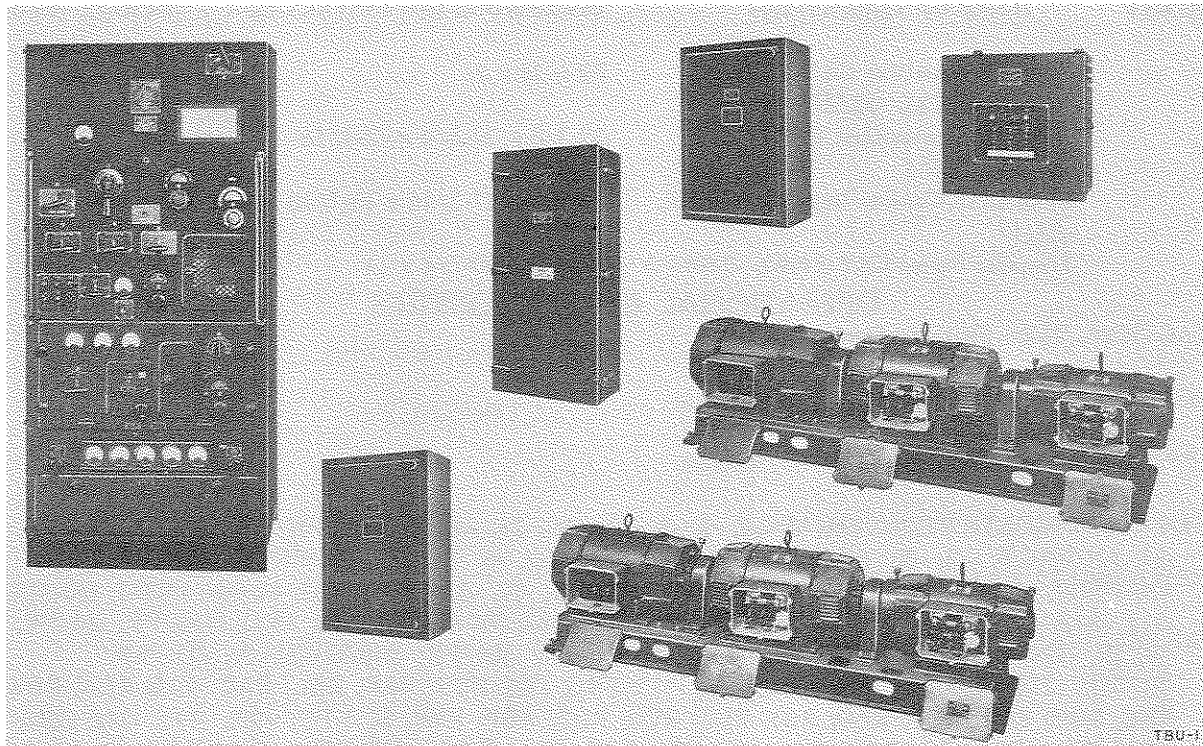


STATUS: Substitute Standard
CLASSIFICATION OF EQUIPMENT: Unclassified
USING SERVICE: Navy
DATE OF THIS SHEET: 2 May 52

AN/FRT-TYPE

SERVICE TYPE NUMBER: TBU-1, -3
RADIO TELEGRAPH TRANSMITTING EQUIPMENT



Radio Telegraph Transmitting Equipments TBU-1 and TBU-3 are medium-power, m-f radiotelegraph transmitters for shore installation. The emitted frequency is continuously variable throughout the frequency range 0.3 to 2.0 mc.

TBU-1 and TBU-3 are similar to TBU and TBU-2 but have been especially adapted for service at shore stations by the addition of duplicate motor generator sets and magnetic controllers and a landline control unit.

TBU-1 and TBU-3 can be operated locally or from a remote location by means of the landline control unit.

Telegraph keying speeds up to 500 wpm are possible by means of vacuum tube keying and up to 100 wpm by means of relay keying.

AN/FRT-TYPE		INSTRUCTION LITERATURE: NavShips 900,384
TBU-1, -3	SERVICE TYPE NUMBER:	CLASSIFICATION OF EQUIPMENT:Unclassified
RADIO TELEGRAPH TRANSMITTING EQUIPMENT		USING SERVICE : Navy
		DATE OF THIS SHEET : 2 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
1	Radio Transmitter CAY-52223, -52224, -52225, -52227	72 x 34 x 24	769
2	Motor Generator Unit CAY-21447, -21448, -21703	22-1/8 x 20-3/4 x 77-1/16	1,300
1	Land Line Control Unit CAY-23216, -23217	20-3/4 x 21-3/16 x 11-1/16	81
1	Transfer Panel CAY-24083, -24084-A	39-7/8 x 20-1/4 x 11	108

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shore stations.

INSTALLATION: Ground.

APPROXIMATE RANGE (IN MILES): Medium.

CAN COMMUNICATE WITH: AN/ARC-2, -5, -8, -21, -25, -26; AN/ARR-15, AN/FRR-4, -7, -12, -28, -32; AN/GRC-9, -13, -26; AN/GRR-2, -3, -5; AN/MRC-2, -6, -20, -22; AN/PRC-7; AN/SRC-3; AN/SRR-3, -8, -11, -12, -13; AN/TRQ-1; AN/URR-10, -22, -23; AN/VRC-1, -4; AN/VRR-2; BC-312, -314, -342, -344, -348, -453, -779, -794, -1004; MBS; MQ; OA-58/FRC, -59/FRC; R-62/PR, -80/PR, -96/SR, -129/U, -203/SR, -205/SR, -206/PR, -208/FR, -209/FR, -210/U, -211/U, -212/SR, -213/SR, -215/SR, -247/URR, -274/FRR, -320/FRC, -388/URR; RAK; RAL; RAO; RAS; RBA; RBB; RBG; RBH; RBL; RBM; RBO; RBS; RCG; RCH; RDE; RDF; RDM; SCR-177, -188, -193, -244, -274, -281, -399, -499, -506, -543, -593, -614, -704; TBO; TBX; TCH; TCP; TCS; AR-88 (RCA); ARC Type 12; Collins 18S-4 (AF Model); Collins 75A-2; Fisher TS 25-3; Hammarlund SP-600-JX; National HRO-50.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE IN MEGACYCLES: 0.3 - 2.0.

TYPE MODULATION: Am.

TYPE OF SIGNAL: Cw, mcw.

POWER OUTPUT: Cw: 1 kw.

Mcw: 500 w.

POWER REQUIREMENTS: TBU-1: 220 v, 25/60 cyc, 3 phase.

TBU-3: 220/440 v, 25 cyc, 3 phase.

PHYSICAL CHARACTERISTICS

Radio Telegraph Transmitting Equipment TBU-1 or TBU-3 measures 72 x 34 x 24 inches, net weight 3,578 pounds. Packed for domestic shipment: total weight 4,182 pounds, total volume 169.12 cu ft, 4.23 ship tons. Shipped in 9 packages.