AUXCOMM

HANDBOOK

MITCHELL COUNTY, NC

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Emergency Operations

Scope:
This plan provides operational guidelines for Mitchell County, NC AUXCOMM communications support during and after a disaster or emergency situation in Mitchell County or surrounding areas.

I. Definitions:

A. Confined area disaster:

An event that encompasses a limited area, up to several city blocks. Although the disaster area may be small, Communications may be needed at other sites.

B. Large area disaster:

An event that encompasses a large geographical area; i.e.an Entire County, region, or more.

C. What is AUXCOMM

AuxComm is Auxiliary Communications. The North Carolina AuxComm Society represents the interests of affiliated volunteer auxiliary communications organizations throughout North Carolina. All Amateur radio operator volunteers listed in the NC AuxComm database are certified as having satisfactorily completed, at the minimum, ICS Courses IS-100, 200, 700, & 800. This certification is required for participation in any training or emergency event in which the Incident Command System (ICS) is utilized (virtually all). The AuxComm Society maintains a database of ICS certified Amateur Radio Operators to provide backup and emergency communications to all served agencies.

D. What is ARES?

ARES is the Amateur Radio Emergency Service, and is part of the ARRL Field Organization. ARES membership does not require any ICS certification. In general, ARES operators may participate in any communications event that does not require possession of the minimum ICS certificates (ICS-100, 200, 700, & 800).

E. What is RACES?

RACES is the Radio Amateur Civil Emergency Service. It is a joint effort of both Amateur Radio and Emergency Management agencies. Its focus is primarily CIVIL DEFENSE related. At present there are no RACES groups or operation in Mitchell County.

Some of the information in this handbook is from government and other sources. ARES is the copyright of ARRL. This handbook is to be considered as providing operational guidelines for the Mitchell County, NC AuxComm. It is a work-in-progress and may be updated at any time as the need arises. Other protocols may be used on a case-by-case basis as the need dictates.

II. Mitchell County AuxComm Membership

AuxComm membership requirements

To be considered for AuxComm membership, an application for membership (Page 2 of MARC membership application, available on kk4mar.org website) in Mitchell County AuxComm/ARES shall be submitted to the Mitchell County AuxComm Emergency Coordinator (AUXCOMM EC). Additionally, submission of completion certificates for the following four minimum FEMA courses, IS-100, 200, 700 and 800 is also required. These courses **are mandated by NC Governors decree & NC Emergency Management** and must be completed prior to any consideration for Mitchell County AuxComm membership. Upon receipt of the required documents, The Mitchell County AEC shall review the application for approval. In the event the membership application is not approved, all forms shall be returned to the applicant along with the reason for disapproval. Grounds for denial of membership are limited to conduct deemed as hindering the ability of Mitchell County AuxComm to complete its mission and/or unacceptable Amateur Radio practices.

Registration in NC AUXCOMM Database

Upon receipt of the required application and course certificates, the AEC shall issue an email invitation to the applicant to join the NC AuxComm database. This database is a compilation of all AuxComm volunteers that have completed the required FEMA courses. Following the email link and instructions, the AuxComm applicant will complete the form and upload a PDF copy of all completed FEMA certificates as directed. Upon notification of completion, the MC AUXCOMM EC (or inviter) shall verify the form data and certificates for accuracy and completeness. If all items are satisfactory, the MC AUXCOMM EC shall activate the record. This registration information will be used by the NC AuxComm Section Emergency Coordinator. ICS course competition and registration is a NC mandated requirement for Auxcomm membership.

ARES membership requirements

Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Because ARES is an Amateur Radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership (From ARRL Website). Completion of ICS courses is not a requirement for ARES membership. ARES only members will not be used during actual emergency events or training. ARES members may be utilized for community events (bike rides, races, etc.)

