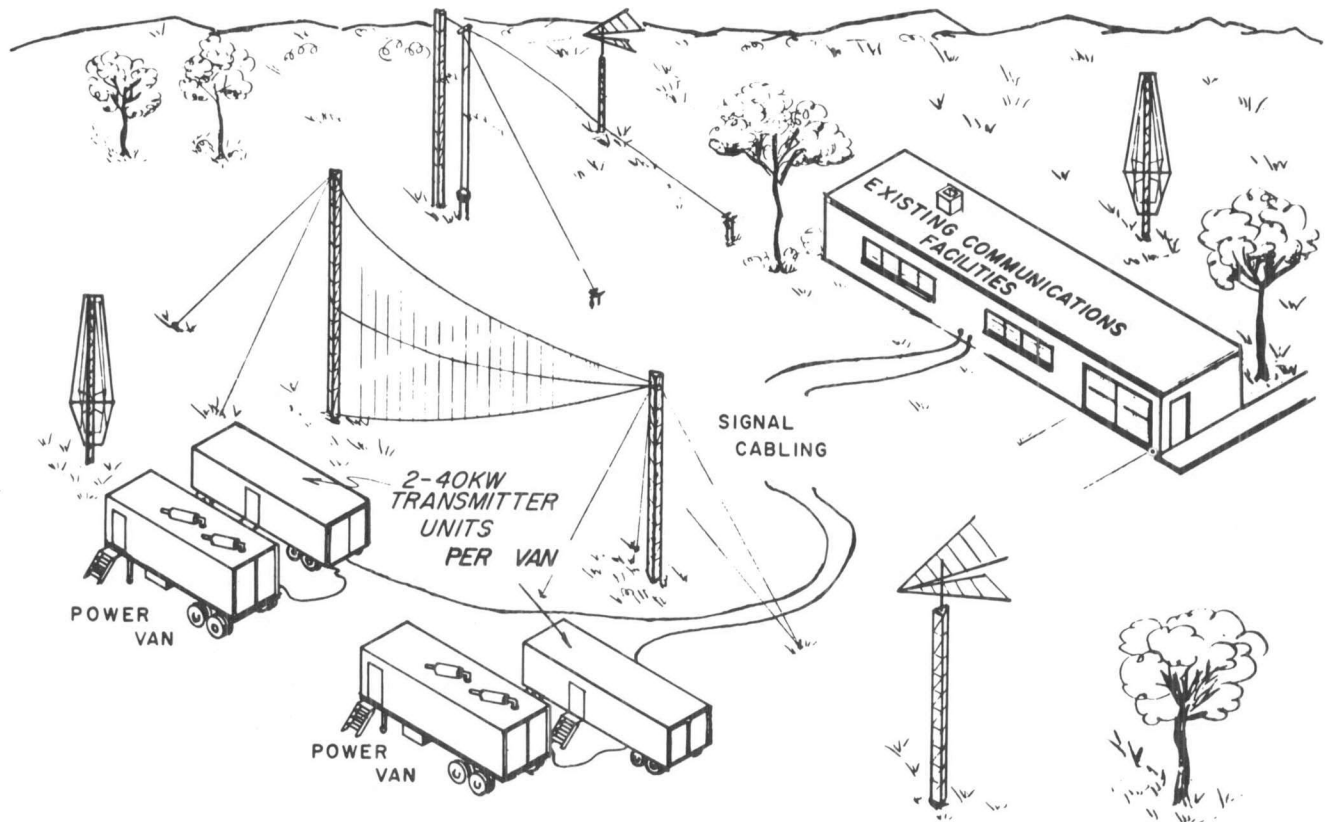




TECHNICAL BULLETIN NUMBER 9506

H. F. Transportable High-Power Transmitting System TMC Model SYM-2001



● FACILITIES

- 40-kw Transmitters, Synthesized, 1 part in 10^8
- Signal Patching Bay, Monitoring
- Coaxial Cable Pressurizing Equipment
- Battery Supplies
- Power Generator Sets

● POINT-TO-POINT BROADCAST

- SSB ● ISB ● AM ● TONE ● CW ● FSK ● FAX

The TMC Model SYM-2001 Transportable High-Power Transmitting System is a contingency facility designed to provide high-powered transmitting support to an existing communication station.

