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MOUND DECLASSIFICATION REVIEW	
1ST REVIEW-DATE: <u>9/8/98</u>	DETERMINATION (CIRCLE NUMBER):
AUTHORITY: <input type="checkbox"/> ACC <input checked="" type="checkbox"/> ADC <input type="checkbox"/> ADD	1. CLASSIFICATION RETAINED
NAME: <u>Don Homan</u>	2. CLASSIFICATION CHANGED TO:
2ND REVIEW-DATE: <u>9/10/98</u>	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: <u>ADD</u>	4. COORDINATE WITH:
NAME: <u>Bob Patay</u>	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER SPECIFY:

MOUND LABORATORY-MONSANTO
Central File No. 63-3-225

March 22, 1963

Released through the
MOUND LSDR PROJECT
(funded through DOE's OPENNESS INITIATIVE)
Record Copy held at Mound Facility

Mr. J. D. Ellett
E. I. Du Pont De Nemours and Company, Inc.
Savannah River Plant
Aiken, South Carolina

Attention R. L. Piech, Laboratories Section

Dear Mr. Ellett:

A series of analyses were run between February 20, 1963, and February 25, 1963, on the contents of product container number 304 (SDA SBX-74). Four separate samples were withdrawn from the container and analyzed on a CEC 21-620A mass spectrometer.

The mean values and probable errors of the components back calculated to August 1, 1962, are given in Table I. The data gathered by the Savannah River Plant are also listed.

In the presentation of the Mound data, two points should be mentioned.

1. The value of helium-3 given by SRP was accepted as exact at the time of their analysis.
2. The equilibrium constant (K_{DT}) used for all data reduction on this sample was set to 3.82.

As planned, additional samples will be withdrawn from this tank to meet the periodic analytical requirements.

RESTRICTED DATA

This document contains restricted data as defined in the Atomic Energy Act of 1954. Its transmittal or the disclosure of its contents in any manner to an unauthorized person is prohibited.

Very truly yours,
Original Signed By
Lerroy V. Jones

GROUP 1
Excluded from automatic
downgrading and
declassification

Lerroy V. Jones, Director
Technical Department

LVJ:clt
Attachment-Table
Distribution:

- Copy 1A - J. D. Ellett, SRP
- Copy 2A - R. L. Piech, SRP
- Copy 3A - L. V. Jones

- Copy 4A - T. B. Rhinehammer
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TABLE I

<u>Component Mol %</u>	<u>Mound</u>	<u>SRP</u>
H ₂	0.	0.01
He ³	0.29	0.29
HD	0.55	0.56
HT	0.31	0.31
D ₂	37.35 ± .04*	37.42 ± .13
DT	46.46 ± .03	46.42 ± .15
T ₂	15.05 ± .02	14.99 ± .07

*Probable Errors

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