Responsibilities of AuxComm Volunteers

a. Inform the AUXCOMM EC of any changes in registration information that takes place after initial registration.
b. Become familiar with this handbook and locally utilized frequencies, locations (i.e. shelters, EOC, etc.), and AuxComm, and National Traffic System (NTS) procedures, including those specific to Mitchell County.
c. Participate in HF and VHF ARES nets, training and drills, whenever possible. The minimum net participation is 2 nets per quarter.
d. Inform the AUXCOMM EC of the status of your station at least once per year.
e. Update the NC AuxComm database as required upon completion of additional FEMA or other relevant courses.

III. Activation Information

A. Activation of this plan shall be made by the AUXCOMM EC, or designee upon request of one or more of its client agencies, which include, but is not limited to the following:

Mitchell County Emergency Management
Blue Ridge Regional Hospital (BRRH) and its supported facilities, Spruce Pine, NC
Toe River Health District (TRHD) Mitchell, Yancey, & Avery Counties Spruce Pine, NC
Red Cross
North Carolina State Emergency Response Team (SERT)
Mutual Aid for other ARES groups in and out of NC
National Weather Service (NWS)
Mitchell County Sheriff's Department
SKYWARN-National Weather Service

B. The AUXCOMM EC or designee may utilize the following methods to establish AuxComm activation in support of NC State or local EOC emergency communications:

1. Activation Announcement on local repeaters.

PRIMARY VHF REPEATER for Mitchell County ARES is KK4MAR Iowa Hill, Spruce Pine: **147.210 + PL 123.0**.
SECONDARY VHF REPEATER: KK4MAR Locust Knob, Bakersville: **145.310 - PL 123.0**
TERTIARY UHF REPEATER Is Woody's Knob, Spruce Pine: **443.925 + PL 123.0**

In the event no repeaters are available, Use **146.535 simplex as primary Simplex, 146.500 for secondary simplex, & 146.550 as the tertiary simplex frequency. Announcement will also be made on the designated 10 meter frequency (28310.00 USB).**

2. Announcement may also be made on the Tarheel Emergency Net frequency (THEN) - **3923 KHz (LSB) and/or 7232 KHz (LSB)**, depending on availability of operators and conditions.

3. Announcement via telephone.

4. Announcement via email (includes text pagers and Small Message Services (SMS) capable devices).

IV. Net Control & Member Activities:

A. NCS Assignment:
A Net control station (NCS) may be appointed by the AUXCOMM EC, Assistant AUXCOMM EC, AuxComm District Emergency Coordinator (ADEC), or another AUXCOMM EC in the affected area. . All communication will be routed through the NCS station on the net frequency. The NCS should be located outside the affected area if possible and should not be involved in the emergency. The NCS should be as much as possible self-sustaining with respect to electrical power, manpower, area and commercial communications and life support. The AUXCOMM EC should appoint a station designated as a backup NCS to be available to take over as NCS should it become necessary

B. AuxComm member activities:

During a disaster situation, individual AuxComm members available for assignment/deployment will be identified by the NCS. This list shall be forwarded to the AEC. AuxComm volunteers may be assigned directly to the disaster site or to a staging area. Once on the scene, individual AuxComm members should identify themselves to the on-scene Incident Commander (IC) or their designee for assignment. All AuxComm volunteers assigned either to the disaster site, EOC, or the staging area **MUST have in their possession, an AuxComm/ARES/Mitchell County Identification Card or equivalent acceptable to the event Incident Commander or his/her designee. Copies of the ICS certificates should be included in "go-kit. Failure to have this identification may result in non-entrance to the area.** In order to avoid the added confusion of unnecessary and unauthorized personnel on the scene, only those volunteers assigned directly to the disaster site or staging area(s) should go there. **In no event shall any AuxComm member "self-deploy".** All volunteers should be equipped with portable radios capable of operation on all 2 Meter frequencies. Members should also have available mobile units, magnetic mount antennas and extra batteries. AuxComm members may be asked to provide communications between the disaster site and support sites such as hospitals, staging areas or client agency command centers. AuxComm operators may be tasked with communication via the NC VIPER radio system. Knowledge of this system and talk groups will be part of training. All deployments shall be at the specific direction of the served agency via the IC or his designee.

All traffic must be "plain language or text", authenticated by the agency official that originates the message and takes responsibility for it.

