

CSP 6620A

REGISTER NO.

SECRET-CRYPTO

CRYPTOGRAPHIC EQUIPMENT
PLANNING AND REFERENCE
GUIDE (U)

CSP 6620A

DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
SEPTEMBER 1962

EXCLUDED FROM AUTOMATIC
DECLASSIFICATION FOR DIR 5200.10
PPLY

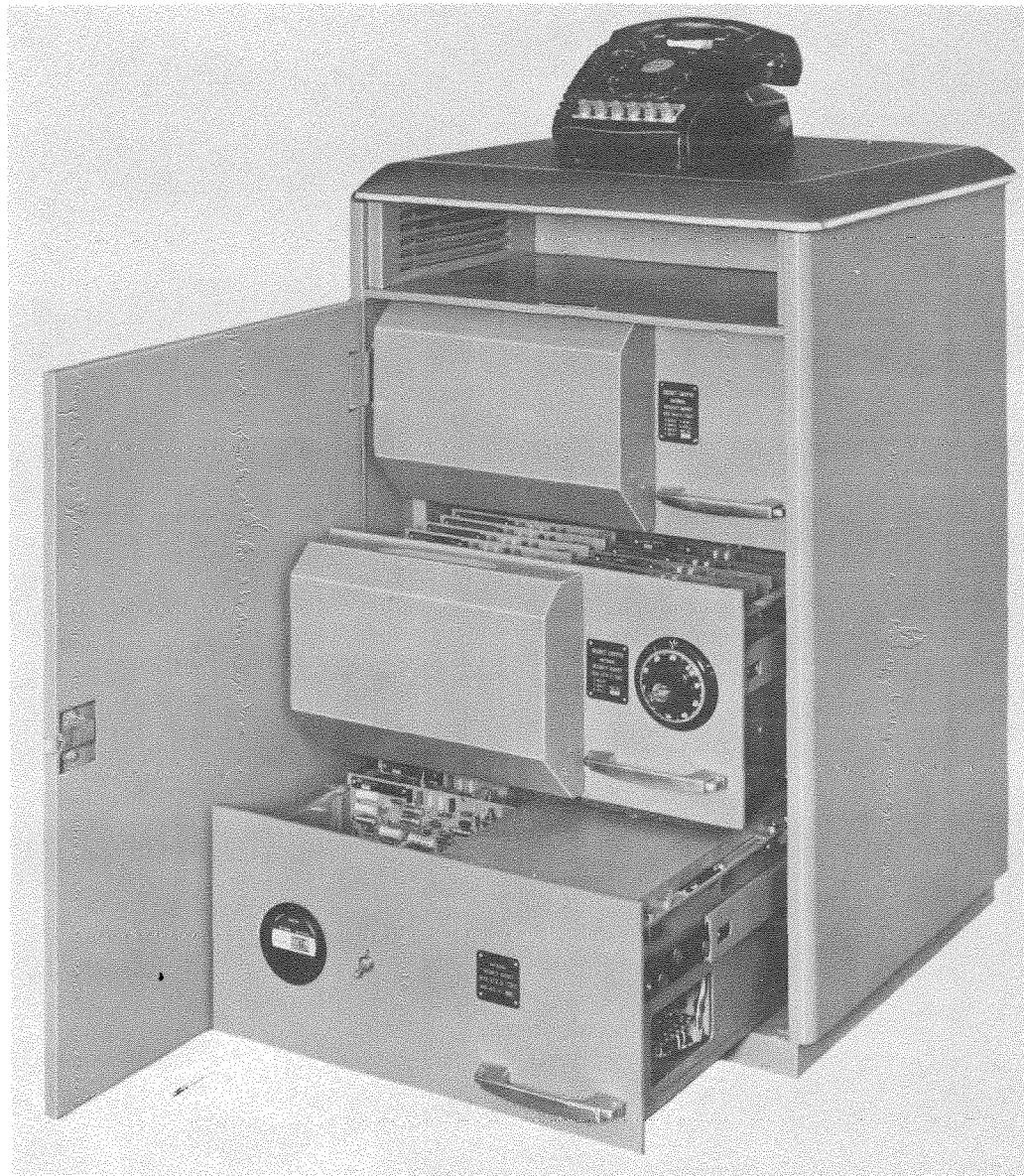
DO NOT REMOVE FROM BINDER

DECLASSIFIED per SEC 3.4 E.O. 12958
by Director, NSA/Chief, CSS
[Signature] date *27 Oct 98*

IT

ORIGINAL
(Reverse Blank)

