

PRIVACY ACT MATERIAL REMOVED

~~CONFIDENTIAL~~  
SECURITY INFORMATION FORM (S)

411773

R

Date: 4 June

Aircraft No.: 1042

Flight TW-1

Names

This material contains information relating to the national defense of the United States within the meaning of the espionage laws Title 18, U.S.C. Sections 793 and 794, the disclosure of which in any manner to an unauthorized person is prohibited by law.

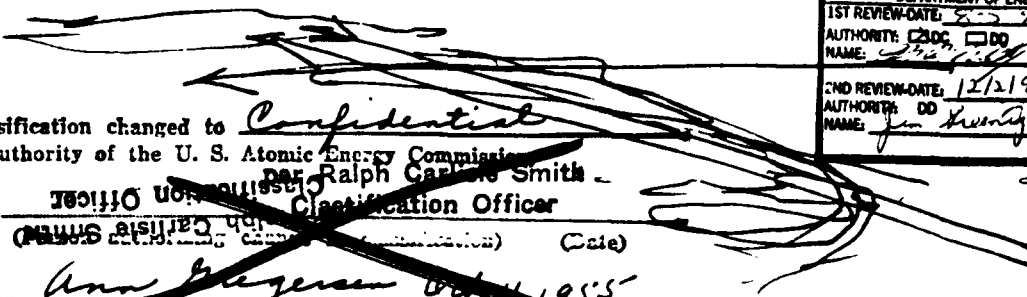
1. INSTRUMENT FUNCTION:

- a. Integron OK
- b. Jasper OK
- c. Ion Chamber FLICKERED
- d. Snap Sampler OK
- e. Tip Tank Valves OK

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

MADE ONE PASS THROUGH CLOUD - REMAINED IN CLOUD  
ON SECOND PASS UNTIL 1.5 INTEGRON REACHED

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:



DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW DATE: 8/2/77	DETERMINATION (CIRCLE NUMBER)
AUTHORITY: <input checked="" type="checkbox"/> DOE, <input type="checkbox"/> DD	1. CLASSIFICATION RETAINED
NAME: <i>[Signature]</i>	2. CLASSIFICATION CHANGED TO:
END REVIEW DATE: 12/2/99	3. CONTAINS NO DOE CLASSIFIED INFO
AUTHORITY: DD	4. COORDINATE WITH: <i>[Signature]</i>
NAME: <i>[Signature]</i>	5. CLASSIFICATION CANCELED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY): 10 pages

Classification changed to Confidential  
by authority of the U. S. Atomic Energy Commission  
Per Ralph Carlisle Smith Classification Officer

By Ann Ferguson, Oct 4, 1955  
(Signature of person making the change, and date)

