



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, DC 20380-0001

MCO 2040.13
C2CT
26 Oct 90

MARINE CORPS ORDER 2040.13

From: Commandant of the Marine Corps
To: Distribution List

Subj: MATERIEL FIELDING PLAN FOR THE LOOP KEY GENERATOR,
TSEC/KG-82

Encl: (1) Materiel Fielding Plan for the Loop Key Generator,
TSEC/KG-82

1. Purpose. To provide advance logistics information and instructions concerning the fielding and support of the Loop Key Generator, TSEC/KG-82 (hereinafter referred to as KG-82).
2. Information. In the Marine Corps, the KG-82 is used exclusively in the AN/TTC-42(V) Central Office, Telephone, Automatic (hereinafter referred to as AN/TTC-42).
3. Action. All required actions are discussed in the enclosure.
4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

A handwritten signature in black ink, appearing to read "R. A. Tiebout", is positioned above the typed name.

R. A. TIEBOUT
By direction

DISTRIBUTION: PCN 10202712900

Copy to: 7000110 (55)
8145004, 005 (2)
7000041, 144/8145001 (1)

MATERIEL FIELDING PLAN FOR THE LOOP KEY GENERATOR, TSEC/KG-82

1. Introduction

a. Source of Requirement. Joint Operational Requirement for Tactical Unit Level Switches; Joint Chiefs of Staff Memorandum SM-475-74 dated 10 September 1974. The KG-82 fielding is in support of the TRI-TAC Communications Security (COMSEC) equipment effort for circuit switches and message switches.

b. Points of Contact

<u>TITLE</u>	<u>NAME</u>	<u>COMMAND</u>	<u>TELEPHONE</u>
Equipment Sponsor	Major H.G. Smith	HQMC (CCT)	AV 223-3138 Coml (703) 693-3138
Project Officer	MGySgt L.W. Conklin	MCRDAC (C2CT)	AV 278-5845 Coml (703) 640-5845
Program Manager	Mr. J. Stewart	NSA (V222)	AV 235-0111 ext. 859-6496 Coml (301) 859-6496
Acquisition Manager	Mr. K. Porter	SPAWAR (PMW 151-21D)	AV 332-7451 Coml (703) 602-7451
Equipment Specialist	Mr. P Stewart	NESSEC (0231)	AV 292-0325 Coml (202) 282-0325
Equipment & Resources Dept. Head	Mr. J. Miller	DCMS (T60)	AV 292-0695 Coml (202) 282-0695

c. Fielding Methodology

(1) General Fielding Plan

(a) The KG-82 is used within the AN/TTC-42 (V) Central Office, Telephone, Automatic, TAMCN A0248, NSN 5805-01-188-3993. Organizations will receive their AN/TTC-42 systems with the KG-82's already installed by the AN/TTC-42 production contractor, ITT Defense Communications Division, Nutley, N.J. There are 16 KG-82's installed in each AN/TTC-42.

(b) End item exchange pool assets will be provided to the Operational Readiness Float (ORF) established at the Force Service Support Group (FSSG) within each Marine Expeditionary Force (MEF) and at the Brigade Service Support Group (BSSG) within the 1st Marine Expeditionary Brigade (MEB). These assets will be reflected under the respective ORF table of equipment (T/E) but will be controlled by the respective

Force Logistic Support Cryptographic Facility (FLSCF) within the FSSG and the Support Cryptographic Site (SCS) within the BSSG as per MCO P4400.150C.

(c) KG-82's will also be provided to the SCS's and FLSCF's listed in Appendix A, paragraph 2b, for use with the TSEC/ST-34 Intermediate Level Test Set.

(2) Method of Fielding. The KG-82 exchange pool assets for the ORF's and the KG-82's required by the intermediate maintenance organizations for testing and maintenance purpose will be fielded horizontally to mirror the fielding of the AN/TTC-42 as much as possible. The KG-82's will be force-fed by the Director, COMSEC Material System (DCMS), as directed by the Commandant of the Marine Corps (CMC) (CCT). DCMS will also ship to the contractor, ITT, to provide the Government furnished equipment (GFE) for contractor installation into the AN/TTC-42. Appendix A, paragraph 1 shows the T/E allowances and paragraph 2 of Appendix A gives the delivery schedule for the KG-82.

d. Replaced Systems/Equipment. The KG-82 will not replace any currently fielded communication security equipment.