The entire system, consisting of two 40-foot by 8-foot air-conditioned transmitter vans and two 40-foot power trailers, can readily be transported and placed into service wherever there exists a requirement for reliable, quickly available transmitting power.

H. F. Transportable High-Power Transmitting System

The system provides as many as eight independent-sideband send channels that can accommodate as many as sixteen standard 3-kc voice and multi-channel teletype or data tone circuits from external terminal equipment. Keyers incorporated in the transmitters allow other modes of operation including CW and FSK.

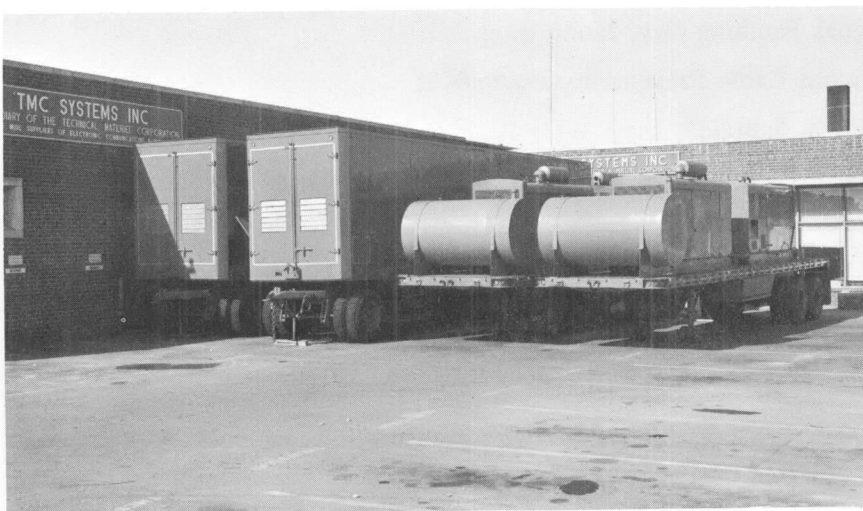
Synthesized AN/FRT-40 transmitters, providing both high power and inherent frequency stability, are used in this system. Two transmitters and a control bay containing associated ancillary equipment are installed in each transmitter van.

Included in the control bays are facilities for patching incoming lines to transmitters, DC battery supplies that furnish current for keyed circuits, audio and DC monitoring equipment, a 6-station inter-communication system, and controls for positioning log-periodic antennas.

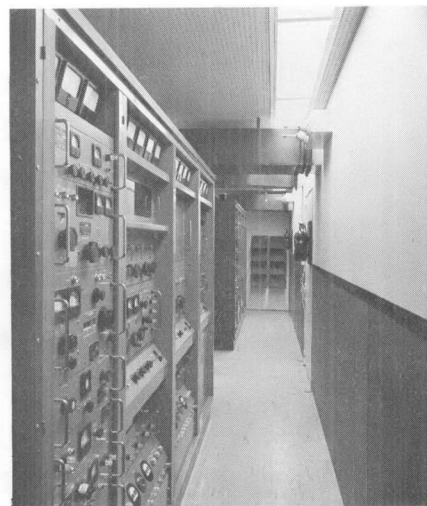
Both 600-ohm balanced and 50-ohm unbalanced outputs are provided for each transmitter in order to meet any antenna and transmission line requirement.

Log-periodic antennas for each transmitter are furnished as standard equipment. Other facilities provided include pressurizing and dehydration equipment for air-dielectric coaxial transmission lines, and all necessary transmission lines, signal cable and power cable to complete the system.

Two 75-kilowatt diesel generators and a 1000-gallon capacity fuel tank are mounted on each generator trailer.



