

CHAPTER 1

STATION ELECTRONIC SYSTEMS PLANNING

1.1 BASIC PLANNING PROCEDURE

The communications resources for a naval shore station are planned and implemented on the basis of overall Navy requirements. These requirements include those of the Defense Communications Agency (DCA) and those of other services that the Navy may support. See NAVELEX Standard plan, functional block diagrams.

Individual shore station resource requirements are set forth in a document entitled "Communications Operating Requirements" (COR) promulgated by Commander Naval Communications Command. The development of resource capabilities to satisfy the COR is the responsibility of the Naval Electronic Systems Command (NAVELEX). To meet this responsibility NAVELEX has developed a formal planning procedure that requires preparation of a Base Electronic System Engineering Plan (BESEP). A BESEP translates the functional requirements of the COR into a statement of resource requirements, and it details the engineering plan for meeting the objectives of the project.

Requirements for changes to an existing facility may be made known by the operating command of the station. Such may be the case when operational requirements exceed the station capability or when general updating of equipment is required as the result of normal wear or technical advances. In any case, the method of meeting these requirements is through preparation of a BESEP by NAVELEX. Specific details of the content required in a BESEP are contained in the effective edition of NAVELEX Instruction 11000.1()

1.2 COMMUNICATIONS OPERATIONAL REQUIREMENTS

The COR documents are oriented toward individual stations and are maintained as current catalogs of circuits being supported (active circuits) and those planned for the near future. Changes to the circuit requirements for a station are initiated by revising or re-issuing the COR.

The COR for a station identifies distant terminals and local tributaries and specifies the radio-frequency band for each link to a distant station. In addition, the circuit operational function, type of emission, and other identifying data are shown. The information included in figures 1-1 and 1-2 does not represent the requirements for any particular location but is merely intended to show the general content of a COR. For overall circuit planning, a system designer would use the COR for each terminal station to ensure that sufficient equipment is available or is being planned, and to verify that circuit characteristics are compatible.

COMMUNICATIONS OPERATING REQUIREMENTS - CIRCUITS

DATE

UIC

LINE NR. (1)	CCSD NTSD (2)	COM DESIG (3)	MAJOR TRUNK SYSTEM (4)	CH NR. (5)	FROM (6)	TO (7)	TYPE OPER. (8)	MOD RATE (9)	SECY RQMT (10)	NELEX PLAN (11)	CIRCUIT STATUS & AVAIL (12)	RCC (13)	PE (14)	VALID NR. (15)	RP (16)	RE-MARKS (17)
001	714B F999		BBST05	1	BFC NORVA	OPF	F	AH	S		A-A			522-0 73		PRI S/S
002	900A P888		87BA		BFC NORVA	TXO DRIVER	F	AH	U		A-A			522-0 73		16 CH. SYS.

NOTE: 1. This is a sample only and the entries have no relationship to operational doctrine or directives.
 2. The COR FORMAT CODING LEGEND is promulgated by COMNAVCOMM as part of the COR forwarding letter.

Figure 1-1. Representative COR Page

COMMUNICATIONS OPERATING REQUIREMENTS - TRUNKS

COMMUNICATIONS OPERATING REQUIREMENTS - TRUNKS											DATE							
UIC	LINE NR.	TRUNK NR.	COM DESIG	NR. CH	FROM	TO	COVER DIR	COVER DIST	FREQ RANGE	JANAP DESIG/EMIS	NELEX PLAN	NCOMM FUNCT PLAN	TNK STATUS & AVAILABILITY	RCC	PE	VALID NR.	RP	RE-MARKS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	001	DFXF		84	BFC NORVA	BASE	OMNI	LOS	200-300 Mhz	X600 37F1		A-G	A-G			522-073		Mobile Units
	002	BH25		1	BFC NORVA	OPF	OMNI	1800	4-30 Mhz	X601 37F2		A-A	A-A			522-073		FLT* SUB BCST

NOTE: 1. This is a sample only and the entries have to relationship to operational doctrine or directives.
 2. The COR FORMAT CODING LEGEND is promulgated by COMNAVCOMM as part of the COR forwarding letter.

