D E P A R T M E N T O F T H E A R M Y S U P P L Y B U L L E T I N

W A T E R - C R A F T

U S A R M Y M A R I N E C O M M U N I C A T I O N

E L E C T R O N I C S

H E A D Q U A R T E R S , D E P A R T M E N T O F T H E A R M Y

FEBRUARY 1976

SUPPLY BULLETIN

No. 11-636

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC. *9 February 1976*

WATER-CRAFT

US ARMY MARINE COMMUNICATION-ELECTRONICS

***This bulletin supersedes the US Army Marine-craft Standard Marine Electronics Configuration Requirements Plan, 21 December 1972.**

LIST OF CHARTS

CHAPTER 1

GENERAL POLICIES

1-1. Purpose. This bulletin prescribes the configuration requirements for management of Marine Communication-Electronics equipment. It provides direction for attaining and maintaining the degree of materiel readiness to meet the functional and operational communication-electronics requirements of Army Water-craft.

1-2. Scope. This bulletin applies world-wide to the activities of the Department of Army having management responsibilities for Water-craft and Marine Communication-Electronics Systems. It pertains to functional requirements, ship-to-ship and ship-to-shore communications system status and navigational system status.

1-3. Policy. The standard marine communication-electrons configuration described in this bulletin is applicable to all Army Water-craft except Operational Project Stock. Procedures for deviation from these standard Marine Communication-Electronics configurations will be in accordance with AR 56-9.

1-4. Application. This bulletin will be used for the following:

a. Determining the basis of issue for equipment and systems not covered by separate TOE and TDA documents.

b. Materiel Management computations.

c. Budget preparation and programming.

d. Procurement and distribution planning.

e Maintenance and support planning.

f. Preparation of detailed model specifications for procurement of new Water-craft.

g. Communication-Electronics retrofit program planning (Product Improvement).

h. Research, development, test, and evaluation planning.

1-5. Content. The following information is contained in this bulletin:

a. Chapter 2 identifies Marine Communication-Electronics functional requirements for Water-craft in the Army inventory.

b. Chapter 3 identifies the equipment/systems currently in being, or planned for availability and utilization in Army Water-craft to satisfy the functional Marine Communication-Electronics stated in chapter 2. Information concerning broad trends in Marine Communication-Electronics developments is included.

c. Chapter 4 prescribes the standard Marine Communication-Electronics equipment/systems authorized for installation (including Complete Provisions (CP)) in each type/model of Army Water-craft either during production or by retrofit. It also contains information on Marine Communication-Electronics configuration by geographical area world-wide. Brief information is presented on new developmental water-craft.

d. Chapter 5 contains details on Marine Communication-Electronics equipment/systems that are installed on Operational Project Stock vessels, but not currently planned to be replaced by retrofit.

1-6. Responsibilities. *a.* The Office of the Deputy Chief of Staff for Operations and Plans has the Army General Staff responsibility for monitoring Army marine communication-electronics, policies, concepts, doctrine, approval of communication-electronics requirements and establishment of priorities of water-craft communication-electronics systems.

b. The Chief of Research, Development and Acquisition has Army General Staff responsibility for monitoring procurement, management of communication-electronics research and development activities, approval of type classification and reclassification as delineated in AR 71-6 and actions. operational testing including development, testing, and product improvement programs.

c. The Deputy Chief of Staff for Logistics has Army General Staff responsibility for logistical planning of communication-electronics items, management of all logistics activities except procurement, and product improvement programs as delineated in AR 70-15.

d. The US Army Training and Doctrine Command (TRADOC) is responsible for establishment of qualitative electronic equipment requirements for Army water-craft. The basic standard electronic configuration requirements for Army water-craft charts shown in this document in chapter 4 represent a compilation of Department of the Army approved water-craft electronics equipment requirements. These charts constitute the basis of issue fr marine electronic equipment.

e. The US Army Materiel Command is

responsible for development, procurement, storage, distribution, configuration management wholesale logistic support, and maintenance of communication-electronics materiel.

f. CONUS and overseas commands are responsible for the implementation of and adherence to this bulletin.

1-7. Explanation of Terms. For the purpose of this bulletin the following terms and definitions apply:

a. Communication-Electronics: Consists of communication, identification, navigation and power supplies.

b. Communication: Radio receivers, transmitters, transceivers, intercommunications, survival radios, portable radios, communication security equipment and teletypewriters.

c. Identification: Identification of friend or foe (IFF).

d. Navigation: Radars, sonar sounding sets, gyro compass, compass magnetic heading system, direction finders, omega receivers, steering and heading repeaters and loran.

e. Tempest: An unclassified short name referring to investigations and studies of compromising emanations. It is sometimes used synonymously for the term "compromising emanations," e.g., tempest test and tempest investigations.

f Harbor Traffic Management: Harbor Traffic Management involves all mattes pertaining to navigation and operation of water-craft within the jurisdictional area of the harbor. Some of the functions include the following:

(1) Control the movement of Army water-craft and the use of assigned berth and anchorage within the port.

(2) Supervise the installation and maintenance of aids to navigation throughout the harbor as required.

(3) Maintain continuous communication capability with all craft in either operation or standby' status.

CHAPTER 2

MARINE COMMUNICATION-

ELECTRONICS FUNCTIONAL REQUIREMENTS

2-1. General. Marine Communication-Electronics for water-craft in the Army inventory is shown in chart 2-1.

2-2. Symbols. *a.* "X" denotes a requirement for that function to be accomplished in connection with the mission of al of that type water-craft. Quantities of two or more are expressed numerically.

b. Complete Provisions (CP) denotes a requirement for that function to be accomplished in connection with the mission of some of the type water-craft. It indicates that complete provisions are to be installed for a specified function in all water-craft of that type. Complete provisions means that wiring, cabling, antenna brackets and equipment brackets (except those which would be a part of the equipment) are installed as appropriate; also provisions are made for quick-change components, shock mount and power. No - alteration to the vessel or the equipment would be required to install the item. CP items are authorized on a TOE/TDA basis based on unit/agency mission assignment.

2-3. Remarks: The following marks are applicable to chart 2-1.

a. Manually tuned HF/SSB radio sets will be replaced by sets which provide automatic tuning and loading of antennas.

b. Intercommunication System: The exact number of stations have not been identified at this time. Upon the completion of design survey revisions to these quantities will be published.

c. Voice Security: The long range goal is to provide securable communications for tactical Army water-craft. Secure equipment will be authorized by TOE. Complete Provisions shall be included when equipment design is finalized. Space, weight and power requirements shall be included when CP is not feasible.

2-4. Queries. Any queries concerning the contents of this bulletin should be directed to US Army Electronics Command, Aviation Electronics Division, Special Items Management Office, ATTN: AMSEL-SI-AE, PO Box 209, St. Louis, MO 63166.

CHART 2-1 MARINE C-E FUNCTIONAL REQUIREMENTS SUMMARY

FUNCTIONAL REQUIREMENTS	LANDING CRAFT					TUG BOAT				AMPHIB LIGHTER			VESSEL, FREIGHT & LIQUID CARGO							PICKET BOAT			CRANE FLOATING		MA. SHOP	REF BARGE	
	LCM-8	LCU-1466	LCU-1667	5002	320	3096	377A	3004	LACV-30	8005	8004	2303	210	294A	294AB	381	7013	7014	2001	4002	4003	264	264B	413D	7011	7010	7016	Remarks
COMMUNICATIONS																												
UHF											X																	
VHF/FM AN/URC-80(V)1	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
VHF/FM AN/PRC-94				3		3	3	3	X			4	3	3	4	4	3	3			3	3	3					
VHF/FM AN/VRC-46	CP	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X					
VHF/FM AN/VRC-47	CP	CP	CP																	CP									
HF/SSB (AN/URC-92)	CP	X	X			X		X	X									X	X	CP									
HF/SSB (AN/GRC-165)		X				X		X										X	X	X									2-3a
MF/HF AN/SRC-6A				X		X	X					X	X	X	X	X	X							2		X			
LF/HF/SSB AN/SRC-38				X			X					X	X	X	X	X	X												
Intercom LS-518/519/SIC		4		21		5	17	4				21	21	21	21	21	21	3	4					10					2-3b
Intercom AN/VIC-1									X		X	X																	
Receiver R-390			X																										
Control Gp for AN/URC-80		X	X	X		X	X	X				X	X	X	X	X	X				X	X	X						
Control Gp for AN/VRC-46		X		X			X					X	X	X	X	X	X												
Voice Sec (VRC-46 & AN/URC-92)	CP	CP	CP	CP		CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP		CP	CP				CP					2-3c

CHART 2-1 (continued) MARINE C-E FUNCTIONAL REQUIREMENTS SUMMARY

FUNCTIONAL REQUIREMENTS	LANDING CRAFT				TUG BOAT				AMPHIB LIGHTER			VESSEL, FREIGHT & LIQUID CARGO						PICKET BOAT			CRANE FLOATING			MA. SHOP	REF BARGE	
	LCM-8	LCU-1466	LCU-1667	5002	320	3056	377A	3004	LACV-30	8005	8004	2303	210	294A	294AB	381	7013	7014	2001	4002	4003	264	264B	413D	7011	7010	7016	Remarks
COMMUNICATIONS (cont'd)																												
Com Sec (TTY)			CP			CP						CP	CP	CP	CP	CP	CP											
TTY			X			X						X	X	X	X	X	X											
NAVIGATION																												
Radar (AN/SPS-59(V))		X	X	X		X	X	X				X	X	X	X	X	X	X	X	X								
Radar (AN/SPS-56)				X			X					X	X	X	X	X	X											
Direction Finder				X		X	X					X	X	X	X	X	X											
Omega Receiver				X		X	X					X	X	X	X	X	X											
Sonar Sounding System				X		X	X					X	X	X	X	X	X											
HD/REF (Gyro)		X	X	X		X	X	X	X			X	X	X	X	X	X	X	X									
HD/REF (CMHS)	X	X	X			X		X	X	X	X	X						X	X	X								
HD/REF Bearing Rep		X		4		X	3		X			3	3	3	5	5	5											
HD/REF Steering Rep				3			2		X			2	2	2	2	2	2											
IDENTIFICATION																												
IFF Transponder		CP	CP	CP		CP	CP	CP				CP	CP	CP	CP	CP	CP											
IFF SEC		CP	CP	CP		CP	CP	CP				CP	CP	CP	CP	CP	CP											

