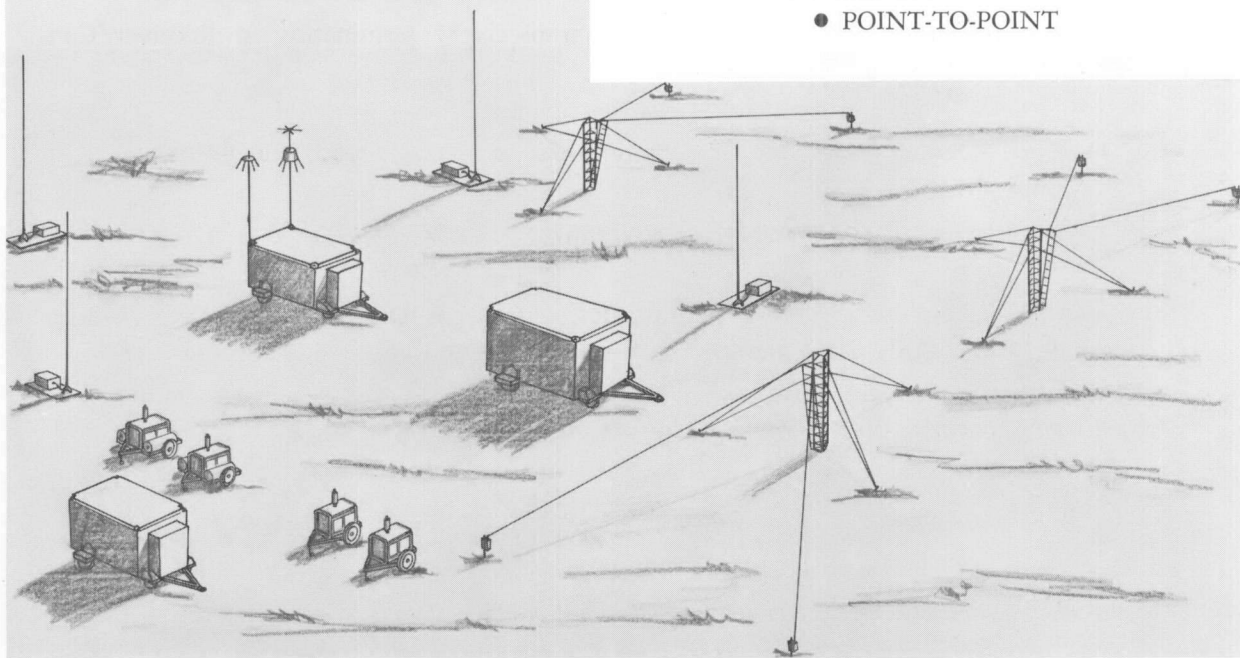
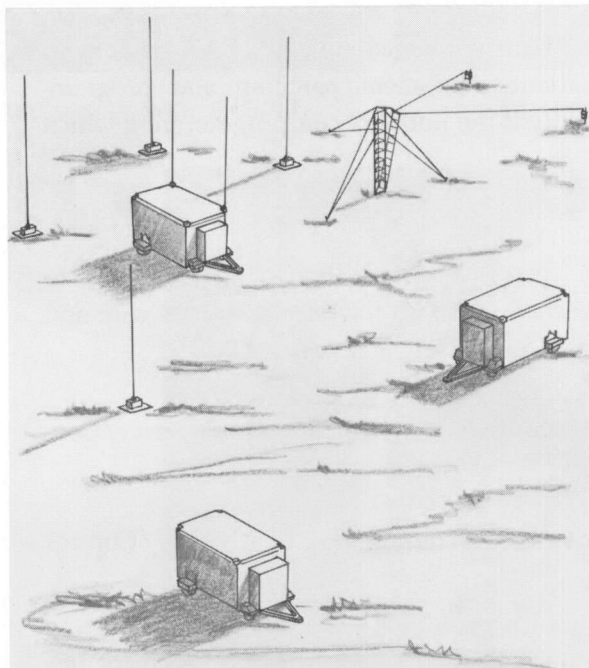


