AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

DECLASSIFIED

(CLASSIFICATION)

DOCUMENT NO.

HW-78836

SERIES AND COPY NO.

DATE

9-4-63

GENERAL ELECTRIC

HANFORD ATOMIC PRODUCTS OPERATION - RICHLAND, WASHINGTON

TITLE

TIMS Data Processing Format Definition

AUTHOR

D. A. Wallace

ISSUING FILE

☐ OTHER OFFICIAL CLASSIFIED INFORMATION

THIS MATERIAL CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U. S. C., SECS. 793 AND 794, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

~~THIS DOCUMENT IS NOT UNCLASSIFIED OR WHOLLY UNCLASSIFIED. IT MAY HAVE ACCESS TO IT WHEN IN THE HANDS OF AN UNAUTHORIZED PERSON. IT IS YOUR RESPONSIBILITY TO REPORT ANY UNAUTHORIZED ACCESS TO THE CLASSIFIED FILES. IT IS YOUR RESPONSIBILITY TO KEEP THE CONTENTS OF THIS DOCUMENT FROM ANY UNAUTHORIZED PERSON. TRANSMISSION AND DISSEMINATION OF THIS DOCUMENT IS PROHIBITED. IT IS NOT TO BE REPRODUCED, COPIED, OR REQUESTED IN THE SPACES PROVIDED BELOW.~~

ROUTE TO:

PAYROLL NO.

LOCATION

FILES ROUTE DATE

SIGNATURE AND DATE

300 File

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

(CLASSIFICATION)

DECLASSIFIED

This document Classified

by: E. W. Christopherson

DECLASSIFIED

EW-78836

Distribution

- #1 W. R. Hamilton
- 2 H. A. Treibs
- 3 D. A. Wallace
- 4 300 Files
- 5 Record Copy -
300 Files

September 4, 1963

This document consists of
pages [REDACTED]

TDS Data Processing Format Definition

The following defined codes are for use with the data processing program developed for calculating isotopic analyses from raw data output of a thermal ionization mass spectrometer (TDS). The use of this coding system will permit the input data and output format to be handled as unclassified information.

The following codes are used to enter information on the keypunch format (standard 80-80 sheet type 54-3100-051).

Column 16: T = Type of material being analyzed.

- 1 = Plutonium
- 2 = Uranium
- 3 = Strontium
- 4 = Lithium

Column 17: C = Security classification of results.

- 0 = Unclassified
- 1 = Classified

Column 30: Scan input

- 1 = Forward scan
- 2 = Reverse scan
- 3 = Averaged scan

Columns 36: Data scale attenuation factor

- 42
 - 48
 - 54
 - 60
 - 66
 - 72
- 1 = x 10
 - 2 = x 30
 - 3 = x 100
 - 4 = x 300
 - 5 = x 1000

Classification Cancelled and Changed To

DECLASSIFIED

By Authority of DS LEWIS

CG-PR-2, 3-31-94

By DK Hanson, 4-15-94

Verified By Jerri Maley,
4-18-94.

DECLASSIFIED

DECLASSIFIED

-2-

EW-78836

Column 74: Format of data output.

- 0 = Report only
- 1 = Report and IBM card
- 2 = IBM card

Column 76: Correction factor required.

- 1 = No correction (M^+ spectrum scanned)
- 2 = Single oxide (MO^+ spectrum scanned)
- 3 = Double oxide (MO_2^+ spectrum scanned)
- 4 = Correction for natural Kb in Strontium scan.

Column headings for A, B, C, D, E, F, and G are identified as follows:

	A	B	C	D	E	F	G
If T = 1	Pu ²³⁸	Pu ²³⁹	Pu ²⁴⁰	Pu ²⁴¹	Pu ²⁴²	-	-
= 2	U ²³³	U ²³⁴	U ²³⁵	U ²³⁶	-	U ²³⁸	-
= 3	Sr ⁸⁴	Sr ⁸⁵	Sr ⁸⁶	Sr ⁸⁷	Sr ⁸⁸	Sr ⁸⁹	Sr ⁹⁰
= 4	Li ⁶	Li ⁷	-	-	-	-	-

The following codes are used on the report definition format and all output from the program.

Column 4-5: T = Type of material being analyzed
Same as indicated for input format.

Column 4-6: C = Security classification of results
Same as indicated for input format.

Column 1-5: A = Averaged results in atom % (outliers excluded)
: W = Averaged result in weight % (outliers excluded)
: S.D. = Standard deviation of averaged result
: 95CL = 95% confidence limits.

Column 9-5: Asterisk indicates excluded outlier.

The same definition format for A through G column headings is the same as shown for input format.

D.A. Wallace:dw

DECLASSIFIED

**DATE
FILMED**

7 / 01 / 94

END