WACOM is Washington Amateur Communication, INC. Located in Washington County Pennsylvania

https://wa3com.com

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Purpose of this document: To define policy and procedures for establishing communications

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Emergency Net Operations:

- Anyone can bring up a net when needed
- NCS (Net Control Station) has control of the repeater system.
 - Emergency nets take precedence over weekly scheduled nets
- Operators should gain experience in net control operations by acting as NCS for weekly nets
- A Backup NCS or two should be assigned
- Operators checking in should inform the net before leaving
- Operators should **not** self-deploy and should defer to NCS before taking any action.

ARES Net: Amateur Radio Emergency Service

Tom Wright N3WS – ARES Emergency Coordinator for Washington County tom.n3ws@protonmail.com or n3ws@winlink.org

- An ARES net may be activated for:
 - o Emergency events when additional communication capabilities are needed
 - o Community events where additional communications are needed
 - Marathons, 5K, walks, hamfest, etc

SKYWARN Net:

A SKYWARN Net will be activated on the K3PSP repeater system during significant weather events. A SKYWARN net can be activated for Warning class events. SKYWARN Net will take precedence over other normally scheduled nets.

- National Weather Service (NWS) Definitions
 - Advisory: Be Aware
 - The weather event will be an inconvenience. However, if caution is not exercised, it could become life-threatening (mostly during the winter months)
 - Watches: Be Prepared
 - Conditions are favorable for the weather event in or near the watch area
 - Warning: Take Action
 - The weather event is imminent or occurring in the warned area

SKYWARN

NWS Amateur Radio Frequency147.09 MHzBackup146.88 MHzReport Severe Weather (Toll Free)1-800-242-0510 - Do Not Distribute, Official Skywarn Use OnlyReport Severe Weather (Backup)412-262-1988 / 877-633-6772 (General Public)EmailPBZ-Skywarn@noaa.gov

PACE Communication Plan.

PACE is an acronym for Primary, Alternate, Contingency, and Emergency

Primary communications:

K3PSP Repeater System (5 Repeaters Linked)

- 146.790 Mhz (Central, Shift, No Tone, Washington)
- 147.285 Mhz (East, + Shift, 131.8 Hz Tone, Scenery Hill)
- 145.250 Mhz (West, Shift, 131.8 Hz Tone, West Alexander)
- 147.390 Mhz (North, + Shift, 131.8 Hz Tone, Smith Twp)
- 147.315 Mhz (South, + Shift, 131.8 Hz Tone, Waynesburg)
- EchoLink Node: WA3COM-R

Alternate Communications:

County specific backup simplex and interoperability frequencies:

- 146.55 "TAC-5" Allegheny, Clarion, Clearfield, Greene, Huntingdon, Mercer, Potter, Somerset, Warren
- 146.58 "TAC-8" Beaver, Blair, Clinton, Franklin, Jefferson, McKean, Venango, Westmoreland
- **147.54** "TAC-4" Armstrong, Cambria, Cameron, Erie, Washington, Forest, Fulton, Lawrence, Mifflin
- 147.57 "TAC-7" Bedford, Butler, Centre, Crawford, Elk, Fayette, Indiana

Additionally, three extra frequencies were selected for use as extra or alternate frequencies in each district as follows:

- 145.51 "ALT-1" Northeast District (N2)
- 145.53 "ALT-3" Southwest District (S1)
- 145.59 "ALT-9" Northwest District (N1) and Southeast District (S2)

Contingency Communications:

• 3.983 Mhz LSB

This frequency is used for several groups including:

- Wester PA ARES Net
- Western PA ARRL Health and Wellness Net
- Wester PA Phone Traffic net

Emergency Communications:

146.52 Mhz FM – National Simplex Calling Frequency

Digital Communication VIA NBEMS

Narrow Band Emergency Message Software: http://www.w1hkj.com/

- FLDIGI Software Modem
- FLMSG Forms manager
 - Contains forms for ICS, Red Cross, MARS, radiograms, etc
- FLWRAP File encapsulation / compression
- FLRIG Rig Control Program
- FLAMP Amateur Multicast Protocol file transfer program
 - o Breaks up message into blocks for transmission
 - Missed blocks can be retransmitted by request

Digital modes may also be required to exchange information.

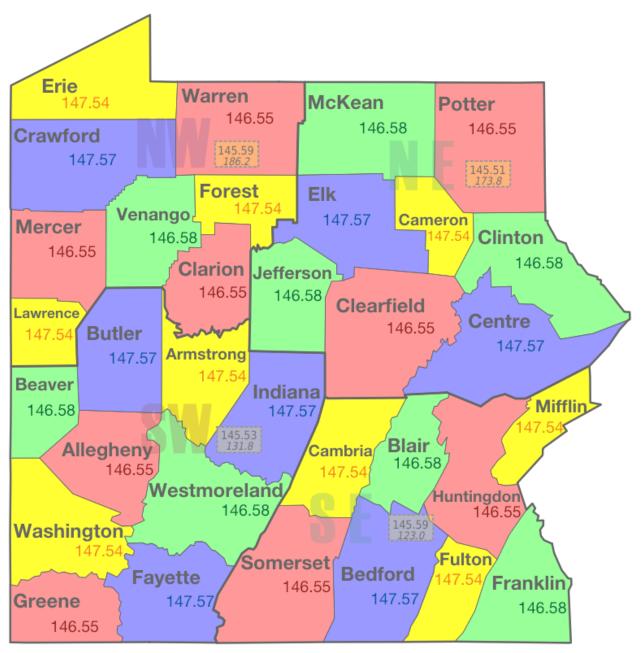
Modes:

- MT63-2000L also referred to as MT63-2KL
 - This mode is typically for 2 meter FM
- Contestia 4-250 or Thor 22
 - These modes are typically for HF USB operation
 - Used for check-ins and short messages
- MFSK-32
 - This mode is used for HF USB operation
 - Used in conjunction with FLAMP to pass larger blocks of data

Digital can be passed on the K3PSP repeater system or the county's backup simplex frequency of 147.54 Mhz, but should be coordinated by the Net Control Station

- PA NBEMS frequency is 3.583 USB
- Center 1500 on Waterfall
 - o Modes
 - Check-ins Thor 22
 - Traffic MFSK32
 - Alternate frequencies and modes may be used when needed.

WPA ARES Simplex Frequency Map



Channel #	Channel Name	Frequency
1	ALT-1	145.51 MHz
2	CALL-2	146.52 MHz
3	ALT-3	145.53 MHz
4	TAC-4	147.54 MHz
5	TAC-5	146.55 MHz
6	Call-446	446 MHz
7	TAC-7	147.57 MHz
8	TAC-8	146.58 MHz
9	ALT-9	145.59 MHz

Recommended Simplex Radio Programing

PEMA Frequencies

Statewide	7.2505 MHZ LSB		
	3.9935 MHz LSB		
	5.3465 MHz USB		
	5.4035 MHz USB		
Eastern	7.2275 MHz LSB		
	3.9875 MHz LSB		
Western	7.2720 MHz LSB		
	3.9905 MHz LSB		
PANBEMS	7.0725 MHz USB	1000 Hz Center Waterfall	Olivia 8/500
PANBEMS	3.5835 MHz USB	1000 Hz Center Waterfall	Olivia 8/500

Emergency Contact Phone Numbers

PEMA	717-651-2001
FEMA	202-646-2828
DHS	202-282-8000
FCC	202-418-1122
ARRL	860-594-0200