TSEC/KW-22
AN ADDITIONAL PICTURE IS ON PAGE 13–18
A COMPLEX ELECTRONIC, POINT-TO-POINT, TELETYPewriter SECURITY EQUIPMENT DESIGNED FOR USE ON RADIO AND WIRELINE CIRCUITS ASHORE AND AFLOAT WITH A FOUR-CHANNEL TIME DIVISION MULTIPLEX TELEGRAPH TERMINAL SET. IT USES THE FREQUENCY STANDARD AND SYNCHRONIZING FEATURES OF THE AN/FGC–5 OR AN/UGC–1 (TRANSISTORIZED VERSION OF THE AN/FGC–5) AND IS ABLE TO OPERATE IN THE TWO, THREE OR FOUR CHANNEL MODE. KEYING VARIABLES ARE DETERMINED BY MEANS OF PUNCHED CARDS.

UNDESIRABLE COMPROMISING RADIATIONS HAVE BEEN DETECTED IN SOME OF THE ASSOCIATED MULTIPLEX EQUIPMENTS WHICH LIMITS THE CLASSIFICATION OF TRAFFIC WHICH CAN BE TRANSMITTED BY MANY ACTIVITIES USING THE KW–22 TO SECRET AND BELOW. THIS DEFICIENCY HAS BEEN CORRECTED IN AN/UGC–1 TERMINALS WHICH HAVE A SERIAL NUMBER HIGHER THAN 42. IN ANY EVENT TOP SECRET MESSAGES MAY BE TRANSMITTED ONLY WHEN SPECIFICALLY AUTHORIZED BY CNO OR IN THE CASE OF TEMPORARY EMERGENCIES. (CNO 261819Z MAY 61 AND CNO 011441Z JUN 61 (TO CINCLANTFLT AND CINCPACFLT) AND CSPM 1C, 1–51 REFER)

DESCRIPTION

STATUS

IN USE, NO FURTHER PROCUREMENT PLANNED. (SEE ABOVE FOR RESTRICTIONS ON USAGE)

TRAINING


CRYPTOSYSTEM

TANTALUS

CLASSIFICATION

EQUIPMENT: SECRET–CRYPTO (EXTERNAL VIEWING – NO CLEARANCE REQUIRED)
KEYING MATERIAL: SECRET–CRYPTO
TRAFFIC: SEE SECOND PARAGRAPH UNDER DESCRIPTION ABOVE.

PUBLICATIONS

OPERATING: KAO–32 (SECRET–CRYPTO)

PROCUREMENT

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<tr>
<th>UNIT COST</th>
<th>PAST</th>
<th>FY 1963</th>
<th>FY 1964</th>
<th>FY 1965</th>
<th>FY 1966</th>
<th>FUTURE</th>
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<tr>
<td>COST IN THOUSANDS</td>
<td>QTY</td>
<td>AMOUNT</td>
<td>QTY</td>
<td>AMOUNT</td>
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<td>QTY</td>
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PHYSICAL CHARACTERISTICS

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<th>CHARACTERISTICS</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>VOLTAGE</th>
<th>POWER</th>
<th>REMARKS</th>
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<tr>
<td>RCVR</td>
<td>56 IN.</td>
<td>25 IN.</td>
<td>28 IN.</td>
<td>548 LBS.</td>
<td>(20–60 CPS)</td>
<td>840 WATTS</td>
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NOTE: 101 KW–22 EQUIPMENTS ARE ON INDEFINITE LOAN TO THE NAVY. 50 OF THESE ARE FROM THE AIR FORCE AND 51 FROM THE ARMY.
SHOWN WITH AN/FGC-5 TERMINAL EQUIPMENT TO THE RIGHT
UNCLASSIFIED

TSEC/KW-22: SYSTEM BLOCK DIAGRAM (FULL DUPLEX CIRCUIT)

CSP 6620 A

UNCLASSIFIED

13-19

CORRECTED TO 5/17/68

ORIGINAL