CHART 2-1 (continued) MARINE C-E FUNCTIONAL REQUIREMENTS SUMMARY

FUNCTIONAL REQUIREMENTS	LANDING CRAFT			TUG BOAT				AMPHIB LIGHTER			VESSEL, FREIGHT & LIQUID CARGO						PICKET BOAT		CRANE FLOATING	MA. SHOP	REF BARGE	
	LCM-8	LCU-1466	LCU-1667	5002	320	306	377A	3004	LACV-30	8005	8004	2303	210	294A	294AB	381	7013	7014	2001	4002	4003	264	264B	413D	7011	7010	7016	Remarks
MISCELLANEOUS																												
Static Inverter		2			2	4	2					4			4			1	1									
Power Supply		2	2	X		2	2	2				X	X	X	X	X	X	2	2		X	X	X					
Voltage Transient Protector	X								X	X										X								
Power Supply																				X								

CHAPTER 3

MARINE COMMUNICATION-ELECTRONICS STATUS

3-1. General. *a.* This chapter identifies the equipment/system currently in existence and those planned for utilization in Army water-craft to satisfy the functional communications-electronics requirements stated in chapter 2. Information concerning broad trends in communication-electronics developments is included. The listing of more than one equipment for a specified function does not imply that there is an option to be exercised. Rather, it indicates that for one or more water-craft the equipment is authorized as specified in chapter 4.

b. Army water-craft procurement will stress complete water-craft systems including communication, navigation and identification equipment.

3-2. Development Trends. *a.* The Army's water-craft functional requirements are based on the general requirement to provide a capability to rapidly move personnel and cargo over the high seas, harbors, and water ways at any time of day or night and in adverse weather. Existing communication-electronics system capabilities require improvement in the areas of:

(1) Communication.
(2) Navigation.
(3) Night Vision.
(4) Secure Voice Operation.
(5) Harbor Traffic Management.

b. The trend in maintenance support is to eliminate the need for test equipment by providing built-in test capabilities into the communication-electronics systems so that a quick change of modules can be made without the need for external devices. Future equipment design goals will be to design diagnostic capabilities into a maximum number of equipment types, thus reducing the number of special test equipment requirements. The design concept will stress the inclusion of common test plugs and connectors, and self-test features. The type of readouts to be used will include go-no-go devices, simple meters, and digital readout devices.

3-3. Equipment/ Systems Availability Status.

a. Chart 3-1 lists equipment/systems which are used, or are planned for use, in Army water-craft to satisfy functional requirements. The listing of an item for a particular function does not mean that it may be universally used in any water-craft. Mission requirements are the determining factor for specifying a particular system to satisfy a functional requirement for a particular type water-craft. For information pertaining to a specific type water-craft, refer to chapter 4.

b. The column headings in Chart 3-1 are defined as follows:

(*1) Function/Equipment Type No.* In this column the functional requirements are listed as identified in the Communication-Electronics functional requirements summary (chap. 2). Listed under each functional requirement are the nomenclature, type, and numbers of equipment used, or planned for use in water-craft to satisfy that functional requirement.

(*2) Prior Year.* An "X" in this column indicates equipment installed in vessels procured prior to FY 76, either by the vessel manufacturer or by retrofit.

(*3) Installed in water-craft procured in FY.* FY 76 through FY 84: An "X" in a column indicates that the specified equipment was, or is planned for installation or use in water-craft procured in that fiscal year.

3-4. Equipment Implementation. *a. Communications.*

(1) VHF/FM.

(a) AN/URC-80 *(V)I.* The AN/URC-80(V)1 is generally being installed to satisfy a bridge-to-bridge requirement, however, in some cases it is being installed to replace the AN/SRC-8/32 AM Radio Set over all design (264B, 413D, 7010, 320, and 7011). Water-craft having not yet had this modification performed are so noted in the individual water-craft configuration detail charts (chap. 4).

(b) ANIPRC-94. The AN/PRC-94 is a portable hand held radio set for communication from the bridge to deck hands assisting in docking water-craft, barge operations and unloading operations of larger water-craft. The AN/PRC-94 can also be used for short range bridge-to-bridge communications.

(c) AN/VRC-46. The AN/VRC-46 is being installed on specified water-craft for communications between tactical units.

(d) AN/VRC-47. This set is authorized for installation as indicated in lieu of the AN/VR-C-46 on three of every nineteen (19) LCM-8's and two each per company of LCU's (1 each per LCU-1466 and 1 each per 4003 J Boat) assigned by TOE.

(*2) HFlSSB.*

(a) AN/URC-92. The AN/URC-92 will be a new automatic tuned HF/SSB 2 to 30 MHZ to replace the AN/GRC-165 and the AN/SRC-8/32. Availability is expected during the fist quarter of FY 77.

(b) AN/GRC-165. This set is a manual tuned HF/SSB, 2 to 15 MHZ and was procured for an urgent USARPAC requirement The AN/GRC-165 will be replaced by the AN/URC-92.

(*3) LF/HFISSB.*

(a) AN/SRC-38. The AN/SRC-38 will replace the AN/SRC-7.

(b) AN/SRC-7. The AN/SRC-7 Radio Set is obsolete and can no longer be maintained due to non-availability of parts in military or commercial channels and is being replaced by the AN/SRC-38.

(c) AN/SRC-8/32. The AN/SRC-8/32 Radio Sets are obsolete and can no longer be maintained due to non-availability of parts in military or commercial channels.

(*4) MF/HF: AN/SRC-6A.* The AN/SRC-6A is a portable radio telegraph transmitter/receiver powered by a built-in hand-crank generator for emergency use in life boats or other survival craft. Not programmed for replacement at this time.

(*5) UHF: AN/URC-IOA.* The AN/URC-10A is a portable radio receiver-transmitter designed to transmit and receive voice signals for air-sea-rescue. This set is utilized in the (2303) LARC LX only and there are no plans for replacement.

(*6) Inter-communications.*

(a) LS-518/519/SIC. The LS-518/519/SIC is an inter-communication system to be installed in various water-craft for inter-communication within the compartments of a vessel. Availability is planned for FY 77.

(b) AN/VIC-1. The AN/VIC-1 intercom system provides communication between crew members on the 8004 and 2303 LARC Amphibious Lighters.

(*7) Control Group.*

(a) OK-295/URC-80 (V). The OK-295/URC-80(V) control group provides remote transmission and reception of AN/URC-80(V)1 from remote station on the vessel.

(b) AM-6747 ( )/GR. The AM-6747( )/GR amplifier, audio frequency is provided for monitoring the AN/VRC-46/47.

(*8) R-390( )/URR.* The R-390 ( )/URR receiver is provided presently for the LCU-1667 only and is utilized fr the ships entertainment system.

(*9) Voice Security.*

(a) The TSEC/KY-57 is a secure device in development by NSA and will be suitable for water-craft use. It is furnished as a TOE item and will be used in selected water-craft to provide secure FM radio. Provisions for TSEC/KY-57 are being programmed for by retrofit schedule (chap.4). Changes required to water-craft fr TSEC/KY-57 should include provisions to ensure tempest compliance. Once a water-craft has been wired to accept the TSEC/KY-57, no electronics changes will be made to that water-craft unless proper authorization is obtained.

(b) TSEC/KY-65. This equipment will be used to secure HF/SSB equipment. Equipment is in the development phase and should be available in FY 78.

(10) *Teletype.*

(a) The ANIFGC-25X. Teletypewriter Set as installed aboard Army vessels will permit transmission, monitoring, and reception of teletypewritten messages including news, weather, plus test information, etc., when used in conjunction with an appropriate radio set providing an FSK (60 WPM or 100 WPM) capability. This teletypewriter capability is being installed as par of the AN/SRC-38 Radio Set.

(*b) TT-98A/FG.* This teletypewriter is to be used with the AN/FGC-25X to provide an extra teletypewriter receivig-transmting unit for weather (weather symbols).

(c) TSEC/KW-7. The TSEC/KW-7 is a secure device for AN/FGC-25X teletypewriter set. It will be furnished as a TOE item and will be used in selected watercraf to provide secure teletype. Provision for TSEC/KW-7 are being programmed for by retrofit schedule (chap. 4).

b. Navigation.

(*1) Radar* (Small Boat).

(a) The AN/SPS-S9(V) is a small boat radar set which will replace the AN/SPN-11, AN/SPS-57 & AN/SPN-18 (on the 3006 tug). Equipment will be available in FY 76/77.

(b) AN/SPS-57. The AN/SPS-57 is a small boat radar set. A small quantity was procured in FY 73 fr an urgent USARPAC requirement. The AN/SPS-57 was fund to be unsuitable for Army water-craft use and will be replaced by AN/SPS-59(V).

*(c) Decca RM/AC 121*6. The Decca RM /AC 1216 is a contractor furnished small boat radar in the LACV-30 Lighter Air Cushion Vehicle Prototypes. It comes with an automatic anticollision warning system.

(d) AN/SPN-11. The AN/SPN-11 radar set is obsolete and can no longer be maintained due to non-availability of parts in military or commercial channels. The AN/SPN-11 will be replaced by the AN/SPS-59(V).

(*2) Radar* (Large Boat).

(*a*) The AN/SPS-56 is a marine large boat radar system designed to perform necessary collision avoidance, navigation and surveillance function during all weather conditions. Evaluation of two commercial radars have been established and as soon as a determination is made the AN/SPS-56 will replace the AN/SPN-18. Equipment should be available in FY-77. See chapter 4 for retrofit objective.

