

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

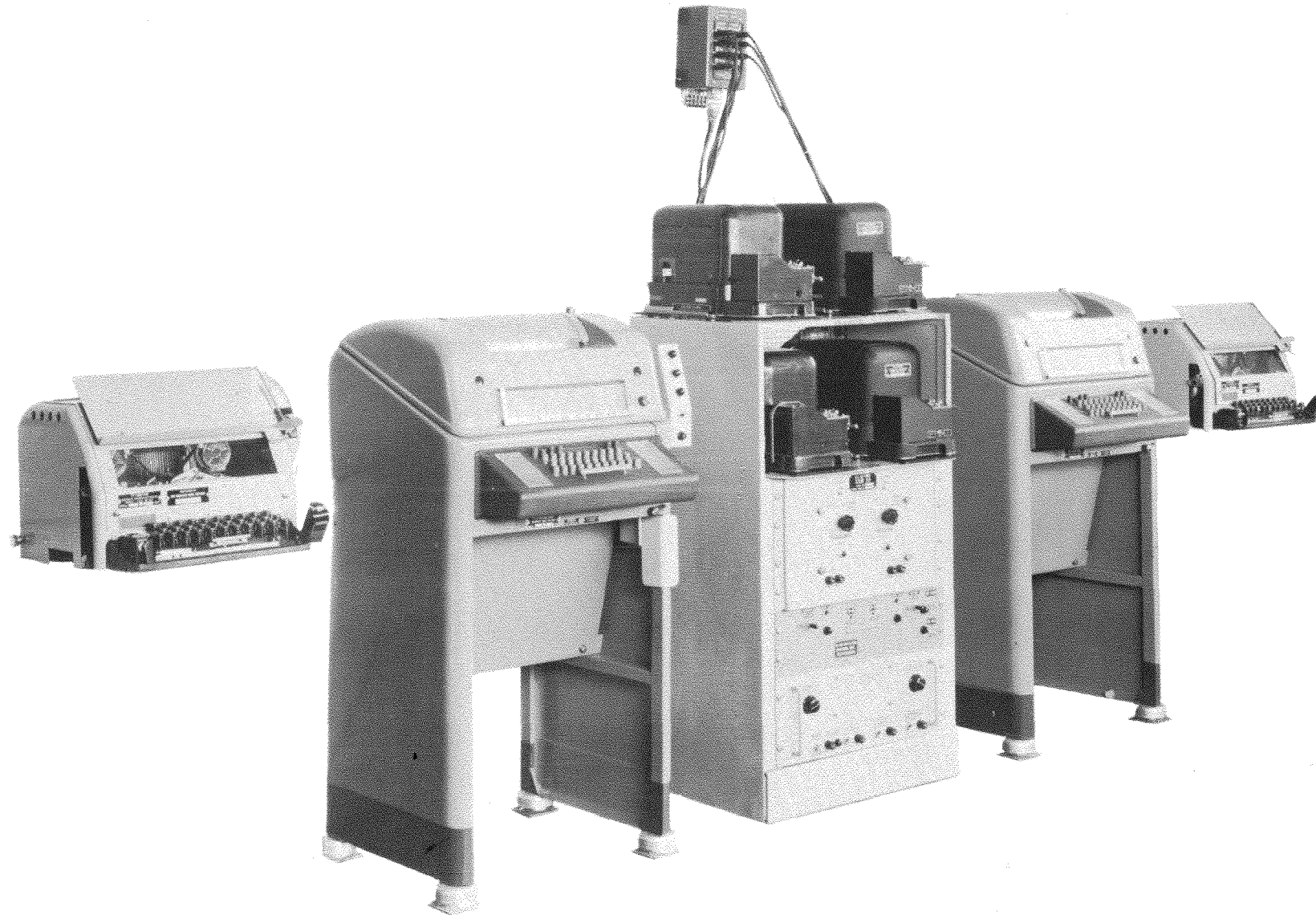
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DECLASSIFIED per SEC 3.4 E.O. 12958
by Director, NSA/Chief, CS3
 date 27 Oct 98

