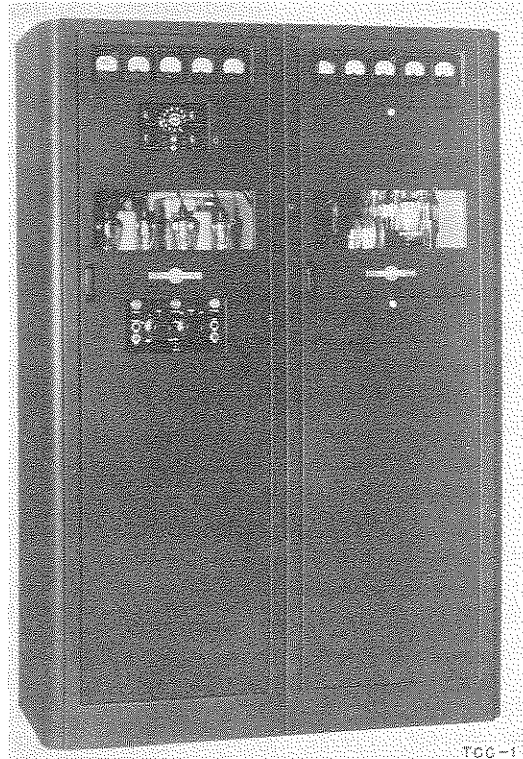


STATUS: Limited Standard
 CLASSIFICATION OF EQUIPMENT: Unclassified
 USING SERVICE: Navy
 DATE OF THIS SHEET: 9 May 52

AN/FRT-TYPE

SERVICE TYPE NUMBER: TCC-1, TCC-3
 RADIO TELEPHONE & TELEGRAPH TRANS EQUIP



Radio Telephone and Telegraph Transmitting Equipments TCC-1 and TCC-3 are used to transmit radiotelegraph or radiotelephone signals at medium power in the 2.0 to 18.1 m-c frequency range for point-to-point, ground-to-air, and transoceanic communication. Ten preset, crystal-controlled frequencies are available and can be selected by a remote control.

By use of the operator's control unit and a four-wire control line, the transmitter can be dial-tuned, started, or stopped and the r-f carrier turned on or off, keyed, or modulated; all operations being controlled from the remote operating position.

The control unit includes an audio input circuit and a muting relay switch used when a receiver is operated jointly with this transmitter. This unit also includes intercommunication connections for a telephone line linking local and remote positions.

This transmitter, when operated from a 25-cyc, 3-phase power source, uses Collins Radio Frequency Changer 231N500 and other slightly different major components.

AN/FRT-TYPE		INSTRUCTION LITERATURE: NavShips 95306, 95308
TCC-1, TCC-3	:SERVICE TYPE NUMBER	CLASSIFICATION OF EQUIPMENT: Unclassified
RADIO TELEPHONE & TELEGRAPH TRANS EQUIP		USING SERVICE : Navy
		DATE OF THIS SHEET : 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Autotune RF Bay, 1014-1, -2, -5	78 x 24 x 24	600
1	Power and Modulator Bay, 1021-1, -2, -5	78 x 24 x 24	1,000
1	Operator's Control Unit 177G-1, -3, -5	10-1/2 x 19 x 10	53
1	Operator's Desk Set 223G-1, 223G-3	5-1/2 x 51/8 x 7-1/2	5.75
1	Frequency Converter 231N500 (supplied only for operation from 25-cyc power source)	Not Available	Not Available

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

APPROXIMATE RANGE (IN MILES): Extended.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10;
AN/FRR-3, -4, -7, -12, -28, -32; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6,
-16, -20, -22; AN/PRC-7, -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22,
-23; AN/VRC-1, -4; AN/VRR-2; BC-312, -342, -348, -779, -794, -1004; MBS; MQ; OA-58/FRC,
-59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/U, -206/PR, -208/FR, -209/FR,
-210/U, -211/U, -213/SR, -274/FRR, -320/FRC, -388/URR; RAL; RAO; RAS; RBB; RBC;
RBG; RBH; RBM; RBO; RBP; RBS; RCF; RCG; RCH; RDE; RDM; REA; SCR-177, -188,
-193, -244, -274, -281, -399, -499, -506, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH;
TCP; TCS; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 75A-2; Fisher TS 253;
Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 2.0 - 18.1.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw, voice.

POWER OUTPUT: Cw: 1 kw.
Mcw: 600 w.

POWER REQUIREMENTS: Transmitter: 4.50 kw, 220 v, 25/60 cyc, 3 phase, ac.
Operator's control unit, TCC-1: 105-125 v, 25/50/60 cyc, 1 phase, ac.
Operator's control unit, TCC-3: 105-125 v, 25 cyc, 1 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Telephone and Telegraph Transmitting Equipment TCC-1 or TCC-3 measures 78 x 48 x 24
inches, net weight 1,659 pounds, volume 52 cu ft, 1.3 ship tons.