Unless directed otherwise by the agency or NCS, all voice traffic must be routed through the NCS. IS-213 message format shall be utilized wherever possible. In all instances the mission is to provide communications support to client agencies. AuxComm members should undertake no actions other than this primary mission unless specifically requested by the client agency. **Communications is our PRIMARY job**, not firefighting, law enforcement, first aid or anything else. **However**, when activated, all AuxComm members are under the direct control of the Incident Commander (IC) or his designee. Although unlikely, you may be directed to perform a non-communication related function, depending upon circumstances. If so directed, perform the assignment as directed without comment or objection. Advise the EC or AEC of all non-communications assignments.

While a disaster situation may require the taking of certain calculated risks in order to accomplish the mission, AuxComm members are responsible for their own safety and should take no action that places them in personal jeopardy. In a questionable situation, pull back and report your situation to the IC, NCS, or AEC.

V. Activation Levels & Definitions

The following Activation Level definitions will allow for a structured unified response to emergency situations for Mitchell County and the State of North Carolina, Dept. of Emergency Management (NCEM) http://www.dem.dcc.state.nc.us/index2.htm, while providing support for civilian agency activities during emergency situations. This plan is modeled on the NCEM Emergency Operations Plan. It is not necessary for activation levels to occur sequentially, increasing or decreasing levels. It is the responsibility of the AEC's to coordinate with NCEM and apply the Activation Level necessary to provide support.

A. Activation Level 4 – Standby:

This level of activation is to raise the awareness of volunteers and to provide advance notice in order for them to prepare for a possible deployment. There is no requirement for a net to be established at level 4. Volunteers should monitor their radios if possible and check their level of preparedness. Below are some examples:

Check family members
Check schedule and availability
Check batteries (and generator if owned)
Check 'Go Kit'
Fill gas tank, including generator(s) Etc.

A level 4 activation notification message will take the following format:

"An AuxComm Level 4 Stand-by Activation has been established by (EC name) to support the (Event Name) at (time and date). All volunteers are asked to check preparations and listen to the specified MC or NC AuxComm frequencies, Respond to AEC or NCS via email or voice, indicating state of readiness. "

B. Activation Level 3 – Minimal Deployment

At this level of activation AuxComm AECs shall assess the need for volunteers. AECs may contact minimal numbers of members to gather scheduling information. There is no requirement for a net to be established at level 3, however if the AEC feels a net is required, they may call for Net Control Station (NCS) volunteers. Liaison station support may also be established. If deemed necessary the AEC may conduct equipment testing including possible testing at the EOC. Volunteers should monitor their radios if possible (see frequencies below) and check their level of preparedness.

A level 3 activation notification will take the following format:

"An Auxcomm Level 3 Minimal Deployment Activation has been established by (AEC name) to support the (Event Name) at (time and date). All AuxComm volunteers who are available are asked to standby and be ready for an assignment. All available operators are asked to listen to specified NC or Mitchell County (MC) AuxComm frequencies. Please stand by for additional information."

C. Activation Level 2 – Moderate Deployment

At this level of activation at least one AuxComm AEC or designee shall be deployed at the EOC, or at a location designated by EM. AECs shall start the phone tree (see addendums) for AuxComm members to establish a 72 hour schedule.

There is a requirement for a net to be established at level 2 and the AEC or his designee shall establish a schedule for Net Control Station (NCS) volunteers.

Volunteers should monitor their radios (see frequencies below) and be ready to react to calls for service at the EOC or elsewhere.

A level 2 activation notification will take the following format:

"An AuxComm Level 2 Moderate Deployment Activation has been established by (AEC name) to support the (Event Name) at (time and date). All volunteers are asked to be ready for an assignment and listen to AuxComm frequencies. The call up list has been activated. Please stand by for further information."

D. Activation Level 1 – Massive Deployment

At this level of activation AEC staffing schedules are updated to fulfill operator and net control requirements for up to two weeks. All AuxComm resources shall be available to support NCEM and other served agencies. All nets and sub-nets shall observe strict net protocols until the Activation Level 1 is rescinded.

