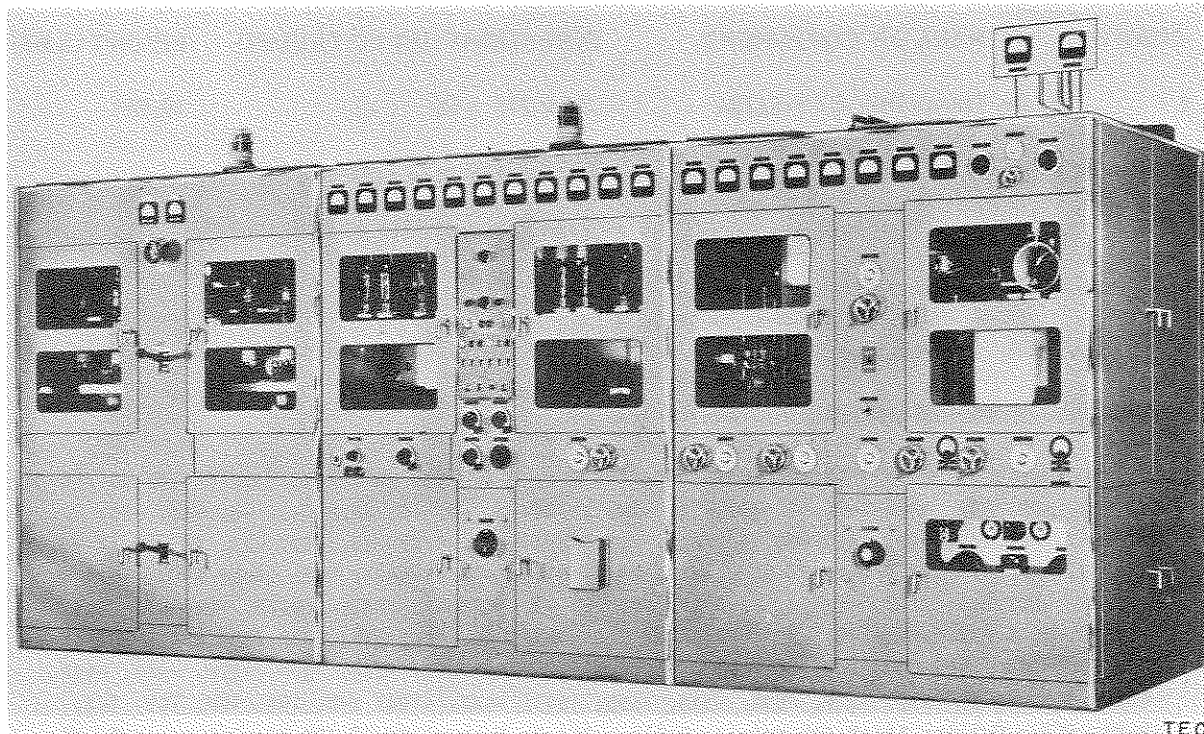


STATUS: Substitute Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 9 May 52

AN/FRT-TYPE

SERVICE TYPE NUMBER: **TEC**
RADIO TRANSMITTING EQUIPMENT



Radio Transmitting Equipment TEC is used for high-power, general purpose, h-f radiotelegraph, or frequency-shift operation in shore-to-ship and point-to-point communication. Vacuum-tube keying speeds up to 400 wpm are obtainable, and provision is made for frequency shift keying through connection of an external frequency shift keyer.

It may be used in conjunction with a single-sideband transmitter, the output of which is fed into the power amplifier stage of TEC.

Six preset crystal-controlled channels are available, and provision is made for connection of an external master oscillator.

This transmitter works into a balanced two-wire transmission line of 550 to 650 ohm impedance, with zero reactance.

It has an automatic control feature which will shut down the equipment if it is not keyed for a predetermined period, which is adjustable from two to 30 minutes.

The control circuit provides overload protection for driver, and power amplifier stages both.

AN/FRT-TYPE		INSTRUCTION LITERATURE: NavShips 900.212X
TEC		CLASSIFICATION OF EQUIPMENT: Unclassified
:SERVICE TYPE NUMBER		USING SERVICE : Navy
RADIO TRANSMITTING EQUIPMENT		DATE OF THIS SHEET : 9 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CYV-52354	84 x 216 x 56	19,584

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground, fixed.

APPROXIMATE RANGE (IN MILES): Short to medium.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -9, -21, -25, -26; AN/ARR-15; AN/FRC-10; AN/FRR-3, -4, -12, -28, -32; AN/GRC-3, -4, -9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -16, -22; AN/PRC-7, -8, -19, -20; AN/SRR-3, -8, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -5, -8, -13, -16, -20; AN/VRQ-1; BC-312, -342, -348, -779, -794, -1004; MBS; 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, -293, -294, -298, -399, -499, -506, -508, -509, -510, -528, -536, -543, -585, -593, -694, -704; TBO; TBX; TCH; TCO; TCS; AR-88 (RCA); Collins 18S-4 (AF Model); Collins 75A-2; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 4 - 21.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, frequency shift (when external keyer shifter is used).

POWER OUTPUT: Normal operation: 40 kw.
Without power amplifier: 2 kw.

POWER REQUIREMENTS: 95 kw, 230 v, 60 cyc, 3 phase, ac.

PHYSICAL CHARACTERISTICS

Radio Transmitting Equipment TEC measures 84 x 216 x 56 inches, net weight 23,992 pounds.
Packed for domestic shipment: total weight 36,119 pounds, total volume 2,258 cu ft. Shipped in 52 packages.