employee protection. Instruction is given those employees involved in working with or near nuclear sources.
- An inventory of all nuclear sources on the plant is made quarterly. Wipe tests are made as required and sent to an outside firm for analysis. Radiation survey meters are sent to another outside firm for service and calibration annually.
- Contractors using radioactive sources for work on the plant site are supervised by the RPO or his trained designate throughout their stay on the plant.
- A complete file of all activities involving the use, shipment and control of nuclear byproduct material at this plant is maintained in the office of the RPO.

- Leak test kits used:

Hewlett-Packard Wipe Test Kit No. 18713-60050
Kit analyzed by: Nuclear Radiation Developments,
Inc., 2957 Alt Blvd., Grand Island, NY 14022

- We have 3 survey meters capable of measuring less than one millirem/hour. These meters are serviced and calibrated on an annual basis by the Nuclear Instrument Co., Rockland, MA 02370. Records are kept for a minimum of 2 years.

Item 11 - WASTE MANAGEMENT

All licensed sources requiring disposal are returned to the original supplier per Paragraph 20.301(A) of 10CFR20.