A level 1 activation notification will take the following format:

"An AuxComm Level 1 Massive Deployment Activation has been established by (AEC name) to support the Mitchell County and State EOC at (time and date). All AuxComm volunteers are asked to be ready for an assignment and listen to the assigned VHF/UHF/HF frequencies for further information. Please ensure your family is secure before applying for a schedule slot."

VI. FREQUENCIES (VOICE)

MITCHELL COUNTY

147.210 MHz + **(PL 123.0) Iowa Hill, Spruce Pine is the Primary emergency repeater for MC AuxComm operations.** This repeater should be monitored first in the event of an activation, severe weather, or disaster. This repeater may also be used by McDowell County during ARES activation.

145.310 MHz + **(PL 123.0) Locust Knob, Bakersville is the secondary emergency repeater for MC AuxComm operations.**

443.925 MHz + **(PL 123.0) Woody's Knob, Spruce Pine is tertiary backup repeater for MC AuxComm operations**.

28310.00 KHz USB MC Local HF frequency Auxcomm operation (available to all license classes).

NOTE: All MC repeaters have the ability to be linked together. Decision to link shall be made by the AEC or designee depending upon requirements. It is anticipated that during a declared emergency, all repeaters WOULD be linked.

146.535 **(No PL)** is the primary MC simplex frequency for AuxComm operations.
146.500 **(No PL)** is the secondary MC simplex frequency for AuxComm operations.
146.550 **(No PL)** is the tertiary MC simplex frequency for AuxComm operations.
146.520 **(No PL)** is the National Simplex Calling Frequency.

McDOWELL COUNTY
146.985 + **(No PL)** is the McDowell County primary backup repeater.
444.125 + **(PL 162.2)** is the McDowell County secondary backup repeater
146.550 **(No PL)** is the McDowell County ARES primary Simplex frequency.
146.580 **(No PL)** is the McDowell County ARES secondary simplex frequency

This is not a complete listing of all the repeaters in the area. Consult the Mitchell County website (KK4MAR.ORG) & the addendums at the end of this document for further information. Remember: other repeaters can be pressed into emergency service if needed.

Do not count on a particular repeater (or any repeaters) being or staying available.

NC & NATIONAL FREQUENCIES
3.923 (LSB) is the Morning / Night primary for the Tarheel Emergency Net.

7.232 (LSB) is the back-up frequency, if required, for the Tarheel Emergency Net.

3.935 (LSB) is designated for NC State RACES primary use if frequency restrictions are invoked.

7.250 (LSB) is designated for NC State RACES secondary use if frequency restrictions are invoked.

14.340 (USB) is designated for NC State RACES tertiary use if frequency restrictions are invoked.

3.938 (LSB) is the North Carolina Single Sideband Net. This frequency may be pressed into service in the event of a National Emergency.

VII. FREQUENCIES (DATA)

Winlink Express via Pactor, Paclink, or Packet will be utilized for all E-mail data transmissions. Connection shall be made using the most expedient means available to pass the required traffic. This will usually mean using the local RMS Pactor station, KC2HKU in Spruce Pine 7103.7, 10139.5, if available. SHARES operators may use local station NCS520, or any reachable SHARES station. Peer-to-Peer connections may also be utilized. Coordination and utilization will be determined on a case-by-case basis by the AEC in coordination with the MC EM. In certain circumstances FLDIGI sound card protocols may be utilized to pass information to wide areas. Operators should be capable of operating in this mode, either with their own equipment or others.

VIII. NET OPERATIONS

If you become aware of a potential situation that may require AuxComm activation, immediately monitor the MC repeaters in the following order: 147.210, 146.310, 443.925, 146.535(S). Do not wait for a call-up or e-mail notification. If you hear no traffic after a few minutes, announce yourself as monitoring and attempt to contact the AEC either through the repeater system or via telephone or other means.

If the AuxComm net is brought up on a standby mode, regular traffic is still permissible. However, Net traffic has priority over normal traffic. Longer breaks between transmissions are suggested, and transmissions should be shorter than normal. If possible, long discussions type traffic should be moved to another repeater or simplex.

