

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 DIR 5200.10
PPLY

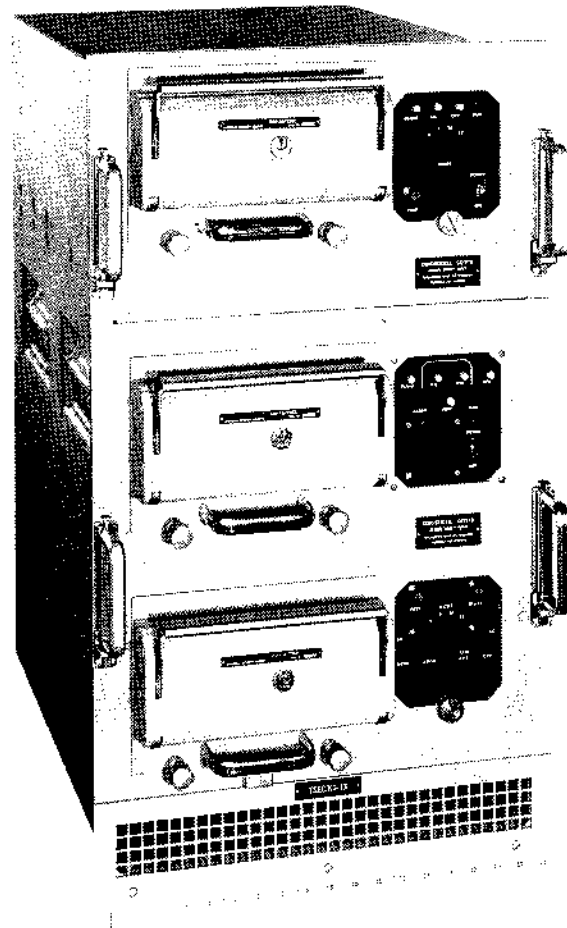
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DECLASSIFIED per SEC 3.4 E.O. 12958
by Director, NSA/Chief, CS3
W date 27 Oct 98

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ORIGINAL
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TSEC/KG-13