TECHNICAL BULLETIN NUMBER 9501

Air-Transportable Contingency Communication System TMC Model SYM 2003



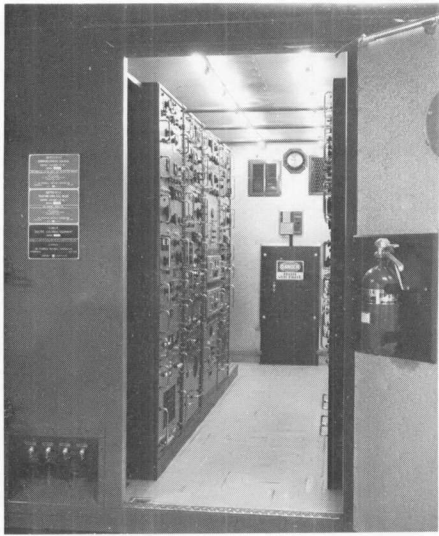
- TRANSMIT/RECEIVE FACILITIES
 - 1 kw transmitters, synthesized, 1 part in 10^8
 - 10 kw synthesized single sideband transmitters
 - UHF-VHF transmit/receive facilities
 - WWV frequency monitoring
 - 16 channel frequency multiplex system
 - 4 channel time multiplex system
 - Telephone and teletype facilities
- POWER GENERATOR SETS
- ANTENNAS
- PATCHING FACILITIES
- INTERCONNECTING CABLES
- SSB
 - ISB
 - AM
 - AM equivalent
 - CW
 - FSK
 - FAX
- GROUND-TO-AIR
 - SHIP-TO-SHORE
 - POINT-TO-POINT

The TMC Model SYM-2003, Air Transportable Communications System, is designed to provide reliable high capacity long range point to point, ship/shore, air/ground/air and tape relay contingency communications on short notice, as the strategic or tactical situation demands. It can be moved and set up quickly to furnish medium and long range high frequency and short range VHF/UHF radio communications using standard voice, teletype, tape relay and multichannel terminal equipment.

The TMC Model SYM-2003 has exceptional inherent capability and flexibility. The high frequency radio transmitters can be operated in all of the standard emission modes: SSB, ISB, Compatible AM, CW, FSK, Tone Keying, Voice, and Facsimile (provided auxiliary FAX equipment is furnished). Computer program board techniques facilitate equipment patching and programming. Typical of the Model SYM-2003 System capability is the initial circuit programming which provides for:

- a. One Full-Duplex long range (10 KW) point-to-point ISB circuit equipped to furnish one voice channel and 16 teletype channels. This includes one order wire and provision for two secure teletype circuits in the Receiver/Control Unit.
- b. One Full-Duplex radioteletype circuit, with provision for termination in Receiver/Control Unit.
- c. One Full-Duplex voice SSB circuit, with provision for termination in Receiver/Control Unit or extending to local Command Post.
- d. One Full-Duplex four-channel time division multiplex circuit, with provision for termination of one tty order wire in Receiver/Control Unit.
- e. One Half-Duplex SSB voice circuit (HF transceiver) terminating in Receiver/Control Unit.
- f. One Half-Duplex VHF voice circuit, terminating in Receiver/Control Unit.
- g. One Half-Duplex UHF voice circuit, terminating in Receiver/Control Unit.
- h. Eight Full-Duplex Teletype Relay facilities, with provision for associated security equipment, plus 3 ASR TTY and two each spares TDs & Reperfs in Tape Relay Unit.
- i. 26 pair terminal for extension to local Command Post.