If the Emergency net is in an active mode, regular traffic will be severely limited. AuxComm, ARES and Skywarn traffic will have priority. A Net Control Station will be on air, and all traffic should go through that station. Longer breaks between transmissions are required, and transmissions must be shorter than normal, to allow for emergency and priority traffic to be passed rapidly. Non-germane traffic should be moved to another repeater or a simplex frequency.

If a served agency contacts you requesting Amateur Radio support for an event or emergency communications backup, take down as much information as possible, then immediately notify the AuxComm Emergency Coordinator(s) of the request. This ensures all requests are routed as quickly as possible to the appropriate support group.

If the situation warrants, move point-to-point and rag chew traffic to other repeaters, or if in range, a simplex frequency such as 146.520, 146.500 or 146.550 MHz (remember to open your squelch).

As part of mutual aid understanding and agreements, Mitchell County AuxComm may be requested to assist McDowell, Avery, Yancey, or other regional Counties should the need arise. Familiarity with frequencies, repeaters, & locations in the areas will be beneficial.

REMEMBER: In an emergency, our frequencies may be monitored by the public, served agencies, and the news media. **IT IS VITAL** that all operations be conducted in a friendly, courteous, and professional manner. Regardless of what some people may think, we ARE an emergency service. Our actions reflect on all Hams, and to a point, on other emergency services.

IX. PREPAREDNESS

A. Preload all of your radios with the repeater frequencies and PL tones for your area, as well as some of the wide area repeaters outside of your normal area. Using your main VHF/UHF antenna, try to activate each of your area repeaters so that you know which repeaters you can actually use, and verify the settings for each repeater.

B. Have an inside VHF/UHF antenna that can be used for storms. If possible, it should be mounted as high as possible inside the attic. Test this antenna so that you know which repeaters you can use with it. Periodically use this antenna instead of the main station antenna to detect problems before the storm antenna is needed.

C. Determine your station’s simplex range. A rough idea can be determined during repeater nets by switching between the input and output frequencies, and noting which stations can be heard on the input. Range will be determined by terrain, antenna heights and gains, and transceiver output power.

D. Keep your station at a level of readiness at all times, even if it means connecting a handheld radio to the main station antenna. You will be surprised what 5 watts can do with a decent antenna.

F. If your station uses a wet cell battery located outside, periodically clean the battery connections and tighten them. A poor connection will reduce the amount of power available to the station during a power failure or dangerous operating conditions.

G. Experiment to determine how little power is required from your main radio and antenna to achieve full quieting on the county emergency repeaters, and your favorite repeaters. Reduced transmit power will lengthen your available equipment operating time during power outages.

H. Consider constructing one or more twin lead "expedient" and/or expendable J-pole antennas. These are for use in case the main station antenna fails.

X. Training

A. Weekly training nets meet on the 147.210 MHz + PL 123.0 Iowa Hill repeater on Wednesday at 8:00 pm (20:00) Eastern Time. Normally, all three Mitchell County repeaters will be linked for nets, as well as training exercises and emergency events as required.

B. The Tarheel Emergency Net (THEN) is held nightly on 3923.0 KHz LSB at 7:30 PM. This is the designated NC Emergency net and will be activated by the NC Emergency Management when required. Monday is considered the AuxComm business night, and is usually called by the NC AuxComm Section Emergency Coordinator. If you have the capability, try and check-in on this net at least once a week, preferably on Mondays.

C. MC AuxComm will participate in formal training events, (ie, November SET, State & Local County drills, and other formal simulations & exercises).

D. MC AuxComm will participate in various Public Service events which provide chances to exercise & hone needed skills and practice for emergency communications

E. Red Cross First Aid/CPR certification (and renewal), while not required, can make you a more valuable volunteer, and possibly save a life!

F. Obtain & study the ARRL ARES Field Resources Manual, The National Interoperability Field Operation Guide (NIFOG), the AuxComm Field Operation Guide (AUXFOG) & other reference documents that may be of assistance during an event.