View of system assembled for delivery



Transmitter van, interior view

TECHNICAL SPECIFICATIONS, TMC MODEL SYM-2001

AN/FRT-40 TRANSMITTER

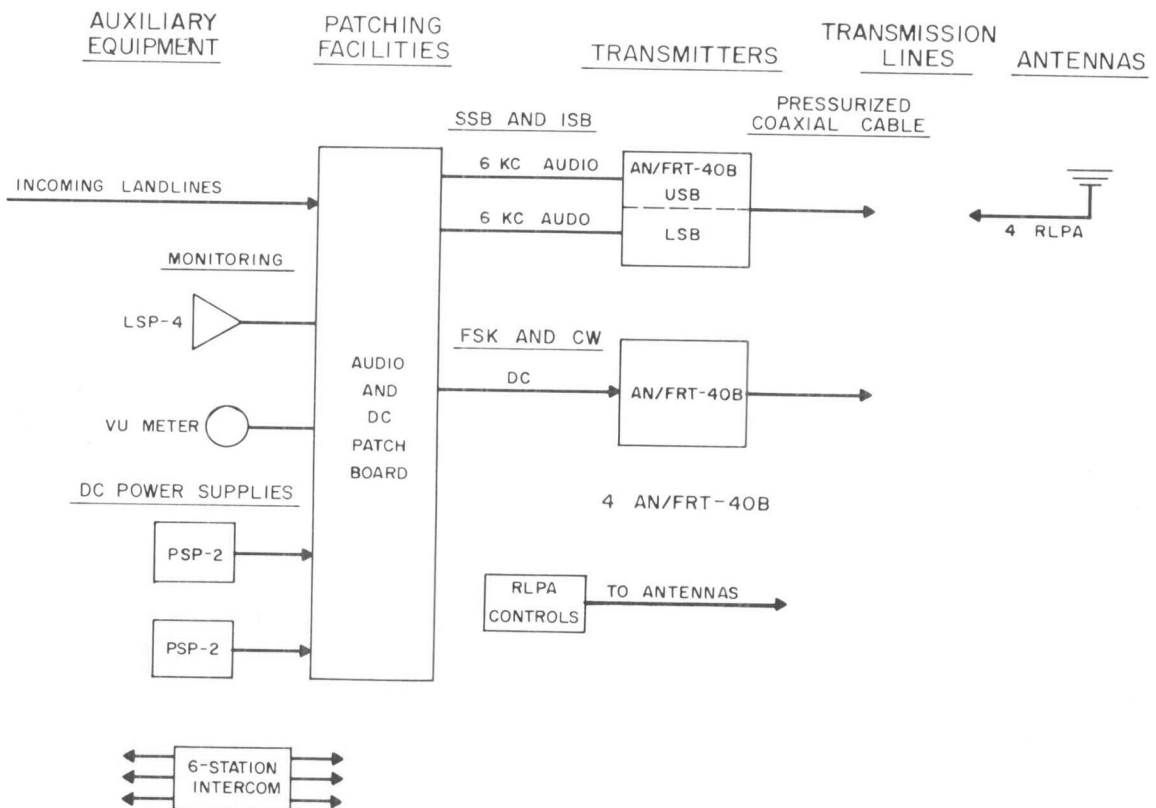
RF POWER OUTPUT:	40 kilowatts (PEP)
MODES OF OPERATION:	SSB, ISB, AM, CW, FSK, AM Equivalent and FAX
FREQUENCY RANGE:	2 to 28 megacycles, tunable in 100-cycle steps
POWER INPUT:	208V, 3-phase, 72 kilowatts