TSEC/KY-3



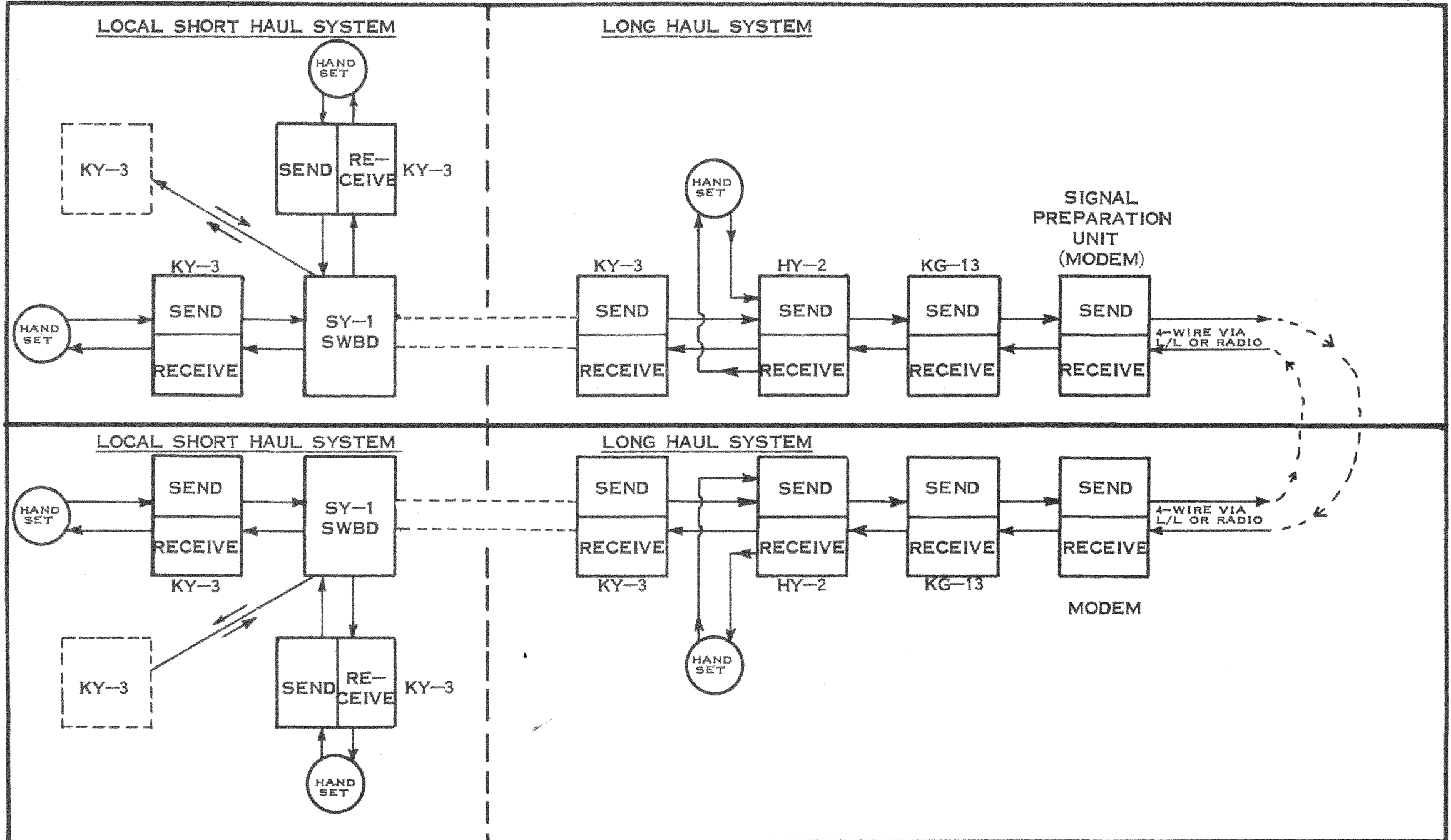
DEVELOPMENTAL MODEL

| | | | | | | | | | | | | | | | |
|---|--|---------------|---------------|----------------|---------------|-----------------|---------------|-------------------------|---------------|-----------------|---------------|--|---------------|--------------|---------------|
| <p>DESCRIPTION</p> | <p>A COMPLEX ELECTRONIC, FULL-DUPLEX, TRANSISTORIZED, SINGLE CHANNEL, WIDE-BAND SPEECH SECURITY EQUIPMENT PROVIDING HIGH SECURITY AND TELEPHONE QUALITY IN AN OFFICE TYPE INSTALLATION. IT IS CAPABLE OF USE IN LOCAL AREAS ON UNLOADED CABLE (UP TO 20 MILES) OR VHF/UHF RADIO MICROWAVE CIRCUITS. THE KY-3 IS USED ALONE FOR POINT-TO-POINT OPERATION OR IN CONJUNCTION WITH A 4-WIRE SWITCHBOARD FOR NETTED OPERATION (CONFERENCE FACILITIES ARE NOT PROVIDED). THE 50 KC DIPHASE TRANSMISSION SYSTEM IS SELF-CONTAINED. THE KY-3 CAN BE USED TO SECURE SUBSCRIBER LINES TO THE HY-2/KG-13 LONG HAUL SECURE VOICE SYSTEM. (SEE PAGE 8-3). KEYING VARIABLES ARE DETERMINED BY MEANS OF PUNCHED CARDS.</p> <p>ONLY ONE DESK SET WILL BE FURNISHED WITH EACH KY-3. THIS SPECIAL DESK SET WILL INCLUDE FULL CONTROL AND ALARM FEATURES, HOWEVER, A PARALLEL OUTPUT CONNECTION WILL BE INCORPORATED IN KY-3 PRODUCTION MODELS WHICH WILL ENABLE THE USER TO PATCH THE PLAIN LANGUAGE VOICE SIGNAL THROUGH SERVICE-PROVIDED TELEPHONE SWITCHBOARDS FOR MULTI-STATION USE. STANDARD SECURITY INSTALLATION PRACTICES, INCLUDING APPROVED LINES, MUST BE PROVIDED BETWEEN SUBSCRIBER STATIONS AND THE MASTER STATION AS REQUIRED.</p> | | | | | | | | | | | | | | |
| <p>STATUS</p> | <p>A JOINT DEVELOPMENTAL EVALUATION HAS BEEN COMPLETED. SERVICE TEST IS SCHEDULED TO COMMENCE DURING THE 4TH QUARTER OF FY 1963.</p> | | | | | | | | | | | | | | |
| <p>TRAINING</p> | <p>OPERATORS WILL NOT REQUIRE FORMAL TRAINING. MAINTENANCE TRAINING WILL BE UNDER THE COGNIZANCE OF THE AIR FORCE. (NAVY MAY ESTABLISH KY-3 TRAINING COURSES DEPENDING ON FUTURE PROCUREMENTS.)</p> | | | | | | | | | | | | | | |
| <p>CRYPTOSYSTEM</p> | <p>TROILUS</p> | | | | | | | | | | | | | | |