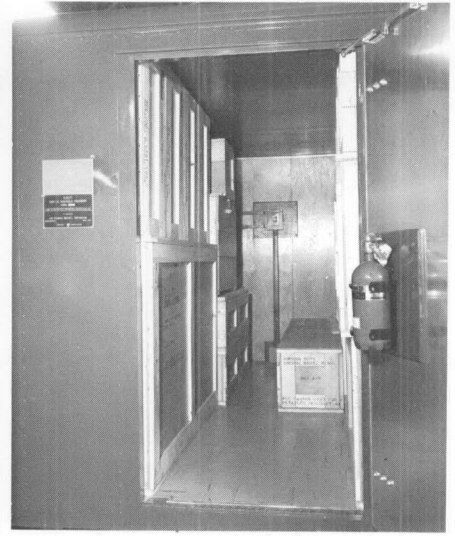
NOTE: This System can be adapted for Data Retrieval and MAPS Systems.



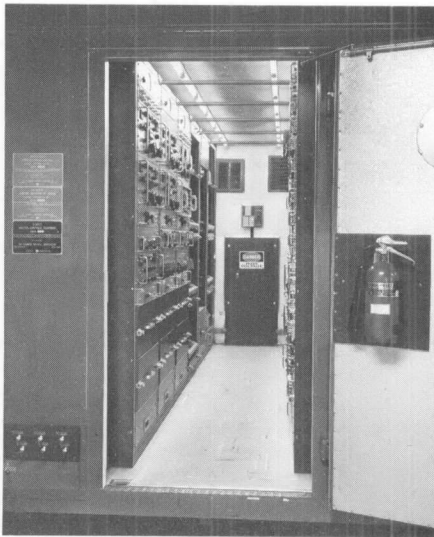
MEDIUM POWER SHELTER



HIGH POWER SHELTER



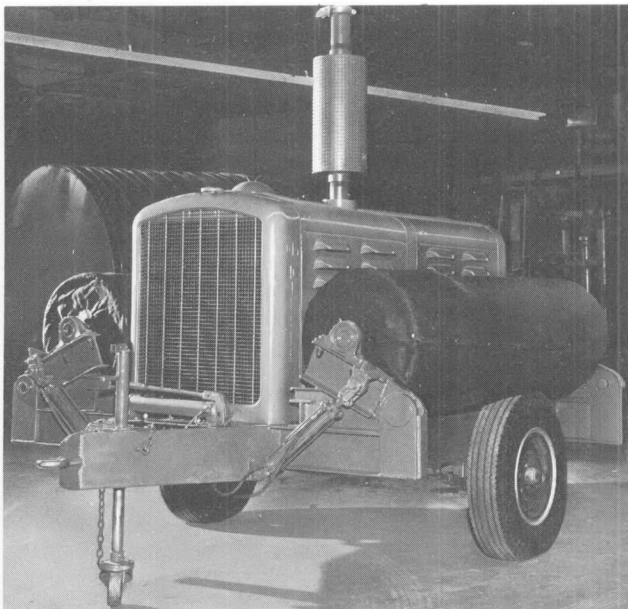
MAINTENANCE AND SUPPLY SHELTER



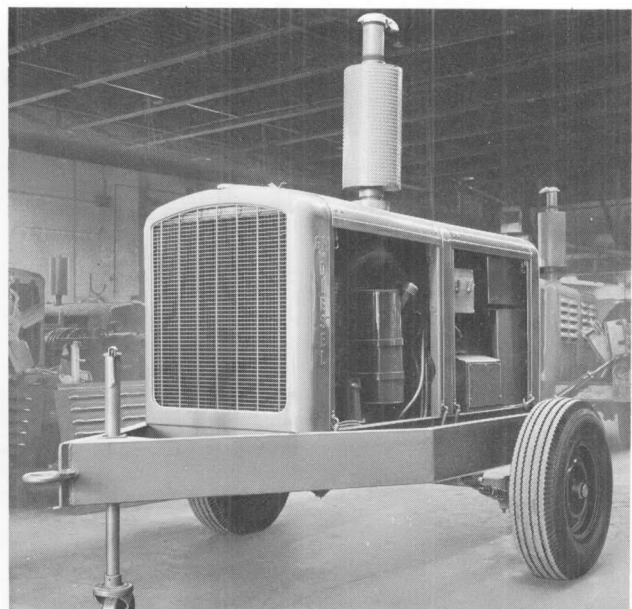
RECEIVER CONTROL SHELTER



