

# PACE Communication Worksheet

PACE an acronym to represent **P**Primary, **A**lternate, **C**ontingency, and **E**mergency, a concept for plans or courses of action in tasking / operational planning that can be used in any subject.

PACE As it relates to Communication is 4 independent layers of planning Communication failure based on the resources of the individual operator. Each layer in planning should not rely on any previous layer that may have failed. Therefore if cellular service is not working due to network outage it is likely cellular data be out of service and both should be considered one layer option unless you have a 2<sup>nd</sup> cell service provider on a second phone.

**EXAMPLES:**

**Primary**-cell phone voice/cell data texting/emailing/misc communication applications etc

**Alternate**- land based internet IP phone & email/ POTS copper line phone

**Contingency**- Amateur radio VHF/UHF (Voice/data) Winlink VHF /HF/P2P

**Emergency**-AREDN Mesh(microwave only) Starlink/Garmin Inreach/IRIDIUM/other comm available.

	PRIMARY	ALTERNATE	CONTINGENCY	EMERGENCY
DEVICE	CELL PHONE/Apps/Texting	INTERNET-EMAIL/VOICE	HAM-VOICE/DATA- WINLINK	Garmin Inreach/Starlink/other sats AREDN microwave/everything else
POWER	charge cell phone	ROUTER backup power?	HT Spare Batteries?	Internal battery charged?
	charge power banks	Can ISP operate in outage?	Charge batteries off grid?	External battery capable?
	vehicle charge adapter?	Hawn Tel Fiber "should" work	Station Battery backup?	Spare battery?
	other battery USB sources?	POTS line?	Generator & Fuel on hand?	Charge batteries off grid?
	battery bank shell for phone	computer off grid solution?	Quick Solar charge capable?	Computer off grid charger?
ANTENNA	INTERNAL	NONE NEEDED	backup antennas?	spare antenna if capable?
			Relocation Field Antennas?	
			GOBAG 5/8 wave VHF ant?	
			GOBAG HF 40m dipole?	
RESOURCE	alternate carrier capable?	Computer	Transceivers VHF/UHF	Satellite transceiver actived prior event?
TASK	what is your plan& goal?	what is your plan& goal?	what is your plan& goal?	what is your plan& goal?
SELF	operator personal logistics?	operator personal logistics?	operator personal logistics?	operator personal logistics?
	survive/operate how long?	survive/operate how long?	survive/operate how long?	survive/operate how long?

**HAM RADIO priorities**

1<sup>st</sup> POWER to sustain equipment, NO POWER you are done no need to continue the list.

2<sup>nd</sup> ANTENNAS on both fixed station and portables maximize simplex range both Tx & Rx

3<sup>rd</sup> RADIO look for low current stby RX and adjustable RF output power increase as needed

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