2. System Description. The KG-82 is a pluggable self-contained unit with a rack-to-panel connector to interface with a TSEC/KGX-93 Automatic Key Distribution Center (AKDC) when both are housed in the HGF-93 Transition Unit Nest Assembly (TUNA) within the AN/TTC-42. Up to eight KG-82's can operate with one TSEC/KGX-93 in this configuration. The KG-82's cryptovisible fill function, cryptovisible storage power, operating voltages, clock generation and power distribution are provided by the TSEC/KGX-93.

a. Administrative Information

(1) Nomenclature: Loop Key Generator, TSEC/KG-82

(2) TAMCN: A8059 VII G

(3) SAC: 3

(4) NSN: 5810-01-082-8403

(5) Unit of Issue: EA

(6) Unit Cost: \$1477.77

(7) Support Cost (per KG-82 annually): There are no direct operator or maintenance costs to the owning organization to support the KG-82.

(8) Equipment Density: Normal

ENCLOSURE (1)

(9) Readiness Reporting: No

(10) ID Number: 10029A

(11) Petroleum, Oil, Lubricants (POL): Not applicable.

b. Physical Characteristics. All dimensions given are for the operational configuration. The KG-82 does not come with a transit case but is packaged for shipment in individual cartons. The cartons, innerblocking and fillers should be saved for future shipping or storage of the KG-82.

(1) Length: 17 inches

(2) Width: 1 inch

(3) Height: 9 inches

(4) Sq.Ft.: .12

(5) Cu.Ft.: .09

(6) Weight: 4.0 lbs.

(7) Stowage: .12 sq.ft. / .09 cu.ft.

(8) Power Requirements: Required power is provided to the installed KG-82 by its host equipment, the AN/TTC-42 via the TSEC/KGX-93.

c. Operational Characteristics. The KG-82, housed in an HGF-93 with a host TSEC/KGX-93, operates as part of the AN/TTC-42 Central Office, Telephone, Automatic. The KG-82 is used to provide full duplex encryption and decryption of signaling and traffic received from a TSEC/KY-68 Digital Subscriber Voice Terminal (DSVT), TSEC/KG-84 () General Purpose Encryption Equipment or another KG-82. It also performs the following functions:

(1) Provides loop encryption interface for subscribers to the AN/TTC-42.

(2) In circuit switch operation, is normally used in pooled service (connected to a subscriber loop only as needed).

(3) Uses a number of in-band start-up and return to stand-by features to provide secure digital voice communications with subscriber terminals such as the TSEC/KY-68.

(4) Can provide the encryption interface for circuit switch to message switch module trunks.

ENCLOSURE (1)

d. Associated Systems/Equipment

(1) TSEC/KGX-93 Automatic Key Distribution Center (AKDC), TAMCN A8069, NSN 5810-01-212-8128. Provides the cryptovisible fill function, cryptovisible storage power, operating voltages, clock generation and power distribution for the KG-82.

(2) HGF-93 Transition Unit Nest Assembly (TUNA), NSN 5810-01-212-8129. The HGF-93 is a frame/rack within the AN/TTC-42 used to house as many as eight KG-82's and one TSEC/KGX-93. There are two HGF-93's per AN/TTC-42.

(3) The KG-82 is employed in the AN/TTC-42(V) Central Office, Telephone, Automatic, TAMCN A0248, NSN 5805-01-188-3993. A quantity of 16 KG-82's are employed in each AN/TTC-42.

3. Logistic Support

a. Maintenance Support

(1) Organizational Maintenance

(a) First echelon. When installed in the AN/TTC-42, first echelon maintenance of the KG-82 is performed by the AN/TTC-42 Operator/Maintainer or the AN/TTC-42 Call Service Attendant (CSA) under the supervision of the Operator/Maintainer. First echelon maintenance will be preventive in nature to include the cleaning, inspecting and operational testing of the KG-82.

