

## MATERIALS LICENSE

Amendment No. 01

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

## Licensee

1. The DuPont Merck Pharmaceutical Company

2. 500 South Ridgeway Avenue  
Glenolden, Pennsylvania 19036In accordance with letter dated  
September 28, 1992,3. License number 37-28764-01 is amended in  
its entirety to read as follows:

4. Expiration date August 31, 1997

5. Docket or  
Reference No 030-32793/07-00455-366. Byproduct, source, and/or  
special nuclear material7. Chemical and/or physical  
form8. Maximum amount that licensee  
may possess at any one time  
under this license

A. Cesium 137

A. Sealed source  
(AECL Model C-161,  
Type 8)

A. 3,300 curies

B. Cesium 137

B. Sealed source  
(J.L. Shepherd & Assoc.,  
Inc., Model 6810)

B. 6,000 curies

## 9. Authorized use

A. For use in an AECL Gammacell 40 Irradiator for the irradiation of material except  
explosives and flammable materials.B. For use in a J.L. Shepherd & Associates, Inc., Mark I, Model 68A Irradiator for the  
irradiation of material except explosives and flammable materials.

## CONDITIONS

10. Licensed material may be used only at the licensee's facilities at Rooms 051 and  
A30A, 500 South Ridgeway Avenue, Glenolden, Pennsylvania.11. A. Licensed material shall be used by, or under the supervision and in the physical  
presence of individuals who have received the training described in application  
dated January 21, 1992 and have been approved in writing by the Radiation Safety  
Officer. The licensee shall maintain records of individuals designated as users  
for three years following the last use of licensed material by the individual.

B. The Radiation Safety Officer for this license is Michael C. Frederick.

12. Sealed sources or detector cells containing licensed material shall not be opened or  
sources removed from source holders or detector cells by the licensee.9301150314 921217  
PDR ADOCK 03032793  
C PDR

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

37-28764-01

Docket or Reference number

030-32793

Amendment No. 01

(Continued)

CONDITIONS

13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed 3 years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen 3; or
  - (ii) they contain only a gas; or
  - (iii) the half-life of the isotope is 30 days or less; or
  - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
  - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

37-28764-01

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030-32793

Amendment No. 01

(13. Continued)

CONDITIONS

- G. The licensee is authorized to collect leak test samples for analysis by Applied Health Physics, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. The licensee shall not perform repairs or alterations of the irradiator involving removal of shielding or access to the licensed material. Removal, replacement, and disposal of sealed sources in the irradiator shall be performed by a person specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee shall not acquire licensed material in a sealed source or in a device that contains a sealed source unless the source or device has been registered with the Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State.
16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated January 21, 1992  
B. Letter dated July 13, 1992  
C. Letter dated September 28, 1992

Date

DEC 17 1992

For the U.S. Nuclear Regulatory Commission

Original Signed By:

By

Steven R. Courtemanche

Nuclear Materials Safety Branch

Region I

King of Prussia, Pennsylvania 19406

DEC 17 1992

License No. 37-28764-01  
Docket No. 030-32793  
Control No. 117241

DuPont Merck Pharmaceutical Company  
ATTN: John C. Buzdinski  
Director  
500 S. Ridgeway Avenue  
Glenolden, Pennsylvania 19036

Dear Mr. Buzdinski:

Please find enclosed an amendment to your NRC Material License.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the Region I Material Licensing Section, (215) 337-5093, so that we can provide appropriate corrections and answers.

Please be advised that you must conduct your program involving licensed radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, please note the items in the enclosed, "Requirements for Materials Licensees."

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, the NRC expects licensees to pay meticulous attention to detail and to achieve the high standard of compliance which the NRC expects of its licensees.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program safely and in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in prompt and vigorous enforcement action against you. This could include issuance of a notice of violation, or in case of serious violations, an imposition of a civil penalty or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

Du Pont Merck Pharmaceutical Company

- 2 -

We wish you success in operating a safe and effective licensed program.