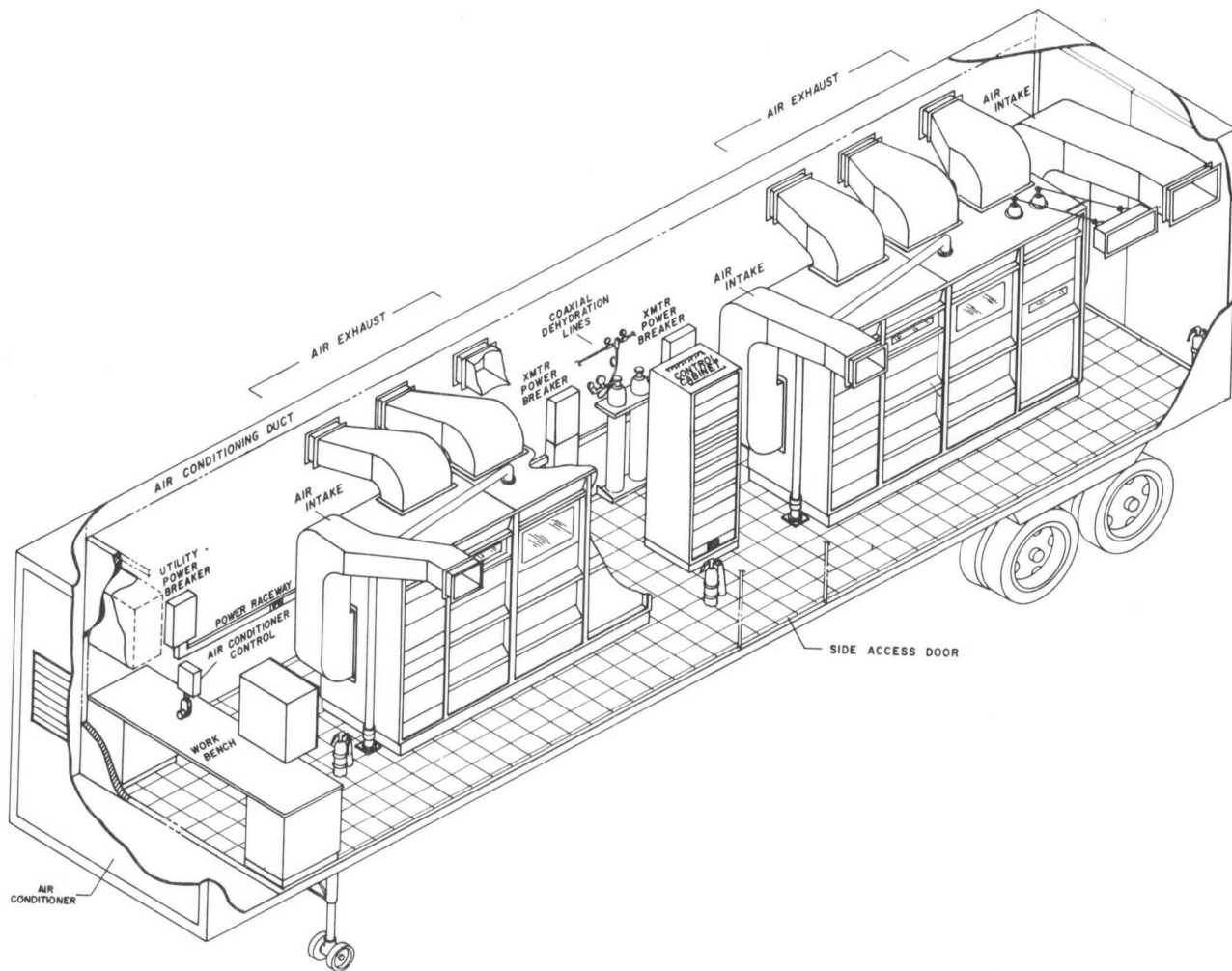
TRANSMITTER VAN

AIR CONDITIONING SUPPLIED:	20-ton capacity system
GROSS WEIGHT:	24,000 pounds

GENERATOR TRAILER

PRIMARY POWER OUTPUT:	208V, 3-phase, 75-kilowatts (each generator)
FUEL TANK CAPACITY:	1000-gallon





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