G. Experiment with Simplex operations in our area.

H. Obtain and study a copy of the US Coast Guard Radiotelephone Handbook

(https://www.dhs.gov/sites/default/files/publications/CGTTP_6-01_1A_Radiotelephone_Handbook-%20508%20compliant%20v2.pdf).

This will assist in understanding protocols, as well as SHARES operations.

H. We expect to participate in Skywarn nets and operations.

I. Become familiar with all aspects of this manual, keep it and other related documents in your

"GO Kit". Minimum suggested documents are:

1. MARC AuxComm membership list with phone numbers & addresses, etc.
2. MC contact list to include MC administration, Sheriff's Office, Bakersville & Spruce Pine. Administrative contacts, Blue Ridge Regional Hospital numbers.
3. Yancey & Avery County Administration contacts & numbers.
4. IC-213 Forms
5. Copies of all of your ICS certificates (Very Important!)

J. All MC AuxComm members should be trained and capable of Winlink operation whether on their own personal gear or systems installed at BRRH, EOC, or other locations. Airmail, Paclink, RMS Express will be utilized in these operations.

Addendum 1

MITCHELL COUNTY SERVED AGENCIES (SA), Potential DEPLOYMENT POINTS (DP), SHELTERS (S); Antennas. coax already in place: Vertical VHF/UHF Antenna in (V), Yagi antenna (Y), HF antenna (HF); Telephone Area code = 828

Item	Facility	911 Address	City	Phone	Code	Lat	Long	Alt
EOC - EM	Mitchell County EOC EMS Building		Bakersville		SA,DP, V,Y			
Schools	Bowman Middle School	410 N. Mitchell Ave.	Bakersville	688-2752	DP, S	36° 0.62' N	82° 09.33' W EM86wa	2499'
	Deyton Primary School	308 Harris St.	Spruce Pine	765-2504 765-9790	DP, S	35° 54.60' N	82° 05.05' W EM85xw	2643'
	Greenlee Primary School	2206 Carter's Ridge Road	Spruce Pine	765-9562	DP, S	35° 58.23' N	82° 03.18' W EM85xx	2684'
	Gouge Elementary School	134 Laurel St.	Bakersville	688-2141	DP, S	36° 00.88' N	82° 09.19'W EM86wa	2477'
	Harris Middle School	121 Harris St.	Spruce Pine	765-2321 765-9666	DP, S	35° 54.57' N	82° 05.05' W EM85xw	2643'
	Mitchell High School	416Ledger School Road	Ledger	688-4432 688-4514	DP, S	35° 58.23' N	82° 07.05' W EM85wx	2803'
	Tipton Hill School	4256 NC Hwy 197	Green Mountain	688-2949	DP, S	36° 02.10' N	82° 16.10' W EM85ua	2429'
	Mayland Community College	200 Mayland Drive	Spruce Pine	765-7351	DP, S	35° 56.0 N	82 01.51 W EM85xw	
Medical	Blue Ridge Regional Hospital (BRRH)	125 Hospital Way	Spruce Pine	765-4201	SA,S DP, V,HF	35° 54.67' N	82° 03.75' W EM85xv	2612'
	Bakersville Med Clinic	86 N. Mitchell Ave	Bakersville	688-2104	DP, V	36° 00.95' N	82° 09.43' W EM86wa	2466'
	BRRH Medical Clinic Mayland Campus	7968 Hwy19E North	Spruce Pine	765-5672	DP, V	35° 55.80' N	82° 01.27' W EM85xw	2883'
	BRRH Medical Clinic Burnsville Campus	800 Medical Campus Drive	Burnsville	688-0200	DP, Y	35° 54.98' N	82° 19.97' W EM85uw	2740'
	Spruce Pine Family Medical Center	496 Altapass Hwy	Spruce Pine	765-0170	DP	35° 54.67' N	82° 03.75' W EM85xv	2612'
	Cannon Memorial Hospital	434 Hospital Drive	Linville	737-7000	DP	36° 03.63' N	81° 53.36' W EM96bb	3758'
	Toe River Health District Office	125 Forest Service Road	Ledger (Basement)		SA, DP			
	Mitchell County Health Center	125 Forest Service Road	Ledger	688-2371	SA, DP	35° 58.0' N	82° 06.78' W	