(b) Second echelon. Second echelon maintenance of the KG-82 is performed by the AN/TTC-42 Operator/Maintainer, or the AN/TTC-42 intermediate maintainer for more difficult problems. Second echelon maintenance of the KG-82 consists of using the AN/TTC-42 Operator/Maintainer Console and front panel to verify a fault, removal and replacement of the entire KG-82, and evacuation of the KG-82. Defective KG-82's will be evacuated, as per MCO P4790.2B, CMS-4L, TM 4700-15/1F and UM-4790-5 to the supporting SCS or FLSCF, as appropriate, for corrective maintenance.

(2) Intermediate Maintenance. Intermediate level maintenance (third and fourth echelon) on the KG-82 will be limited to testing the KG-82 with the TSEC/ST-34 Test Set to determine if it is defective. If found to be defective, the entire KG-82 will be evacuated through the BSSG-1 SCS or the FLSCF to the Navy Cryptographic Repair Facility (CRF) at the Naval Electronic Systems Engineering Center, San Diego, CA or Naval Shipyard, Norfolk, VA per CMS-4L. There will be no Printed Wiring Assembly (PWA) Spares Kits (RGQ's) for the KG-82, as removal and replacement or repair of the printed wiring assembly is not authorized at the intermediate level. Intermediate level maintenance on the KG-82 will be performed by

ENCLOSURE (1)

formally trained COMSEC technicians at the SCS's and FLSCF's listed below:

<u>T/E NO</u>	<u>UNIT TITLE</u>
7434	COS, T&E, MCCDC ¹
7442	MCTSSA
7720	MCCES Twentynine Palms ¹
B3331	MaintCo, BSSG-1, 1stMEB
B4032	CommCo, CommBn, BSSG-1
N1015	CommCo, HqBn, 1st MarDiv
N1025	CommCo, HqBn, 2d MarDiv
N1035	CommCo, HqBn, 3d MarDiv
N1045	CommCo, HqBn, 4th MarDiv
N3132	ELMACO, MaintBn, 1stFSSG
N3232	ELMACO, MaintBn, 2dFSSG
N3332	ELMACO, MaintBn, 3dFSSG
N3432	ELMACO, MaintBn, 4thFSSG
N4034	CommSptCo, CommBn, 3dMEF
N4041	HqCo, CommBn, 4th MEF
N4684	CommSptCo, CommBn, 1stSRI
N4784	CommSptCo, CommBn, 2dSRI
N8612	MWCS, MACG, 4th MAW
N8652	Det, MWCS, MACG, MAW

(a) The BSSG-1 SCS and the FLSCF's will maintain exchange pool assets. Exchange pool assets are, in this case, serviceable KG-82 end items which are available as replacement items for defective KG-82's.

(b) Exchange pool assets will be managed and operated similar to the ORF (MCO P4400.150C refers) and per CMS-4L. Specific guidance is the responsibility of the FMF commanders since they hold the equipment and are best aware of the operational requirements they support. To ensure that adequate stocks of KG-82's are maintained in the exchange pool, the following procedures apply:

1 When the ORF assets are awaiting repair action at the CRF, the maintenance officer may request status of the repair action via naval message to the respective CRF with information copies to NAVEXSECCEN Washington, DC (240) and the DCMS (T60). If the response indicates that the estimated delivery date (EDD) from the CRF is greater than 180 days or the KG-82 has been at the CRF for more than 180 days, request assistance from the DCMS (T60) via naval message. In the message include the equipment short title (nomenclature as shown in CMS records), serial number and owning unit. This procedure is not mandatory but can be used at the discretion of the maintenance officer.

¹ COS and MCCES are receiving KG-82's because they will be repairing the TSEC/KY-68 when it is fielded in the future and KG-82's will be necessary for troubleshooting the TSEC/KY-68, as will the TSEC/ST-34.

ENCLOSURE (1)

2 When the CRF has determined that the KG-82 is not repairable, the FLSCF/BSSG-1 SCS maintenance officer should request disposition instructions and a replacement from the DCMS (T60) via naval message. This message should include the equipment short title, serial number and owning unit.

(3) Depot Maintenance. Depot level maintenance will be performed at the Naval Electronic Systems Engineering Center, San Diego, CA and Naval Shipyard, Norfolk, VA (Cryptographic Repair Facilities).

b. Contractor Support Requirements

(1) Depot Support. None.

(2) Interim Contractor Support (ICS). None.

c. Manpower, Personnel and Training

(1) Personnel Requirements. No additional personnel or manpower requirements are anticipated.

