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ACTION		DIRECT REPLY	PREPARE REPLY
APPROVAL		DISPATCH	RECOMMENDATION
COMMENT		FILE	RETURN
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Remarks: <i>file</i> → Attached is a hand-out concerning the equipment Board meeting of 6 March 1973.			
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FROM: NAME, ADDRESS AND PHONE NO.			DATE
Secretary, OC Equip Board			2 Mar 73

Approved For Release 2003/05/14 : CIA-RDP79-01578A000200040018-6

The CK-8 Morse Coder Keyer sub-system consists of a KE/()8 keyer, CA/A-3 cartridge and a CO/B-8 coder. These devices, (electro-mechanical) have been in service a number of years, and in the main have been fairly dependable.

Objections to the CK-8 are the individual components requiring interconnecting cables, manual encipherment from a one-time pad and the vulnerability of units to pollutants.

Replacement CK-8 packages will cost approximately \$2000. Field projected requirements plotted against worldwide stocks indicate sufficient supplies to last until February 1974. Procurement lead time is approximately eight months.

25X1 The CK-45 Morse Coder Keyer is a self contained integrated unit. Transmission speed (factory set) is 300 or 600 wpm. The unit performs automatic encipherment using one-time magnetic tape cryptographic key. Message entry is by means of a stylus operated keyboard. The CK-45 is compatible with the RS-59 system and directly interchangeable with the CK-33 in [redacted] Engineering and development of this unit is complete and procurement action is planned for fifty units at \$2,700 each in the final quarter of FY-73.

The CK-45 could be considered as a replacement for the CK-8 and the CK-33 Morse Coder Keyer.

The CK-33 is a solid-state Morse coder keyer employing a photographic key film technique. This device has been in use over three years. Issue has been closely controlled because of advanced techniques and approximate cost per unit is \$6,000. Over the past three years, 37 units have been operationally issued. There are currently 46 units available for issue. These units have not shown a high level of reliability.

25X1 The CK/A-33 is a Baudot version of the CK-33. None have been operationally issued of the thirty eight units placed in stock at a unit cost of \$6,100. Operational use of the CK/A-33 is expected to rise during FY-74 as the telephone communications system (TC-33), automatic print out [redacted] base system (RS-536) and [redacted] field sets (RS-802/RS-803) with PSK and automatic GCS print out are deployed. All require Baudot code inputs. 25X1

25X1

The CK-42 is a solid state Baudot coder keyer that is considerably smaller than the CK/A-33. In addition to matching the technical characteristics of the CK/A-33, the CK-42 will enable [redacted] applications. Output is synchronous Baudot at any desired speed up to 10,000 wpm. A photographic key film technique is used in present models. The CY-2 electronic key generator is an optional future possibility which will permit a further reduction in size since the key film supply would be eliminated. Prototypes are expected in June 1973. Estimated unit cost of production models will be \$3,000 - \$3,500. The CK-42 is to be the replacement for the CK/A-33 with the initial production procurement planned for FY-74.

The CK-43 is an electro-mechanical Baudot Coder Keyer with automatic encipherment and decipherment. Cryptographic key is one-time magnetic tape. Message entry is by means of a stylus operated keyboard. Plain text message readout is by lights displayed on a keyboard. The CK-43 may also be connected to an external readout device. Transmission and reception speed selectable up to 2400 wpm. This unit is now in the breadboard stage. Production costs are (sketchy) estimated at \$4,000 per unit.

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