Item	Facility	911 Address	City	Phone	Code	Lat.	Long.	Alt
Shelters	Senior Citizen's Center	152 Ledger School Rd	Ledger	688-3019	DP, S	35° 58.02' N	82° 06.93' W EM85wx	2745'
	Brian Center	218 Laurel Creek Ct.	Spruce Pine	765-7312	DP	35° 54.30' N	82° 05.30' W EM85xw	
	First Baptist Church	125 Tappen St	Spruce Pine	765-9411	DP, S	35° 54.88' N	82° 04.25' W EM85xw	
	Henredon Plant	400 Henredon Road	Altapass		S	35° 54.1' N	82° 0.60' W EM85xv	3000'
Law (local)	MC Sheriff	63 Crimson Laurel Circle	Bakersville	688-3982	SA, DP	36° 00.78' N	82° 09.24' N' EM86wa	2458'
	Police – Spruce Pine	131Highland Ave	Spruce Pine	765-2233	SA, DP	35° 54.90' N	82° 04.40' W EM85xw	2559'
	Police - Bakersville	26 S. Mitchell Ave	Bakersville	688-2113	SA, DP	36° 00.90' N	82° 09.52' W EM86wa	2447'
	NC Highway Patrol	106 Highland Ave	Spruce Pine	765-6220	SA, DP	35° 54.90' N	82° 04.40' W EM85xw	2559'
Utilities	French Broad Electric		Bakersville	688-4815				
	Progress Energy	1-800-419-6356	Spruce Pine	Toll free				
	Piedmont Gas	1-800-356-2593	Spruce Pine	Toll free				
	Avery-Mitchell Airport (Morrison Field)	Brushy Creek Rd 4mi NE of Spruce Pine	3000' x 60' runway	733-8202		35° 56.8' N	81° 59.75' W EM95aw	2750'
Gov	Town Hall – Spruce Pine	106 Highland Avenue	Spruce Pine	765-3000	SA, DP	35° 54.90' N	82° 04.40' W EM85xw	2559'
	Town Hall - Bakersville	26 S. Mitchell Ave	Bakersville	688-2113	SA, DP	36° 0.95' N	82° 09.5' W EM86wa	2450'
	Mitchell County Administration Building	26 Crimson Laurel Circle	Bakersville	688-2139	SA, DP	36° 0.95'N	82° 09.30'W EM86wa	2445'
	NC Forest Service	125 Forest Service Road	Ledger	688-9405	SA, DP	35° 58.0' N	82° 06.78' W EM85wx	
	Nat Park Svc - Ranger	133 Parkway Maintenance Road	Spruce Pine	765-6052	SA, DP	35° 51.28' N	82° 03.15' W EM85xu	2813'
	Nat Park Svc - Maint	214Parkway Maintenance Rd	Spruce Pine	765-9266	SA, DP	35° 51.32' N	82° 03.22' W EM85xu	2815'