(b) AN/SPN-& The AN/SPN-18 large boat radar set is obsolete and can no longer be maintained due to non-availability of parts in military or commercial channels. The AN/SPN-18 will be replaced by the AN/SPS-56.

(*3) Direcon Finder.*

(a) AN/SRD-18 is an electronic navigational instrument for detecting the bearing of a transmitted radio signal. The AN/SRD-18 will replace the AN/SRD-8. See chapter 4 for rtrofit objective.

(b) AN/SRD-8. Direction Finder is obsolete and can no longer be maintained due to non-availability of parts in military or commercial channels. The AN/SRD-8 will be replaced by the AN/SRD-18.

(*4) Omega Receiver.*

(a) AN/SRN-23is an Omega Navigation Receiver Set requirement within the Army water-craft modernization program. An Omega candidate has not been selected at this time. The Omega receiving set is being planned to replace the AN/SPN-7 Loran receiver and the AN/SRN-12.

(b) AN/SRN-2 is an Omega navigation receiver. A small quantity was procured from the Navy to satisfy an urgent USARPAC requirement. This Omega was found not suitable for Army water-craft and will be replaced by the AN/SRN-23.

(*c) AN/SPN-7* Loran set is obsolete and can no longer be maintained due to non-availability of parts from military or commercial sources. The AN/SPN-7 will be replaced by the AN/SRN-23.

(5) Sonar Sounding. The AN/SQN-15 is a combination Indicator/Recorder system. The Depth Indicator/Recorder assures full readings to depth scale of 600 fathoms. The AN/SQN-15 is being installed to replace earlier types of commercial systems.

(*6) Heading References.*

(a) The AN/SSN-(MK-27) is a Gyro Compass which is the logistics responsibility of TROSCOM. The AN/SSN-(MK-27) is being programmed as a retrofit objective (chap. 4); however, in some cases will replace the MK-23,

MK-14 and MK-18 by attrition basis only.(b) CMHS. The compass magnetic heading system (CMHS) is a compass system which is the logistics responsibility of TROSCOM. The CMHS is being programmed as a retrofit objective (chap. 4) and in most cases utilized as a back-up compass system.

c. Identification: IFF.

(a) The AN/APX-72 Transponder Set operates in conjunction with IFF (Identification Friend or Foe) interrogation equipment to identify the craft as friend or for. Provisions for the AN/APX-72 are being programmed for by retrofit schedule (chap. 4). The transponder will be furnished as a TOE item.

(b) KIT-lA/TSEC. The KIT-1A/TSEC is a secure device for the AN/APX-72 transponder set. It will be furnished as a TOE item and will be used in selected water-craft Provisions for KIT-1A/TSEC are being programmed for by retrofit schedule (chap. 4).

d. Miscellaneous.

(*1) Power Supplies.*

PP-7078( )/U/is a static inverter which provides a regulated 120 VAC, 60Hz 5KVA output from a 110 VDC input for powering electronic equipment on Army Water-craft.

(b) PP-2953/U. The PP-2953/U is a power supply used to provide a source of regulated 25.2 volts DC 10 amperes from an input of 115 VAC, 60Hz. This power supply is designed so that in the event of AC power failure it will convert over to DC battery source. Equipment connected to this power supply will be able to continuously operate from the battery supply source.

(c) PU-140. The PU-140 is a rotary converter use. to provide a source of regulated 115 VAC which operates from an input of 115 VDC. This converter is used primarily to provide AC power for electronic equipment on the 246B/413D Cranes.

(d) PP-4763/U. The PP-4763/U is a power supply used to provide a source of

regulated 25.2 volts DC up to 55 amperes from an input of 115 or 230 VAC, single phase, 60Hz power, at 50 amperes during normal operation.

(e) PU-724/U. The PU-724/U is a motor generator used to provide a source of a regulated 115V AC 60 Hz from input of 24VDC.

(*2) Antennas.*

(a) AS-3095/URC is a VHF/FM whip antenna system including mounting hardware and feed line for installation in all water-craft where the AN/URC80(V)1 is installed.

(b) AS-2594/U is a HF vertical whip antenna system including base mounting hardware and is installed in all water-craft where the AN/GRC-165 is installed.

(c) OE-209/SRC-38, AS-2250 through AS-2255( )/SRC-38. These antenna kit assemblies are custom fabricated to include necessary wire, antenna whip, insulators, bracketry, etc., for each specific vessel having AN/SRC-38 installed.

EQUIPMENT/SYSTEMS AVAILABILITY STATUS

CHART 3-1

FUNCTION/EQUIPMENT TYPE NUMBER	INSTALLED IN WATERCRAFT PROCURED IN FY									
	PRIOR YRS	76	77	78	79	80	81	82	83	84
COMMUNICATIONS - RADIO SET										
VHF/FM										
AN/URC-80(V)1	X	X	X	X	X	X	X	X	X	X
AN/PRC-94		X	X	X	X	X	X	X	X	X
AN/VRC-46	X	X	X	X	X	X	X	X	X	X
AN/VRC-47	X	X	X	X	X	X	X	X	X	X
HF/SSB										
AN/URC-92			X	X	X	X	X	X	X	X
AN/GRC-165	X									
LF/HF/SSB										
AN/SRC-38	X	X	X	X	X	X	X	X	X	X
AN/SRC-7	X									
AN/SRC-8/32	X									
R-390		X	X	X	X	X	X	X	X	X
MF/HF										
AN/SRC-6	X	X	X	X	X	X	X	X	X	X
UHF AN/URC-10A	X	X	X	X	X	X	X	X	X	X

EQUIPMENT/SYSTEMS AVAILABILITY STATUS

CHART 3-1 (continued)

FUNCTION/EQUIPMENT TYPE NUMBER	PRIOR YRS	INSTALLED IN WATERCRAFT PROCURED IN FY 76	77	78	79	80	81	82	83	84
COMMUNICATIONS (cont'd)										
Intercommunication										
LS-518/519/SIC			X	X	X	X	X	X	X	X
AN/VIC-1	X	X	X	X	X	X	X	X	X	X
Control Group										
OK-295/URC-80(V) (Fabricated)	X	X	X	X	X	X	X	X	X	X
AM-6747( )/GR		X	X	X	X	X	X	X	X	X
Voice Security										
TSEC/KY-65 (See remarks in para 2-3c)		CP	CP	CP	CP	CP	CP	CP	CP	CP
TSEC/KY-57 (See remarks in para 2-3c)		CP	CP	CP	CP	CP	CP	CP	CP	CP
Teletype										
AN/FGC-25X	X	X	X	X	X	X	X	X	X	X
TT-98A/FG		X	X	X	X	X	X	X	X	X
TSEC/KW-7		CP	CP	CP	CP	CP	CP	CP	CP	CP
NAVIGATION										
Radar										
AN/SPS-59(V)		X	X	X	X	X	X	X	X	X
AN/SPS-57	X									

EQUIPMENT/SYSTEMS AVAILABILITY STATUS

CHART 3-1 (continued)

FUNCTION/EQUIPMENT TYPE NUMBER	PRIOR YRS	INSTALLED IN WATERCRAFT PROCURED IN FY 76	77	78	79	80	81	82	83	84
NAVIGATION (cont'd)										
DECCA RM/AC 1216		X	X	X	X	X	X	X	X	X
AN/SPN-11	X									
AN/SPS-56		X	X	X	X	X	X	X	X	X
AN/SPS-35	X									
AN/SPN-18	X									
Direction Finder										
AN/SRD-18	X	X	X	X	X	X	X	X	X	X
AN/SRD-8	X									
Omega Receiver										
AN/SRN-23			X	X	X	X	X	X	X	X
AN/SRN-12	X									
Loran Receiver										
AN/SPN-7	X									
Sonar Sounding										
AN/SQN-15	X	X	X	X	X	X	X	X	X	X
Heading Reference										
AN/SSN-(MK27)	X	X	X	X	X	X	X	X	X	X
CMHS Compass Magnet Heading System	X	X	X	X	X	X	X	X	X	X

EQUIPMENT/SYSTEMS AVAILABILITY STATUS

CHART 3-1 (continued)

FUNCTION/EQUIPMENT TYPE NUMBER	INSTALLED IN WATERCRAFT PROCURED IN FY									
	PRIOR YRS	76	77	78	79	80	81	82	83	84
IDENTIFICATION										
IFF										
AN/APX-72	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP
KIT-1A/TSEC	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP
AN/SPX-7	X									
MISCELLANEOUS										
Power Supplies										
PP-7078( )/U	X	X	X	X	X	X	X	X	X	X
PP-2953/U	X	X	X	X	X	X	X	X	X	X
PP-4763/U	X	X	X	X	X	X	X	X	X	X
PU-140	X	X	X	X	X	X	X	X	X	X
PU-724/U		X	X	X	X	X	X	X	X	X
ANTENNAS										
AS-3095/URC	X	X	X	X	X	X	X	X	X	X
AS-2594/U	X	X	X	X	X	X	X	X	X	X
OE-209/SRC-38, AS-2250 thru AS-2255( )/SRC-38	X	X	X	X	X	X	X	X	X	X

CHAPTER 4

WATER-CRAFT CONFIGURATION DETAILS
Section I. GENERAL

4-1. General.

a. This chapter prescribes the standard Marine Communication-Electronics equipment/systems authorized for installation (including CP) in each type/design of Army water-craft either during production or by retrofit.

b. This chapter also contains information on all water-craft assets by type number. Brief information is presented on new developmental water-craft. Communication-Electronics for those water-craft are described in applicable requirements documents.

c. Production water-craft configuration charts (sec II) indicates the configuration applicable for world-wide use. Current standardization policy is reflected whereby all production water-craft are equipped with either the actual Communication-Electronics or complete provision for items peculiar to particular commands or geographical areas. This policy provides complete deployment flexibility without the need for retrofit in most cases; however, retrofit may be required due to the lack of hardware during vessel production.

d. Configuration data for some types of water-craft are shown for fiscal years beyond approved or planned procurements of the water-craft. Such projections do not indicate that there is a planned or approved procurement program for the future; however, if procurement is approved, the Communications-Electronics configuration will be based on that shown for the applicable fiscal years.

e. In-service water-craft configuration charts (sec III) indicate variations in configurations related to the five geographic command areas of the world. The charts reflect the configurations as they now are authorized; however, it should be noted that when the indicated retrofit objectives are implemented, variations will have been reduced. Retrofit of communication-electronics for other than active water-craft is not being considered at this time. As a general rule, retrofit will not be planned for those water-craft which do not have a life expectancy of at least two years after such retrofit can be completed. Future updating of this program will pursue the objective of attaining a universal communication-electronics configuration for each type of water-craft. Retrofit programs will be planned/scheduled to minimize downtime of water-craft. Whenever possible communication-electronics retrofit will be scheduled to coincide with water-craft overhaul, rebuild, or other maintenance downtime.