(a) Operator (first echelon). A specific Military Occupational Specialty (MOS) will not be designated solely for the KG-82 operator. Those personnel designated to operate and maintain the AN/TTC-42, MOS 2512 (Call Service Attendant) and MOS 2515 (AN/TTC-42 Operator/Maintainer), will assume responsibility for operating the KG-82.

(b) Maintenance

1 Second Echelon. This level of maintenance for the KG-82 is shared, as discussed in the preceding paragraph 3a(1) (b), by the AN/TTC-42 Operator/Maintainer, MOS 2515, and intermediate maintainer, MOS 2822, Electronic Switching Equipment Technician.

2 Intermediate Maintenance. Maintenance personnel with MOS 2881 (COMSEC Equipment Technician) who have graduated from an approved KG-82 maintenance training course, as evidenced by proper certification on their DD Form 1435, located at the SCS's and FLCSEF's shown in the preceding paragraph 3a(2), will perform intermediate maintenance on the KG-82 as described in paragraph 3a(2) preceding.

(c) The annual organizational and intermediate maintenance manpower requirements are:

1 Organizational is .0225 man-hours per KG-82.

2 Intermediate is .045 man-hours per KG-82.

ENCLOSURE (1)

3 The following figures were used to derive the above computations:

a Estimated hours of operation per month = 150.

b Predicted mean time between failures = 20K hrs.

c Mean time to repair (MTTR) = Organizational is specified at 15 minutes and intermediate is specified at 15 minutes and intermediate is specified at 30 minutes.

(2) Training Requirements

(a) Operator Training

1 Formal Training. There is no specific MOS designated for the KG-82 operator. The KG-82 has application to the operator and maintainer MOS's associated with AN/TTC-42. Formal operator training will be limited to orientation and familiarization with the KG-82, to include removal and replacement, during the AN/TTC-42 training at Keesler Air Force Base (AFB), MS for MOS 2512 (AN/TTC-42 Call Service Attendant; course number E3AZR49151-007); MOS 2515 (AN/TTC-42 Operator/Maintainer; course number E3AZR49151-006); and MOS 2822 (Electronic Switching Equipment Technician; course number E3AZR30554-020 for the AN/TTC-42 intermediate maintainer).

2 Unit Training. Operator training at the unit level will consist of on-the-job training using the individual training standards (when published) and the operator's manuals available to each unit receiving the KG-82. Each command will be responsible for maintaining an adequate level of qualified operator personnel.

(b) Maintenance Training

1 Formal Training. Intermediate maintenance training for the KG-82 is currently being taught at the U.S. Army Signal School, Ft. Gordon, GA for MOS 2881 (COMSEC Maintenance Technician; course number 160-29-S10, Limited COMSEC Maintenance Course). A new course, TRI-TAC COMSEC Limited Maintenance Course (course number 160-F21), will commence during the first quarter of FY 91.

2 Unit Training. On-the-job training will supplement and reinforce the formal training received by maintenance personnel. Each command will be responsible for maintaining the proficiency and certification of their maintenance personnel.

(3) Training Support Items. There are no new training support items required.

d. Supply Support. There is no requirement for spare parts supply support to Marine Corps units since repair below the Navy depot level is not authorized. ORF end item exchange pool assets will be available as discussed in paragraphs 1c and 3a(2) of this Order.

e. Support Equipment

(1) Special Tools. There are no special tools required at the organizational or intermediate maintenance levels to maintain the KG-82.

(2) Common Tools

(a) Organizational Maintenance. None.

(b) Intermediate Maintenance

<u>TAMCN</u>	<u>Nomenclature</u>
H7920	Tool Kit, Electronic Maintenance MK-2569/P

(3) Special Purpose Test Equipment

(a) Organizational Maintenance. None.

(b) Intermediate Maintenance

<u>TAMCN</u>	<u>Nomenclature</u>
A8094	TSEC/ST-34 Intermediate Level Test Set

(4) General Purpose Test Equipment. There is no general purpose test equipment required at the organizational or intermediate maintenance levels.

(5) Test Program Sets. None.

(6) Other Support Equipment

(a) Organizational Maintenance. None.

