

<u>ITEM</u>	<u>APPLICABILITY</u>
GMRS PORTABLE RADIO EQUIPMENT (See Details on next Sheet):	Any CERT field crew member. Allows coordination among team members, and between field crew and command post. These handheld radios can either communicate directly with other radios within a mile or so, or with command posts city-wide through radio repeaters. Portable radios operate at up to 5 Watts RF power.
GMRS HOME BASE STATION EQUIPMENT (See Details on next Sheet):	Any CERT member wishing to operate from home. Useful for anyone acting as weekly Net Control Operator. Useful for neighborhood command post operations, and supervisory coordination among command posts, even if radio repeaters are inoperative. Useful for house-bound CERT members. Base station radios operate at up to 50 Watts RF power.
GMRS MOBILE STATION EQUIPMENT (See Details on next Sheet):	Any CERT member wishing to operate from their vehicle, often while driving to set up a command post location. Useful for anyone acting as weekly Net Control Operator. Useful for roving or fixed neighborhood command post operations, and supervisory coordination among command posts, even if radio repeaters are inoperative. Useful for field operations in inclement weather. Useful when designated indoor command post locations are locked. Mobile radios operate at up to 50 Watts RF power, and are either powered directly by the vehicle battery or cigar lighter receptacle.
GMRS COMMAND POST GMRS RADIO EQUIPMENT (See Details on next Sheet):	This is ancillary equipment required to relocate the GMRS Mobile Station Equipment to a fixed command post location.
VARA-FM/AMATEUR BASE STATION (See Details on next Sheet):	Any CERT member with an Amateur Radio license wishing to act as a VARA-FM data transfer node operating from home. These radios can also be used to communicate by voice with other CERT team amateur operators. Base station radios operate at up to 50 Watts RF power. Recommended for two home stations per City Council District.

VARA-FM/AMATEUR MOBILE RADIO STATION (See Details on next Sheet):	Any CERT member with an Amateur Radio license wishing to act as a VARA-FM data transfer node operating from their vehicle. These radios can also be used to communicate by voice with other CERT team amateur operators. Mobile radios operate at up to 50 Watts RF power. Recommended for one mobile station per City Council District, in support of field command post status reporting.
VARA-FM/AMATEUR COMMAND POST AMATEUR RADIO EQUIPMENT (See Details on next Sheet):	This is ancillary equipment required to relocate the VARA-FM Mobile Station Equipment to a fixed command post location.
COMMAND POST AC/DC POWER DISTRIBUTION EQUIPMENT (See Details on next Sheet):	This is ancillary equipment required to power a fixed command post location, even when commercial 120 VAC power is unavailable.

SJNCERT RECOMMENDED RADIO EQUIPMENT

	QUANTITY	EACH	EXTENSION	SOURCE	
GMRS PORTABLE RADIO EQUIPMENT:					