(1) Headquarters, Department of the Army, is responsible for overall guidance on retrofit policies and priorities, approval of retrofit programs and enforcement of related regulations.

(2) US Army Materiel Command is responsible for:

(a) Insuring that the Army Materiel Plan (AMP) and Product and Component Improvement Programs include funding requirements for engineering, equipment, installation kit fabrication and kit installation costs necessary to accomplish approved retrofit programs in accordance with the applicable formal memorandum of understanding.

(b) Including in maintenance plans and schedules the requirement to apply communication-electronics retrofit modernization,

whenever practicable, during scheduled maintenance and overhaul of water-craft.

(c) Accomplishing necessary engineering, installation kit preparation, and procurement of hardware as appropriate.

(3) Training and Doctrine Command is responsible for insuring that the retrofit objectives reflect the current and foreseeable communication-electronics requirements of the US Army.

(4) Major CONUS and overseas commanders are responsible for:

*(*a) Implementation of organizational and field maintenance level modifications on water-craft within the limitations imposed by operational commitments and the applicable Modification Program Memorandum of Understanding.

(b) To the maximum extent practicable, making their retrofit requirements known to DA well in advance of the required date. This will permit programming and will enhance the timely accomplishment of the retrofit objective.

f. Many equipments/systems include more than a single major component. Only the primary equipment/system nomenclature of the hardware required to satisfy a functional requirement is listed in the water-craft configuration detail charts. Items such as some antennas, couplers,

installation hardware, junction boxes, batteries, etc., are not listed.

4-2. Chart Heading and Symbols. In the charts contained in sections II and III, the column headings are defined as folows:

a. Function. The general category of a functional requirement is given (e.g., communications, navigation). Under the heading, the abbreviation of a sub-function (e.*g.,* VHF/FM, NAV, ADF) is entered.

b. Description. This column contains a noun, name or descriptive term for the item.

*c. Type Numbe*r. This column contains the type number of the equipment if a type number has been assigned.

d. Unit Weight. This column contains the item weight in pounds. For items that are projected for future availability, the weight may be omitted or a weight as contained in a design specification given. Weight of wiring and structure provisions are not included.

e. World-Wide Requirement The entry is the number of the equipment authorized. The entry of CP indicates "one" unless preceded by a quantity greater than one.

f Symbols. X--Installed or to be installed. CP-Complete provisions.

g. Retrofit Objective or (Retro Obj). This column will contain an X if there is a retrofit objective for the installation of the identified equipment. A CP in the column indicates that there is a retrofit objective to provide complete provisions for the specified equipment.

h. Marine Procurement in Fiscal Years.

Indicates the fiscal year of the water-craft procurement.

i. Notes. This may contain a number referencing a note which follows the last item listed on the chart.

j. Geographic Area Requirements (CONUS, USAREUR, USARPAC, USARSO, USARAL). The five columns under the main heading represent the five command areas of the world where Army water-craft are deployed. A number in these columns indicates the quantity to be installed.

Section II. PRODUCTION WATERCRAFT

LCU-1667 Landing Craft, Utility

CHART 4-1

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	WW REQ	RET OBJ	NEW WATERCRAFT PROCURED IN FY TO BE DELIVERED							NOTES
						76	77	78	79	80	81	82	
COMMUNICATIONS													
HF/SSB	Radio Set	AN/URC-92		1	x	x	x	x	x	x	x	x	
VHF/FM	Radio Set	AN/VRC-46	85	1		x	x	x	x	x	x	x	
VHF/FM	Radio Set	AN/VRC-47	105	CP		CP	CP	CP	CP	CP	CP	CP	1
VHF/FM	Radio Set	AN/URC-80(V)1	35	1		x	x	x	x	x	x	x	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP		CP	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP		CP	CP	CP	CP	CP	CP	CP	
ICS	Intercom Set	LS-518/519/SIC	8	7	x	x	x	x	x	x	x	x	
Control	Control Group	OK-295/URC-80(V)	15	1		x	x	x	x	x	x	x	
HF/SSB/AM	Receiver	R-390( )/URR	75	1		x	x	x	x	x	x	x	
Control	Amplifier	AM-6747( )/GR	22	2		x	x	x	x	x	x	x	
NAVIGATION													
NAV	Radar Set	AN/SPS-59(V)	161	1		x	x	x	x	x	x	x	
HD/REF	Gyro Compass	AN/SSN-(MK-27)	122	1		x	x	x	x	x	x	x	
HD/REF	Compass	CMHS	11	1		x	x	x	x	x	x	x	
HD/REF	Bearing Repeater	ID Type B		1		x	x	x	x	x	x	x	
HD/REF	Steering Repeater	ID Type E		1		x	x	x	x	x	x	x	

LCU-1667 Landing Craft, Utility-Continued

CHART 4-1

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	WW REQ	RET OBJ	NEW WATERCRAFT PROCURED IN FY TO BE DELIVERED 76	77	78	79	80	81	82	NOTES
IDENTIFICATION													
IFF	Transponder	AN/APX-72	26	1		x	x	x	x	x	x	x	
IFF	Control	C-6280/APX	3	1		x	x	x	x	x	x	x	
IFF	Antenna	AS-177A/UPX	7	1		x	x	x	x	x	x	x	
IFF	MARK XII	KIT-1A/TSEC		CP	CP	CP	CP	CP	CP	CP	CP	CP	
MISCELLANEOUS													
HF/SSB	Antenna	AS-2594/U	4	1		x	x	x	x	x	x	x	
VHF/FM	Antenna	AS-3095/URC	5	1		x	x	x	x	x	x	x	

GENERAL NOTE: The procurement of these LCU's is being completed without the full configuration required due to non-availability of equipment. The ultimate configuration is being programmed for by retrofit.

NOTE: 1. The AN/VRC-47 will be assigned to TO&E/TDA units as one each required for each LCU componency CP will be installed on all LCU's for this requirement.

LACV-30 Lighter Air Cushion Vehicle

CHART 4-2

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	WW REQ	RET OBJ	NEW WATERCRAFT PROCURED IN FY TO BE DELIVERED							NOTES
						76	77	78	79	80	81	82	
COMMUNICATIONS													
VHF/FM	Radio Set	AN/VRC-46	85	1				x	x	x	x	x	
	Radio Set	AN/URC-80(V)1	35	1				x	x	x	x	x	
	Radio Set	AN/PRC-94	2	2				2	2	2	2	2	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	X			CP	CP	CP	CP	CP	
	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	X			CP	CP	CP	CP	CP	
HF/SSB	Radio Set	AN/URC-92		1	x			x	x	x	x	x	
ICS	Intercom Set	AN/VIC-1	11	5				x	x	x	x	x	
NAVIGATION													
NAV	Radar Set	Decca RM/AC 1216		1				x	x	x	x	x	
HD/REF	Gyro Compass	AN/ASN-43	7	1				x	x	x	x	x	
IND	Heading Radio Bearing Indicator	ID-1351/A	1	1				x	x	x	x	x	
MISCELLANEOUS													
VHF/FM	Antenna	AS-3095/URC	5	1				x	x	x	x	x	
HF/SSB	Antenna	AS-2594/U	4	1	x			x	x	x	x	x	

Section III. IN-SERVICE WATERCRAFT

LCM-8 Landing Craft, Mechanized

CHART 4-3

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
HF/SSB	Radio Set	AN/URC-92		CP	CP	CP	CP	CP	CP	1
VHF/FM	Radio Set	AN/VRC-46	85	CP	CP	CP	CP	CP	CP	2
VHF/FM	Radio Set	AN/VRC-47	105	CP	CP	CP	CP	CP	CP	2
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	3
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
NAVIGATION										
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	
MISCELLANEOUS										
HF/SSB	Antenna	AS-2594( )/U	4	CP	CP	CP	CP	CP	CP	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
Suppressor	Transient Voltage Protection Suppressor	MX-7778/GRC	7	X	X	X	X	X	X	

NOTES: 1. The AN/URC-92, when available, is authorized for installation on three of every 19 LCM-8 assigned to TO&E/TDA units. Complete Provision will be installed on all LCM-8's.

LCM-8 Landing Craft, Mechanized (continued)

CHART 4-3

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	

NOTES: 2. The AN/VRC-46 will be installed on LCM-8's assigned to TO&E. CP only will be installed on all LCM-8's assigned to TDA units. The AN/VRC-47 is authorized for installation in lieu of the AN/VRC-46 on three of every 19 LCM-8's assigned to TO&E units.

