SECRET-CRYPTO

CRYPTOGRAPHIC EQUIPMENT
PLANNING AND REFERENCE
GUIDE (U)

CSP 6620A

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

DO NOT REMOVE FROM BINDER

DECLASSIFIED per Sec 3.4 E.O. 12333
by Director, NGA/Chief, CSS

ORIGINAl
(Reverse Blank)
AN/SGA-5
A COMPACT GROUP OF TELETYPewriter AND ANCILLARY EQUIPMENT DESIGNED PRIMARILY FOR USE IN SUBMARINES OR WHERE SPACE IS NOT AVAILABLE FOR AN AN/SGA-3. IN CONJUNCTION WITH THE KL-47 IT PROVIDES A SEMI-AUTO-
MATIC, OFF-LINE, DECRYPTION ONLY CAPABILITY. IN CW OPERATION TRAFFIC IS COPIED DIRECTLY ON THE KEYBOARD OF THE PAGE PRINTER. IF THE TEXT IS ENCIPHERED, THE OPERATOR ENERGIZES THE REPERFORATOR THUS PRODUC-
ING A PAGE COPY AND PERFORATED TAPE SIMULTANEOUSLY. THE TAPE IS THEN PROCESSED THROUGH THE HLT-1, 
HLI-1 AND KL-47 TO PRODUCE PLAIN TEXT ON GUMMED TAPE (SEE PAGE 2-34). IF A RATT CIRCUIT IS COPIED, THE 
RECEIVING TERMINAL GROUP MAY BE CONNECTED DIRECTLY TO THE PRINTER AND REPERFORATOR AND THE CIPHER 
TEXT PROCESSED AS ABOVE.

THE COMPLETE CONFIGURATION CONSISTS OF THE FOLLOWING COMPONENTS:

1 - HLT-1 (TAPE READER UNIT)
1 - MODIFIED TT-176/UG (PAGE PRINTER) (MINIATURIZED VERSION WHEN AVAILABLE)
1 - MODIFIED TT-159/UG (REPERFORATOR)
1 - SPECIAL SAFE LOCKER
1 - HLI-1 (TRANSLATOR UNIT)
1 - SPECIAL POWER SUPPLY

ASSOCIATED CIPHER MACHINE:
1 - KL-47 (LITERAL CIPHER MACHINE)

STATUS
APPROVED FOR SERVICE USE AFLOAT AS INTERIM CRYPTOGRAPHIC TTY SYSTEM AND DESIGNATED AS SUBSTITUTE 
STANDARD FOR THE REQUIREMENT IT FULFILLS.

TRAINING
NO SPECIALIZED TRAINING REQUIRED. (SEE PAGE 10-13 FOR KL-47 TRAINING)

CRYPTOSYSTEM
ADONIS/POLLUX (DETERMINED BY ASSOCIATED CIPHER MACHINE)

CLASSIFICATION
EQUIPMENT: WITHOUT ASSOCIATED CIPHER MACHINE = UNCLASSIFIED 
WITH KL-47 = CONFIDENTIAL-CRYPTO

KEYING MATERIAL: ALL CLASSIFICATIONS

TRAFFIC: ALL CLASSIFICATIONS

PUBLICATIONS
MAINTENANCE: NONE FOR CONFIGURATION AS A WHOLE, SEE KAM'S LISTED IN HL-1 AND KL-47 SECTIONS.

OPERATING:
CSP-6606 (SECRET-CRYPTO)

PROCUREMENT
(COST IN THOUSANDS)

<table>
<thead>
<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>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4000</td>
<td></td>
<td></td>
<td></td>
<td>115</td>
<td>137</td>
<td>137</td>
<td>548</td>
</tr>
</tbody>
</table>

APPROX
(Does Not Include KL-47)

<table>
<thead>
<tr>
<th>QTY</th>
<th>AMOUNT</th>
<th>QTY</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>137</td>
<td>548</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>VOLTAGE</th>
<th>POWER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONFIGURATION LESS PAGE PRINTER</td>
<td>45 IN.</td>
<td>19 IN.</td>
<td>14 1/2 IN.</td>
<td>274 LBS.</td>
<td>115</td>
<td>APPROX</td>
<td>MINIATURIZED PAGE PRINTERS ARE BEING PROCURED FOR USE ON POLARIS SUBMARINES ONLY</td>
</tr>
<tr>
<td>MODIFIED TT-176/UG</td>
<td>12 IN.</td>
<td>17 IN.</td>
<td>19 IN.</td>
<td>62 LBS.</td>
<td>1200 WATTS</td>
<td>TOTAL</td>
<td>1900 CPs</td>
</tr>
<tr>
<td>MINIATURIZED PAGE PRINTERS</td>
<td>6 IN.</td>
<td>14 IN.</td>
<td>16 IN.</td>
<td>20 LBS.</td>
<td></td>
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</tr>
</tbody>
</table>
REMOTE CONTROL POWER SWITCH FOR MODEL 14 REPERFORATOR

MODIFIED TT-176/UG MODEL 28 (OR MINIATURE) TELEPRINTER

KEY BOARD

PRINTER

PAGE COPY INCOMING TRAFFIC

RADIO

REMOTE CONTROL POWER SWITCH FOR MODEL 14 REPERFORATOR

MODIFIED TT-159/UG MODEL 14 REPERFORATOR

HLT-1 TAPE READER UNIT

HLI-1 TRANSLATOR UNIT

KL-47 CIPHER MACHINE

PLAIN LANGUAGE TAPE

CRYPTO