AN/GGA-1
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THE AN/GGA-1 SEMI-AUTOMATIC OFF-LINE TELETYPETRITER GROUP IS A CONFIGURATION OF TELETYPETRITER EQUIPMENT USED WITH CERTAIN CIPHER MACHINES (SEE BELOW) TO FACILITATE THE RAPID ENCIPHERING OR DECI-

PHERING OF TELETYPES TRAFFIC. IT IS DESIGNED PRIMARILY FOR USE ASHORE. OPERATING SPEED IS 50 WPM. THE AN/GGA-1 CONSISTS OF ONE EACH OF THE FOLLOWING ITEMS OF EQUIPMENT:

TT-36/GGA-1, TAPE READER
PP-315/GGA-1, POWER SUPPLY
FN-30/GGA-1, TELETYPETRITER TABLE
SA-484/GGA-1, SWITCHING UNIT

ASSOCIATED CRYPTO DEVICES:
TT-37/GGA-1, MODEL 14 REPERFORATOR
TT-38/GGA-1, MODEL 14 REPERFORATOR
TT-39/GGA-1, MODEL 15 PAGEPRINTER
KL-34 (CSP-3000)
KL-47

BACCHUS, NEPTUNE AND HERCULES CRYPTO SYSTEMS HAVE BEEN DISCONTINUED, HOWEVER, THE KL-34 (CSP-3000) CRYPTO DEVICE IS REQUIRED FOR ITS ENG-308 TRANSLATOR UNIT WHICH IS NECESSARY FOR THE OPERATION OF THIS CONFIGURATION.

STATUS
IN USE
SPARE PARTS SUPPORT - ESQ (EXCEPT TT-36 AND SA-484 WHICH ARE SUPPORTED BY CRF)

TRAINING
A 5 WEEK COURSE IS CONDUCTED AT NORFOLK AND MARE ISLAND. SUPERVISORS CONTROLS QUOTAS FOR NORFOLK AND EPDPAC CONTROLS QUOTAS FOR MARE ISLAND. A SECRET CLEARANCE IS REQUIRED.

CRYPTOSYSTEM
ADONIS/POLLUX

CLASSIFICATION
EQUIPMENT: UNCLASSIFIED (CONFIDENTIAL-CRYPTO WITH ASSOCIATED CRYPTO DEVICES)
KEYING MATERIAL: SECRET-CRYPTO OR TOP SECRET-CRYPTO
TRAFFIC: ALL CLASSIFICATIONS

PUBLICATIONS
OPERATING: NONE
MAINTENANCE: SHIPS 453 (APRIL 1955)

PROCUREMENT
COMPLETED PRIOR TO 1955

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TT-36</td>
<td>12 1/4 IN.</td>
<td>16 1/4 IN.</td>
<td>20 3/4 IN.</td>
<td>70 LBS.</td>
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<tr>
<td>PP-315</td>
<td>15 IN.</td>
<td>22 1/2 IN.</td>
<td>9 3/4 IN.</td>
<td>115 LBS.</td>
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<td>FN-30</td>
<td>21 1/2 IN.</td>
<td>60 3/4 IN.</td>
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<td>37 LBS.</td>
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<tr>
<td>TT-38</td>
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<td>21 1/2 IN.</td>
<td>107 LBS.</td>
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<tr>
<td>TT-39</td>
<td>42 IN.</td>
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<td>16 IN.</td>
<td>193 LBS.</td>
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<td>SA-484</td>
<td>23 IN.</td>
<td>22 3/4 IN.</td>
<td>16 IN.</td>
<td>80 LBS.</td>
</tr>
</tbody>
</table>

PHYSICAL CHARACTERISTICS

POWER
96-125 VOLTS
190-250 VOLTS (60 CPS)

DISTRIBUTION

(AFLOAT) - 9 SHIPYARDS - 11
COMMANDS - 55 WEATHER - 4
COMMSTAs - 64 OTHERS - 61
NAVSTAs - 13 TOTAL - 250
SPECIAL - 30
NAVAIR - 9
MARINES - 5