3. The AN/URC-80(V)1 is installed for Bridge-to-Bridge communications, and will replace the AN/SRC-8/32.

LCU-1466 Landing Craft Utility

CHART 4-4

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF/SSB	Radio Set	AN/URC-92		X	X	X	X	X	X	1
HF/SSB	Radio Set	AN/GRC-165	100				X			1
HF	Radio Set	AN/SRC-8/32	100		X	X		X	X	1
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
VHF/FM	Radio Set	AN/VRC-47	105	CP	CP	CP	CP	CP	CP	2
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VS	Com Sec Equip (See para 2-3c)	T3EC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
ICS	Intercom Set	LS-518/519/SIC	8	X	7	7	7	7	7	3
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747/GR	22	X	2	2	2	2	2	
NAVIGATION										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	4
NAV	Radar Set	AN/SPS-57	169				X			4
NAV	Radar Set	AN/SPN-11	640		X	X		X	X	4
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	

LCU-1466 (continued)

CHART 4-4

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
NAVIGATION (continued)										
HD/REF	Gyro Compass	AN/SSN-(MK-23)	186		X	X	X	X	X	5
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	6
HD/REF	Bearing Repeater	ID-Type B	137		X	X	X	X	X	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	7
IFF	Transponder	AN/SPX-7	52		X	X	X	X	X	7
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS/177A/UPX	7	CP	CP	CP	CP	CP	CP	
IFF	MARK XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	
MISCELLANEOUS										
PP	Static Inverters	PP-7078( )/U	525	X	2	2	2	2	2	
PP	Power Supply	PP-2953/U	40	X	2	2	2	2	2	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
SSB/HF	Antenna	AS-2594	4	X	X	X	X	X	X	

NOTE 1: The AN/URC-92, when available, will replace the AN/GRC-165 and the AN/SRC-8/32 HF Radio Set.

NOTE 2: The AN/VRC-47 will be assigned to TO&E/TDA units as one each required for each LCU company. CP will be installed on all LCU's for this requirement.

LCU-1466 (continued)

CHART 4-4

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	

NOTE 3: The LS-518/519/SIC intercom is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.

NOTE 4: The AN/SPS-59(V), when available, will replace the AN/SPS-57 (by retrofit) and the AN/SPN-11 Radar Set. The AN/SPS-57 is installed in USARPAC vessels only.

NOTE 5: This Gyro Compass is the responsibility of TROSCOM. The AN/SSN-(MK-23) will be replaced by the AN/SSN-(MK-27) on an attrition basis.

NOTE 6: The CMHS is being installed as a back up Compass System.

NOTE 7: The AN/APX-72 will be installed as CP and replace the AN/SPX-7 Transponder. The AN/APX-72 will be authorized by TO&E or TDA.

5002 Beach Discharge Lighter

CHART 4-5

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
MF/HF/SSB	Radio Set	AN/SRC-38	1775		X	X	X	X	X	
VHF/FM	Radio Set	AN/VRC-46	85		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35		X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2		3	3	3	3	3	
TTY	Teletypewriter	AN/FGC-25X	192		X	X	X	X	X	
TTY	Teletypewriter (Page Printer)	TT-98A/FG	79		X	X	X	X	X	
VS	Com Sec Equip	TSEC/KY-57	15		CP	CP	CP	CP	CP	
VS	Com Sec Equip	TSEC/KY-65	13		CP	CP	CP	CP	CP	
COM/SEC	Com Sec Equip	TSEC/KW-7	74		CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80(V)	15		X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22		2	2	2	2	2	
ICS	Intercom Set	LS-518/519/SIC	8	X	21	21	21	21	21	1
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056		X	X	X	X	X	
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	2

5002 (continued)

CHART 4-5

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
NAVIGATION (continued)										
NAV	Omega Receiver	AN/SRN-23	N/A	X	X	X	X	X	X	3
NAV	Sonar, Sounding set	AN/SQN-15	226		X	X	X	X	X	
ADF	Direction Finder	AN/SRD-18	100		X	X	X	X	X	
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	4
HD/REF	Gyro Compass	MK-14	1000		X	X	X	X	X	
HD/REF	Bearing Repeater	ID-Type B	137		4	4	4	4	4	
HD/REF	Steering Repeater	ID-Type E	50		3	3	3	3	3	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26		X	X	X	X	X	
IFF	Control	C-6280/APX	3		X	X	X	X	X	
IFF	Antenna	AS-177A/UPX	7		X	X	X	X	X	
IFF	Mark XII	KIT-1A/TSEC	11		CP	CP	CP	CP	CP	
MISCELLANEOUS										
PP	Power Supply	PP-4763/U	120		X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5		X	X	X	X	X	
HF/MF/LF/SSB	Antenna Group	AS-( )/URC-38	75		X	X	X	X	X	

50Q2 (continued)

CHART 4-5

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	

NOTES:
1. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
2. The AN/SPS-59(V) is being programmed as a back-up radar set.
3. The AN/SRN-23, when available, will replace the AN/SRN-12 OMEGA.
4. The AN/SSN-(MK-27) will replace the MK-14 by attrition only.

320 Tug, Harbor, Steel (45 ft)

CHART 4-6

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/URC-80(V)	35	X	X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
NAVIGATION										
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	
MISCELLANEOUS										
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTE: 1. The AN/URC-80 is installed for Bridge-to-Bridge communications and will replace the AN/SRC-8/32.

377A Tug, Oceangoing (143 ft)

CHART 4-7

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
MF/HF/SSB	Radio Set	AN/SRC-38	1775	X	X	X	X	X	X	
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
COM/SEC	Com Sec Equip (See para 2-3c)	TSEC/KW-7	74	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22	X	2	2	2	2	2	
TTY	Teletypewriter	AN/FGC-25X	192	X	X	X	X	X	X	
TTY	Teletypewriter	TT-98A/FG	79	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	17	17	17	17	17	1
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056	X	X	X	X	X	X	2
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	2
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	2

377A (continued)

CHART 4-7

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
NAVIGATION (continued)										
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	3
NAV	Omega Receiver	AN/SRN-12	126				X			3
NAV	Sonar, Sounding Set.	AN/SQN-15	226	X	X	X	X	X	X	
ADF	Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	
HD/REF	Gyro Compass	AN/SSN-MK-27	175		X	X	X	X	X	4
HD/REF	Gyro Compass	MK-14 or MK-18			X	X	X	X	X	4
HD/REF	Bearing Repeater	ID-Type B	137		3	3	3	3	3	
HD/REF	Steering Repeater	ID-Type E	50		2	2	2	2	2	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	X	CP	CP	X	CP	CP	
IFF	Control	C-6280/APX	3	X	CP	CP	X	CP	CP	
IFF	Antenna	AS-177A/UPX	7	X	CP	CP	X	CP	CP	
IFF	MARK XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	
MISCELLANEOUS										
PP	Static Inverter	PP-7078( )/U	525	X	4	4	4	4	4	
PP	Power Supply	PP-2953/U	40	X	2	2	2	2	2	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

377A (continued)

CHART 4-7

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS (continued)										
MF/HF/SSB	Antenna	OE-209/SRC-38	500	X	X	X	X	X	X	

NOTES: 1. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.

2. The AN/SPS-56, when available, will replace the AN/SPN-18. The AN/SPS-59(V) will be installed as a back up Radar Set for the AN/SPS-56.

3. The AN/SRN-23, when available, will replace the AN/SRN-12.

4. The AN/SSN-(MK-27) will replace the MK-14 or MK-18 by attrition only.

3004 Tug, Harbor, Steel (65 ft)

CHART 4-8

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF/SSB	Radio Set	AN/URC-92		X	X	X	X	X	X	1
HF/SSB	Radio Set	AN/GRC-165	100				X			1
HF	Radio Set	AN/SRC-8/32	100		X	X		X	X	1
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC	15	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	6	6	6	6	6	2
NAVIGATION										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPS-57	165				X			3
NAV	Radar Set	AN/SPN-11	640		X	X		X	X	3
NAV	Sonar, Sounding Set (Indicator only)	AN/SQN-15	126				X			
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175	X	X	X	X	X	X	4

3004 (continued)

CHART 4-8

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
NAVIGATION (continued)										
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	
ADF	Automatic Direction Finder	AN/SRD-18	100				X			
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/UPX	7	CP	CP	CP	CP	CP	CP	
IFF	MARK XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	
MISCELLANEOUS										
PP	Static Inverter	PP-7078( )/U	525	X	2	2	2	2	2	
PP	Power Supply	PP-2953/U	40	X	2	2	2	2	2	
HF/SSB	Antenna	AS-2594( )/U	4	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTES:
1. The AN/URC-92, when available, will replace the AN/GRC-165 and the AN/SRC-8/32 HF Radio Set.
2. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-59(V), when available, will replace the AN/SPS-57 (by retrofit) and the AN/SPN-11 Radar Set.
4. The AN/SSN-(MK-27) is a TROSCOM responsibility and will be a retrofit objective.

3006 Tug, Harbor, Steel (100 ft)

CHART 4-9

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF/SSB	Radio Set	AN/URC-92		X	X	X	X	X	X	1
HF/SSB	Radio Set	AN/GRC-165	100				X			1
HF	Radio Set	AN/SRC-8/32	100		X	X		X	X	1
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
ICS	Intercom Set	LS-518/519/SIC	8	X	9	9	9	9	9	2
Control	Control Group	OK-295/URC-80	15	X	X	X	X	X	X	
NAVIGATION										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	3
NAV	Sonar Sounding Set	AN/SQN-15	226	X	X	X	X	X	X	
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	4
NAV	Omega Receiver	AN/SRN-12	126				X			4

3006 (continued)

CHART 4-9

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
NAVIGATION (continued)										
NAV	Loran Receiver	AN/SPN-7	147		X	X		X	X	4
ADF	Automatic Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	5
DF	Direction Finder	AN/SRD-8	88		X	X		X	X	5
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175	X	X	X	X	X	X	6
HD/REF	Bearing Repeater	ID-Type B	137		X	X	X	X	X	
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/UPX	7	CP	CP	CP	CP	CP	CP	
IFF	Mark XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	
MISCELLANEOUS										
PP	Static Inverter	PP-7078( )/U	525	X	2	2	2	2	2	
PP	Power Supply	PP-2953/U	40	X	2	2	2	2	2	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/SSB	Antenna	AS-2594/U	4	X	X	X	X	X	X	

3006 (continued)

CHART 4-9

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	

NOTES:
1. The AN/URC-92, when available, will replace the AN/GRC-165 and the AN/SRC-8/32 Radio Set.
2. The LS-518/519/SIC is a Navy system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-59(V) will replace the AN/SPN-18 radar sets.
4. The AN/SRN-23 Omega, when available, will replace the AN/SRN-12 and the AN/SPN-7 Loran.
5. The AN/SRD-18 will replace the AN/SRD-8 Direction Finder.
6. The AN/SSN-(MK-27) is a TROSCOM responsibility and will be a retrofit objective.