| <p>CLASSIFICATION</p> | <p>EQUIPMENT: PRODUCTION MODEL WILL BE CONFIDENTIAL-CRYPTO (EXTERNAL VIEWING - NO CLEARANCE REQUIRED) KEYING MATERIAL: SECRET-CRYPTO TRAFFIC: ALL CLASSIFICATIONS (FOR TOP SECRET AND SPECIAL CATEGORY TRAFFIC CSPM 1C, 1-50 REFERS)</p> | | | | | | | | | | | | | | |
| <p>PUBLICATIONS</p> | <p>MAINTENANCE: KAM-128, KAM-129 (BOTH SECRET-CRYPTO) OPERATING: KAO-77 (CONFIDENTIAL-CRYPTO)</p> | | | | | | | | | | | | | | |
| <p>PROCUREMENT (COST IN THOUSANDS)</p> | <p>UNIT COST</p> | <p>PAST</p> | | <p>FY 1963</p> | | <p>FY 1964</p> | | <p>FY 1965</p> | | <p>FY 1966</p> | | <p>FUTURE</p> | | <p>TOTAL</p> | |
| | <p>\$18,000</p> | <p>QTY</p> | <p>AMOUNT</p> | <p>QTY</p> | <p>AMOUNT</p> | <p>QTY</p> | <p>AMOUNT</p> | <p>QTY</p> | <p>AMOUNT</p> | <p>QTY</p> | <p>AMOUNT</p> | <p>QTY</p> | <p>AMOUNT</p> | <p>QTY</p> | <p>AMOUNT</p> |
| | | | | | | 100 | 1,800 | 50 | 900 | 50 | 900 | 50 | 900 | 250 | 4,500 |
| <p>PHYSICAL CHARACTERISTICS</p> | <p>HEIGHT</p> | <p>WIDTH</p> | | <p>DEPTH</p> | | <p>WEIGHT</p> | | <p>VOLTAGE</p> | | <p>POWER</p> | | <p>REMARKS</p> | | | |
| | <p>30 IN.</p> | <p>19 IN.</p> | | <p>19 IN.</p> | | <p>250 LBS.</p> | | <p>110 (60 CPS)</p> | | <p>55 WATTS</p> | | <p>RACK MOUNTED AS WELL AS OFFICE TYPE EQUIPMENTS WILL BE AVAILABLE.</p> | | | |
| <p>ANCILLARY EQUIPMENT</p> | <p>SY-1 SWITCHBOARD - THIS SWITCHBOARD (OR EQUAL) IS REQUIRED FOR LOCAL VOICE COMPLEX. IT ACCOMMODATES 12 KY-3's (EXPANDABLE TO 23); HOWEVER, ONLY 3 TALKING LINES CAN BE IN USE AT ANY ONE TIME. IF MORE THAN 3 TALKING LINES ARE REQUIRED TO BE IN OPERATION AT ANY ONE TIME AT A STATION, THE BASIC DESIGN OF THE SY-1 (I.E. 3 REGENERATIVE AMPLIFIERS AND 12 LOOP JACKS, ETC.) CAN BE INCREASED BY COMMERCIAL PROCUREMENT. WHEN REQUIREMENTS FOR ANY COMPLEX ARE MADE KNOWN, HEAD, NAVCOMMSYSHQ, IN COORDINATION WITH DCA, WILL OBTAIN A STANDARDIZED EQUIPMENT PROCUREMENT AND INSTALLATION DESIGN.</p> | | | | | | | | | | | | | | |

COMBINED SHORT AND LONG HAUL VOICE SYSTEMS

CONFIDENTIAL

CSP 6620A



CONFIDENTIAL

ORIGINAL