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 KY-2/KG-13 LONG HAUL SECURE VOICE SYSTEM. (SEE PAGE 8-3). KEYING VARIABLES ARE DETERMINED BY MEANS OF PUNCHED CARDS.

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 MATCH 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.

A JOINT DEVELOPMENTAL EVALUATION HAS BEEN COMPLETED. SERVICE TEST IS SCHEDULED TO COMMENCE DURING THE 4TH QUARTER OF FY 1963.

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.)

SECRET

DESCRIPTION

SECRET

STATUS

TRIALUS

CRYPTOSYSTEM

CLASSIFICATION

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 1G, 1-G0 REFERENCES)

PUBLICATIONS

MAINTENANCE: KAM-12B, KAM-12B (BOTH SECRET-CRYPTO)

OPERATING: KAO-77 (CONFIDENTIAL-CRYPTO)

PROCUREMENT

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<th>FY 1965</th>
<th>FY 1966</th>
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PHYSICAL CHARACTERISTICS

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<th>HEIGHT</th>
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<th>POWER</th>
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<tr>
<td>30 IN.</td>
<td>19 IN.</td>
<td>19 IN.</td>
<td>250 LBS.</td>
<td>110 (60 CPS)</td>
<td>55 WATTS</td>
<td>BACK MOUNTED AS WELL AS OFFICE TYPE EQUIPMENTS WILL BE AVAILABLE,</td>
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</table>

ANCILLARY EQUIPMENT

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, NAVCOMMSSYHQ, IN COORDINATION WITH DCA, WILL OBTAIN A STANDARDIZED EQUIPMENT PROCUREMENT AND INSTALLATION DESIGN.

SECRET

TSEC/KY-3

CSP 6620A

SE 15-9

CORRECTED TO 6/6/61

ORIGINAI