

CACHE COUNTY AMATEUR RADIO COMMUNICATIONS PLAN

March 18, 2009

1. INTRODUCTION

1. The Cache County Amateur Radio Emergency Service® (ARES®) is composed of FCC licensed amateur radio operators who have voluntarily registered their capabilities and equipment for public communications service.
2. Under Federal regulations, the contents of messages handled by amateur radio are not divulged to unauthorized persons and such public service communications are furnished without compensation of any kind.
3. The Cache County ARES® functions in this EMERGENCY PLAN under the direction of the Cache County Emergency Coordinator (EC), who is appointed by the Utah Section Emergency Coordinator of the American Radio Relay League (ARRL) With the support of a Amateur Radio operators that are part of ARES® and or RACES.
4. The EC may appoint Assistant Emergency Coordinators (AEC) sufficient to function efficiently.

2. PURPOSE

1. The purpose of this plan is to provide a written guide containing the minimum information that would be needed in an emergency. Each emergency is different and flexibility is a necessity to provide an adequate response.
2. The primary responsibility of the Cache County ARES® is to furnish emergency communications in the event of a natural or a man made disaster when regular communications fail or become inadequate.
3. All drills, training and instruction shall be carried out to ensure readiness to respond quickly in providing effective amateur emergency communications.
4. The following jurisdictions/agencies shall be served, as requested, in an emergency:
 1. Incorporated Jurisdictions in Cache County.
 2. The Unincorporated Area or Populations under the authority of the Cache County Executive and the Cache County Office of Emergency Management.
 3. The American Red Cross
 4. Police and Fire Departments
 5. Hospitals and Nursing Homes
 6. The District Emergency Coordinator, when surrounding counties request assistance.
 7. The State of Utah Division of Emergency Management
 8. The Federal Emergency Management Agency
 9. Cache County Sheriffs Office

3. PLAN ACTIVATION

1. Any member of the Cache County ARES® who becomes aware that a communications emergency may exist, should contact the EC/AEC and monitor the Cache County Emergency Net repeater for activity. (Emergency repeater frequencies and tones are documented in Appendix 1)
2. A series of three tones (hi-lo-hi) heard on the 146.720- repeater indicates that a net or an emergency situation is in progress. Should you hear these tones, please stay on frequency and check in with net control. If you hear no traffic within a couple of minutes, call for the net control operator on this frequency or the 146.640 repeater. (See Appendix 1)
3. If local telephone service is available, the EC and/or Assistant ECs shall be notified by telephone or by any other means available
4. In any emergency in which amateur radio is requested to serve, amateur radio operators may be alerted by any City/County Emergency Management Coordinator, Red Cross, or State official notifying the EC. In the event the EC is unavailable, an Assistant EC shall be notified. The Assistant will attempt to notify the EC periodically.
5. When this plan is activated, EVERY Amateur Radio operator is encouraged to monitor the information network frequency and offer assistance AS ASKED by the NCS. The most important skill is the ability to LISTEN, LISTEN, LISTEN. As tactical nets are established on frequencies

assigned by the emergency frequency coordinator, the NCS can direct volunteers to these frequencies. The purpose of the information net (InfoNet) is to collect and disseminate VERIFIED information to those listening. This could include weather data, road conditions, shelter locations, summaries of media reports, status of commercial power, staging areas, locations of supplies, requests for volunteers with specific expertise, etc. This is NOT a tactical or staging net. The NCS will not conduct roll calls but will keep lists of stations who have checked in. Stations will check out with NCS. Generally stations will “check in” with “callsign and location”. Stations may check in with VERIFIED (not hearsay) information. The NCS may ask for lists of undamaged roads into a particular area to assist agencies moving and staging emergency vehicles. Emergency traffic of any kind is, obviously, encouraged.

6. When a group (such as CERT, Red Cross, shelter, church, staging area manager, search/rescue, etc.) has a specific assignment and geographic area, the emergency frequency coordinator will determine a simplex or repeater frequency for use. The group MUST have enough operators to justify a frequency assignment AND must have an NCS. The InfoNet will keep track of such assignments (location, purpose, frequency and NCS). The InfoNet can regularly update listeners as to what activities are occurring and what frequencies various tactical nets are using. When the tactical assignment is complete, the frequency is released for assignment by the emergency frequency coordinator.