(b) Intermediate Maintenance. Requires the use of a known good KG-82 for testing purpose with the TSEC/ST-34.

f. Technical Publications

<u>TECH PUB NUMBER</u>	<u>PUB TITLE</u>	<u>PCN</u>
TM 11-5810-330-13 with change 1	Operator's, Organizational and Direct Support Maintenance Manual for Loop Key Generator TSEC/KG-82	351 585823 00

TM 11-5810-330-34P	Repair Parts and Special Tool List for TSEC/KG-82	351 585824 00
KAO-193A/TSEC	KG-82 Operator's Manual (Confidential)	N/A
KAM-395A/TSEC	KG-82 Limited Maintenance Manual (Confidential)	N/A
KAM-396A/TSEC	KG-82 Depot Maintenance Manual (Secret)	N/A
TM 11-5810-333-13	Operator's, Organizational and Direct Support Maintenance Manual for Test Set TSEC/ST-34	351 585827 00
TM 11-5810-333-34P	Direct Support and General Repair Parts Lists for Test Set TSEC/ST-34	351 585828 00
SAM 67B	Operational/Limited Maintenance Manual for Test Set TSEC/ST-34 (FOUO)	N/A
SAM 68A	Full Maintenance Manual for Test Set TSEC/ST-34 (FOUO)	N/A

(1) The KAM's, KAO and SAM's are obtained through the DCMS per CMS-4L.

(2) The technical manuals (TM) will be force-fed initially. Planned initial distribution of the technical manuals (TM's) will be as follows:

(a) Those organizations listed in Appendix A, paragraph 1 that are receiving the AN/TTC-42, except the ORF's and the MCLB's, will receive one TM 11-5810-330-13 per each AN/TTC-42 on their T/E.

(b) Those organizations listed below will be performing DS maintenance on the KG-82. They will receive TM 11-5810-330-13, TM 11-5810-330-34P, TM 11-5810-333-13 and TM 11-5810-333-34P. The quantity shown is the same for each TM.

<u>T/E NO</u>	<u>UNIT TITLE</u>	<u>QTY</u>
7434	COS, T&E, MCCDC	1
7442	MCTSSA	1
7720	MCCES Twentynine Palms	2
B3331	MaintCo, BSSG-1, 1stMEB	2
B4032	CommCo, CommBn, BSSG-1	1
N1015	CommCo, HqBn, 1stMarDiv	1
N1025	CommCo, HqBn, 2dMarDiv	1
N1035	CommCo, HqBn, 3dMarDiv	1
N1045	CommCo, HqBn, 4thMarDiv	1
N3132	ELMACO, MaintBn, 1stFSSG	4
N3232	ELMACO, MaintBn, 2dFSSG	4
N3332	ELMACO, MaintBn, 3dFSSG	4
N3432	ELMACO, MaintBn, 4thFSSG	4

ENCLOSURE (1)

N4034	CommSptCo, CommBn, 3dMEF	2
N4041	HqCo, CommBn, 4th MEF	1
N4684	CommSptCo, CommBn, 1stSRI	2
N4784	CommSptCo, CommBn, 2dSRI	2
N8612	MWCS, MACG, 4th MAW	2
N8652	Det, MWCS, MACG, MAW	1

(c) Organizations that require additional or replacement TM's can requisition additional TM's per MCO P4400.84C.

g. Computer Resources Support. The National Security Agency (NSA) is responsible for lifecycle software configuration management and support.

h. Facilities. No new facilities are required.

i. Packaging, Handling, Storage and Transportation

(1) Classification and Accountability

(a) Classification. KG-82's have been designated as Controlled Cryptographic Items (CCI). CCI's are unclassified but remain under the control of the DCMS for central accounting purposes.

(b) Accountability. KG-82's are assigned accountability legend code AL-5 in the CMS. They are accounted for to the DCMS by serial number as per CMS-4L.

(2) Packaging. Packaging of the KG-82 will be in accordance with MIL-E-17555, level "A" packaging.

(3) Handling. A security clearance is not required for viewing of, or access to, CCI's. However, access shall be restricted to U.S. citizens whose duties require such access. Access may also be granted to permanently admitted resident aliens, who are either U.S. Government civilian employees, active duty military or Reserve members of the U.S. Armed Forces, whose duties require access.