Wouxun KG-805G Handheld Transceiver	1	\$80.00	\$80.00	https://www.buytwowayradios.com/wouxun-kg-805g-handheld-transceiver	-
Nagoya NA-771G GMRS SMA-Female Whip Antenna	1	\$21.00	\$21.00	https://www.amazon.com/Nagoya-NA-771G-GMRS-SMA-Female-Whip-Antenna	-
					SUBTOTAL:
					\$101.00
GMRS HOME BASE STATION EQUIPMENT:					
Radioddity DB25-G GMRS Mobile Radio	1	\$120.00	\$120.00	Radioddity.com	-
Chimney Antenna Mast Clamp Set (Pair)	1	\$25.00	\$25.00	https://www.amazon.com/28-24-Style-Chimney-Antenna-Mast-Clamp-Set-Pair	-
1-1/4" EMT x 10' Long	1	\$31.00	\$31.00	https://www.homedepot.com/p/1-1-4-in-x-10-ft-EMT-Steel-Conduit-1-1-4-in-x-10-ft-EMT-Steel-Conduit	-
Browning BR-6155 5 dB gain 450-470 MHz Antenna	1	\$90.00	\$90.00	https://theantennafarm.com/shop-by-category/antennas/br-6155-5-dB-gain-450-470-mhz-antenna	-
LMR400-PL259 Antenna Feedline (40-feet from Antenna to Arrestor)	1	\$113.00	\$113.00	https://www.amazon.com/Times-Microwaves-40-Foot-PL259-Antenna-Feedline	-
Polyphaser IS-50-NX-C2 Lightning Arrestor	1	\$95.00	\$95.00	https://www.hamradio.com/detail.cfm?pid=23936	-
SO-239 Female-N Male Adapters for Arrestor (2-Pack)	1	\$11.00	\$11.00	https://www.amazon.com/Antenna-coaxial-Adapters-2-Pack	-
LMR400-PL259 Antenna Feedline (20-feet from Arrestor to Radio)	1	\$77.00	\$77.00	https://www.amazon.com/Times-Microwaves-20-Foot-PL259-Antenna-Feedline	-
Powerwerx SS-30DV 30A DC Power Supply	1	\$140.00	\$140.00	https://powerwerx.com/ss30dv-desktop-dc-power-supply	-
Epic PwrGate DC Power Splitter	1	\$190.00	\$190.00	https://powerwerx.com/west-mountain-range-dc-power-splitter	-
12V, 50 A-H LiFePO4 Battery	1	\$104.00	\$104.00	https://www.amazon.com/ECO-WORTHY-12V-50AH-LiFePO4-Battery	-
					SUBTOTAL:
					\$996.00
GMRS MOBILE STATION EQUIPMENT:					
Radioddity DB25-G GMRS Mobile Radio	1	\$120.00	\$120.00	Radioddity.com	-
Nagoya NMO-200C GMRS Mobile Whip Antenna, NMO Mount	1	\$48.00	\$48.00	https://www.amazon.com/Nagoya-NMO-200C-GMRS-Mobile-Whip-Antenna-NMO-Mount	-
Tram NMO Magnetic Antenna Mount, 16 Ft of Cable, PL-259 Connector	1	\$47.00	\$47.00	https://www.amazon.com/Tram-Magnetic-Antenna-Mount-16-Ft-of-Cable-PL-259-Connector	-
Rigid Tool Case	1	\$40.00	\$40.00	https://www.homedepot.com/p/RIDGID-2-Drawer-Tool-Case	-
					SUBTOTAL:
					\$255.00
GMRS COMMAND POST GMRS RADIO EQUIPMENT:					
Radioddity DB25-G GMRS Mobile Radio				(Relocated from Above Mobile Radio Station)	-
Ultimate Support Ts-88b Speaker Stand Tripod	1	\$120.00	\$120.00	https://www.amazon.com/Ultimate-Support-TS-88B-Speaker-Stand-Tripod	-
Mister Longarm 8'-23' Fiberglass Painter's Pole Mast	1	\$88.00	\$88.00	https://www.homedepot.com/p/Mr-Longarm-8-ft-x-23-ft-Fiberglass-Painter-s-Pole-Mast	-
Nagoya NMO-200C GMRS Mobile Whip Antenna, NMO Mount				(Relocated from Above Mobile Radio Station)	-
Nagoya GPK-01 NMO Ground Plane Kit, SO-239 Connector	1	\$34.00	\$34.00	https://www.amazon.com/Nagoya-GPK-01-NMO-Ground-Plane-Kit-SO-239-Connector	-