CHART 4-10

8004 LARC XV Amphibious Lighter

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85		X	X	X	X	X	
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
ICS	Intercom Set	AN/VIC-1	11		X	X	X	X	X	
MISCELLANEOUS										
SUPPRESSOR	Transient Voltage Protector Suppressor	MX-7778/GRC	7		X	X	X	X	X	

8005 LARC V Amphibious Lighter

CHART 4-11

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85		X	X	X	X	X	
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
MISCELLANEOUS										
SUPPRESSOR	Transient Voltage Protector Suppressor	MX-7778/GRC	7		X	X	X	X	X	

2303 LARC LX Amphibious Lighter

CHART 4-12

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85		X	X	X	X	X	
UHF	Radio Set	AN/URC-10A	2		X	X	X	X	X	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
ICS	Intercom Set	AN/VIC-1	11		X	X	X	X	X	
MISCELLANEOUS										
SUPPRESSOR	Transient Voltage Protector Suppressor	MX-7778/GRC	7		X	X	X	X	X	

210 Vessel, Supply

CHART 4-13

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
HF/SSB	Radio Set	AN/URC-92		X	X	X	X	X	X	1
MF/HF	Radio Set	AN/SRC-7	2000		X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	4	4	4	4	4	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22	X	2	2	2	2	2	
ICS	Intercom Set	LS-518/519/SIC	8	X	21	21	21	21	21	2
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	3

210 (continued)

CHART 4-13

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
NAVIGATION (continued)										
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	4
NAV	Loran Receiver	AN/SPN-7	147		X	X	X	X	X	4
NAV	Sonar, Sounding Set	AN/SQN-15	226	X	X	X	X	X	X	5
ADF	Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	6
DF	Direction Finder	AN/SRD-8	88		X	X	X	X	X	6
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	7
HD/REF	Gyro Compass	MK-14 or MK-18	1000		X	X	X	X	X	7
HD/REF	Bearing Repeater	ID-Type B	137		3	3	3	3	3	
HD/REF	Steering Repeater	ID-Type E	50		2	2	2	2	2	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/APX	7	CP	CP	CP	CP	CP	CP	
IFF	Mark XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	

210 (continued)

CHART 4-13

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS										
PP	Static Inverter	PP-7078( )/U	400	X	2	2	2	2	2	
PP	Power Supply	PU-2953/U	120	X	2	2	2	2	2	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/SSB	Antenna	AS-2594/U		X	X	X	X	X	X	

NOTES:
1. The AN/URC-92 is being programmed to replace the AN/SRC-8/32 Radio Set.
2. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-56, when available, will replace the AN/SPN-18. The AN/SPS-59(V) will be installed as a back up Radar Set for AN/SPS-56.
4. The AN/SRN-23, when available, will replace the AN/SPN-7 Loran Receiver and the AN/SRN-12.
5. The AN/SQN-15 will replace various types of commercial fathometers.
6. The AN/SRD-18 will replace the AN/SRD-8 Directional Finder.
7. The AN/SSN-(MK-27) will replace the MK-14 or MK-18 by attrition only.

294A Vessel, Liquid Cargo, Diesel

CHART 4-14

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
MF/HF/SSB	Radio Set	AN/SRC-38	1775	X	X	X	X	X	X	1
MF/HF	Radio Set	AN/SRC-7	2000		X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
COM/SEC	Com Sec Equip (See para 2-3c)	TSEC/KW-7	74	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22	X	2	2	2	2	2	
TTY	Teletypewriter	AN/FGC-25X	192	X	X	X	X	X	X	
TTY	Teletypewriter	TT-98A/FG	79	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	20	20	20	20	20	2

294A (continued)

CHART 4-14

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	3
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	4
NAV	Loran Receiver	AN/SPN-7	147		X	X	X	X	X	4
NAV	Sonar, Sounding Set	AN/SQN-15	226	X	X	X	X	X	X	5
ADF	Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	6
DF	Direction Finder	AN/SRD- 8	88		X	X	X	X	X	6
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	7
HD/REF	Gyro Compass	MK-14 or MK-18	1000		X	X	X	X	X	7
HD/REF	Bearing Repeater	ID-Type B	137		3	3	3	3	3	
HD/REF	Steering Repeater	ID-Type E	50		2	2	2	2	2	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/APX	7	CP	CP	CP	CP	CP	CP	

294A (continued)

CHART 4-14

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
IDENTIFICATION (continued)										
IFF	Mark XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	
MISCELLANEOUS										
PP	Power Supply	PU-4763/U	120	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/MF/LF/SSB	Antenna Group	AS-2251( )/SRC-38	75	X	X	X	X	X	X	

NOTES:
1. The AN/SRC-38 is being programmed to replace the AN/SRC-7 and the AN/SRC-8/32 Radio Sets.
2. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-56, when available, will replace the AN/SPN-18. The AN/SPS-59(V) will be installed as a back up radar set for the AN/SPS-56.
4. The AN/SRN-23, when available, will replace the AN/SPN-7 Loran Receiver.
5. The AN/SQN-15 will replace various types of commercial fathometers.
6. The AN/SRD-18 will replace the AN/SRD-8 Directional Finder.
7. The AN/SSN-(MK-27) will replace the MK-14 or MK-18 by attrition only.

294AB Vessel, Liquid Cargo, Diesel

CHART 4-15

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
MF/HF/SSB	Radio Set	AN/SRC-38	1775	X	X	X	X	X	X	1
MF/HF	Radio Set	AN/SRC-7	2000		X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
COM/SEC	Com Sec Equip (See para 2-3c)	TSEC/KW-7	74	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22	X	2	2	2	2	2	
TTY	Teletypewriter	AN/FGC-25X	192	X	X	X	X	X	X	
TTY	Teletypewriter	TT-98A/FG	79	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	20	20	20	20	20	2
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056	X	X	X	X	X	X	3

294AB (continued)

CHART 4-15

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
NAVIGATION (continued)										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	3
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	4
NAV	Loran Receiver	AN-SPN-7	147		X	X	X	X	X	4
NAV	Sonar, Sounding Set	AN/SQN-15	226	X	X	X	X	X	X	5
ADF	Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	6
DF	Direction Finder	AN/SRD-8	88		X	X	X	X	X	6
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	7
HD/REF	Gyro Compass	MK-14 or MK-18	1000		X	X	X	X	X	7
HD/REF	Bearing Repeater	ID-Type B	137		3	3	3	3	3	
HD/REF	Steering Repeater	ID-Type E	50		2	2	2	2	2	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/APX	7	CP	CP	CP	CP	CP	CP	
IFF	Mark XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	

294AB (continued)

CHART 4-15

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS										
PP	Power Supply	PP-4763/U	120	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/MF/LF/SSB	Antenna Group	AS-2251( )/SRC-38	75	X	X	X	X	X	X	

NOTES:
1. The AN/SRC-38 is being programmed to replace the AN/SRC-7 and the AN/SRC-8/32 Radio Sets.
2. The LS-518/519/SIC is a Navy intercom system, but may be replaced with a commercial model. Station quantities are subject to change.
3. The AN/SPS-56, when available, will replace the AN/SPN-18. The AN/SPS-59(V) will be installed as a back up radar set for the AN/SPS-56.
4. The AN/SRN-23, when available, will replace the AN/SPN-7 Loran Receiver.
5. The AN/SQN-15 will replace various types of commercial fathometers.
6. The AN/SRD-18 will replace the AN/SRD-8 Direction Finder.
7. The AN/SSN-(MK-27) will replace the MK-14 or MK-18 by attrition only.

381 Vessel, Supply

CHART 4-16

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
MF/HF/SSB	Radio Set	AN/SRC-38	1775	X	X	X	X	X	X	1
MF/HF	Radio Set	AN/SRC-7	2000		X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	4	4	4	4	4	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
COM/SEC	Com Sec Equip (See para 2-3c)	TSEC/KW-7	74	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22	X	2	2	2	2	2	
TTY	Teletypewriter	AN/FGC-25X	192	X	X	X	X	X	X	
TTY	Teletypewriter	TT-98A/FG	79	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	20	20	20	20	20	2
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056	X	X	X	X	X	X	3

381 (continued)

CHART 4-16

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
NAVIGATION (continued)										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	3
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	4
NAV	Loran Receiver	AN/SPN-7	147		X	X	X	X	X	4
NAV	Sonar, Sounding Set	AN/SQN-15	226	X	X	X	X	X	X	5
ADF	Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	6
DF	Direction Finder	AN/SRD-8	88		X	X	X	X	X	6
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	7
HD/REF	Gyro Compass	MK-14 or MK-18	1000		X	X	X	X	X	7
HD/REF	Bearing Repeater	ID-Type B	137		3	3	3	3	3	
HD/REF	Steering Repeater	ID-Type E	50		2	2	2	2	2	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/APX	7	CP	CP	CP	CP	CP	CP	
IFF	Mark XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	

381 (continued)

CHART 4-16

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS										
PP	Static Inverter	PP-7078( )/U	525	X	4	4	4	4	4	
PP	Power Supply	PP-2953/U	40	X	2	2	2	2	2	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/LF/SSB	Antenna Group	AS-2255( )/SRC-38	75	X	X	X	X	X	X	

NOTES:
1. The AN/SRC-38 will replace the AN/SRC-7 and the AN/SRC-8/32 Radio Sets.
2. The LS-518/518/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-56, when available, will replace the AN/SPN-18. The AN/SPS-59(V) will be installed as a back up radar set for the AN/SPS-56.
4. The AN/SRN-23, when available, will replace the AN/SPN-7 Loran Receiver.
5. The AN/SQN-15 will replace various types of commercial fathometers.
6. The AN/SRD-18 will replace the AN/SRD-8 Direction Finder.
7. The AN/SSN-(MK-27) will replace the MK-14 or MK-18 by attrition only.