(4) Storage. KG-82's must be stored in a manner that affords a level of protection at least equal to that normally provided to high value or sensitive material. Classified keying materials and classified supporting documents must be stored per the procedures outlined in CSP-1A.

(5) Transportation. A completed SF-153 (COMSEC Material Report) must accompany each item during any transfer of KG-82 equipment. CCI material will be conspicuously marked with large letters, "CCI", on the outside container and shipping documents must contain instructions for delivery of the material to the COMSEC custodian. Inside containers will be marked for shipment with the statement "Deliver unopened to COMSEC custodian." Shipment of CCI material must always be made

ENCLOSURE (1)

26 Oct 90

with a DD-1149 (Requisition and Invoice/Shipping Document) attached to the outside container. Each DD-1149 will be conspicuously marked "Request ship via Department of Defense Constant Surveillance Service only" (CSP-1A refers). The requirement to zeroize COMSEC equipment prior to shipment is satisfied since the KG-82 zeroizes when it is removed from it's power source. Keying material will be shipped separately from it's COMSEC equipment. CCI's must be transported by any means that provides continuous accountability and protection against losses and unauthorized access while in transit. These criteria are satisfied by any of the following:

(a) Authorized department, service, or agency courier (officially designated command couriers).

(b) Authorized contractor/company, U.S. citizen, courier.

(c) U.S. registered mail, provided it does not at any time pass out of U.S. control and does not pass through a foreign postal system or any foreign inspector.

(d) Commercial carriers, providing Department of Defense Constant Surveillance Service (DoD CSS), in the continental United States (CONUS) only. Information concerning DoD CSS may be obtained from the supporting Traffic Management Office (TMO).

(e) U.S. military or military-contractor air service (e.g., MAC, LOGAIR, QUICKTRANS), provided the requirements for DoD CSS are observed.

(f) U.S. Diplomatic Courier Service. Provides only emergency or last resort CCI transport within CONUS.

(g) Defense Courier Service; authorized only for shipments outside of CONUS when no other means of secure transportation is available.

(h) Foreign nationals who are employed by the U.S. Government in foreign countries where there is a significant U.S. military presence (two or more military bases where U.S. military personnel are stationed) may transport CCI's provided there is a signature record that provides continuous accountability for custody of the shipment from pick-up to ultimate destination; and,

1 There is a constant U.S. presence (e.g., a U.S. person [U.S. citizen or permanently admitted resident aliens, who are either U.S. Government civilian employees, active duty military or Reserve members of the U.S. Armed Forces] accompanies a foreign driver in delivering the material); or,

ENCLOSURE (1)

2 The material is contained in a closed vehicle or shipping container (e.g., conex, dromedary) which is locked, and which has a shipping seal that will prevent undetected access to the enclosed material.

j. Warranties. None.

4. Actions Required To Place Equipment In Service

a. Gaining Command

(1) Actions To Place Item In Service. Upon receipt, the KG-82 should be placed on administrative deadline until the CG Fleet Marine Force (FMF) Pacific, CG FMF Atlantic or 4th Division/Wing Team Commanders have given authorization to place the equipment in service as per MCO P4400.79.

(2) Material Defects Reporting. Report defective KG-82's per CMS-4L and MCO P4855.10A.

(3) Retrograde of Existing Equipment. N/A.

(4) Security Required for the KG-82. Security is discussed in paragraph 3i of this Order and in CMS-4L and CSP-1A.

(5) Controlled Item Reporting. KG-82's are CCI's and are assigned accountability legend code AL-5 in the Communications Security Material System (CMS). As such, they are controlled by the DCMS and are reported by serial number to the DCMS per CMS-4L. Additionally, owning units must report on hand quantities in the Marine Corps Supply System per MCO P4400.150C and MCO P4400.82F.

b. Commander, Marine Corps Logistics Bases, Albany, GA. None.