Rigid Tool Case				(Relocated from Above Mobile Radio Station)	-
					SUBTOTAL:
					\$242.00
VARA-FM/AMATEUR BASE STATION:					
Basic Windows Laptop PC	1	\$184.00	\$184.00	https://www.amazon.com/HP-Dual-Core-Laptop-PC	-
VARA-FM Software	1	\$0.00	\$0.00	https://rosmodem.wordpress.com/2011/07/04/vara-fm-software/	-
VARA-Chat Software	1	\$0.00	\$0.00	https://rosmodem.wordpress.com/2011/07/04/vara-chat-software/	-
VARA-FM License (Required for Full-Speed Operation)	1	\$69.00	\$69.00	https://rosmodem.wordpress.com/2011/07/04/vara-fm-license/	-
Yaesu FTM-6000R 50W Mobile Radio	1	\$320.00	\$320.00	GigaParts.com	-
Masters Communications DRA-50M USB Interface, Assembled & Tested	1	\$115.00	\$115.00	https://www.masterscommunications.com/dra-50m-usb-interface	-
USB A to B Data Cable	1	\$7.00	\$7.00	https://www.amazon.com/C2G-28102-USB-A-to-B-Data-Cable	-
Yaesu 10-pin male to 6-pin male Mini DIN adapter (Specify 6-pin male, 9600 baud)	1	\$50.00	\$50.00	https://hammadeparts.com/shop-for-cables/	-
Comprod Universal Clamp Set (Pair)	1	\$120.00	\$120.00	RadioParts.com	-
1-1/4" EMT x 10' Long	1	\$31.00	\$31.00	https://www.homedepot.com/p/1-1-4-in-x-10-ft-EMT-Steel-Conduit-1-1-4-in-x-10-ft-EMT-Steel-Conduit	-

Diamond X-50 2m/70cm Antenna (Specify N Female Connector)	1	\$90.00	\$90.00	https://www.buytwo-wayradios.com/diamc	-
LMR400-N Connectors Antenna Feedline (40-feet from Antenna to Arrestor)	1	\$117.00	\$117.00	https://www.amazon.com/MPD-Digital-LN	-
Polyphaser IS-50-NX-C2 Lightning Arrestor	1	\$95.00	\$95.00	https://www.hamradio.com/detail.cfm?pid	-
SO-239 Female-N Male Adapters for Arrestor (2-Pack)	1	\$11.00	\$11.00	https://www.amazon.com/Antenna-coaxia	-
LMR400-PL259 Antenna Feedline (20-feet from Arrestor to Radio)	1	\$77.00	\$77.00	https://www.amazon.com/Times-Microwa	-
Powerwerx SS-30DV 30A DC Power Supply	1	\$140.00	\$140.00	https://powerwerx.com/ss30dv-desktop-d	-
Epic PwrGate DC Power Splitter	1	\$190.00	\$190.00	https://powerwerx.com/west-mountain-ra	-
					SUBTOTAL:
					\$1,616.00
VARA-FM/AMATEUR MOBILE RADIO STATION:		EACH	EXTENSION	SOURCE	-
Basic Windows Laptop PC	1	\$184.00	\$184.00	https://www.amazon.com/HP-Dual-Core-1	-
VARA-FM Software	1	\$0.00	\$0.00	https://rosmodem.wordpress.com/2011/0	-
VARA-Chat Software	1	\$0.00	\$0.00	https://rosmodem.wordpress.com/2011/0	-
VARA-FM License (Required for Full-Speed Operation)	1	\$69.00	\$69.00	https://rosmodem.wordpress.com/2011/0	-
Yaesu FTM-6000R Mobile Radio	1	\$320.00	\$320.00	GigaParts.com	-
Masters Communications DRA-50 USB Interface, Assembled & Tested	1	\$115.00	\$115.00	https://www.masterscommunications.com	-
USB A to B Data Cable	1	\$7.00	\$7.00	https://www.amazon.com/C2G-28102-US	-
Yaesu 10-pin male to 6-pin male Mini DIN adapter (Specify 6-pin male, 9600 baud)	1	\$50.00	\$50.00	https://hammadeparts.com/shop-for-cabl	-
QYT KT8900R Tri-Band Amateur Radio	1	\$83.00	\$83.00	https://www.amazon.com/QYT-KT-8900R	-