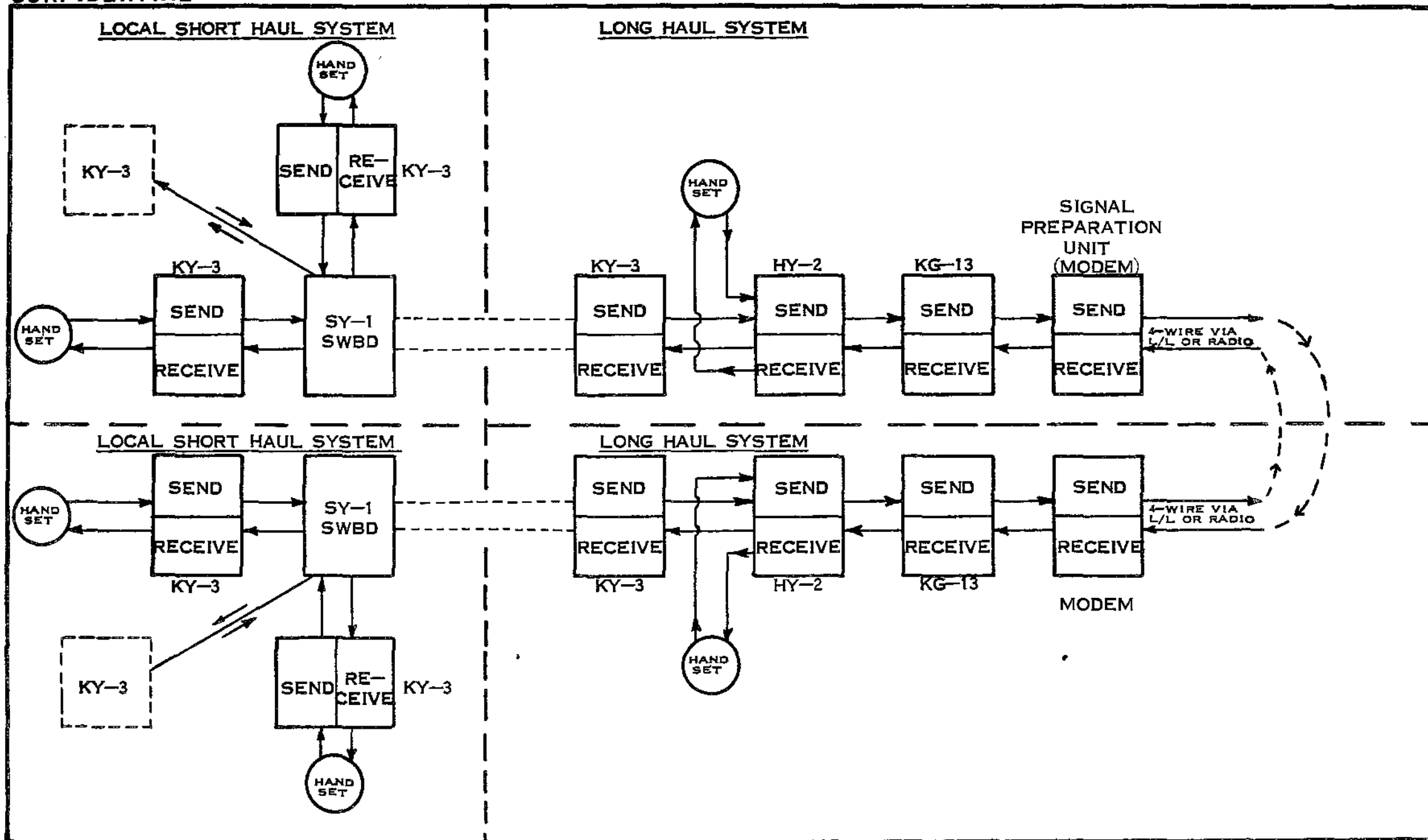
PRODUCTION MODEL

DESCRIPTION	A COMPLEX ELECTRONIC TRANSISTORIZED FULL-DUPLEX KEY GENERATOR FOR THE ENCRYPTION OF DIGITAL DATA, WITH VARIOUS CONVERSION EQUIPMENT, THE KG-13 WILL PROVIDE SECURITY FOR SEVERAL TYPES OF COMMUNICATIONS, INCLUDING DIGITAL VOICE, FACSIMILE, IBM DATA, COMPUTER DATA AND MULTICHANNEL TELETYPEWRITER. IT IS DESIGNED TO BE MOUNTED IN A 19 INCH RACK AND CONSISTS OF THE DRAWER ASSEMBLIES FROM THE KG-3 AND KG-12 EQUIPMENTS INSERTED INTO AN OVERALL DUST COVER. THE FULL DUPLEX EQUIPMENT CONSISTS OF 3 IDENTICAL KEY GENERATORS, TWO SYNCHRONIZERS, AN ALARM ASSEMBLY, AND TWO POWER SUPPLIES. IT IS DESIGNED TO OPERATE OVER A FREQUENCY RANGE OF 0 TO 100,000 CYCLES PER SECOND IN AN AMBIENT TEMPERATURE OF -55°C TO +65°C. THE TRANSMISSION MEDIUM IS HF/VHF/UHF RADIO OR WIRELINE. THE KG-13 WILL BE USED IN CONJUNCTION WITH THE HY-2 VOCODER AND APPROPRIATE ANCILLARY EQUIPMENT TO PROVIDE A HIGH QUALITY LONG HAUL SECURE VOICE SYSTEM WHICH WILL BE EXTENDED TO LOCAL SUBSCRIBERS BY MEANS OF THE KY-3 EQUIPMENT. (SEE HY-2 AND KY-3 SECTIONS).														
STATUS	2 KG-13's ARE SCHEDULED TO UNDERGO A 90 DAY TECHNICAL EVALUATION BY BUSHIPS DURING THE 1ST QUARTER OF FY 1963,														
TRAINING	TRAINING WILL BE CONDUCTED BY THE AIR FORCE AT LACKLAND AFB. RETURNABLE QUOTAS ARE AVAILABLE FROM BUPERS. NAVY MAY ESTABLISH TRAINING DEPENDENT UPON TOTAL NUMBER OF EQUIPMENTS PROCURED BY THE NAVY.														
CRYPTOSYSTEM	PONTUS														
CLASSIFICATION	EQUIPMENT: CONFIDENTIAL-CRYPTO (EXTERNAL VIEWING - NO CLEARANCE REQUIRED) KEYING MATERIAL: SECRET-CRYPTO TRAFFIC: ALL CLASSIFICATIONS. (FOR TOP SECRET AND SPECIAL CATEGORY TRAFFIC CSPM 1C, 1-50 REFERS)														
PUBLICATIONS	MAINTENANCE: KAM-138 (CONFIDENTIAL-CRYPTO) OPERATING: NONE PRESENTLY ASSIGNED														
PROCUREMENT (COST IN THOUSANDS)	UNIT COST	PAST		FY 1963		FY 1964		FY 1965		FY 1966		FUTURE		TOTAL	
	\$11,520	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
						104	1,198	61	703	159	1,832	551	6347	875	10,080
PHYSICAL CHARACTERISTICS	HEIGHT	WIDTH		DEPTH		WEIGHT		VOLTAGE		POWER		REMARKS			
	35 IN.	19 IN.		23 IN.		255 LBS.		115 (45-65 CPS)		322 WATTS		DRAWERS ARE SLIDE MOUNTED TO FACILITATE MAINTENANCE.			
	NOTE: THE KG-13 IS A FULL-DUPLEX KEY GENERATOR AND IS COMPLETELY COMPATIBLE WITH THE KG-3 (TRANSMITTER) AND THE KG-12 (RECEIVE ONLY). NO PROCUREMENT OF KG-3 OR KG-12 EQUIPMENTS IS PLANNED BY THE NAVY AS ALL REQUIREMENTS FOR PONTUS CRYPTO EQUIPMENT WILL BE FILLED WITH KG-13 EQUIPMENT.														

