



E. I. DU PONT DE NEMOURS & COMPANY  
INCORPORATED  
WILMINGTON 98, DELAWARE

PURCHASING DEPARTMENT

October 4, 1963

Mr. Donald A. Nussbaumer, Chief (4)  
Source and Special Nuclear Materials Branch  
Division of Licensing and Regulation  
United States Atomic Energy Commission  
Washington 25, D. C.

AEC LICENSE STB-489

Dear Sir:

Permission is hereby requested to amend AEC Source Material License STB-489 in the following respects:

1. Our inventory of thorium-containing product is now too large to permit storage in locked cabinets. We propose to store this product in a locked area, near the Dispersion Modified Metals Pilot Unit which was described in our letter to you of August 8, 1962 (H. J. Gorman, Jr. to D. A. Nussbaumer). This procedure fulfills the requirement for locked storage, but removes our previous self-imposed condition of storage in cabinets.
2. We request authorization to store intermediate and product materials in the following manner: Contain material in a double polyethylene bag. (The bags are made from tubing, heat-sealed at the bottom, and tied off at the top. Polyethylene thickness is 0.006".) The double bag is then placed in a Leverpac fibre drum.

We have already received permission to ship product in these drums, under B. E. Permit No. 1473, from the Bureau of Explosives and Freight Loading and Container Section, Association of American Railroads. (Copy of letter attached.)

Samples of ten pounds or less may be stored temporarily in double polyethylene bags.

ACKNOWLEDGED

October 4, 1963

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3. We wish to change the frequency of film badging from weekly to monthly. There has been no beta-gamma exposure above background level on any of our film badges to date.

4. There has been a change in floor plan of the first floor of the Dispersion Modified Metals Pilot Unit. This is detailed in supplement II to Appendix A, attached herewith. The original four hoods have been converted to three walk-in hoods. Dust samples are collected in each of the hoods, as well as in the open area, to assure that personnel are not over-exposed to air-born radioactivity.

.....  
Supplement II to Appendix A involves data of a confidential nature. We request that it be withheld from public inspection under the same conditions which now apply to Appendix A of our October 16, 1961 letter and its Supplement I, transmitted with our August 7, 1962 letter, as provided in Section 2.810 of the Commission's Rules of Practice (10CFR2).

5. The vent from the reduction furnaces is now being monitored by a Gelman filter mounted in the air one foot away from the discharge. Metered gas flow is induced by a Bell and Gossett air pump, as described under Item 3 of our letter to you of August 7, 1962. Our records show that the concentration of thorium natural at this point has exceeded  $0.1 \times 10^{-12}$  microcuries per ml. on only one occasion since January 1, 1963, and that the average concentration is below detectable limits. We conclude that no thoria dust is carried out of the reduction furnaces. Permission is therefore requested to stop the air sampling at this location.

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For your information, and not as part of the conditions of our license, the name and qualifications of the Radiation Protection Officer at our Newport site are as follows:

Name: Dr. Dale M. Hiller  
Training: Ph.D., Physical Chemistry, Iowa State  
College, Ames, Iowa  
Thesis "Radiochemical Studies of the  
Photofission of Thorium"  
Employed as research assistant during  
graduate training by Ames Laboratory,  
A.E.C., 1948-1952, doing research in  
radiochemistry.

If any additional information or clarification is required for approval of this request for amendment, please advise as soon as possible.

Very truly yours,



C. R. Whitcombe  
Asst. Purchasing Agent  
Chemicals & Containers Div.

CRW/dat

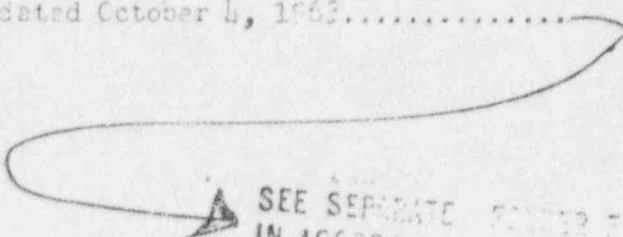
Attachments

BUCKET NO. 10-6661

DATE: October 7, 1963

NOTICE TO THE FILE

For Supplement II to Appendix A and Doc. WFO-3183 as transmitted  
with letter dated October 4, 1963.....



SEE SEPARATE FORMER FOR MATERIAL WITHHELD  
IN ACCORDANCE WITH SECTION 2.810 OF PART 2



FORM

**E. I. DuPont de Nemours & Co.**  
**Wilmington, Delaware**

DATE OF DOCUMENT:

**10-4-63**

DATE RECEIVED

**10-7-63**

NO.

**6705**

LTR.

MEMO.

REPORT.

OTHER:

**x & encls.**

ORIG.

CC:

OTHER:

**x**

**3**

ACTION NECESSARY ☐

CONCURRENCE ☐

DATE ANSWERED:

NO ACTION NECESSARY ☐

COMMENT ☐

BY:

FILE CODE:

**60-6664**

CLASSIF:

**U**

POST OFFICE

REG. NO.

DESCRIPTION: (Must Be Unclassified)

Ltr. req. amendment to lic. ST-489 and  
 req. w/holding of supplement to  
 Appendix A.....Attached:

ENCLOSURES:

(1 cys. rec'd)

**II**

Supplement to Appendix A (w/hold under 2.810

Reg. HRC-3183 of "Revised Exide res"  
 (w/hold under 2.810)

Ltr. fr Bureau of explosives to DuPont  
~~requesting approval of shipping~~

Mail Room Distribution:

1-PD Cy. w/2.810 ~~sections removed~~  
 sections removed

REFERRED TO

DATE

RECEIVED BY

DATE

**Mail room 10-8**

**w file cy. & folders (comp any conf. folder else)  
 1-compliance & extra cy.**

**ACKNOWLEDGED**

*9/16*