

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. Friedman, AFSA-00T

DATE: 24 April 1951

FROM : Mr. Rowlett, AFSA-02T

SUBJECT: Schedule for SCAG Presentation

Reference: Memorandum from AFSA-02T to AFSA00T dated 11 April 1951

Herewith is the detailed SCAG presentation which I promised you in an earlier memorandum.

Frank B. Rowlett
FRANK B. ROWLETT
Technical Director
Office of Operations

EO 3.3(h)(2)
PL 86-36/50 USC 3605

First Day.

P.M. Second Period.

1. History of Comint Problem. (30 Minutes)

a. Nature of

b. Developments since 1945.

- (1)
- (2)
- (3)

(4) Coleridge

c. Increasing security trends.

2. Introduction to Albatross. (1 Hour)

a. Traffic.

(1) Appearance (Samples).

(2) External characteristics.

(3) Indicators.

(4) Historical development.

(5) Volumes.

(6) Inaccuracies (Garbles).

(7) Stutters.

b. Statistics of traffic.

(1) Frequency counts of cipher.

(2) Frequency counts of plain text.

(3) Frequency counts of indicators.

~~TOP SECRET ACORN~~EO 3.3(h)(2)
PL 86-36/50 USC 3605c. Types of Messages.

- (1) Depths.
- (2) Plain text.
- (3) Mono-alphabets.
- (4) Partial mono-alphabets.
- (5) Complete Isomorphism.
- (6) Changing Isomorphism.
- (7)

Second Day.

A.M. - AHS

1. Relation of messages to our concepts (1 Hour)
of the machine.
2. Recovered Elements. (1 Hour)
 - a. Their significance.
 - b. Non-random features.
 - c. Motion of wheels.
3. TOUR (AFSA-22) (1 Hour)
4. Attempts to exploit recovered elements. (1 Hour)
 - a. Statistical methods used to recover additional elements.
 - b. Plain text offset assumption.
 - c.

~~TOP SECRET ACORN~~

P.M. - AHS.

5. Attempts to solve other messages (1½ Hours)
- a. Methods.
- b. 62442
- c. "The Message"
6. Statistical tests to discover other machine (45 Minutes)
characteristics.
- a. Long message study.
- b. Round Robin I.C.
- c. Round Robin Iso search.
7. Machine Methods (45 Minutes)
8. Tour (1 Hour)
- a. Abner
- b. Robin
- (Others to be determined.)

Third Day.

A.M. - AHS.

1. Critique.
- a. Questions involving mathematical (1 Hour)
properties of wired wheels.
- b. Use of matrices in solving wheel wirings. (1 Hour)
- c. General discussion. (2 Hours)