Diamond SG7900ANMO Mobile Radio Antenna	1	\$120.00	\$120.00	https://www.dxengineering.com/parts/dm	-
Diamond CR320BNMO Tri-Band Mobile Radio Antenna	1	\$80.00	\$80.00	https://www.gigaparts.com/diamond-ante	-
Tram NMO Magnetic Antenna Mount, 16 Ft of Cable, PL-259 Connector	2	\$47.00	\$94.00	https://www.amazon.com/Tram-Magnet-N	-
Rigid Tool Case	1	\$40.00	\$40.00	https://www.homedepot.com/p/RIDGID-2	-
					SUBTOTAL:
					\$1,162.00
VARA-FM/AMATEUR COMMAND POST AMATEUR RADIO EQUIPMENT:		EACH	EXTENSION	SOURCE	-
Basic Windows Laptop PC				(Relocated from Above Mobile Radio Sta	-
VARA-FM Software				(Relocated from Above Mobile Radio Sta	-
VARA-Chat Software				(Relocated from Above Mobile Radio Sta	-
VARA-FM License (Required for Full-Speed Operation)				(Relocated from Above Mobile Radio Sta	-
Yaesu FTM-6000R Mobile Radio				(Relocated from Above Mobile Radio Sta	-
Masters Communications DRA-50 USB Interface, Assembled & Tested				(Relocated from Above Mobile Radio Sta	-
USB A to B Data Cable				(Relocated from Above Mobile Radio Sta	-
Yaesu 10-pin male to 6-pin male Mini DIN adapter (Specify 6-pin male, 9600 baud)				(Relocated from Above Mobile Radio Sta	-
QYT KT8900R Tri-Band Amateur Radio				(Relocated from Above Mobile Radio Sta	-
Ultimate Support Ts-88b Speaker Stand Tripod	1	\$120.00	\$120.00	https://www.amazon.com/Ultimate-Suppc	-
Mister Longarm 8'-23' Fiberglass Painter's Pole Mast	1	\$88.00	\$88.00	https://www.homedepot.com/p/Mr-Longa	-
Diamond SG7900ANMO Mobile Radio Antenna				(Relocated from Above Mobile Radio Sta	-
Diamond CR320BNMO Tri-Band Mobile Radio Antenna				(Relocated from Above Mobile Radio Sta	-
Nagoya GPK-01 NMO Ground Plane Kit, SO-239 Connector	2	\$34.00	\$68.00	https://www.amazon.com/Nagoya-GPK-0	-
LMR400-PL259 Antenna Feedline (40-feet from Antenna to Radio)	1	\$113.00	\$113.00	https://www.amazon.com/Times-Microwa	-
VARA-FM Software	1	\$0.00	\$0.00	(Relocated from Above Mobile Radio Sta	-
VARA-Chat Software	1	\$0.00	\$0.00	(Relocated from Above Mobile Radio Sta	-
VARA-FM License (Required for Full-Speed Operation)	1	\$69.00	\$69.00	(Relocated from Above Mobile Radio Sta	-
Canon MF3010VP B/W Laser Printer/Scanner	1	\$131.00	\$131.00	https://www.bestbuy.com/site/canon-imac	-
					SUBTOTAL:
					\$589.00

COMMAND POST AC/DC POWER DISTRIBUTION EQUIPMENT:	QUANTITY	EACH	EXTENSION	SOURCE	-	
1000W Pure Sine Wave Power Inverter	2	\$120.00	\$240.00	https://www.amazon.com/Inverter-Conve	-	
10A/20A LiFePO\$ Smart Battery Charger	1	\$63.00	\$63.00	https://www.amazon.com/Lead-Acid-Port	-	
12V, 50 A-H LiFePO4 Battery (Can Share with Amateur Radio Command Post Station)	2	\$104.00	\$208.00	https://www.amazon.com/ECO-WORTHY	-	
Rigrunner RR/4005H 1 In/5 Out DC Distribution interface, with Powerpole Connectors	1	\$80.00	\$80.00	https://www.westmountainradio.com/prod	-	SUBTOTAL:
4-Position Power Distribution Block for 15/30/45A Powerpole Connectors	1	\$35.00	\$35.00	https://powerwerx.com/4-position-powerp	-	\$626.00