4. SUGGESTIONS:

~~RESTRICTED DATA~~  
~~ATOMIC ENERGY ACT - 1946~~

~~CONFIDENTIAL~~

~~SECURITY INFORMATION~~

TG 1696 KAFB

PRIVACY ACT MATERIAL REMOVED

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**SECURITY INFORMATION**  
INTERROGATION FORM

AEC

Date: \_\_\_\_\_  
Aircraft No.: \_\_\_\_\_

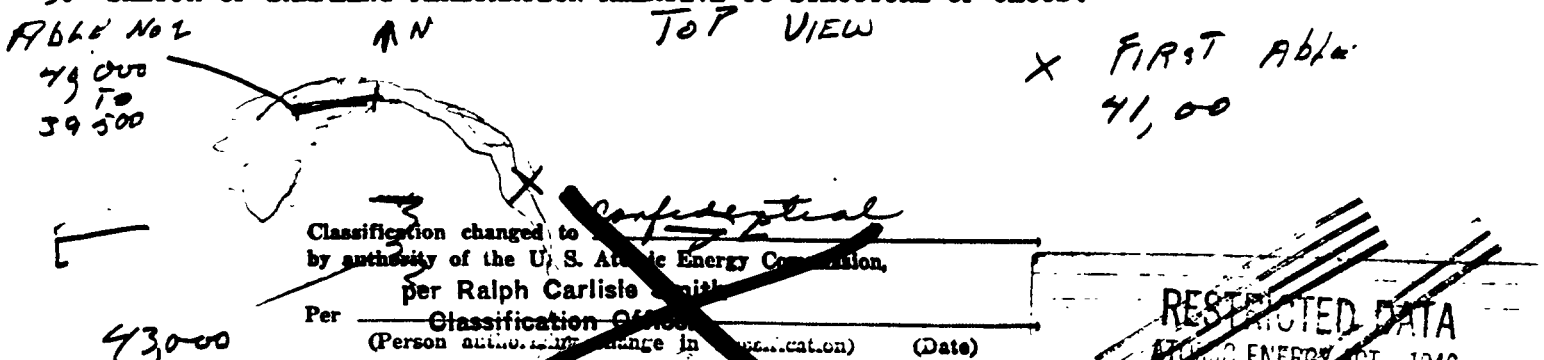
Flight TW 2  
Names \_\_\_\_\_

~~This material contains information affecting the national defense of the United States within the meaning of the espionage laws Title 18, U.S.C. Sec. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.~~

1. INSTRUMENT FUNCTION:
- a. Integron OK
  - b. Jasper OK
  - c. Ion Chamber OK
  - d. Snap Sampler NO LIGHT
  - e. Tip Tank Valves OK

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:  
PER AT 40,000 MAIN PORTION

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:



4. SUGGESTIONS: By [Signature] 2/11/1955  
Signature of person making the change, (and date)

~~RESTRICTED DATA~~  
~~ATOMIC ENERGY ACT - 1946~~

OK

TC: T696 KAEB

~~CONFIDENTIAL~~

**SECRET**

~~SECURITY INFORMATION~~

~~CONFIDENTIAL~~

INSTRUMENTATION FORM

Date: 4 June 53

AEC

Aircraft No. 028

Flight Tiger Red 1

Names \_\_\_\_\_

~~CONFIDENTIAL~~

Classification changed ~~Confidential~~  
by authority of the U. S. Atomic Energy Commission,  
per Ralph Carlisle Smith  
Classification Officer  
(Person authorized to change in classification) (D)  
By Ann Ferguson Oct 11, 1955  
(Signature of person making the change, and date)

1. INSTRUMENT FUNCTION:

- A. Integren Okay
- B. Jasper Okay
- C. Ion Chamber Okay
- D. Snap Sampler Not used
- E. Tip Tank Valves Okay

This material contains information affecting the national defense within the meaning of the Espionage Laws, Title 18, U.S.C., Sec. 793 and 794, and the transmission or revelation of its contents in any manner to an unauthorized person is prohibited by law.

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

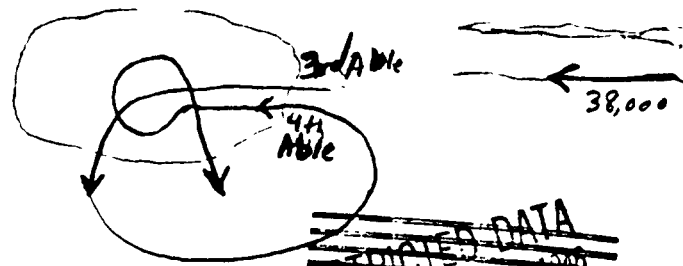
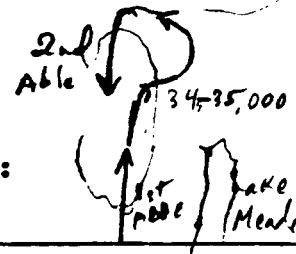
Made first two passes on a northerly then southerly heading through a thin finger layer of Rosie extending south out of main cloud. Made third pass through bottom of upper layer of main Rosie and circled in this portion of the cloud for the fourth pass

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:

Plan View

Plan View

Side View



4. SUGGESTIONS:

~~RESTRICTED DATA~~  
~~ATOMIC ENERGY ACT 1954~~

TGA #696 KAFB

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~~SECURITY INFORMATION~~  
INTERROGATION FORM  
AEC

Date: 4 June 53  
Aircraft No.: 037

This material contains information affecting the national defense of the United States within the meaning of the espionage laws Title 18, U.S.C., Sec. 793, the Espionage Laws, Title 18, U.S.C., Sec. 794, the Espionage Laws, Title 18, U.S.C., Sec. 795, in any manner which unauthorized person is prohibited by law.