COMBINED SHORT AND LONG HAUL VOICE SYSTEMS

CSP 6620A

CONFIDENTIAL



CONFIDENTIAL

ORIGINAL

LOCATION	QTY PLAND	NUMBER INSTL'D	PLANNED INSTL'D QUARTER				FY	INSTLN NOT SCHED	REQUIREMENT FILLED
			1	2	3	4			
SHIPS	66								
MOBILE NAVCOMMSTAs	24								
AFLOAT NAVCOMMSTAs	8								
COMINLANT	1								
COMINPAC	1								
COMFAIRs	9								
COMAEWINGLANT	1								
COMFAIRWINGs	2								
NAS/NAF	2								
CINCPAC REP MARBO	1								
AJCC	2								
COMASDEFORs	2								
FOCCs	6								
COMBARPAC	1								
OP-922Y1	1								
COMPHIBLANT	1								
COMNAVDEFEASTPAC	1								
MARDIVs	3								
MAWs	3								
FORTRPSs	2								
MARCORPSSUPACT/CENs	3								
MARCORPS SCHOOLS QUANTICO	1								
MARCORPSRECDEPs	2								
MART, NAS GLENVIEW	1								
MCAAS YUMA	1								
SUBTOTAL	145								

POINT-TO-POINT COMMAND AND CONTROL LONG HAUL VOICE

TSEC/KG-13: PLANNED DISTRIBUTION (CONT)

SECRET

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LOCATION	QTY PLAND	NUMBER INSTL'D	PLANNED INSTL'D QUARTER				FY	INSTL'N NOT SCHED	REQUIREMENT FILLED
			1	2	3	4			
COMCARIBSEAFRON	1							<i>POINT-TO-POINT COMMAND AND CONTROL LONG HAUL VOICE</i>	
GMOCU	1								
COMNAVFORs	5								
DEPCOMSUBLANT	1								
SEAFRONs	6								
PMR	1								
COMBARLANT	1								
CINCUSNAVEUR	3								
FAIRECONRON 2	1								
NAVCOMMSTAs	18								
TRAINING	6								
SPARES/UNASSIGNED RESERVE	25								
NAVIC	28								<i>POINT-TO-POINT DATA OVER WIRE AND RADIO CIRCUITS</i>
FOCCs	98								
FOCCs (TRANSPORTABLE)	48								
CC	8								
CINCPACFLT	14								
CINCLANTFLT	14								
CINCUSNAVEUR	14								
FWCs/FWFs	30							<i>POINT-TO-POINT FACSIMILE</i>	
NAVCOMMSTAs	17								
NSG	8							NSG LONG HAUL POINT-TO-POINT VOICE COMMUNICATIONS	
SUBTOTAL	348								

SECRET

TSEC/KG-13: PLANNED DISTRIBUTION (CONT)

SECRET

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LOCATION	QTY PLAND	NUMBER INSTL'D	PLANNED INSTL'D QUARTER				FY	INSTLN NOT SCHED	REQUIREMENT FILLED
			1	2	3	4			
NAVCOMMSTA _s	59								
TUSLOG DET 28	3								
NAVSTA _s	4								
PMR	3								
CANBERRA	1								
MAURITIUS ISLAND	1								
NAVSUPACT NAPLES	1								
NAVCOMMSTA _s	142								
NAVSTA _s	8								
TUSLOG DET 28	6								
MAURITIUS ISLAND	2								
PMR	6								
CANBERRA	2								
NAVSUPACT NAPLES	2								
SCAN	124							POINT-TO-POINT MULTI-CHANNEL TELETYPEWRITER (DCS)	
MAJOR NAVAL SUPPLY ACTIVITIES	18							POINT-TO-POINT DATA OVER WIRE CIRCUITS (DCS)	
TOTAL	875								

POINT-TO-POINT VOICE OVER RADIO CIRCUITS (DCS)

POINT-TO-POINT MULTI-CHANNEL TELETYPEWRITER (DCS)

SECRET