ENCLOSURE (1)

LIST OF ALLOWANCES AND DELIVERY SCHEDULE

1. Allowances. The total KG-82 T/E allowances for all organizations are as follows:

<u>T/E NO</u>	<u>UNIT TITLE</u>	<u>UNIT ALLOW</u>	<u>ACTUAL ALLOW</u>
7011	MCLB Barstow	32	32
7014	MCLB Albany	144	144
7434	CommOffSch T&E MCCDC	2	2
7442	MCTSSA	34	34
7720	MCCES Twentynine Palms	4	4
B3331	MaintCo BSSG-1 1stMEB	4	4
B4032	Comm Co, BSSG-1, 1stMEB	18	18
H4022	Det, CommCo, CommBn/MPS 1	16	16
I4022	Det, CommCo, CommBn/MPS 2	16	16
J4022	Det, CommCo, CommBn/MPS 3	16	16
M4001	ORF, 1st FSSG	46	46
M4002	ORF, 2d FSSG	46	46
M4003	ORF, 3d FSSG	39	39
M4004	ORF, 4th FSSG	46	46
M4006	ORF, BSSG-1 1stMEB	7	7
N1015	CommCo, HqBn, 1st MarDiv	34	34
N1025	CommCo, HqBn, 2d MarDiv	34	34
N1035	CommCo, HqBn, 3d MarDiv	34	34
N1045	CommCo, HqBn, 4th MarDiv	34	34
N3113	CommCo, H&S Bn, 1st FSSG	48	48
N3132	ELMACO, MaintBn, 1stFSSG	8	8
N3213	CommCo, H&S Bn, 2d FSSG	48	48
N3232	ELMACO, MaintBn, 2dFSSG	8	8
N3313	CommCo, H&S Bn, 3d FSSG	48	48
N3332	ELMACO, MaintBn, 3dFSSG	8	8
N3413	CommCo, H&S Bn, 4th FSSG	48	48
N3432	ELMACO, MaintBn, 4thFSSG	8	8
N4032	CommCo, CommBn, 3d MEF	16	16
N4034	CommSptCo, CommBn, 3d MEF	20	20
N4041	HqCo, CommBn, 4thMEF	2	2
N4042	CommCo, CommBn, 4th MEF	16	16
N4043	LongLinesCo, CommBn, 4th MEF	16	16
N4044	CommSptCo, CommBn, 4th MEF	16	16
N4684	CommSptCo, CommBn, 1st SRI	20	20
N4685	CommCo, CommBn, 1st SRI	16	32
N4784	CommSptCo, CommBn, 2d SRI	20	20
N4785	CommCo, CommBn, 2d SRI	16	32
N8612	MWCS, 4th MAW	52	52
N8651	HQ, MWCS, MAW	48	144
N8652	Det, MWCS, MACG, MAW	2	12

2. Delivery Schedule. The delivery schedule for the KG-82 is as follows:

a. For organizations receiving the AN/TTC-42, the delivery schedule of their KG-82's will be the same as the delivery of their AN/TTC-42's since their KG-82's will already be installed in the AN/TTC-42 (16 KG-82's per AN/TTC-42).

b. The planned delivery schedule and deliverable quantity of all other KG-82's (non-installed KG-82's designated for the ORF exchange pool assets and for the maintenance units) is shown below. The quantity shown below is not in addition to the T/E allowances in paragraph 1 above but only the portion of that T/E allowance which is not installed in a AN/TTC-42.

T/E NO	UNIT TITLE	QTY	PLANNED FY90QTR				PLANNED FY91QTR			
			1	2	3	4	1	2	3	4
7434	COS, T&E, MCCDC ¹	2					X			
7442	MCTSSA	2							X	
7720	MCCES Twentynine Palms ¹	4			X					
B3331	MaintCo, BSSG-1, 1stMEB	4						X		
B4032	CommCo, CommBn, BSSG-1	2						X		
M4001	ORF, 1st FSSG	30					X			
M4002	ORF, 2d FSSG	30						X		
M4003	ORF, 3d FSSG	23							X	
M4004	ORF, 4th FSSG	30								X
M4006	ORF, BSSG-1, 1st MEB	7							X	
N1015	CommCo, HqBn, 1st MarDiv	2					X			
N1025	CommCo, HqBn, 2d MarDiv	2					X			
N1035	CommCo, HqBn, 3d MarDiv	2						X		
N1045	CommCo, HqBn, 4th MarDiv	2								X
N3132	ELMACO, MaintBn, 1stFSSG	8			X					
N3232	ELMACO, MaintBn, 2dFSSG	8			X					
N3332	ELMACO, MaintBn, 3dFSSG	8					X			
N3432	ELMACO, MaintBn, 4thFSSG	8								X
N4034	CommSptCo, CommBn, 3dMEF	4						X		
N4041	HqCo, CommBn, 4th MEF	2								X
N4684	CommSptCo, CommBn, 1stSRI	4			X					
N4784	CommSptCo, CommBn, 2dSRI	4					X			
N8612	MWCS, MACG, 4th MAW	4								X
N8652	Det, MWCS, MACG, MAW	2						X		

