



NJ Office of Emergency Management

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FACT SHEET – NEW JERSEY OFFICE OF EMERGENCY MANAGEMENT STRATEGIC TECHNOLOGY RESERVE EQUIPMENT

The STR equipment consists of three “Communications Site on Wheels” (CSOWs), one large unit and two smaller units.

The large CSOW is a PEPRO WMRS 1000 Walk-in Secure Mobile Site which is equipped as follows:

- A 95-foot hydraulic antenna mast with VHF, UHF, and 700/800 MHz antennas permanently mounted
- 40 kilowatt (KW) diesel generator, with on-board 140 gallon fuel tank
- 200 amp electrical service in the shelter
- Dual 2.5 ton Heating, Ventilation, and Air Conditioning (HVAC) units in lead-lag configuration installed on the shelter
- Faraday shielded aluminum walk-in enclosure
- A four channel 700 MHz P25 trunked radio site operating on 700 MHz Interoperability frequencies, installed and operational
- 102 Motorola XTST1500 Model 1.5 700 MHz portable cache radios programmed for operation on the above trunked system and 700/800 MHz conventional channels

- Permanently rack-mounted multi-unit conditioning chargers for the above cache radios
- VHF base stations operating on the National VCALL and VTAC frequencies
- UHF repeater stations operating on National, Statewide, and Regional Interoperability UCALL and UTAC frequencies.
- 800 MHz repeater stations operating on National, Statewide, and Regional Interoperability 8CALL and 8TAC frequencies
- 700/800 MHz, UHF and VHF control stations to capture local and statewide frequencies not programmed in the repeaters
- Motorola MOTOBRIDGET interoperable gateway unit to provide cross-patching between the above systems to create *ad hoc* interoperability networks on the scene
- NICE logging recorder to capture all communications
- Shore power cables to utilize commercial power where and when available and for long term deployment
- Laptop computer and software for management of the MOTOBRIDGET gateway and other programming functions

The two smaller CSOWs units are PEPRO SMRS650 Secure Mobile Radio Sites which are equipped as follows:

- 60-foot hydraulic antenna mast with VHF, UHF, and 700/800 MHz antennas permanently mounted
- 20 KW diesel generator with on-board 140 gallon fuel tank
- 100 amp electrical service installed in the CSOW
- Dual 1.5 ton HVAC units in lead-lag configuration installed
- Faraday shielded aluminum enclosure
- VHF base stations operating on the National VCALL and VTAC frequencies
- UHF repeater stations operating on National, Statewide, and Regional Interoperability UCALL and UTAC frequencies
- 800 MHz repeater stations operating on National, Statewide, and Regional Interoperability 8CALL and 8TAC frequencies
- 700/800 MHz, UHF and VHF control stations to capture local and statewide frequencies not programmed in the repeaters
- Motorola MOTOBRIDGET interoperable gateway unit to provide cross-patching between the above systems to create *ad hoc* interoperability networks on scene

- NICE logging recorder to capture all communications
- Shore power cables to utilize commercial power where and when available and for long term deployment
- Laptop computer and software for management of the MOTOBRIDGET gateway and other programming functions

Additionally, the two smaller CSOWs units are each deployed with a separate utility trailer which carries a cache of radios and supporting equipment:

- 54 P25 700/800 MHz Motorola XTST 1500 Model 1.5 portables
- 24 UHF Band 2 Motorola XTST 1500 Model 1.5 portables
- 24 VHF Motorola XTST 1500 Model 1.5 portables
- Rapid chargers
- Spare batteries
- Single-use lithium batteries
- Generator
- Programming computer and software
- Work table

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