Flight \_\_\_\_\_  
Names \_\_\_\_\_

1. INSTRUMENT FUNCTION:
  - a. Integron OK
  - b. Jasper 0 settings (100) dropped to 50 early Mission
  - c. Ion Chamber 9 read 17 & then 1.7 9
  - d. Snap Sampler OK
  - e. Tip Tank Valves SWITCH BLINKED IN OPEN POSITION

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:

*main body 3905*

Classification changed to Confidential  
by authority of the U.S. Atomic Energy Commission,  
per Ralph Carlisle Smith  
Classified Officer (Date) \_\_\_\_\_  
(Person authorizing change in classification)  
By Alan Hargrove, Oct 11, 1955  
(Signature of person making the change, and date)

4. SUGGESTIONS:

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~~SECURITY INFORMATION~~

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

TR-2

~~SECURITY INFORMATION~~  
INTERROGATION FORM

Date: 3 June 53

AEC Aircraft No: 1032

Flight \_\_\_\_\_

Names \_\_\_\_\_

Classification changed to Confidential  
by authority of the U.S. Atomic Energy Commission,  
per Ralph Carlisle Smith  
Per \_\_\_\_\_  
Classification Officer  
(Person authorizing change in classification)  
By Ann Ferguson Oct 11 1955  
(Signature of person making the change, and d.)

1. INSTRUMENT FUNCTION:

- A. Integren OK
- B. Jasper OK
- C. Ion Chamber OK
- D. Snap Sampler NOT USED
- E. Tip Tank Valves OK

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

SAMPLED AT 39,500' IN LOWER  
PART of UPPER ROSIE. MADE 360°  
TURNS INSIDE of ROSIE

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:

JUST SPREAD ALL OVER SKY,  
T 43 BOTTOM ALT 37'

This material contains information affecting the national defense of the United States within the meaning of the espionage laws Title 18, U. S. C., and, therefore, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

4. SUGGESTIONS:

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TGA 1696 KAFB

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~~SECURITY INFORMATION~~  
~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

SECURITY INFORMATION  
INTERROGATION FORM

PRIVACY ACT MATERIAL REMOVED

Date: 4 JUNE 53

AEC

Aircraft No. 1046

Flight TB-4

Names \_\_\_\_\_  
\_\_\_\_\_

~~Classification changed to Confidential  
by authority of the U.S. Atomic Energy Commission,  
per Ralph Carlisle Smith  
Per \_\_\_\_\_ Classification Officer  
(Person authorizing change in classification) (D)  
By Ann G. Jensen Oct 19 1955  
(Signature of person making the change and date)~~

1. INSTRUMENT FUNCTION:

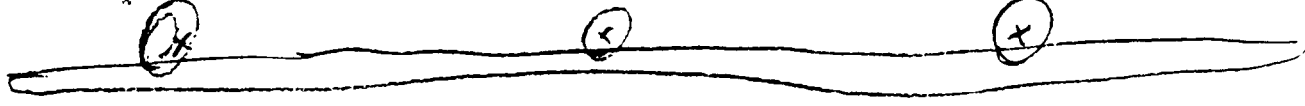
- A. Integron OK
- B. Jasper OK
- C. Ion Chamber OK
- D. Snap Sampler ✓
- E. Tip Tank Valves OK

~~This material contains information affecting  
the national defense of the United States  
within the meaning of the Espionage Laws,  
Title 18, U.S.C., Sections 793 and 794,  
and the transmission or revelation of its  
contents in any manner to an unauthorized person is pro-~~

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

SERIES OF 360° TURNS (TOOLING)

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:



4. SUGGESTIONS:

None LETS GO HOME!

~~CONFIDENTIAL~~

~~SECURITY INFORMATION~~

TGA T696 KAFB

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

SECURITY INFORMATION

INTERROGATION FORM

PRIVACY ACT MATERIAL REMOVED

Date: 4 June 57

Aircraft No. 57-1045

Flight TW 3

Name \_\_\_\_\_

Classification changed to Confidential  
by authority of the U.S. Atomic Energy Commission,  
per Ralph C. Smith  
Per Classification Officer  
(Person authorizing change in classification)

By Ralph C. Smith Oct 11, 1955  
(Signature of person making the change, and d)

