

# EQUIPMENT LIST

Spokane County ARES/RACES members are encouraged to maintain station equipment that may be quickly and reliably put to use in emergency situations. Ready VHF and UHF handheld transceivers, versatile UHF, VHF and HF mobile stations and stations for fixed operations on UHF, VHF and HF that may be quickly disassembled, transported and assembled again for use in the field are all necessities for a timely response. Many members dedicate equipment specifically for use in emergency operations. Whatever kind of station equipment members take to an incident response, it must be in good condition and capable of supplying at least 72 hours of continuous service.

Assignment Equipment to be Used Accessories Shadow or Light mobile, UHF and VHF

## **UHF/VHF Handheld**

Transceiver, mono or dual band capability

- Change of batteries and battery charger
- Automobile cigar lighter adapter, fuses
- Replacement fuses
- Headphones
- Extendable gain antenna
- Magnetic mount antenna, mono or dual band
- BNC to UHF antenna adapter
- 10 foot length of RG-58 coaxial cable with UHF connectors
- One UHF barrel connector
- Small paper pad and pencil; message forms
- Flashlight
- Tools for minor repairs

## **Mobile UHF and VHF**

UHF/VHF Transceiver, Mobile Configuration

- Automobile cigar lighter adapter, fused
- Replacement fuses for radio and DC line
- Alligator battery post clip leads
- Headphones and/or
- Outboard speaker
- Magnetic mount antenna, mono or dual band
- 10 foot length of RG-58 coaxial cable with UHF connectors
- UHF barrel connectors
- BNC to UHF for emergency adaptation of Handheld radio
- Clipboard with paper and pencil; message forms
- Flashlight
- Portable AM broadcast receiver
- Tools for minor repairs,

## **Fixed**

UHF and VHF

UHF/VHF Transceiver, Fixed Station Configuration

- Adequate AC power supply or heavy battery with charger
- 25' and 50' 14 gauge AC extension cables with fused
- power strip (possibly with surge suppression).
- Replacement fuses for radio, supply and power strip
- Headphones and/or outboard speaker
- Magnetic mount antenna, mono or dual band
- Gain fixed station antenna, single and/or multi-element
- Mast material for mounting and elevation of antenna
- Guy line materials
- Extension coaxial cable, minimum two 50' lengths
- One short and flexible
- RG-58U coaxial cable
- UHF barrel adapters
- BNC to UHF adapter for emergency adaptation of
- handheld radio to fixed antenna
- Duct tape and electrical tape
- VHF/UHF watt meter or
- SWR indicator
- Clipboard with paper and pencil; message forms
- Small desk lamp and/or flashlight
- Portable AM broadcast receiver
- Tools for minor repairs

## **Portable**

VHF Packet

VHF Transceiver, computer and Terminal Node Controller

- Adequate AC power supply or heavy battery with charger
- 25' and 50' 14 gauge AC extension cables with fused power strip (possibly with surge suppression).
- Replacement fuses for radio, supply and power strip
- Patch cables from TNC to radio
- Patch cables from computer to TNC

## **Assignment Equipment to be Used Accessories Portable**

### ***VHF Packet***

- Portable printer with paper, if available
- Headphones and/or outboard speaker
- Magnetic mount antenna, mono or dual band
- Gain fixed station antenna, single and/or multi-element
- Mast material for mounting and elevation of antenna

- Guy line materials
- Extension coaxial cable, minimum two 50' lengths
- One short and flexible
- RG-58U coaxial cable
- UHF barrel adapters
- Dual band handheld radio of backup
- BNC to UHF adapter for emergency adaptation of handheld radio to fixed antenna
- Duct tape and electrical tape
- VHF/UHF watt meter or
- SWR indicator
- Clipboard with paper and pencil; message forms
- Map and compass
- Desk lamp and/or flashlight
- Portable AM broadcast receiver
- Tools for minor repairs

## **Mobile HF**

### ***HF Transceiver, Mobile Configuration***

- Replacement fuses for radio and DC line
- Alligator battery post clip leads
- Headphones and/or outboard speaker
- Permanent or magnetic mount antenna, capable of 80 meter and/or 40 meter operation
- 10 foot extension of RG-58 coaxial cable with UHF connectors
- UHF barrel connectors
- Clipboard with paper and pencil; message forms
- HF Watt meter and/or SWR indicator
- Flashlight
- Portable AM broadcast receiver
- Tools for minor repairs

## **Fixed HF**

### ***HF Transceiver, Fixed Configuration***

- Adequate AC power supply or heavy battery with charger
- 25' and 50' 14 gauge AC extension cables with fused power strip (possibly with surge suppression).
- Replacement fuses for radio, supply and power strip
- Headphones and/or outboard speaker
- 80 meter dipole (preferable) with balun or G5RV antenna
- Sling shot or other line-launching device
- Safety flags for improved visibility of aerial lines
- Dummy load
- Antenna tuner
- Grounding wire and short ground rod; sledge hammer
- Minimum 25' mast material for mounting and elevating antenna

- Medium duty guy line materials
- Extension RG-8 cable, minimum two 50' lengths
- One short and flexible
- RG-58U coaxial cable
- UHF barrel adapters
- Duct tape and electrical tape
- HF watt meter or SWR indicator
- Clipboard with paper and pencil; message forms
- For any type of HF data transmission such as pactor, add computer, TNC and special cables connecting the computer to the TNC and the TNC to the radio
- Morse key
- Small desk lamp
- Portable AM broadcast receiver
- Tools for minor repairs including VOM and heavy soldering tools with solder

Besides equipment needs, operators must consider survival issues of clothing, shelter, food and safety. Consultation of several ARRL/ARES manuals on this subject is recommended

Dicopy oleh : Ir. Hendry Risjawan YC0LKJ