Sincerely,

Original Signed By:  
Steven R. Courtemanche

Steven R. Courtemanche  
Nuclear Materials Safety Branch  
Division of Radiation Safety  
and Safeguards

Enclosures:

1. Amendment No. 01
2. Requirements for Materials Licensees

DRSS:RI  
Courtemanche/gc

12/17/92

# CONVERSATION RECORD

TIME

1:20 PM

DATE

12/10/92

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

ROUTING

NAME/SYMBOL

INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU *Michael Frederick*

ORGANIZATION (Office, dept., bureau, etc.) *Defunct Merv (Presidential)*

TELEPHONE NO.

*(215) 237-7046*

SUBJECT

*Classification of move of irradiators*

*(CN 37-25764-01)*

SUMMARY

*Mr. Frederick, NSU stated that the irradiators were being moved by personnel from J. L. Highland. The floor has the same characteristics as and loading capabilities as the previous room.*

ACTION REQUIRED

*Issue amendment*

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

*Steven Contomache*

*Steven Contomache*

*12/10/92*

ACTION TAKEN

SIGNATURE

TITLE

DATE

50271-101

U.S. G.P.O. 1983-381-526/8346

CONVERSATION RECORD

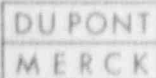
OPTIONAL FORM 271 (12-76)  
DEPARTMENT OF DEFENSE

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117241



070-32793



September 28, 1992

U.S. Nuclear Regulatory Commission  
Region 1  
475 Allendale road  
King of Prussia, PA 19406

RE: NRC License No. 37-28764-01  
Self-Contained Dry Source Irradiator  
Application for Amendment

Dear Mr. Costello:

Please be advised that we wish to relocate our J. L. Shepherd & Assoc., Inc., Model 6810 Sealed Source Irradiator from room A19 to room A30A within the same building. This move is to accommodate a research project by allowing animal room expansion.

J. L. Shepherd & Assoc., Inc. will be contracted to move the irradiator and all the associated hardware and alarms. Sprinklers will be provided in the new room. All other terms of the existing license will remain the same. An area survey will be completed after the move prior to the irradiator being released for general use.

Enclosed is a check for \$640.00 covering the cost of amending this license.

Yours truly,

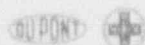
Log	9224
Remitter	
Check No.	802-6734
Amount	\$640.00 - Refund \$320
Fee Category	3
Type of Fee	23.0
Date Check Rec'd	10/2
Date Completed	10/2
By:	John C. Budzinski

*John C. Budzinski*  
John C. Budzinski  
Director, W.A.S.  
U.S. NRC  
FILE NRC  
OCT 12 P 8:21  
RECEIVED

117241

JCB/ds  
Enc.

A Partnership of Du Pont and Merck



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OCT 02 1992

NOV 13 1992

DIVISION OF ACCOUNTING AND FINANCE  
REQUEST FOR REFUND TO EMPLOYEE/VENDOR

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR  
REGULATORY COMMISSION FOR GOODS OR SERVICES PROVIDED AND IS DUE A  
REFUND.

EMPLOYEE/VENDOR/PAYEE CODE

NAME: Du Pont Merck Pharmaceutical Co.

ADDRESS: ATTN: Sharon A. Mercant

ADDRESS: 500 S. Ridgeway Avenue

CITY: Glenside STATE: PA ZIP: 19036

AMOUNT: \$372.00

COMMENTS: Lic. 39-23764-01 AMD

CK 802-07354

(LIMIT COMMENTS TO 40 CHARACTERS, INCLUDING SPACES)

FUND: \_\_\_\_\_ JOB CODE: \_\_\_\_\_ TRANS TYPE: \_\_\_\_\_

PREPARED BY: [Signature] DATE: 11/12/92

AUTHORIZED BY: [Signature] TITLE: Lic. Fact Analyst

OFFICE: OC/OAF/LFACB DATE: 11/13/92

PLEASE ATTACH EACH APPROPRIATE SUPPORTING DOCUMENTATION. Nov 4 I

117241

INVOICE NUMBER: \_\_\_\_\_ INVOICE PAID ON: \_\_\_\_\_ FOR: \$ \_\_\_\_\_

REFUND ENTERED INTO COLLECT BY: \_\_\_\_\_

AMOUNT: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_



100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000

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PROGRAM CODE: Q3510  
STATUS CODE: 0  
FEE CATEGORY: 3E  
EXP. DATE: 19970831  
FEE COMMENTS:  
DECOM FIN ASSUR REQD: N
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