Item	Facility	911 Address	City	Phone	Code	Lat	Lonmg	Alt
	Buladean FD	28 Firehouse Road	Buladean Community	688-4322	SA, DP, S	36° 06.52' N	082° 10.68' W EM86vc	2776'
	Estatoe FD	1126 Hwy 19E South	Estatoe Community	765-6163	SA, DP, S	35° 54.20' N	82° 07.70' W EM85wv	
	Fork Mountain FD	2525 Fork Mountain Road	Fork Mtn Community	688-4794	SA, DP, S	36° 03.11' N	082° 10.72' W EM86vb	2772'
	Parkway FD	12966 Hwy 226 S.	Grassy Creek	765-2117	SA, DP, S	35° 52.92 N	082° 03.48' W EM85xv	2618'
	Spruce Pine FD	100 Firefighter Way	Spruce Pine	765-3009	SA, DP, S	35° 54.90' N	082° 04.41' W EM85xw	2559'
	Ledger EMS	5165 S. 226 Hwy	Ledger Community	688-9072	SA, DP, S	35° 57.90' N	082° 06.92' W EM85wx	2717'
	Bradshaw Volunteer FD	29 Pigeon Roost Rd 28740	Green Mountain	688-9008	SA, DP, S	36° 02.77' N	082° 17.93' W EM86ub	
	Parkway FD Little Switzerland Station	516 Chestnut Grove Rd	Little Switzerland	766-9933	SA, DP, S	35° 51.25'N	082° 05.75' W EM85wu	3568'
	Dbl Island Vol FD (S&W of Toe R, Yancey Co)	5360 Double Island Rd	Green Mtn Community	675-0632	SA, DP, S	35° 57.40' N	082° 12.30' W EM85vw	
	Clearmont Volunteer FD (south of Red Hill)	#197 197 North Highway	Green Mtn Community	682-7500	SA, DP, S	36° 00.91'N	082° 13.60' W EM86va	
	Parkway FD Altapass Station	3452 Altapass Hwy	Altapass Community	765-0088	SA, DP	35°54.39 N	082° 0.083W EM85xv	
	Bakersville FD	306 Baker Lane	Bakersville	688-9127	SA, DP	36° 0.809 N	082° 9.76 W Em86wa	2443'
EOCs	Avery County EOC	175 Lineville St.	Newland	733-8210	SA	35° 05.03' N	081° 55.37' W	3599'
	McDowell County EOC	41 S. Garden St.	Marion	652-7121	SA	35° 41.03' N	082° 00.47' W	1400'
	Yancey County EOC	15 East Blvd	Burnsville	678-9266	SA	35° 54.97' N	082° 17.73' W	2728'
	McDowell Am Radio Club W4HOG	N. Garden St.	Marion	none	SA, DP	35° 41.10' N	082° 00.50' W	1401'
Law	**Burnsville Police**	**2 Town Square**	**Burnsville**	**682-4683**	**SA**	**35° 55.01' N**	**082° 17.97' W**	**2809'**
	Marion Police	270 S. Main	Marion	652-3231	SA	35° 40.82' N	082° 00.43' W	1382'
	Avery County Sheriff	300 Schultz Circle	Newland	733-5855	SA	36° 05.20' N	081° 55.58' W	??
	McDowell County Sheriff	270 S. Main	Marion	652-4000	SA	35° 40.82' N	082° 00.43' W	1382'
	Yancey County Sheriff	1 East Main	Burnsville	682-2124	SA	35° 55.03' N	082° 17.95' W	2807'
	NC Hwy Patrol- Yancey	116 N. Main	Burnsville	682-2579	SA	35° 55.10' N	082° 18.00' W	??

	NC Hwy Patrol-McDowell	3975 NC Hwy 226 S	Marion	652-2181	SA	35° 39.20' N	081° 57.40' W	??
	NC Hwy Patrol- Avery	301 Cranberry Street	Newland	733-0489	SA	36° 05.90' N	081° 55.75' W	??

ADDENDUM 2

W1AW (ARRL) FREQUENCIES and INFO

W1AW is both the amateur radio call sign and the primary operating station of the American Radio Relay League (ARRL). The station routinely transmits bulletins and Morse code practice using common amateur radio frequencies. **During a communications emergency bulletins are transmitted hourly in order to keep amateur radio operators informed.**

In a communications emergency, monitor W1AW for special bulletins as follows:
Voice on the hour.

Voice Frequencies are 1.855, 3.99, 7.29, 14.29, 18.16, 21.39, 28.59 and 147.555 MHz.
Tele-printer Frequencies are 3.625, 7.095, 14.095, 18.1025, 21.095, 28.095 and

147.555 MHz. Bulletins are sent at 45.45-baud Baudot and 100-baud AMTOR,
FEC Mode B, 110-baud ASCII will be sent only as time allows.
Code Frequencies are 1.818, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675,
28.0675 and 147.555 MHz. Code bulletins are sent at 18 wpm.
Further information can be found on the web at http://www.arrl.org/w1aw.html