1. INSTRUMENT FUNCTION:

A. Integron OK

B. Jasper OK

C. Ion Chamber OK

D. Snap Sampler Not used

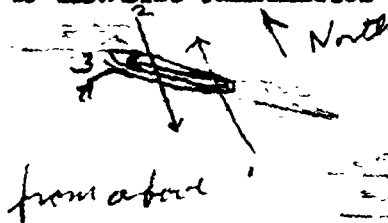
E. Tip Tank Valves OK

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2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

all passes were at 3819 feet 2 were short passes then one long pass of approx 15 minutes, sampling was in north west portion of cloud

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:



North portion from south side

4. SUGGESTIONS:

~~RESTRICTED DATA~~  
ATOMIC ENERGY ACT 1946

SECURITY INFORMATION

TGA 1696 KAFB

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~~CONFIDENTIAL~~

INTERNAL SECURITY INFORMATION

SECRET
DATE: <u>4 JUN 60</u>
AIRCRAFT No. <u>049</u>

AEC

Flight TR-4

Names \_\_\_\_\_

Classification changed to Confidential  
by authority of the U. S. Atomic Energy Commission,

per Ralph Carlisle Smith  
Per \_\_\_\_\_  
(Person authorizing classification) (Classification) C

By Anna Bryson Oct 11, 1955  
(Signature of person making the change, and date)

1. INSTRUMENT FUNCTION:

- A. Integren ✓
- B. Jasper ✓
- C. Ion Chamber ✓
- D. Snap Sampler ✓
- E. Tip Tank Valves ✓

This material contains information affecting the national defense of the United States within the meaning of the espionage laws of the U. S. C. Title 18, Sec. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

Initial penetration from south to north  
at 39000 ft

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:



4. SUGGESTIONS:

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ATOMIC ENERGY ACT 1954

~~SECRET~~ SECURITY INFORMATION

TGA 1696 KAFB

~~CONFIDENTIAL~~



Date: 3/19/55

PRIVACY ACT MATERIAL REMOVED

AEC

Aircraft No. 055

Flight B-3

Classification changed to Confidential  
by authority of the U.S. Atomic Energy Commission,  
per Ralph Carlisle

Name A/C 055

Per Ann Ferguson (Person authorized to change classification) (Date: Oct 11, 1955)  
(Signature of person making the change, and date)

1. INSTRUMENT FUNCTION:

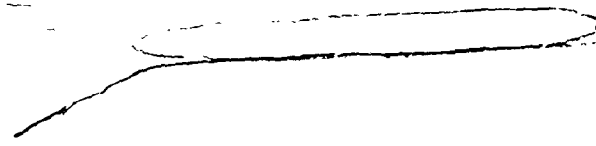
- A. Integron ok
- B. Jasper "
- C. Ion Chamber "
- D. Snap Sampler "
- E. Tip Tank Valves "

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2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

Down from 5000 to 7000 ft. Not successful at a  
sample 39,000 ft. cloud base 7000 ft. &  
broken up

3. SKETCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:



4. SUGGESTIONS:

**RESTRICTED DATA**  
ATOMIC ENERGY ACT - 1954

TGA 1696 KAFB

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SECURITY INFORMATION

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PRIVACY ACT MATERIAL REMOVED

INTERROGATION FORM  
Date: 4 June 53  
Aircraft No. 054

Flight T 13 2  
Names \_\_\_\_\_  
\_\_\_\_\_

~~This information is confidential and its disclosure to any person is prohibited by law.~~

1. INSTRUMENT FUNCTION:

- A. Integron ✓
- B. Jasper ✓
- C. Ion Chamber ✓
- D. Snap Sampler \_\_\_\_\_
- E. Tip Tank Valves ✓

2. NARRATIVE ON HOW SAMPLING MISSION PERFORMED:

Flew in cloud - 360° till  
.8

3. SEARCH OF SAMPLING PENETRATION RELATIVE TO STRUCTURE OF CLOUD:

Classification changed to Confidential  
by authority of the U. S. Atomic Energy Commission.

Per per Ralph Carlisle Smith  
(Person making change) (Date)

By [Signature] Oct 11, 1955  
(Signature of person making the change, and date)

42,000  
20,500

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~~ATOMIC ENERGY ACT - 1946~~

4. SUGGESTIONS: W

~~CONFIDENTIAL~~