

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

FROM: OC-E/R+D/EP

NO.
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.) |
|--|----------|-----------|--------------------|---|
| | RECEIVED | FORWARDED | | |

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| 1. | R+D | 11 MAY 1959 | 5/11 5-11 | [Signature] | Information |
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| 5. | OC-E | | 5-12 | [Signature] | Information |
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| 9. | EP | | 5-26 | [Signature] | Filing - Ideas sound good. Suggest discuss with OC-T. |
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| 11. | R+D | 26 MAY 1959 | 6/8 | [Signature] | rejected all proposals 25 May 59. (See comments) |
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| 13. | OC-E | | 6-9 | [Signature] | |
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| 15. | R+D/EP | | | | |
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CONFIDENTIAL - File

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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files, RD-122, T.O.-1

DATE: 8 May 1959

FROM :

50X1

SUBJECT: Suggested AS-3 Accessories

| | | | | | |
|------------|----|----------|-------------|-----------|---------|
| DOC | 05 | REV DATE | 12 MAR 1960 | BY | 018373 |
| ORIG COMP | 33 | GPI | 56 | TYPE | 02 |
| ORIG CLASS | 5 | PAGES | 3 | REV CLASS | C |
| JUST | 22 | NEXT REV | 2010 | AUTH: | HR 13-2 |

1. In the event that a production contract for a large quantity of AS-3 sets is awarded in the near future, it is suggested that parallel developments for some or all of the following items be initiated. It is anticipated that requirements for such accessory equipment will be levied upon us when AS-3 units become operational.

CY feels recognition system operating from first few characters of message would be superior so code could be changed regularly to prevent enemy spoofing of our recognition system. But wants to wait until F461 (sic) before starting same.

2. Automatic Recognition - a base station accessory which would automatically recognize AS-3 IDY signals and turn on a high speed recorder could be built into one drawer, and operate from the IF outputs of five or six 51 J receivers.

3. MANUAL MORSE CODER - a device to permit experienced operators to use the AS-3 as efficiently as they can use would be most welcome in . A small, hand operated coder containing an audio oscillator, a miniature telegraph key, and a spring wound motor could be built in a case no larger than the present dot-dash coder. A size D flashlight cell would power the oscillator, which would be also used to provide sidetone to the operator. The device would place a pulse on start track of the CA-3 cartridge when the key was closed and another pulse on the stop track when the key was released. The spring wound motor would continuously advance the tape in the CA-3 cartridge at either a HI or LO speed, whichever the operator selected.

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*No requirement →
CY*

4. KEYBOARD MORSE CODER - an AC operated keyboard-to-Morse converter for office use could be provided as an accessory for staff emergency communications use of the AS-3. A modified cartridge with enough tape for 500 groups could be used with this coder.

CY prefers using CK-8 for this application

5. BURIAL CONTAINER - planning for a suitable burial package for the AS-3 should begin as soon as the dimensions of the production units are established.

Ops say AS-3 will fit into present burial containers.

6. CARRYING CASE - a contoured carrying case for the AS-3 and its operating accessories can be available when production units

Ops against special carrying case for AS-3 components for security reasons.

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appear if its configuration is determined in the near future. It is suggested that two equal sized briefcases be considered for carrying the AS-3.

C 4 feels operator can use BA-3 battery to operate receiver, and recharge battery from AC line.

7. RECEIVER FILTER BOX - The RD-11 may be operated from AC if a small 60 cycle filter is placed between the receiver and the BC-3 battery charger. It is estimated that a box holding this filter would measure about 2" x 1" x 1 1/2".

Ops against designing this harness until TP-3 ~~is~~ is in production.

8. RECEIVING HARNESS - a cable harness connecting the 12-volt source to the receiver and the printer of the AS-3 would permit the operator to receive blind broadcasts without the necessity for using the transmitter as a connection box.

Not desired (font accomplished)

9. ALTERNATE AS-3 RECEIVER - a suitable DC-to-DC converter to operate the RR-2B from 12 volts, together with audio and antenna interconnections will allow the RR-2B to be used as an alternate receiver for the AS-3 where economy is an important consideration.

Ops is against DS-1.

10. It is suggested that the DS-1 Digital Display unit be provided with an AS-3 type connector positioned to allow the DS-1 to plug directly into the AT-3 in place of the TP-3 printer. The same 12-volt cord which allows the RD-11 to be operated from a 12-volt battery could be used in this socket for furnishing power to the DS-1 when it is used without the AS-3.



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OC-E/R+D-EP:WJS:pjb (8 May 1959)
cc: R+D Subject
R+D Lab
OCT/CT/OR
Monthly (2)
EP Chrono

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