4. MOBILIZATION

1. The EC will notify ARES® members by Radio, Cell phone, pagers and Email Systems as from information entered into the ARES member database.
2. If telephone service is available, the Telephone Tree will be activated. If telephone service is not available, notification will be by radio and/or runner, as necessary.
3. The EC, or operator designated by him, will transmit on each VHF 2-Meter repeater, in turn, advising all stations of the ARES® activation and request that all operators switch to the ARES® frequency for further instruction.
4. Upon the awareness or notification that a communications emergency exist, members of the Cache County ARES® will check-in on the Cache County Emergency Net and maintain radio silence. (Emergency repeater frequencies and tones are documented in Appendix 1)
5. Mobile and Portable units will be activated.
6. The EC will assume NET CONTROL or delegate another operator to act as Net Control Station (NCS) on the Cache County Emergency Net repeater or other frequency to be determined by the EC. (See Appendix: 1.) Control will be established at whichever Emergency Operation Center (EOC) is activated by the Emergency Management Coordinator of the jurisdiction involved with the emergency. Only VHF equipment will be used at the EOC unless otherwise directed by the EC. HF stations will be established as needed at a location away from the disaster site at the residence of an ARES® operator. HF stations will maintain a link with the EOC via the Cache County Emergency Net repeater and use appropriate HF frequencies (see Appendix 1). Operators with pre-assigned operating positions/locations shall contact the EC/AEC to determine if they should proceed to their operating locations immediately or standby on the primary net frequency for further instructions.

Tyler Griffiths N7UWX
Cache County ARES® Emergency Coordinator

Cache County Command and Monitoring Frequencies

It is highly recommended that these frequencies are programmed into your radio beforehand, in order, and named with the tactical calls listed.

TACTICAL CALL	PRIMARY	BACKUP #1	BACKUP #2
Command #1/	146.640-	146.640 s	146.800-
Command #2/INFONET	146.720-	146.720 s	
EOC Intercom	147.520 s		
Tac #1	146.460 s		
Tac #2	146.560 s		
Tac #3	146.520 s		
State Wide Net	147.200 +	147.260+	147.180+
Portable Repeater	145.410-		
Packet/Winlink	145.030 s		
APRS/Winlink	144.390 s		

Other Resources

TACTICAL CALL	PRIMARY	BACKUP #1	BACKUP #2
ERC	146.420 s		
Smithfield	145.550 s		
Smithfield	147.460 s	146.580 s	
Logan PAR	146.580 s		
Logan PAR	146.520 s		
Hyde Park	146.500 s		
Sedgwick (Idaho)	146.800-	146.800 s	
Promontory	147.260+	147.260 s	
Red Spur	145.310-	145.310 s	
Mt. Logan (440)	449.625-	449.625 s	
Wellsville (440)	449.800-	449.800 s	
North Logan – N7RRZ	147.240+	147.240 s	
North Logan – N7RRZ	449.325+	449.325 s	

*Some repeaters need permission/MOU (memorandum of understanding)

Regional Nets

TACTICAL CALL	PRIMARY	BACKUP	TIME
BRIDGERLAND ARC	146.720-	146.720 s	TUE 21:00
LOGAN STORE HOUSE ERC	146.420 s		1&3 SU 20:30
SPARC (Sedgwick)	146.800-		1st Wed 20:00
RACES VHF Net (IRLP)	147.200+	147.260+	3rd Thur Even Mo. 20:00
RACES HF Net	3.920		3rd Sat Odd Mo. 08:00
Beehive Utah Net (NTS)	7.272		Daily 12:30
UBET (Brigham City area)	145.430-	145.290-	Wed 20:00
Box Elder Co. Emergency training net	145.430-	145.290-	Sun. 19:30
DCARC (Davis County)	147.42 s	449.925-	Thur. 19:00
OARC (Ogden)			
BEARS (Bear Lake)	147.120+		Sat. 18:30
UARC	146.620-		Sun. 20:00

Cache County Radio Resource

Repeater Name: Valley Floor Repeater

Frequency: 146.640 **Offset:** - negative **PL Tone:** none

Location: Cache County Sheriffs office

Coverage: Cache County, Valley floor

Primary Use: Command net #1

Secondary Use: Command net#2

Notes:

- Swappable with Mt. Logan for command net depending on situation.
- Autopatch - *9 (pause) ###-####
- 911 -*9911
- Emergency power

Repeater Name: Mt. Logan Repeater

Frequency: 146.720 **Offset:** - negative **PL Tone:** 103.5

Location: Mt. Logan

Coverage: Cache County, Cache Valley, Logan Canyon, 100 mile radius.

