



**E. I. DU PONT DE NEMOURS & COMPANY**  
WILMINGTON, DELAWARE 19888

LEGAL DEPARTMENT

EPA-ETS

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OFFICE OF DOCUMENTATION  
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January 15, 1988

Mr. David Williams  
U. S. Environmental Protection Agency  
401 M Street, S.W.  
Washington, D.C. 20460

8EHQ-0188-0598 Supplement  
88-8600000 79  
89-8800000 79

Dear David:

This is written to confirm our phone conversation responding to your request that we review the data in the May Plant cohort study to determine whether there had been any incidences of testicular cancer.

As we discussed, one case of testicular cancer was observed as compared with 1.7 expected for the cohort, based on Du Pont Company rates. There were no cases of testicular cancer deaths among the exposed employees.

We have reviewed our records and find that the employee was exposed for 9 months at what we have classified as the "high" exposure level and for 23 months at what we have classified as the medium exposure level. The initial exposure occurred in 1965 and the testicular cancer was diagnosed in 1972. I am attaching a table summarizing our observations and a table outlining the classification system that we used in the conduct of the study.

Sincerely,

Gerald A. Hapka  
(302) 774-9466

dmf129  
gah/22  
Atts.

**TABLE 1**

**Observed and Expected Numbers  
of Testicular Cancer Cases at May Plant**

	<b>No. of Employees</b>	<b>Observed Numbers</b>	<b>Expected Numbers</b>
DMF-only Cohort	2,530	1	1.1
DMF/ACN Cohort	1,329	0	0.6
<hr/>	<hr/>	<hr/>	<hr/>
All DMF Cohort	3,859	1	1.7

## **TABLE 1**

### **Guidelines for Classifying Exposure Potential**

Exposure potential was determined by judgment of knowledgeable people, using the guidelines shown below:

#### **Level of Exposure**

##### **• Low Level:**

- No direct contact with liquids containing any DMF even with protective equipment.
- Workplace consistently below 10 ppm DMF in air (no odor of DMF evident).

##### **• Medium Level:**

- Intermittent contact with liquids containing  $\geq 5\%$  DMF.
- Workplace sometimes about 10 ppm DMF (more than once/week).
- DMF laden materials handled but fumes contained to levels listed above.

##### **• High Level:**

- Frequent contact with liquids containing  $\geq 5\%$  DMF.
- Workplace often  $\geq 10$  ppm DMF in air.
- Use of breathing protection often required for 1/4 to 1 hour duration.
- DMF vapor frequently  $\geq 10$  ppm when handling pure DMF or DMF containing materials.

**CERTIFICATE OF AUTHENTICITY**

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