7013 Vessel, Dry Cargo

CHART 4-17

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
MF/HF/SSB	Radio Set	AN/SRC-38	1775	X	X	X	X	X	X	1
MF/HF	Radio Set	AN/SRC-7	2000		X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	4	4	4	4	4	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
COM/SEC	Com Sec Equip (See para 2-3c)	TSEC/KW-7	74	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22	X	2	2	2	2	2	
TTY	Teletypewriter	AN/FGC-25X	192	X	X	X	X	X	X	
TTY	Teletypewriter	TT-98A/FG	79	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	21	21	21	21	21	2
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056	X	X	X	X	X	X	3

7013 (continued)

CCHART 4-17

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
NAVIGATION (continued)										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	3
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	4
NAV	Loran Receiver	AN/SPN-7	147		X	X	X	X	X	4
NAV	Sonar, Sounding Set	AN/SQN-15	226	X	X	X	X	X	X	5
ADF	Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	6
DF	Direction Finder	AN/SRD-8	88		X	X	X	X	X	6
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	7
HD/REF	Gyro Compass	MK-14 or MK-18	1000		X	X	X	X	X	7
HD/REF	Bearing Repeater	ID-Type B	137		3	3	3	3	3	
HD/REF	Steering Repeater	ID-Type E	50		2	2	2	2	2	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/APX	7	CP	CP	CP	CP	CP	CP	
IFF	MARK XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	

7013 (continued)

CHART 4-17

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS										
PP	Power Supply	PP-4763/U	120	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/LF/SSB	Antenna Group	AS-2250( )/SRC-38	75	X	X	X	X	X	X	

NOTES:
1. The AN/SRC-38 will replace the AN/SRC-7 and the AN/SRC-8/32 radio sets.
2. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-56, when available, will replace the AN/SPN-18. The AN/SPS-59(V) will be installed as a back up radar set.
4. The AN/SRN-23, when available, will replace the AN/SPN-7 Loran Receiver.
5. The AN/SQN-15 will replace various types of commercial fathometers.
6. The AN/SRD-18 will replace the AN/SRD-8 Directional Finder.
7. The AN/SSN-(MK-27) will replace the MK-14 or MK-18 by attrition only.

7014 Vessel, Liquid Cargo, Diesel

CHART 4-18

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
MF/HF/SSB	Radio Set	AN/SRC-38	1775	X	X	X	X	X	X	1
MF/HF	Radio Set	AN/SRC-7	2000		X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
MF/HF	Radio Set (Life Boat)	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KW-7	74	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
Control	Amplifier	AM-6747( )/GR	22	X	2	2	2	2	2	
TTY	Teletypewriter	AN/FGC-25X	192	X	X	X	X	X	X	
TTY	Teletypewriter	TT-98A/FG	79	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	20	20	20	20	20	2

7014 (continued)

CHART 4-18

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
NAVIGATION										
NAV	Radar Set	AN/SPS-56	1056	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPN-18	1000		X	X	X	X	X	3
NAV	Omega Receiver	AN/SRN-23		X	X	X	X	X	X	4
NAV	Loran Receiver	AN/SPN-7	147		X	X	X	X	X	4
NAV	Sonar, Sounding Set	AN/SQN-15	226	X	X	X	X	X	X	5
ADF	Direction Finder	AN/SRD-18	100	X	X	X	X	X	X	6
DF	Direction Finder	AN/SRD-8	88		X	X	X	X	X	6
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175		X	X	X	X	X	7
HD/REF	Gyro Compass	MK-14 or MK-18	1000		X	X	X	X	X	7
HD/REF	Bearing Repeater	ID-Type B	137		5	5	5	5	5	
HD/REF	Steering Repeater	ID-Type E	50		2	2	2	2	2	
IDENTIFICATION										
IFF	Transponder	AN/APX-72	26	CP	CP	CP	CP	CP	CP	
IFF	Control	C-6280/APX	3	CP	CP	CP	CP	CP	CP	
IFF	Antenna	AS-177A/APX	7	CP	CP	CP	CP	CP	CP	
IFF	MARK XII	KIT-1A/TSEC	11	CP	CP	CP	CP	CP	CP	

7014 (continued)

CHART 4-18

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS										
PP	Power Supply	PP-4763/U	120	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/MF/LF/SSB	Antenna Group	AS-2250( )/SRC-38	75	X	X	X	X	X	X	

NOTES:
1. The AN/SRC-38 will replace the AN/SRC-7 and the AN/SRC-8/32 Radio Sets.
2. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-56, when available, will replace the AN/SPN-18. The AN/SPS-59(V) will be installed as a back up radar set for the AN/SPS-56.
4. The AN/SRN-23, when available, will replace the AN/SPN-7 Loran Receiver.
5. The AN/SQN-15 will replace various types of commercial fathometers.
6. The AN/SRD-18 will replace the AN/SRD-8 Directional Finder.
7. The AN/SSN-(MK-27) will replace the MK-14 or MK-18 by attrition only.

2001 Boat, Passenger and Utility

CHART 4-19

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
HF/SSB	Radio Set	AN/URC-92		X	X	X	X	X	X	1
HF/SSB	Radio Set	AN/GRC-165	100				X			1
HF	Radio Set	AN/SRC-8/32	100		X	X		X	X	1
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VHF/FM	Radio Set	AN/PRC-94	2	X	3	3	3	3	3	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
ICS	Intercom Set	LS-518/519/SIC	8	X	3	3	3	3	3	2
NAVIGATION										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPS-57	169				X			3
NAV	Radar Set	AN/SPN-11	640		X	X	X	X	X	3
HD/REF	Gyro Compass	AN/SSN-(MK-27)	175	X	X	X	X	X	X	4
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	

2001 (continued)

CHART 4-19

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS										
PP	Static Inverter	PP-7078/U	525	X	X	X	X	X	X	
PP	Power Supply	PP-2953/U	40	X	2	2	2	2	2	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/SSB	Antenna	AS-2594/U	4	X	X	X	X	X	X	

NOTES:
1. The AN/URC-92, when available, will replace the AN/GRC-165 and the AN/SRC-8/32 HF Radio Set
2. The LS-518/519/SIC is a Navy intercom system, but may be replaced by a commercial model. Station quantities are subject to change.
3. The AN/SPS-59, when available, will replace the AN/SPS-57 (by retrofit) and the AN/SPN-11 Radar Set. The AN/SPS-57 is installed in USARPAC vessels only.
4. The AN/SSN-(MK-27) is a TROSCOM responsibility.

4002 Boat, Patrol

CHART 4-20

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
HF/SSB	Radio Set	AN/URC-92		X	X	X	X	X	X	1
HF/SSB	Radio Set	AN/GRC-165					X			1
HF	Radio Set	AN/SRC-8/32	100		X	X		X	X	1
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
VHF/FM	Radio Set	AN/URC-80(V)	35	X	X	X	X	X	X	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (See para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
ICS	Intercom Set	LS-518/519/SIC	8	X	4	4	4	4	4	2
NAVIGATION										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	3
NAV	Radar Set	AN/SPS-57	169				X			3
NAV	Radar Set	AN/SPN-11	640		X	X		X	X	3
NAV	Sonar Sounding Set (Indicator only)	AN/SQN-15	60				X			
ADF	Automatic Direction Finder	AN/SRD-18	88				X			
HD/REF	Gyro Compass	AN/SSN-MK-27	175	X	X	X	X	X	X	4
HD/REF	Compass Magnetic Heading System	CMHS	11	X	X	X	X	X	X	

4002 (continued)

CHART 4-20

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
MISCELLANEOUS										
PP	Static Inverter	PP-7078( )/U	525	X	X	X	X	X	X	
PP	Power Supply	PP-2953/U	40	X	2	2	2	2	2	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/SSB	Antenna	AS-2594/U	4	X	X	X	X	X	X	

NOTES:
1. The AN/URC-92, when available, will replace the AN/GRC-165 and the AN/SRC-8/32 HF Radio Set.
2. The LS-518/519/SIC is a Navy intercom system, but may be changed to a commercial model. Station quantities are subject to change.
3. The AN/SPS-59(V), when available, will replace the AN/SPS-57 (by retrofit) and the AN/SPN-11 Radar Set. The AN/SPS-57 is installed in the USARPAC vessels only.
4. The AN/SSN-(MK-27) is a TROSCOM responsibility.

CHART 4-21

4003 Boat Patrol

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
HF/SSB	Radio Set	AN/URC-92		X	CP	CP	X	CP	CP	1
HF/SSB	Radio Set	AN/GRC-165	100				X			1
HF	Radio Set	AN/SRC-8/32	100		X	X		X	X	1
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
VHF/FM	Radio Set	AN/VRC-47	100	CP	CP	CP	CP	CP	CP	3
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	
VS	Com Sec Equip (see para 2-3c	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
VS	Com Sec Equip (see para 2-3c)	TSEC/KY-65	13	CP	CP	CP	CP	CP	CP	
NAVIGATION										
NAV	Radar Set	AN/SPS-59(V)	161	X	X	X	X	X	X	2
NAV	Radar Set	AN/SPS-57	169				X			2
HD/REF	CMHS		11	X	X	X	X	X	X	
MISCELLANEOUS										
PP	Motor Generator	PU-724	40	X	X	X	X	X	X	
Suppressor	Transient voltage protector Suppressor	MX-7778/GRC	7	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	
HF/SSB	Antenna	AS-2594/U	4	CP	CP	CP	X	CP	CP	

4003 (continued)

CHART 4-21

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	

NOTES: 1. The AN/URC-92 when available will replace the AN/GRC-165 and the AN/SRC-8/32 HF Radio Set.