Primary Use: Command net #2

Secondary Use: Command net#1

Notes:

- Swappable with Valley Floor Repeater for command net depending on situation.
- Links –
Permanent links - 147.260+, 145.310-, 449.625-
Temporary links – 146.800-, 145.410-, 147.200+
- Autopatch - *###-#### (no letup)
- 911 - 911
- Emergency power
- 516 Emergency tones on
- 522 Emergency tones off

Repeater Name: EOC Intercom

Frequency: 147.520 **Offset:** simplex **PL Tone:** none

Location:

Coverage:

Primary Use: Cache EOC to Logan EOC

Secondary Use: Talk in to EOC

Notes:

Repeater Name: TAC #1, #2, #3

Frequency: 146.460, 146.560, 146.520 **Offset:** simplex **PL Tone:** none

Location:

Coverage:

Primary Use: Assigned as necessary

Secondary Use:

Notes:

Repeater Name: IRLP Repeater (node 3381)

Frequency: 147.200 **Offset:** + positive **PL Tone:** 103.5

Location: Little Mt.

Coverage: Cache Valley

Primary Use: State Wide VHF RACES net

Secondary Use: Cache County to Box Elder County

Notes:

- IRLP
- Link to Mt. Logan
- East bench coverage for Mt. Logan if linked
- 660 Connect 147.200 and the Mt Logan Repeater System
- 661 Dis-Connect from and make the IRLP available

Repeater Name: Portable Repeater

Frequency: 145.410 **Offset:** - negative **PL Tone:** 103.5

Location: As Assigned

Coverage: Location dependant 25 mile coverage

Primary Use: as needed

Secondary Use:

Notes:

- Linkable to Mt. Logan, Sedgwick, 449.800-, 446.000 s, 449.875-

Repeater Name: Sedgwick Repeater

Frequency: 146.800 **Offset:** - negative **PL Tone:** 88.5

Location: Sedgwick Peak

Coverage: Cache Valley, SE Idaho, SW Wyoming

Primary Use:

Secondary Use:

Notes:

- Linkable to Mt. Logan
- 449.375- permanent link on same site
- Autopatch ?

Repeater Name: BARC Promontory

Frequency: 147.260 **Offset:** + positive **PL Tone:** 103.5

Location: South end of Promontory Mt. range

Coverage: South to Utah County, North to Box Elder County, West Desert

Primary Use:

Secondary Use: Backup for RACES net

Notes:

- Emergency power
- Autopatch same as Mt. Logan
- Backup for RACES net

Repeater Name: Red Spur

Frequency: 145.310 **Offset:** - negative **PL Tone:** 103.5

Location: Red Spur

Coverage: Bear Lake County, Rich County, Logan Canyon, Black Smith Fork Canyon, SW Wyoming

Primary Use:

Secondary Use:

Notes:

- Solar Power
- Autopatch same as Mt Logan

Repeater Name: Wellsville

Frequency: 449.800 **Offset:** - negative **PL Tone:** 103.5

Location: Mt. Sterling

Coverage: Cache County, Black Smith Fork Canyon

Primary Use:

Secondary Use:

Notes: Emergency power

Repeater Name: Mt. Logan 440

Frequency: 449.625 **Offset:** - negative **PL Tone:** 103.5

Location: Mt. Logan

Coverage: Cache County, Cache Valley, Logan Canyon, 100 mile radius.

Primary Use:

Secondary Use:

Notes:

- Links –
Permanent links - 147.260+, 145.310-, 449.625-
Temporary links – 146.800-, 145.410-, 147.200+
- Autopatch - *###-#### (no letup)
- 911 - 911
- Emergency power

Repeater Name: N7RRZ

Frequency: 147.240 **Offset:** +positive **PL Tone:** 79.7

Location: North Logan

Coverage: Cache County, Cache Valley,

Primary Use:

Secondary Use:

Notes:

- Links –
Permanent links – 449.325- (156.7) same site
- Autopatch - *007###-#### (no letup)
- 911 - 911

Repeater Name: Winlink N7UWX-10

Frequency: 145.030 **Offset:** none **PL Tone:** none

Location: Cache County Sheriff Office

Coverage: Cache County, Cache Valley,

Primary Use: Winlink

Secondary Use: Packet

Notes:

- Could also be on 144.390 (National APRS Frequency)
- Riverside Packet node Call “**LGU**”

This document was created with Win2PDF available at <http://www.win2pdf.com>.
The unregistered version of Win2PDF is for evaluation or non-commercial use only.
This page will not be added after purchasing Win2PDF.