IT

ORIGINAL
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AN/SGA-4



DESCRIPTION	A CONFIGURATION OF TELETYPEWRITER AND ANCILLARY EQUIPMENT DESIGNED EXPRESSLY FOR SHIPBOARD USE TO PROVIDE FULL DUPLEX ON-LINE OPERATION IN THE PYTHON ONE-TIME TAPE CRYPTOSYSTEM. (MAY ALSO BE USED OFF-LINE). IT IS CAPABLE OF PROVIDING SECURITY FOR POINT-TO-POINT (OR NETTED) SINGLE CHANNEL RADIO OR WIRELINE CIRCUITS. ITS CRYPTO UNIT IS A SPECIAL TRANSMITTER DISTRIBUTOR (CSP-2699) USING ONE-TIME TAPE AND THE SSM-33 SIGNAL MIXER UNIT. OPERATING SPEED IS 45.5 BAUD (60 WPM). (FOR FURTHER INFORMATION SEE THE CSP-2699 AND SSM-33 SECTIONS). THE CSP-2699 AND THE SSM-33 HAVE HIGHLY UNDESIRABLE RADIATION CHARACTERISTICS. AS RAPIDLY AS FEASIBLE THEY WILL BE REPLACED BY THE HW-10 AND HW-19A EQUIPMENTS. THE COMPLETE CONFIGURATION CONSISTS OF THE FOLLOWING COMPONENTS: <table><tr><td>1 - PP-1646A/UG - POWER SUPPLY</td><td>1 - SA-561/SGA-4 - SWITCHING UNIT</td></tr><tr><td>2 - TT-57/FG - TRANSMITTER DISTRIBUTORS</td><td>1 - MT-1952/SGA-4 - MOUNTING RACK</td></tr><tr><td>2 - TT-159/UG - MODEL 14 TYPING REPERFORATORS</td><td>1 - SB-1218/SG - COMMUNICATION PATCHING PANEL</td></tr><tr><td>2 - TT-47/UG - MODEL 28 TELETYPEWRITERS</td><td>1 - C-2192/UG - TELETYPEWRITER CONTROL</td></tr><tr><td>1 - SSM-33 - SIGNAL MIXER</td><td></td></tr><tr><td colspan="2">2 - CSP-2699 - SPECIAL ONE-TIME TAPE TRANSMITTER DISTRIBUTORS (USED WITH BUT NOT SUPPLIED AS A PART OF THE AN/SGA-4) (RPS DISTRIBUTED)</td></tr></table>								1 - PP-1646A/UG - POWER SUPPLY	1 - SA-561/SGA-4 - SWITCHING UNIT	2 - TT-57/FG - TRANSMITTER DISTRIBUTORS	1 - MT-1952/SGA-4 - MOUNTING RACK	2 - TT-159/UG - MODEL 14 TYPING REPERFORATORS	1 - SB-1218/SG - COMMUNICATION PATCHING PANEL	2 - TT-47/UG - MODEL 28 TELETYPEWRITERS	1 - C-2192/UG - TELETYPEWRITER CONTROL	1 - SSM-33 - SIGNAL MIXER		2 - CSP-2699 - SPECIAL ONE-TIME TAPE TRANSMITTER DISTRIBUTORS (USED WITH BUT NOT SUPPLIED AS A PART OF THE AN/SGA-4) (RPS DISTRIBUTED)	
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STATUS	IN USE.		SPARE PARTS SUPPORT - ESO																	
TRAINING	NO SPECIALIZED TRAINING REQUIRED.																			
CRYPTOSYSTEM	PYTHON																			
CLASSIFICATION	EQUIPMENT: UNCLASSIFIED KEYING MATERIAL: SECRET-CRYPTO TRAFFIC: LIMITED TO SECRET AND BELOW BECAUSE OF THE UNDESIRABLE RADIATION CHARACTERISTICS OF THE CSP-2699 AND SSM-33.																			
PUBLICATIONS	MAINTENANCE: SSM-33: AIR FORCE T.O. 31-W-4-4-18-13 CSP-2699: ARMY TM 11-2222 (ARMY DESIGNATION FOR THE CSP-2699 IS TT-21/FG (SIGTOT)) OPERATING: CSP-6605, KAO-8 (BOTH CONFIDENTIAL-CRYPTO)																			
PROCUREMENT	SEE PAGES PERTAINING TO COMPONENT EQUIPMENTS																			
PHYSICAL CHARACTERISTICS (MAJOR COMPONENTS)	COMPONENT	HEIGHT	WIDTH	DEPTH	WEIGHT	VOLTAGE	POWER	REMARKS												
	PP-1646A/UG	7 IN.	19 IN.	9 IN.	41 LBS.	115 (60 CPS)	230 WATTS	A COMPLETE AN/SGA-4 CONFIGURATION REQUIRES APPROXIMATELY 73.5 CUBIC FEET.												
	TT-57/FG	9 1/2 IN.	8 3/4 IN.	16 3/4 IN.	30 LBS. EA.		65 WATTS EA.													
	TT-159/UG	12 3/4 IN.	18 IN.	21 1/2 IN.	70 LBS. EA.		125 WATTS EA.													
	TT-47/UG	40 1/2 IN.	20 1/2 IN.	18 1/2 IN.	120 LBS. EA.		110 WATTS EA.													
	SSM-33	10 1/2 IN.	19 IN.	8 IN.	25 LBS.		96 WATTS													
	CSP-2699	8 1/2 IN.	15 IN.	9 IN.	28 LBS. EA. APPROX		65 WATTS EA.													
	TOTAL				742 LBS.		1056 WATTS													