2. The AN/SPS-59(V) will replace the AN/SPS-57 installed in USARPAC area.

3. The AN/VRC-47 will be installed when craft is assigned to LCU-1466 units.

CHART 4-22

264 Crane, Floating 100 Ton

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
MISCELLANEOUS										
PP	Power Unit	PU-140	58	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTE: 1. The AN/URC-80(V)1 is installed as a Bridge-to-Bridge requirement, and will replace the AN/SRC-8/32.

CHART 4-23

264B Crane, Floating 100 Ton

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
MISCELLANEOUS										
PP	Power Unit	PU-140	58	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTE: 1. The AN/URC-80(V)1 is installed as a Bridge-to-Bridge requirement, and will replace the AN/SRC-8/32.

413D, Crane, Floating 60 ton

CHART 4-24

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
VHF/FM	Radio Set (Portable)	AN/PRC-94	2	X	3	3	3	3	3	
Control	Control Group	OK-295/URC-80(V)	15	X	X	X	X	X	X	
MISCELLANEOUS										
PU	Power Unit	PU-140	58	X	X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTE: 1. The AN/URC-80(V)1 is installed as a Bridge-to-Bridge requirement and will replace the AN/SRC-8/32.

CHART 4-25

7011 Floating Machine Shop

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
MF/HF	Radio Set Lifeboat	AN/SRC-6A	58		2	2	2	2	2	
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
VHF/FM	Radio Set	AN/VRC-46	85	X	X	X	X	X	X	
VS	Com Sec Equip (see para 2-3c)	TSEC/KY-57	15	CP	CP	CP	CP	CP	CP	
ICS	Intercom Set	LS-518/519/SIC	8	X	20	20	20	20	20	2
MISCELLANEOUS										
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTE: 1. The AN/URC-80(V)3 is installed as a Bridge-to-Bridge requirement and will replace the AN/SRC-8/32.

2. The LS-518/519/SIC is a Navy intercom system but may be changed to a commercial model. Station Quantities are subject to change.

7010 Barge, Refrigerated

CHART 4-26

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTE: 1. The AN/URC-80(V)1 is installed as a Bridge-to-Bridge requirement and will replace the AN/SRC-8/32.

7016 Barge, Refrigerated Cargo

CHART 4-27

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/URC-80(V)1	35	X	X	X	X	X	X	1
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	1
MF/HF	Radio Set Life boat	AN/SRC-6A	58		X	X	X	X	X	
VHF/FM	Antenna	AS-3095/URC	5	X	X	X	X	X	X	

NOTE: 1. The AN/URC-80(V)1 is installed as a Bridge-to-Bridge requirement and will replace the AN/SRC-8/32.

CHAPTER 5

OPERATIONAL PROJECT STOCK CONFIGURATION DETAILS

5-1. General. This chapter covers the Operational Project Stock which is a contingency war reserve fleet of watercraft set aside in case of an emergency. These watercraft are not being programmed for retrofit of any new communication-electronics.

5-2. Status of Old C-E Configuration. Status of the old communication-electronics is listed only for the purpose of indicating presently installed equipment, as depicted in charts 5-1 through 5-14. Description of these communication-electronics are as follows:

a. Communication.

(1) HF Radio set AN/SRC-8/32 provides amplitude-modulated (AM) radio-telephone ship-to-shore and ship-to-ship communications between coastal, harbor, and river vessels and shore stations. This radio-telephone will become obsolete according to FCC regulations by 1977 and is being replaced by the AN/URC-92 radio set in the active fleet.

(2) LF/MF/HF Radio Set AN/SRC-7 is a self-contained radio telegraph communications console designed for shipboard use. This set consists of a combination of receivers and transmitters which cover frequency range of 15.0 KHz to 25.0 MHz. This radio console is considered obsolete and is being replaced by the AN/SRC-38 radio set in the active fleet.

(3) HF Radio Set (Lifeboat) AN/SRC-6 is a portable radio-telegraph transmitter and receiver powered by a built-in hand-driven generator for emergency use in lifeboat or other survival craft. Replacement of this radio set is not being considered at this time.

(4) VHF/FM Radio Set AN/VRC-46 is a tactical FM radio set providing two-way radio telephone communication with tactical units within the frequency range of 30 to 75 MHz. There are no plans for a replacement of this radio set at this time.

(5) Intercom System AN/VIC-1 provides voice communications between crewmembers of an amphibious vessel. There are not plans for a replacement of this intercom set at this time.

b. Navigation.

(1) Radar Set AN/SPN-11 is a small boat radar. Anti-collision, piloting, position and storm warning data are obtainable over a range of 75 yards to 20 nautical miles. The AN/SPN-11 is being replaced by the AN/SPS-59(V) small boat radar set in the active fleet.

(2) The AN/SPN-18 is a large boat radar set. Anticollision, piloting, position finding and storm warning data are obtainable over a range of 55 yards to 40 nautical miles. The AN/SPN-18 is being replaced by the AN/SPS-56 large boat radar set in the active fleet.

(3) The AN/SRD-8 is a manually operated Radio Direction Finder Receiver utilized for marine navigational position fixing by obtaining bearing angles on fixed shore stations within its frequency range of 130 to 400 KHz, 520 to 1700 KHz and 1700 to 5500 KHz. It can receive CW, MCW, and AM signals. The AN/SRD-8 is being replaced by the AN/SRD-18 in the active fleet.

c. IFF. The AN/SPX-7 transponder set is obsolete and is no longer in Army inventory. The AN/SPX-7 is being replaced by the AN/APX-72 transponder set.

LCM-8 Landing Craft, Operational Project Stock Configuration Detail

CHART 5-1

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		X	X	X	X	X	

LCU-1466 Landing Craft, Operational Project Stock Configuration Detail

CHART 5-2

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	
NAVIGATION										
NAV	Radar Set	AN/SPN-11	640		x	x	x	x	x	
IFF	Transponder	AN/SPX-7			x	x	x	x	x	

320 Tug, 45 Ft, Operational Project Stock Configuration Detail

CHART 5-3

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	

377A Tug Oceangoing, 143 Ft, Operational Project Stock Configuration Detail
CHART 5-4

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	
LF/HF	Radio Set	AN/SRC-7	2000		x	x	x	x	x	
HF	Radio Set Lifeboat	AN/SRC-6	58		x	x	x	x	x	
NAVIGATION										
NAV	Radar Set	AN/SPN-18	1000		x	x	x	x	x	
NAV	Direction Finder	AN/SRD-8	100		x	x	x	x	x	

3004 Tug, 65 Ft, Operational Project Stock Configuration Detail

CHART 5-5

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	
NAVIGATION										
NAV	Radar Set	AN/SPN-11X	460		x	x	x	x	x	

3006 Tug, 100 Ft, Operational Project Stock Configuration Detail

CHART 5-6

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	
LF/MF	Radio Set	AN/SRC-7	2000		x	x	x	x	x	
HF	Radio Set Lifeboat	AN/SRC-6	58		x	x	x	x	x	
NAVIGATION										
NAV	Radar Set	AN/SPN-18	1000		x	x	x	x	x	
NAV	Direction Finder	AN/SRD-8	100		x	x	x	x	x	

8004 LARC-XV Amphibious Lighter, Operational Project Stock Configuration Detail

CHART 5-7

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85		x	x	x	x	x	
ICS	Intercom System	AN/VIC-1	11		x	x	x	x	x	
Suppressor	Transit voltage protector Suppressor	MX-7778/GRC	7		x	x	x	x	x	

8005 LARC-V Amphibious Lighter, Operational Project Stock
Configuration Detail
CHART 5-8

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85		x	x	x	x	x	
Suppressor	Transit voltage protector Suppressor	MX-7778/GRC	7		x	x	x	x	x	

2303, LARC-LX Amphibious Lighter, Operational Project Stock
Configuration Detail
CHART 5-9

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
VHF/FM	Radio Set	AN/VRC-46	85		x	x	x	x	x	
ICS	Intercom System	AN/VIC-1	11		x	x	x	x	x	
Suppressor	Transit voltage protector Suppressor	MX-7778/GRC	7		x	x	x	x	x	

2001 Boat, Passenger and Utility, Operational Project Stock
Configuration Detail
CHART 5-10

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	
NAVIGATION										
NAV	Radar Set	AN/SPN-11	640		x	x	x	x	x	

4003 Boat Patrol, Operational Project Stock Configuration Detail
CHART 5-11

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8-32	100		x	x	x	x	x	

264B Crane, 100 Ton, Operational Project Stock Configuration Detail
CHART 5-12

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	

413D Crane, 60 Ton, Operational Project Stock Configuration Detail
CHART 5-13

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS CONUS	USAREUR	USARPAC	USARSO	USARAL	NOTES
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	

7010 Barge, Refrigerated, Operational Project Stock Configuration
Detail
CHART 5-14

FUNCTION	DESCRIPTION	TYPE NUMBER	UNIT WGT	RET OBJ	GEOGRAPHICAL AREA REQ'MTS					NOTES
					CONUS	USAREUR	USARPAC	USARSO	USARAL	
COMMUNICATIONS										
HF	Radio Set	AN/SRC-8/32	100		x	x	x	x	x	

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  55-116
  55-117
  55-118
  55-128
  55-129
  55-138
  55-139
  55-157
  55-500

NG: None

USAR: Corps (3)

For explanation of abbreviations used, see AR 310-50.

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