¹ COS and MCCES are receiving KG-82's because they will be repairing the TSEC/KY-68 when it is fielded in the future and KG-82's will be necessary for troubleshooting the TSEC/KY-68, as will the TSEC/ST-34.

SCHEDULE OF EVENTS

The following is the schedule for the major program events yet to occur.

<u>EVENT</u>	<u>FY</u>	<u>OTR</u>
Materiel Fielding Plan published:	90	4
Equipment fielding begins:	90	2
Initial Operating Capability (IOC):	90	2
Final Operating Capability (FOC):	92	4
Publications, Ready for Issue:		
KAO, KAM's, and SAM's	NOW	
Technical Manuals	90	4

Appendix B to
ENCLOSURE (1)

SHORTAGES

TSEC/ST-34. It is anticipated that the TSEC/ST-34 will not be completely fielded to all required organizations until June 1992. In the interim, personnel troubleshooting the AN/TTC-42 to determine if there is a defective KG-82, should take extra care in their troubleshooting procedures to ensure confidence that the KG-82 which they are evacuating to the SCS or FLSCF is indeed defective. SCS's receiving the defective KG-82, who have not yet received their TSEC/ST-34, should further evacuate the KG-82 per paragraph 3a of this Order.

Appendix C to
ENCLOSURE (1)

C-1

DISTRIBUTION SCHEDULE FOR INSTALLATION or MODIFICATION KITS

There are no installation or modification kits applicable to the fielding of the KG-82.

Appendix D to
ENCLOSURE (1)

DISTRIBUTION SCHEDULE FOR SPECIAL PURPOSE TEST EQUIPMENT

TSEC/ST-34 INTERMEDIATE LEVEL TEST SET, (TAMCN A8094)

1. The TSEC/ST-34 is not exclusively used for the testing of the KG-82, but is applicable to several of the TRI-TAC COMSEC equipments. The distribution schedule for this test set will be covered in detail in a separate MFP on the TSEC/ST-34. For planning purposes, it is anticipated that the organizations listed below will be receiving the TSEC/ST-34 ILTS.

<u>T/E NO</u>	<u>UNIT TITLE</u>	<u>QTY</u>
7434	COS, T&E, MCCDC	1
7442	MCTSSA	1
7720	MCCES Twentynine Palms	2
B3331	MaintCo, BSSG-1, 1stMEB	2
B4032	CommCo, CommBn, BSSG-1	1
M4001	ORF, 1stFSSG	2
M4002	ORF, 2dFSSG	2
M4003	ORF, 3dFSSG	2
M4004	ORF, 4thFSSG	2
N1015	CommCo, HqBn, 1st MarDiv	1
N1025	CommCo, HqBn, 2d MarDiv	1
N1035	CommCo, HqBn, 3d MarDiv	1
N1045	CommCo, HqBn, 4th MarDiv	1
N3132	ELMACO, MaintBn, 1stFSSG	4
N3232	ELMACO, MaintBn, 2dFSSG	4
N3332	ELMACO, MaintBn, 3dFSSG	4
N3432	ELMACO, MaintBn, 4thFSSG	4
N4034	CommSptCo, CommBn, 3dMEF	2
N4041	HqCo, CommBn, 4th MEF	1
N4684	CommSptCo, CommBn, 1stSRI	2
N4784	CommSptCo, CommBn, 2dSRI	2
N8612	MWCS, MACG, 4th MAW	2
N8652	Det, MWCS, MACG, MAW	1

2. The planned publication date for the TSEC/ST-34 MFP is the 2d quarter, FY 91.

Appendix E to
ENCLOSURE (1)

DISTRIBUTION SCHEDULE FOR PROVISIONING PROJECTS

There are no provisioning projects applicable to the KG-82.

Appendix F to
ENCLOSURE (1)