

NO. SEC. CLASS. ORIGIN **E**
 Declassified in Part - Sanitized Copy Approved for Release **50X1**

2014/04/30 : CIA-RDP78-03330A000800120022-2 CLASSIFICATION
13 Dec 56 | **20 Dec** | **21 Dec**

SUBJECT
AS-3 Agent Communications System
(Project 2108)
(AS-3) **Action**

| ROUTING | DATE SENT |
|---------------|-----------|
| OC-E | |
| OC-OMT | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

SUSPENSE DATE
8 January 1957
14 OADR

USE ONLY

SECRET

ROUTING AND RECORD SHEET 20 DEC 1956

*FILED
(AS-3)*

| | | |
|----------------------------------------------------|------|------|
| OFFICE OF COMMUNICATIONS ROOM 2620 BUILDING EYE | NO. | 50X1 |
| | DATE | |

| TO: (Officer designation, room number, and building) | DATE | | OFFICER'S INITIALS | COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.) |
|------------------------------------------------------|-----------|-------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | REC'D | FWD'D | | |
| 1. <i>OC-E</i> | <i>14</i> | | | <p>ACTION</p> <p>RE # 5: Would like to see EUCA 56-713.</p> <p><i>MA</i> ACTION. See me - <i>MA</i></p> <p><i>Sup - OC-EXT</i></p> <p><i>BRB</i></p> <p>COPY DETACHED FOR RECORDS CONTROL</p> |
| 2. | | | | |
| 3. | | | | |
| 4. <i>R+D/EP</i> | | | <i>MA</i> | |
| 5. <i>CEM</i> | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |

VIA: _____
(SPECIFY AIR OR SEA POUCH)

CONFIDENTIAL

DISPATCH NO. _____ 50X1

~~SECRET~~
CLASSIFICATION

TO : Chief, KUCLUB

DATE: 13 December 1956

FROM : Chief, _____

50X1

SUBJECT: GENERAL— Engineering/Operational
SPECIFIC— AS-3 Agent Communication System (Project 2108)

REFERENCE: ENG 56-1609

ACTION REQUESTED: Review of _____ File

50X1

1. The reference and its related project describing development work on the AS-3 agent communication system was received with great interest. Since, from the _____ point of view, this project and related ones represent the solution of our highest priority clandestine communications requirement; it is believed that this system is one which, when successfully developed and produced, will meet a majority of our requirements in this field. Our interpretation of the plan for the construction of the AS-3 coder leads to the conclusion that the coder will operate on the principle of a permanent magnetic static recording head whereby various combinations of permanent magnetic poles will be brought in contact with a pre-biased magnetic tape.

50X1

2. If the above interpretation is correct, it is believed that Headquarters will find it profitable to go back into the archives of the Engineering Division for review of a number of the problems encountered in earlier attempts to build such a coder for Six-unit Coding purposes for use in connection with Radiotype IBM systems.

3. To the best of our memory, a similar coder was tried under a contract with the _____ President, in a subcontract arrangement with the _____ During that contract a German engineer, who earlier participated in the development of the Magnetophon recorder, devoted a sizeable amount of contract time to moderately successful application of the static head coding mechanism. Again, depending on memory, this file may show that the pulse shapers, amplifiers, etc., that were required to reproduce from magnetic tape, a signal useful for keying purposes resulted in prohibitively large electronic units, considering the clandestine nature of our requirement.

50X1
50X1
50X1

CONFIDENTIAL 4. It/is/recognized

~~SECRET~~
CLASSIFICATION

| | | |
|---------------------|-------------------------|--------------------|
| FOG <u>30</u> | REV DATE <u>19/3/80</u> | BY <u>37169</u> |
| ORIG COMP <u>33</u> | OPI <u>56</u> | TYPE <u>10</u> |
| ORIG CLASS <u>5</u> | PAGES <u>3</u> | REV CLASS <u>C</u> |
| JUST <u>22</u> | NEXT REV <u>2010</u> | AUTH: <u>HI</u> |

OFFICIAL RECORD COPY

[redacted] 56-1674

50X1

Page 2

13 December 1956

4. It is recognized that the art¹s changed considerably since 1948 and that techniques and methods for handling this coding and read out method may now be possible. However, in order to point to the possibility of failure for the entire system due to this element, and because of the acute need for such a system, it is suggested that these previous attempts be reviewed in order to forestall the possibility of coming to the same conclusion once more and further delaying the solution of this requirement.

5. While on the general subject of agent automatic communications systems, [redacted] will appreciate receiving Headquarters comments concerning the use of the system described in [redacted], dated 7 June 1956. We could make good use of such an agent communications keyer suitable for use with existing agent sets. This would satisfy immediate requirements for such systems prior to supply of the AS-3, sometime after the middle of 1958. It is [redacted] belief that such a keyer would provide an excellent flexible subassembly useful in an interim automatic system and that production of the RS-13/B could well be held to a minimum if such keyer can be produced.

50X1
50X1

50X1

50X1



JHS:hfp

Distribution:

- 3 - KUCLUB
- 1 - [redacted] Commo Off
- 1 - [redacted] Commo Off
- 1 - [redacted] Commo Off
- 2 - File

50X1

~~SECRET~~

CONFIDENTIAL