RELAY SHELTER



WITH REELS

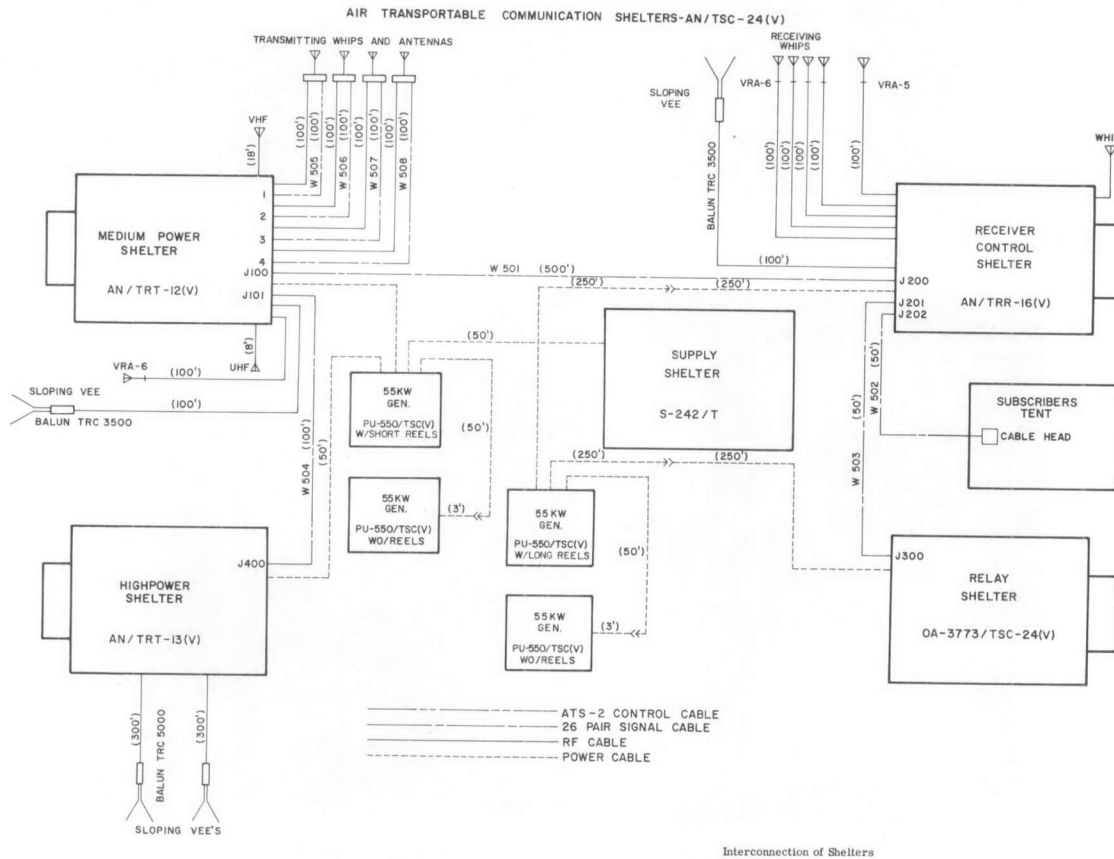


WITHOUT REELS

Diesel-Generator Sets

ACCESSORY EQUIPMENT:

Operation of this system from an aircraft by means of 400 cycle to 60 cycle converter is available.
Turbine-driven power supplies available.



INTERCONNECTION OF SHELTERS

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